# Mechanical Drive Components

DODGE®
AN RBC® COMPANY

To receive a copy of the Dodge® Bearing Engineering Catalog, Dodge Gearing Engineering Catalog, Dodge Power Transmission Components Engineering Catalog, or Dodge product manuals, contact your local authorized Dodge distributor or www.dodgeindustrial.com.

**Member of…**

AMERICAN BEARING MANUFACTURERS ASSOCIATION

AMERICAN GEAR MANUFACTURERS ASSOCIATION

CONVEYOR EQUIPMENT MANUFACTURERS ASSOCIATION

MECHANICAL POWER TRANSMISSION ASSOCIATION

POWER TRANSMISSION DISTRIBUTORS ASSOCIATION

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

BEARING SPECIALIST ASSOCIATION

HYDRAULIC INSTITUTE

**Member of…**

MHI - THE INDUSTRY THAT MAKES SUPPLY CHAINS WORK

NATIONAL STONE, SAND & GRAVEL ASSOCIATION

ELECTRICAL APPARATUS SERVICE ASSOCIATION, INC.

SOCIETY FOR MINING, METALLURGY & EXPLORATION INC.

SOCIETY OF WOMEN ENGINEERS

DODGE products are manufactured in ISO 9001 Certified plants

Prices and data indicated in this document are for your convenience and were correct at time of printing with the exception of clerical and/or printing errors. Possession of this document by any person or company is not to be construed as an offer to sell to him or to anyone else the goods listed herein at the prices stated.

**All data and prices are subject to change without notice** and shall be subject to those prices in effect at time of shipments. All published and quoted prices are based upon the application of, and all sales are expressly subject to, the Company's Standard Terms and Conditions of Sales are available upon request. This document supersedes all previously published catalog/pricing documents.

**WARNING**

The information provided for Product Interchange in this catalog is for use only as a general reference by persons qualified to recognize unreasonable selection options. Products suggested as substitutes may have dimensional, rating, pricing and other differences from products to be replaced. This selection method must be used in conjunction with the applicable product catalog which contains important precautions and other pertinent information.

**In illustrations throughout this catalog, safety guards have been removed for photographic purposes.**

Warning: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be described or as may be specified in safety codes should be provided, and are neither provided by Dodge Industrial nor are the responsibility of Dodge Industrial. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer output shaft.

# Intro Table of Contents


| | |
|---|---|
| **INTRO-4** | **Reference Guide** |
| **PT3-1** | **Synchronous Products** |
| **PT3-2** | **HT500** |
| PT3-2 | HT500 Features/Benefits |
| PT3-6 | HT500 Sprockets |
| PT3-17 | HT500 Belts |
| PT3-19 | Selection |
| **PT3-78** | **HT250** |
| PT3-78 | HT250 Features/Benefits |
| PT3-80 | HT250 Sprockets |
| PT3-86 | HT250 Belts |
| PT3-88 | Selection |
| **PT3-122** | **HTD** |
| PT3-122 | HTD Features/Benefits |
| PT3-122 | HTD Sprockets |
| PT3-127 | Selection |
| **PT3-134** | **Dyna-Sync** |
| PT3-134 | Dyna-Sync Features/Benefits |
| PT3-135 | Dyna-Sync Pulleys |
| PT3-143 | Dyna-Sync Belts |
| PT3-148 | Selection |
| PT3-176 | Synchronous Installation |
| PT3-179 | Synchronous Engineering |
| **PT4-1** | **V-Belt Products** |
| PT4-2 | Features/Benefits |
| PT4-3 | V-Belt Sheaves |
| PT4-26 | Custom Made Sheaves |
| PT4-27 | Light duty |
| PT4-40 | FHP |
| PT4-42 | Variable Pitch |
| PT4-51 | Split Taper Sheaves |
| **PT4-64** | **Belts** |
| PT4-76 | FLEXLINK |
| PT4-78 | D-V Wedge |
| PT4-120 | Classical |
| PT4-159 | V-belt Installation |
| PT4-163 | Engineering/Technical |

# Table of Contents
(cont.)


**PT5-1** **Roller Chain Sprockets**
PT5-2 Features/Benefits
PT5-3 Specification: Taper-Lock
PT5-15 Selection
PT5-25 Engineering/Technical
PT5-28 Roller Chain Installation
**PT6-1** **Bushing Products**
PT6-2 TAPER-LOCK
PT6-2 TL Features/Benefits
PT6-3 TL Bushings
PT6-13 TL Weld-on hubs
PT6-16 QD
PT6-16 QD Features/Benefits
PT6-16 QD Bushings
PT6-27 QD Weld on hubs
PT6-28 Split taper bushings
**ACC-1** **Accessories Products**
ACC-2 V-Belt Tools
ACC-5 Roller Chain Tools
ACC-6 Shaft Collars
ACC-7 Motor Mounts
ACC-9 Grip tight Bushings
ACC-11 Idler Brackets and Bushings

# Reference Guide

## HT500 Synchronous Belt Drives
**Page PT3-2**

**Virtually maintenance free**

- Requires no oil or grease to run efficiently
- No need to re-tension the belts
- Compact maintenance free design

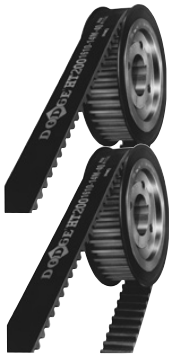
**Modified Curvilinear Tooth Profile**

- Allows synchronous transmission of power eliminating slippage and speed variation on high torque application
- Low installation tension reducing loads on other power transmission components (i.e., bearings, gearing, motors, etc.)
- Delivers power up to speeds of 10,000 FPM (Standard hardware is rated for 6,500 FPM). Contact Dodge if speeds greater than 6500 FPM are required.
- Superior meshing characteristics with the sprocket
- Reduces sprocket wear due to friction
- Higher power ratings than comparable timing belts
- Quieter operation compared to chain drive

## HT250 Synchronous Belt Drives
**Page PT3-79**

- Full line of TAPER-LOCK and minimum plain bore sprockets (MPB)
- Higher capacity drives
- Available pitches: 5 mm, 8 mm, and 14 mm
- Made-to-order sprocket capabilities: construction, non-standard number of teeth, etc.
- Computer drive selection available
- Modified curvilinear tooth profile

## HTD Synchronous Belt Drives
**Page PT3-122**



- Full line of QD sprockets
- Available pitches: 5 mm, 8 mm, and 14 mm
- Made-to-order sprocket capabilities: construction, non-standard number of teeth, etc.
- Computer drive selection available
- Curvilinear tooth profile

## DYNA-SYNC Drives (Timing)
**Page PT3-134**

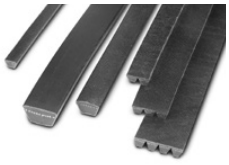
The Original Timing Drive

- Synchronized No-Slip Transmission
- No Lubrication Required
- Low Maintenance
- Virtually No Backlash
- Constant Linear Velocity
- Pitches: XL, L, H, and XH
- Dual-Sided Teeth Available for Serpentine D

## V-Belt Sheaves
**Page PT4-3**

- Full line of TAPER-LOCK, QD , and Split taper available
- Classical (A, B, and C) Wedge style (3V, 5V, and 8V) groove profiles
- Narrow belt (3V,5V, and 8V) belt profiles
- Stock sizes from one to 12 grooves and 2.65” to 71” in diameter
- Manufactured to MPTA standards
- MTO capabilities—material, construction, BTS, etc.
- Computer drive selection available

## V-Belts
**Page PT4-44**



- Full range of Classical (A, B, and C) and (3V, 5V, and 8V) belts
- Narrow belt (3V,5V, and 8V) belt profiles
- Manufactured to ARMA standards
- Poly-band, Double-V (hex), and FHP belts available
- Lengths from 22” to 660”
- Drive capability from 1 HP to over 1000 HP

## FHP Belt Drives
**Page PT4-146**

- Full range of FHP sheaves and belts available
- Finished-bore and “QT/L” bushed style sheaves available
- “H” bushings available in metric bores
- Sheave outside diameter range: 1-1/2” to 19-3/4”
- Variable pitch sheaves available
- Computer drive selection available

# Reference Guide

### Roller Chain Sprockets
### Page PT5-2

- Sprockets manufactured to ANSI standard
- TAPER-LOCK sprockets: #35 (3/8” pitch) to #160 (2” pitch)
- Double-strand and double-single sprockets also available

### Bushings
### Page PT6-2

- Full line of TAPER-LOCK, QD, and Split taper available
- Stock sizes available up to 12” shaft diameter
- Material: sintered steel, cast iron, ductile iron, and stainless steel
- Easy installation and dismounting
- Inch and metric bores

### Weld-On Hubs
### Page PT6-27

- Full line of TAPER-LOCK and QD available
- Steel material with rugged, compact designs
- Hubs to accommodate most bushing sizes
- Made-to-order capabilities—special construction and materials

# Synchronous Products


| | |
|---|---|
| **PT3-2** | **HT500** |
| PT3-2 | HT500 Features/Benefits |
| PT3-6 | HT500 Sprockets |
| PT3-17 | HT500 Belts |
| PT3-19 | Selection |
| **PT3-78** | **HT250** |
| PT3-78 | HT250 Features/Benefits |
| PT3-80 | HT250 Sprockets |
| PT3-86 | HT250 Belts |
| PT3-88 | Selection |
| **PT3-122** | **HTD** |
| PT3-122 | HTD Features/Benefits |
| PT3-122 | HTD Sprockets |
| PT3-127 | Selection |
| **PT3-134** | **Dyna-Sync** |
| PT3-134 | Dyna-Sync Features/Benefits |
| PT3-135 | Dyna-Sync Pulleys |
| PT3-143 | Dyna-Sync Belts |
| PT3-148 | Selection |
| **PT3-176** | **Synchronous Installation** |
| **PT3-179** | **Synchronous Engineering** |

# Features/Benefits

## HT500 Drives - The TCO Drive Solution:

### Energy Efficient - Maintenance Free

HT500 high torque synchronous drive system is the latest generation in the Dodge synchronous product line. The HT500 belt is manufactured with polyurethane, carbon fiber cords and a black nylon tooth facing, featuring the modified curvilinear tooth profile. This drive system utilizes Dodge's Taper-Lock® bushing system to deliver our most power dense synchronous drive in a compact package. Also available from stock: Fin fan sprockets with QD* bushings, and minimum-plain-bore (MPB) sprockets.

#### Value added Features

- Virtually maintenance free
- No need to re-tension the belts
- Compact maintenance free design
- Modified curvilinear tooth profile
- Positive tooth engagement eliminating slippage and speed variation on high torque application
- Low installation tension reducing loads on other power transmission components (i.e., bearings, gearing, motors, etc.)
- Temperature range is -65° F to 185° F
- Standard catalog products are rated for 6,500 FPM. MTO options available up to 10,000 FPM. Contact Dodge for MTO products
- Higher power ratings than comparable timing belts, making HT500 suited to replace chain drives
- Wide range of stock parts available
- With our TAPER-LOCK bushing installation an easy on, easy off process is assured

Dodge HT500 Belts utilize materials that achieve the highest standard of quality and performance in the industry allowing the superior torque capacity needed for high performance.

- Belt backing is polyurethane designed for maximum resistance to environmental conditions, oil, grease, and high temperatures
- The belt's carbon fiber cords provide superior tension and torque transmission preventing belt shrinkage and stretch
- Belt's teeth are enclosed in a black nylon tooth face delivering resistance to abrasion and tooth's shear, increasing drive efficiency, belt and sprocket's life, and reducing noise
- Idlers can be used on the backside and front-side of the belt

#### What does the Sprocket bring to the Dodge Synchronous Drive System?

Synchronous belt drives run slip-free and are proven to be more efficient and provide better performance than v-belt drives. They also offer significant performance advantages over chain drives related to wear and elongation resistance, they require no lubrication and have broad applicability. It is not necessary to retension synchronous drives – a significant advantage over alternative drive solutions. HT500 synchronous drives can also operate in wet and oily environments.

#### Our design advantages:

- Positions belt center line closer to motor, reducer, and bearings reducing belt pull while potentially increasing the L10 life of bearings
- Requires less shaft length than QD style products
- Delivers more torque than QD style products
- Has no protruding flanges or bolt heads

The HT500 synchronous drive system has the potential to improve your overall power transmission package by increasing efficiency, lowering your maintenance cost, downtime, and belt pull to increase the L10 life of bearings.

Our high torque HT500 synchronous drive product is Dodge's commitment to your success by providing you energy savings and overall cost reduction. Another TCO solution for the marketplace!

# Features/Benefits

## Energy Efficient, High Torque Belt Drive System

The US Department of Energy encourages the use of synchronous belts in all motor installations to maintain an overall efficiency rating of 98 percent across a wide load range. The HT500 Synchronous Belt is designed to offer the energy efficiency of a synchronous belt drive in a compact design.

HT500 75HP Drive Example

Energy Savings = Annual Energy Use x (1 – n1/n2)

**Mechanical Drive Comparison**

| **Application Data** | | **V-Belt Drive** | **HT500 Drive** |
|---|---|---|---|
| **Motor HP** | 75 | Efficiency 93 percent | Efficiency 98 percent |
| **RPM** | 1800 | Status: Current | Status: New |
| **Nameplate Efficiency** | 95.4 | | |
| **Motor Load** | 75 percent | | |
| **Estimated kW/hr rate** | $0.10 | 264,920 kWh/yr x .93<br>= 246,376 kWh/yr<br>264,920 - 246,376 kWh/yr<br>= 18,544 kWh/yr or 7 percent | 264,920 kWh/yr x .98<br>= 259,622 kWh/yr<br>264,920 - 259,622 kWh/yr<br>= 5,298 kWh/yr or 2 percent |
| **Estimated kW/hr use by motor** | 264,920 kWh/yr | | |
| **Duty Cycle** | Continuous 6000 hrs x yr (3 shifts) | | |
| Efficiency loss kWh/yr and $USD | | 18,544 kWh/yr x $0.10<br>= $1,854.40 USD | 5,298 kWh/yr x $0.10<br>= $529.80 USD |
| **Kilowatt hour potential savings when Using HT500 Synchronous Drive System** | | **Energy Savings = 264,920 kWh/yr x (1 – 93/98)<br>= 13,516 kWh/yr<br>13,516 kWh/yr x $0.10** | |
| **Potential Energy Saving gain from using HT500 Synchronous Drive System** | | **$1,352.00 USD** | |

Additional Benefits from HT500

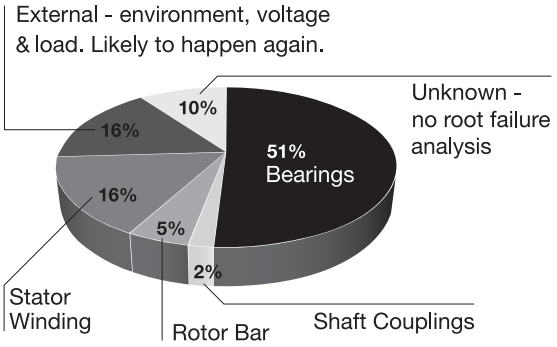
- No Maintenance Cost
- Zero slip
- Constant time, speed
- Positive engagement
- Less downtime

Our Value added solution will not only save you time and money short term, but many years thereafter

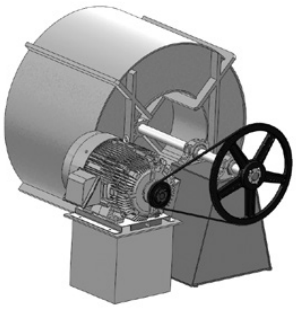
# Features/Benefits

## Energy Efficient, High Torque Belt Drive System

The Institute Electrical and Electronics Engineers (IEEE) conducted a survey to identify major causes of motor failures; the chart below is an abstract from their Petro-Chemical paper PCIC-94-01. It concludes that 51 percent of all motor failure is attributed to bearing problems. By decreasing the belt pull and overall overhung load, a motor bearing will last longer.

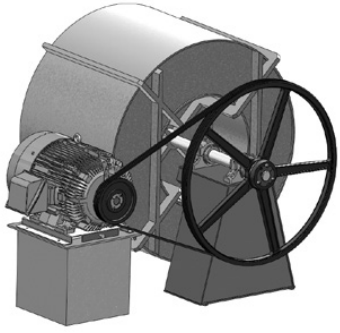



### HT500 75HP Synchronous Drive vs. V-Belt Drive Comparison



**General application specifications**

| | |
|---|---|
| HP: | 75 |
| Freq: | 60HZ |
| Enclosure: | TEFC |
| RPM: | 1800 |
| Frame: | 365T (NEMA) |
| Ratio: | 4:1 |



| Name | Description | Part Number |
|---|---|---|
| Driver Sprocket | 14MX-45S-20 | 482031 |
| Driver Bushing | 3020 x 2-3/8-KW | 117124 |
| Driven Sprocket | 14MX-180S-20 | 482048 |
| Driven Bushing | 3525 x 1-15/16-KW | 119709 |
| Belt(s) (QTY:1) | HT500 Belt 3500-14MX-20 | 142766 |
| Motor | 75HP/60HZ/4P/365T Frame | _ |
| Motor Base | 45B type B slide base | 122118 |

HT500 VS V-Belt

| Name | Description | Part Number |
|---|---|---|
| Driver Sheave | 3/5V12.5-3020 | 111103 |
| Driver Bushing | 3020 x 2-3/8-KW | 117124 |
| Driven Sheave | 3/5V50.0-4040 | 111014 |
| Driven Bushing | 4040 x 1-15/16-KW | 117316 |
| Belt(s) (QTY:3) | 5VX1800 Belt | 107186 |
| Motor | 75HP/60HZ/4P/365T Frame | _ |
| Motor Base | 45B type B slide base | 122118 |

### Our Total Cost of Ownership Solution!

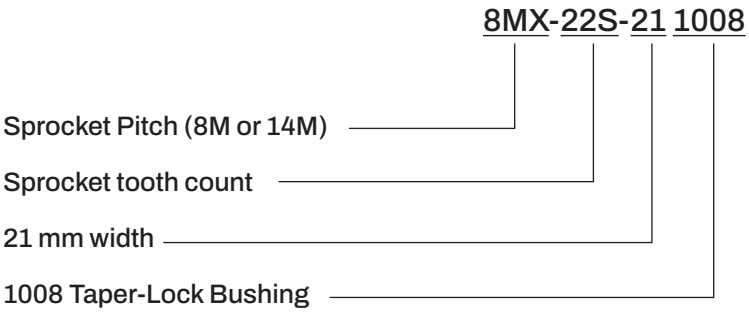
**We want to offer you added value solutions so you can achieve your maximum potential cost savings**

- Driver sheave diameter reduced by 38 percent
- Driven sheave diameter reduced by 37 percent
- Used 1 belt instead of 3
- Cost Reduction
- Reduced overall drive weight by 51 percent
- Belt pull reduced by 23 percent which increases the L10 life of the motor bearing by a factor of 2

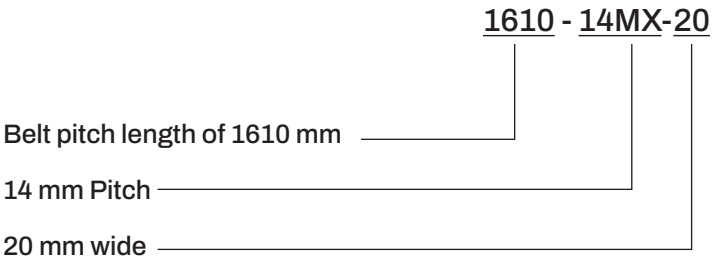
# Features/Benefits

## HT500 Sprocket and Belt Part Nomenclature

### Sprocket Designation

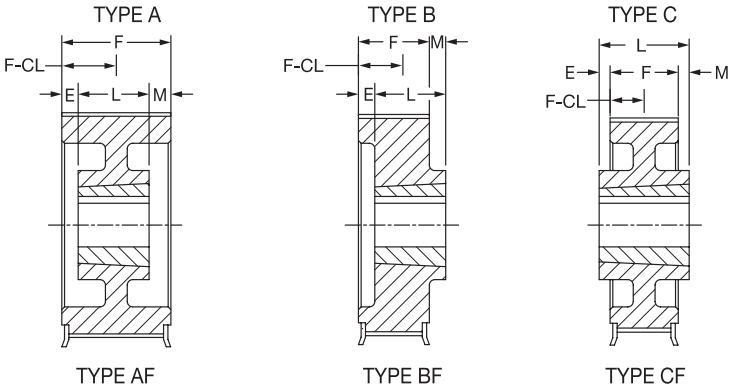



### Belt Designation



# Specification

## HT500 Taper-Lock Sprockets




**1 = Block  2 = Web  3 = Arms**

The letter "F" in column "Type" indicates that Sprocket has flanges

**8M HT500 Sprocket**

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Type | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | L | M | Min. | Max | | |
| **8MX-12** | | | | | | **F = .85"** | | | | | | | |
| 8MX-22S-12-1008 | **481875** | 22 | 2.206 | 2.143 | 2.606 | A1F | 0 | 0.88 | 0 | 1/2 | 1 | 0.4 | 0.0020 |
| 8MX-25S-12-1108 | **481876** | 25 | 2.506 | 2.443 | 2.906 | A1F | 0 | 0.88 | 0 | 1/2 | 1 | 0.6 | 0.0038 |
| 8MX-26S-12-1108 | **481877** | 26 | 2.607 | 2.544 | 2.906 | A1F | 0 | 0.88 | 0 | 1/2 | 1 1/8 | 0.6 | 0.0045 |
| 8MX-27S-12-1108 | **481878** | 27 | 2.707 | 2.644 | 3.207 | A1F | 0 | 0.88 | 0 | 1/2 | 1 1/8 | 0.7 | 0.0054 |
| 8MX-28S-12-1108 | **481879** | 28 | 2.807 | 2.744 | 3.207 | A1F | 0 | 0.88 | 0 | 1/2 | 1 1/8 | 0.9 | 0.0064 |
| 8MX-29S-12-1108 | **481880** | 29 | 2.907 | 2.844 | 3.090 | A1F | 0 | 0.88 | 0 | 1/2 | 1 1/8 | 0.9 | 0.0075 |
| 8MX-30S-12-1108 | **481881** | 30 | 3.008 | 2.945 | 3.408 | A1F | 0 | 0.88 | 0 | 1/2 | 1 1/8 | 1.0 | 0.0087 |
| 8MX-31S-12-1210 | **481882** | 31 | 3.108 | 3.045 | 3.328 | A1F | 0 | 1.00 | 0 | 1/2 | 1 1/4 | 1.1 | 0.0101 |
| 8MX-32S-12-1210 | **481883** | 32 | 3.208 | 3.145 | 3.608 | A1F | 0 | 1.00 | 0 | 1/2 | 1 1/4 | 1.1 | 0.0117 |
| 8MX-33S-12-1610 | **481884** | 33 | 3.308 | 3.245 | 3.566 | A1F | 0 | 1.00 | 0 | 1/2 | 1 11/16 | 1.1 | 0.0152 |
| 8MX-34S-12-1610 | **481885** | 34 | 3.409 | 3.346 | 3.810 | A1F | 0 | 1.00 | 0 | 1/2 | 1 11/16 | 1.2 | 0.0175 |
| 8MX-35S-12-1610 | **481886** | 35 | 3.509 | 3.446 | 3.805 | A1F | 0 | 1.00 | 0 | 1/2 | 1 11/16 | 1.3 | 0.0200 |
| 8MX-36S-12-1610 | **481887** | 36 | 3.609 | 3.546 | 4.009 | A1F | 0 | 1.00 | 0 | 1/2 | 1 11/16 | 1.4 | 0.0227 |
| 8MX-37S-12-1610 | **481888** | 37 | 3.709 | 3.646 | 4.044 | A1F | 0 | 1.00 | 0 | 1/2 | 1 11/16 | 1.6 | 0.0257 |
| 8MX-38S-12-1610 | **481889** | 38 | 3.810 | 3.747 | 4.210 | A1F | 0 | 1.00 | 0 | 1/2 | 1 11/16 | 1.7 | 0.0290 |
| 8MX-39S-12-1610 | **481890** | 39 | 3.910 | 3.847 | 4.410 | A1F | 0 | 1.00 | 0 | 1/2 | 1 11/16 | 1.9 | 0.0326 |
| 8MX-40S-12-2012 | **481891** | 40 | 4.010 | 3.947 | 4.410 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 1.9 | 0.0413 |
| 8MX-41S-12-2012 | **481892** | 41 | 4.110 | 4.047 | 4.520 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 2.1 | 0.0462 |
| 8MX-42S-12-2012 | **481893** | 42 | 4.211 | 4.148 | 4.911 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 2.2 | 0.0515 |
| 8MX-45S-12-2012 | **481894** | 45 | 4.511 | 4.448 | 4.911 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 2.5 | 0.0702 |
| 8MX-48S-12-2012 | **481895** | 48 | 4.812 | 4.749 | 5.212 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 2.7 | 0.0936 |
| 8MX-50S-12-2012 | **481896** | 50 | 5.013 | 4.950 | 5.413 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 3.1 | 0.1120 |
| 8MX-53S-12-2012 | **481897** | 53 | 5.314 | 5.251 | 5.500 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 3.8 | 0.1447 |
| 8MX-56S-12-2012 | **481898** | 56 | 5.614 | 5.551 | 6.014 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 5.4 | 0.1839 |
| 8MX-60S-12-2012 | **481899** | 60 | 6.015 | 5.952 | 6.415 | B1F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 5.5 | 0.2480 |
| 8MX-63S-12-2012 | **481900** | 63 | 6.316 | 6.253 | 6.716 | B2F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 5.5 | 0.1409 |
| 8MX-67S-12-2012 | **481901** | 67 | 6.717 | 6.654 | 6.875 | B2F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 6.0 | 0.1798 |
| 8MX-71S-12-2012 | **481902** | 71 | 7.118 | 7.055 | 7.500 | B2F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 6.5 | 0.2263 |
| 8MX-75S-12-2012 | **481903** | 75 | 7.519 | 7.456 | 7.919 | B2F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 7.0 | 0.2814 |
| 8MX-80S-12-2012 | **481904** | 80 | 8.020 | 7.957 | 8.420 | B2F | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 9.6 | 0.3640 |
| 8MX-90S-12-2012 | **481905** | 90 | 9.023 | 8.960 | – | B2 | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 9.4 | 0.5823 |
| 8MX-112S-12-2012 | **481906** | 112 | 11.229 | 11.166 | – | B2 | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 16.6 | 1.3980 |
| 8MX-140S-12-2012 | **481907** | 140 | 14.036 | 13.973 | – | B3 | 0 | 1.25 | 0.40 | 1/2 | 2 1/8 | 17.3 | 1.1757 |
| 8MX-180S-12-2517 | **481908** | 180 | 18.046 | 17.983 | – | B3 | 0 | 1.75 | 0.90 | 1/2 | 2 11/16 | 30.0 | 2.8678 |
| 8MX-224S-12-2517 | **481909** | 224 | 22.457 | 22.394 | – | B3 | 0 | 1.75 | 0.90 | 1/2 | 2 11/16 | 41.2 | 6.2533 |

# Specification

## HT500 Taper-Lock Sprockets (Continued)

**8M HT500 Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Type | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | L | M | Min. | Max | | |
| **8MX-21** | | | | | | **F = 1.20”** | | | | | | | |
| 8MX-22S-21-1008 | **481915** | 22 | 2.206 | 2.143 | 2.606 | A1F | 0 | 0.88 | 0.32 | 1/2 | 1 | 0.4 | 0.0025 |
| 8MX-25S-21-1108 | **481916** | 25 | 2.506 | 2.443 | 2.906 | A1F | 0 | 0.88 | 0.32 | 1/2 | 1 1/8 | 0.6 | 0.0046 |
| 8MX-26S-21-1108 | **481917** | 26 | 2.607 | 2.544 | 2.906 | A1F | 0 | 0.88 | 0.32 | 1/2 | 1 1/8 | 0.6 | 0.0055 |
| 8MX-27S-21-1108 | **481918** | 27 | 2.707 | 2.644 | 3.207 | A1F | 0 | 0.88 | 0.32 | 1/2 | 1 1/8 | 0.7 | 0.0065 |
| 8MX-28S-21-1108 | **481919** | 28 | 2.807 | 2.744 | 3.207 | A1F | 0 | 0.88 | 0.32 | 1/2 | 1 1/8 | 0.9 | 0.0076 |
| 8MX-29S-21-1108 | **481920** | 29 | 2.907 | 2.844 | 3.090 | A1F | 0 | 0.88 | 0.32 | 1/2 | 1 1/8 | 1.0 | 0.0089 |
| 8MX-30S-21-1108 | **481921** | 30 | 3.008 | 2.945 | 3.408 | A1F | 0 | 0.88 | 0.32 | 1/2 | 1 1/8 | 1.1 | 0.0104 |
| 8MX-31S-21-1210 | **481922** | 31 | 3.108 | 3.045 | 3.328 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 1/4 | 1.3 | 0.0120 |
| 8MX-32S-21-1210 | **481923** | 32 | 3.208 | 3.145 | 3.608 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 1/4 | 1.4 | 0.0137 |
| 8MX-33S-21-1610 | **481924** | 33 | 3.308 | 3.245 | 3.566 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 11/16 | 1.5 | 0.0173 |
| 8MX-34S-21-1610 | **481925** | 34 | 3.409 | 3.346 | 3.810 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 11/16 | 1.6 | 0.0198 |
| 8MX-35S-21-1610 | **481926** | 35 | 3.509 | 3.446 | 3.805 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 11/16 | 1.6 | 0.0226 |
| 8MX-36S-21-1610 | **481927** | 36 | 3.609 | 3.546 | 4.009 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 11/16 | 1.8 | 0.0256 |
| 8MX-37S-21-1610 | **481928** | 37 | 3.709 | 3.646 | 4.044 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 11/16 | 1.8 | 0.0289 |
| 8MX-38S-21-1610 | **481929** | 38 | 3.810 | 3.747 | 4.210 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 11/16 | 1.9 | 0.0325 |
| 8MX-39S-21-1610 | **481930** | 39 | 3.910 | 3.847 | 4.410 | A1F | 0 | 1.00 | 0.20 | 1/2 | 1 11/16 | 1.9 | 0.0364 |
| 8MX-40S-21-2012 | **481931** | 40 | 4.010 | 3.947 | 4.410 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 2.3 | 0.0450 |
| 8MX-41S-21-2012 | **481932** | 41 | 4.110 | 4.047 | 4.520 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 2.3 | 0.0502 |
| 8MX-42S-21-2012 | **481933** | 42 | 4.211 | 4.148 | 4.911 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 2.5 | 0.0559 |
| 8MX-45S-21-2012 | **481934** | 45 | 4.511 | 4.448 | 4.911 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 2.9 | 0.0758 |
| 8MX-48S-21-2012 | **481935** | 48 | 4.812 | 4.749 | 5.212 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 3.4 | 0.1006 |
| 8MX-50S-21-2012 | **481936** | 50 | 5.013 | 4.950 | 5.413 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 4.0 | 0.1201 |
| 8MX-53S-21-2012 | **481937** | 53 | 5.314 | 5.251 | 5.500 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 4.5 | 0.1545 |
| 8MX-56S-21-2012 | **481938** | 56 | 5.614 | 5.551 | 6.014 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 4.9 | 0.1958 |
| 8MX-60S-21-2012 | **481939** | 60 | 6.015 | 5.952 | 6.415 | A1F | 0 | 1.25 | 0 | 1/2 | 2 1/8 | 6.4 | 0.2631 |
| 8MX-63S-21-2012 | **481940** | 63 | 6.316 | 6.253 | 6.716 | B2F | 0 | 1.25 | 0.05 | 1/2 | 2 1/8 | 7.7 | 0.1706 |
| 8MX-67S-21-2517 | **481941** | 67 | 6.717 | 6.654 | 6.875 | B2F | 0 | 1.75 | 0.55 | 1/2 | 2 11/16 | 8.3 | 0.2195 |
| 8MX-71S-21-2517 | **481942** | 71 | 7.118 | 7.055 | 7.500 | B2F | 0 | 1.75 | 0.55 | 1/2 | 2 11/16 | 8.7 | 0.2735 |
| 8MX-75S-21-2517 | **481943** | 75 | 7.519 | 7.456 | 7.919 | B2F | 0 | 1.75 | 0.55 | 1/2 | 2 11/16 | 9.2 | 0.3372 |
| 8MX-80S-21-2517 | **481944** | 80 | 8.020 | 7.957 | 8.420 | B2F | 0 | 1.75 | 0.55 | 1/2 | 2 11/16 | 9.8 | 0.4319 |
| 8MX-90S-21-2517 | **481945** | 90 | 9.023 | 8.960 | – | B2 | 0 | 1.75 | 0.55 | 1/2 | 2 11/16 | 12.8 | 0.6794 |
| 8MX-112S-21-2517 | **481946** | 112 | 11.229 | 11.166 | – | B2 | 0 | 1.75 | 0.55 | 1/2 | 2 11/16 | 19.4 | 1.5916 |
| 8MX-140S-21-2517 | **481947** | 140 | 14.036 | 13.973 | – | B3 | 0 | 1.75 | 0.55 | 1/2 | 2 11/16 | 26.8 | 1.8107 |
| 8MX-180S-21-3020 | **481948** | 180 | 18.046 | 17.983 | – | B3 | 0 | 2.00 | 0.80 | 7/8 | 3 1/4 | 36.6 | 4.4030 |
| 8MX-224S-21-3020 | **481949** | 224 | 22.457 | 22.394 | – | B3 | 0 | 2.00 | 0.80 | 7/8 | 3 1/4 | 50.1 | 9.5391 |
| **8MX-36** | | | | | | **F = 1.86”** | | | | | | | |
| 8MX-32S-36-1210 | **481958** | 32 | 3.208 | 3.145 | 3.608 | A1F | 0 | 1.00 | 0.86 | 1/2 | 1 1/4 | 1.7 | 0.0188 |
| 8MX-33S-36-1610 | **481959** | 33 | 3.308 | 3.245 | 3.566 | A1F | 0 | 1.00 | 0.86 | 1/2 | 1 11/16 | 1.7 | 0.0223 |
| 8MX-34S-36-1610 | **481960** | 34 | 3.409 | 3.346 | 3.810 | A1F | 0 | 1.00 | 0.86 | 1/2 | 1 11/16 | 1.8 | 0.0254 |
| 8MX-35S-36-1610 | **481961** | 35 | 3.509 | 3.446 | 3.805 | A1F | 0 | 1.00 | 0.86 | 1/2 | 1 11/16 | 1.8 | 0.0288 |
| 8MX-36S-36-1610 | **481962** | 36 | 3.609 | 3.546 | 4.009 | A1F | 0 | 1.00 | 0.86 | 1/2 | 1 11/16 | 2.1 | 0.0324 |
| 8MX-37S-36-1610 | **481963** | 37 | 3.709 | 3.646 | 4.044 | A1F | 0 | 1.00 | 0.86 | 1/2 | 1 11/16 | 2.1 | 0.0364 |
| 8MX-38S-36-1610 | **481964** | 38 | 3.810 | 3.747 | 4.210 | A1F | 0 | 1.00 | 0.86 | 1/2 | 1 11/16 | 2.4 | 0.0408 |
| 8MX-39S-36-1610 | **481965** | 39 | 3.910 | 3.847 | 4.410 | A1F | 0 | 1.00 | 0.86 | 1/2 | 1 11/16 | 2.4 | 0.0455 |
| 8MX-40S-36-2012 | **481966** | 40 | 4.010 | 3.947 | 4.410 | A1F | 0 | 1.25 | 0.61 | 1/2 | 2 1/8 | 2.5 | 0.0547 |
| 8MX-41S-36-2012 | **481967** | 41 | 4.110 | 4.047 | 4.520 | A1F | 0 | 1.25 | 0.61 | 1/2 | 2 1/8 | 2.8 | 0.0608 |
| 8MX-42S-36-2012 | **481968** | 42 | 4.211 | 4.148 | 4.911 | A1F | 0 | 1.25 | 0.61 | 1/2 | 2 1/8 | 3.3 | 0.0675 |
| 8MX-45S-36-2012 | **481969** | 45 | 4.511 | 4.448 | 4.911 | A1F | 0 | 1.25 | 0.61 | 1/2 | 2 1/8 | 3.4 | 0.0905 |
| 8MX-48S-36-2012 | **481970** | 48 | 4.812 | 4.749 | 5.212 | A1F | 0 | 1.25 | 0.61 | 1/2 | 2 1/8 | 5.1 | 0.1190 |

# Specification

## HT500 Taper-Lock Sprockets (Continued)

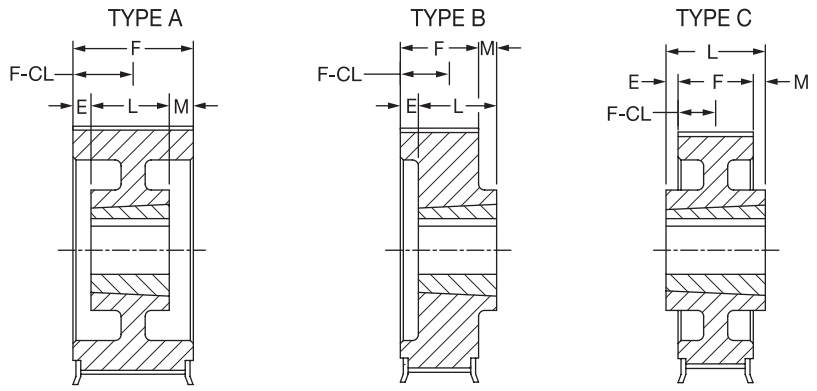


**8M HT500 Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Type | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | L | M | Min. | Max | | |
| **8MX-36** | | | | | | **F = 1.86”** | | | | | | | |
| 8MX-50S-36-2012 | **481971** | 50 | 5.013 | 4.950 | 5.413 | A1F | 0 | 1.25 | 0.61 | 1/2 | 2 1/8 | 5.1 | 0.1413 |
| 8MX-53S-36-2012 | **481972** | 53 | 5.314 | 5.251 | 5.500 | A1F | 0 | 1.25 | 0.61 | 1/2 | 2 1/8 | 6.0 | 0.1804 |
| 8MX-56S-36-2012 | **481973** | 56 | 5.614 | 5.551 | 6.014 | A1F | 0 | 1.25 | 0.61 | 1/2 | 2 1/8 | 6.6 | 0.2271 |
| 8MX-60S-36-2517 | **481974** | 60 | 6.015 | 5.952 | 6.415 | A1F | 0 | 1.75 | 0.11 | 1/2 | 2 11/16 | 8.0 | 0.3018 |
| 8MX-63S-36-2517 | **481975** | 63 | 6.316 | 6.253 | 6.716 | A1F | 0 | 1.75 | 0.11 | 1/2 | 2 11/16 | 9.3 | 0.3698 |
| 8MX-67S-36-2517 | **481976** | 67 | 6.717 | 6.654 | 6.875 | A2F | 0 | 1.75 | 0.11 | 1/2 | 2 11/16 | 10.0 | 0.2896 |
| 8MX-71S-36-2517 | **481977** | 71 | 7.118 | 7.055 | 7.500 | A2F | 0 | 1.75 | 0.11 | 1/2 | 2 11/16 | 12.0 | 0.3579 |
| 8MX-75S-36-2517 | **481978** | 75 | 7.519 | 7.456 | 7.919 | A2F | 0 | 1.75 | 0.11 | 1/2 | 2 11/16 | 13.3 | 0.4378 |
| 8MX-80S-36-3020 | **481979** | 80 | 8.020 | 7.957 | 8.420 | B2F | 0 | 2.00 | 0.14 | 7/8 | 3 1/4 | 15.3 | 0.5851 |
| 8MX-90S-36-3020 | **481980** | 90 | 9.023 | 8.960 | – | B2 | 0 | 2.00 | 0.14 | 7/8 | 3 1/4 | 20.9 | 0.8894 |
| 8MX-112S-36-3020 | **481981** | 112 | 11.229 | 11.166 | – | B2 | 0 | 2.00 | 0.14 | 7/8 | 3 1/4 | 29.7 | 1.9883 |
| 8MX-140S-36-3020 | **481982** | 140 | 14.036 | 13.973 | – | B3 | 0 | 2.00 | 0.14 | 7/8 | 3 1/4 | 39.3 | 2.8686 |
| 8MX-180S-36-3020 | **481983** | 180 | 18.046 | 17.983 | – | B3 | 0 | 2.00 | 0.14 | 7/8 | 3 1/4 | 48.9 | 6.9025 |
| 8MX-224S-36-3525 | **481984** | 224 | 22.457 | 22.394 | – | B3 | 0 | 2.25 | 0.64 | 1 3/16 | 3 15/16 | 92.2 | 14.9010 |
| **8MX-62** | | | | | | **F = 2.91”** | | | | | | | |
| 8MX-34S-62-1610 | **481996** | 34 | 3.409 | 3.346 | 3.810 | A1F | 0 | 1.00 | 1.91 | 1/2 | 1 11/16 | 5.0 | 0.0380 |
| 8MX-36S-62-1610 | **481997** | 36 | 3.609 | 3.546 | 4.009 | A1F | 0 | 1.00 | 1.91 | 1/2 | 1 11/16 | 5.3 | 0.0484 |
| 8MX-38S-62-1610 | **481998** | 38 | 3.812 | 3.747 | 4.210 | A1F | 0 | 1.00 | 1.91 | 1/2 | 1 11/16 | 5.6 | 0.0607 |
| 8MX-40S-62-2012 | **481999** | 40 | 4.010 | 3.947 | 4.410 | A1F | 0 | 1.25 | 1.66 | 1/2 | 2 1/8 | 5.9 | 0.0749 |
| 8MX-42S-62-2012 | **482000** | 42 | 4.211 | 4.148 | 4.911 | A1F | 0 | 1.25 | 1.66 | 1/2 | 2 1/8 | 6.1 | 0.0919 |
| 8MX-45S-62-2012 | **482001** | 45 | 4.511 | 4.448 | 4.911 | A1F | 0 | 1.25 | 1.66 | 1/2 | 2 1/8 | 6.5 | 0.1226 |
| 8MX-48S-62-2517 | **482002** | 48 | 4.812 | 4.749 | 5.212 | A1F | 0 | 1.75 | 1.16 | 1/2 | 2 11/16 | 6.6 | 0.1594 |
| 8MX-50S-62-2517 | **482003** | 50 | 5.013 | 4.950 | 5.413 | A1F | 0 | 1.75 | 1.16 | 1/2 | 2 11/16 | 6.7 | 0.1891 |
| 8MX-53S-62-2517 | **482004** | 53 | 5.314 | 5.251 | 5.500 | A1F | 0 | 1.75 | 1.16 | 1/2 | 2 11/16 | 6.9 | 0.2412 |
| 8MX-56S-62-2517 | **482005** | 56 | 5.614 | 5.551 | 6.014 | A1F | 0 | 1.75 | 1.16 | 1/2 | 2 11/16 | 7.2 | 0.3034 |
| 8MX-60S-62-3020 | **482006** | 60 | 6.015 | 5.952 | 6.415 | A1F | 0 | 2.00 | 0.91 | 7/8 | 3 1/4 | 8.9 | 0.4298 |
| 8MX-63S-62-3020 | **482007** | 63 | 6.316 | 6.253 | 6.716 | A1F | 0 | 2.00 | 0.91 | 7/8 | 3 1/4 | 10.3 | 0.5261 |
| 8MX-67S-62-3020 | **482008** | 67 | 6.717 | 6.654 | 6.875 | A1F | 0 | 2.00 | 0.91 | 7/8 | 3 1/4 | 11.0 | 0.6781 |
| 8MX-71S-62-3020 | **482009** | 71 | 7.118 | 7.055 | 7.500 | A1F | 0 | 2.00 | 0.91 | 7/8 | 3 1/4 | 13.5 | 0.8605 |
| 8MX-75S-62-3020 | **482010** | 75 | 7.519 | 7.456 | 7.919 | A1F | 0 | 2.00 | 0.91 | 7/8 | 3 1/4 | 15.4 | 1.0770 |
| 8MX-80S-62-3020 | **482011** | 80 | 8.020 | 7.957 | 8.420 | A1F | 0 | 2.00 | 0.91 | 7/8 | 3 1/4 | 23.0 | 1.4016 |
| 8MX-90S-62-3020 | **482012** | 90 | 9.023 | 8.960 | – | A2 | 0 | 2.00 | 0.91 | 7/8 | 3 1/4 | 32.7 | 1.2239 |
| 8MX-112S-62-3020 | **482013** | 112 | 11.229 | 11.166 | – | A2 | 0 | 2.00 | 0.91 | 7/8 | 3 1/4 | 38.9 | 2.6610 |
| 8MX-140S-62-3525 | **482014** | 140 | 14.036 | 13.973 | – | A2 | 0 | 2.25 | 0.66 | 1 3/16 | 3 15/16 | 54.5 | 6.0574 |
| 8MX-180S-62-3525 | **482015** | 180 | 18.046 | 17.983 | – | A3 | 0 | 2.25 | 0.66 | 1 3/16 | 3 15/16 | 68.2 | 10.995 |
| 8MX-224S-62-3525 | **482016** | 224 | 22.457 | 22.394 | – | A3 | 0 | 2.25 | 0.66 | 1 3/16 | 3 15/16 | 92.3 | 23.619 |

# Specification

## HT500 Taper-Lock Sprockets




1 = Block 2 = Web 3 = Arms

**14M HT500 Sprockets**

The letter "F" in column "Type" indicates that Sprocket has flanges

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Type | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | L | M | Min. | Max | | |
| **14MX-20** | | | | | | **F = 1.36"** | | | | | | | |
| 14MX-28S-20-2012 | **482017** | 28 | 4.912 | 4.802 | 5.402 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/8 | 3.9 | 0.0922 |
| 14MX-29S-20-2012 | **482018** | 29 | 5.088 | 4.978 | 5.763 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/8 | 4.5 | 0.1082 |
| 14MX-30S-20-2012 | **482019** | 30 | 5.263 | 5.153 | 5.763 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/8 | 4.8 | 0.1261 |
| 14MX-31S-20-2012 | **482020** | 31 | 5.439 | 5.329 | 6.114 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/8 | 5.5 | 0.1462 |
| 14MX-32S-20-2012 | **482021** | 32 | 5.614 | 5.504 | 6.114 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/8 | 5.9 | 0.1686 |
| 14MX-33S-20-2012 | **482022** | 33 | 5.790 | 5.680 | 6.465 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/8 | 6.3 | 0.1934 |
| 14MX-34S-20-2012 | **482023** | 34 | 5.965 | 5.855 | 6.465 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/8 | 6.9 | 0.2209 |
| 14MX-35S-20-2012 | **482024** | 35 | 6.141 | 6.031 | 6.816 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/8 | 7.3 | 0.2512 |
| 14MX-36S-20-2517 | **482025** | 36 | 6.316 | 6.206 | 6.816 | B1F | 0 | 1.75 | 0.39 | 1/2 | 2 11/16 | 7.6 | 0.2836 |
| 14MX-37S-20-2517 | **482026** | 37 | 6.492 | 6.382 | 7.167 | B1F | 0 | 1.75 | 0.39 | 1/2 | 2 11/16 | 8.2 | 0.3200 |
| 14MX-38S-20-2517 | **482027** | 38 | 6.667 | 6.557 | 7.167 | B1F | 0 | 1.75 | 0.39 | 1/2 | 2 11/16 | 8.8 | 0.3599 |
| 14MX-39S-20-2517 | **482028** | 39 | 6.842 | 6.732 | 7.518 | B1F | 0 | 1.75 | 0.39 | 1/2 | 2 11/16 | 9.8 | 0.4033 |
| 14MX-40S-20-2517 | **482029** | 40 | 7.018 | 6.908 | 7.518 | B1F | 0 | 1.75 | 0.39 | 1/2 | 2 11/16 | 10.1 | 0.4505 |
| 14MX-43S-20-2517 | **482030** | 43 | 7.544 | 7.434 | 8.044 | B1F | 0 | 1.75 | 0.39 | 1/2 | 2 11/16 | 11.7 | 0.6172 |
| 14MX-45S-20-3020 | **482031** | 45 | 7.895 | 7.785 | 8.395 | B1F | 0 | 2.00 | 0.64 | 7/8 | 3 1/4 | 13.5 | 0.9146 |
| 14MX-48S-20-3020 | **482032** | 48 | 8.421 | 8.311 | 8.941 | B1F | 0 | 2.00 | 0.64 | 7/8 | 3 1/4 | 16.4 | 1.2146 |
| 14MX-50S-20-3020 | **482033** | 50 | 8.772 | 8.662 | 9.292 | B1F | 0 | 2.00 | 0.64 | 7/8 | 3 1/4 | 18.2 | 1.4519 |
| 14MX-53S-20-3020 | **482034** | 53 | 9.299 | 9.189 | 9.688 | B1F | 0 | 2.00 | 0.64 | 7/8 | 3 1/4 | 20.5 | 1.8705 |
| 14MX-56S-20-3525 | **482035** | 56 | 9.825 | 9.715 | 10.355 | B1F | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 23.1 | 2.3648 |
| 14MX-60S-20-3525 | **482036** | 60 | 10.527 | 10.417 | 11.067 | B1F | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 27.4 | 3.1852 |
| 14MX-63S-20-3525 | **482037** | 63 | 11.053 | 10.943 | 11.593 | B1F | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 30.2 | 3.9274 |
| 14MX-67S-20-3525 | **482038** | 67 | 11.755 | 11.645 | 12.500 | B1F | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 31.2 | 5.1094 |
| 14MX-71S-20-3525 | **482039** | 71 | 12.457 | 12.347 | 13.066 | B2F | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 32.5 | 2.6422 |
| 14MX-75S-20-3525 | **482040** | 75 | 13.158 | 13.048 | 13.731 | B2F | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 36.1 | 3.2558 |
| 14MX-80S-20-3525 | **482041** | 80 | 14.036 | 13.926 | 14.620 | B2F | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 38.7 | 4.1694 |
| 14MX-90S-20-3525 | **482042** | 90 | 15.790 | 15.680 | – | B2 | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 41.3 | 6.5536 |
| 14MX-112S-20-3525 | **482043** | 112 | 19.650 | 19.540 | – | B3 | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 59.6 | 8.7315 |
| 14MX-126S-20-3525 | **482044** | 126 | 22.106 | 21.996 | – | B3 | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 58.1 | 13.253 |
| 14MX-140S-20-3525 | **482045** | 140 | 24.562 | 24.452 | – | B3 | 0 | 2.50 | 1.00 | 1 3/16 | 3 15/16 | 94.8 | 19.265 |
| 14MX-154S-20-3525 | **482046** | 154 | 27.019 | 26.909 | – | B3 | 0 | 2.50 | 1.14 | 1 3/16 | 3 15/16 | 73.4 | 27.038 |
| 14MX-168S-20-3525 | **482047** | 168 | 29.475 | 29.365 | – | B3 | 0 | 2.50 | 1.00 | 1 3/16 | 3 15/16 | 99.5 | 36.864 |
| 14MX-180S-20-3525 | **482048** | 180 | 31.580 | 31.470 | – | B3 | 0 | 2.50 | 1.00 | 1 3/16 | 3 15/16 | 107.3 | 47.142 |
| 14MX-200S-20-3525 | **482049** | 200 | 35.089 | 34.979 | – | B3 | 0 | 2.50 | 1.00 | 1 3/16 | 3 15/16 | 119.0 | 68.655 |
| 14MX-224S-20-4030 | **482050** | 224 | 39.300 | 39.190 | – | B3 | 0 | 3.00 | 1.50 | 1 7/16 | 4 7/16 | 150.2 | 102.931 |
| **14MX-37** | | | | | | **F = 2.06"** | | | | | | | |
| 14MX-28S-37-2012 | **482052** | 28 | 4.912 | 4.802 | 5.402 | A1F | 0 | 1.25 | 0.81 | 1/2 | 2 1/8 | 4.2 | 0.1180 |
| 14MX-29S-37-2517 | **482053** | 29 | 5.088 | 4.978 | 5.763 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 4.7 | 0.1367 |
| 14MX-30S-37-2517 | **482054** | 30 | 5.263 | 5.153 | 5.763 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 5.0 | 0.1587 |
| 14MX-31S-37-2517 | **482055** | 31 | 5.439 | 5.329 | 6.114 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 6.0 | 0.1831 |
| 14MX-32S-37-2517 | **482056** | 32 | 5.614 | 5.504 | 6.114 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 7.2 | 0.2102 |
| 14MX-33S-37-2517 | **482057** | 33 | 5.790 | 5.680 | 6.465 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 7.5 | 0.2401 |

# Specification

## HT500 Taper-Lock Sprockets (Continued)



**14M HT500 Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Type | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | L | M | Min. | Max | | |
| **14MX-37** | | | | | | **F = 2.06”** | | | | | | | |
| 14MX-34S-37-2517 | **482058** | 34 | 5.965 | 5.855 | 6.465 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 7.8 | 0.2730 |
| 14MX-35S-37-2517 | **482059** | 35 | 6.141 | 6.031 | 6.816 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 8.3 | 0.3091 |
| 14MX-36S-37-2517 | **482060** | 36 | 6.316 | 6.206 | 6.816 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 8.8 | 0.3487 |
| 14MX-37S-37-2517 | **482061** | 37 | 6.492 | 6.382 | 7.167 | A1F | 0 | 1.75 | 0.31 | 1/2 | 2 11/16 | 9.3 | 0.3919 |
| 14MX-38S-37-3020 | **482062** | 38 | 6.667 | 6.557 | 7.167 | A1F | 0 | 2.00 | 0.06 | 7/8 | 3 1/4 | 10.8 | 0.5016 |
| 14MX-39S-37-3020 | **482063** | 39 | 6.842 | 6.732 | 7.518 | A1F | 0 | 2.00 | 0.06 | 7/8 | 3 1/4 | 11.9 | 0.5620 |
| 14MX-40S-37-3020 | **482064** | 40 | 7.018 | 6.908 | 7.518 | A1F | 0 | 2.00 | 0.06 | 7/8 | 3 1/4 | 12.2 | 0.6277 |
| 14MX-43S-37-3020 | **482065** | 43 | 7.544 | 7.434 | 8.044 | A1F | 0 | 2.00 | 0.06 | 7/8 | 3 1/4 | 12.5 | 0.8589 |
| 14MX-45S-37-3020 | **482066** | 45 | 7.895 | 7.785 | 8.395 | A1F | 0 | 2.00 | 0.06 | 7/8 | 3 1/4 | 15.8 | 1.0447 |
| 14MX-48S-37-3020 | **482067** | 48 | 8.421 | 8.311 | 8.941 | A1F | 0 | 2.00 | 0.06 | 7/8 | 3 1/4 | 18.7 | 1.3774 |
| 14MX-50S-37-3020 | **482068** | 50 | 8.772 | 8.662 | 9.292 | A1F | 0 | 2.00 | 0.06 | 7/8 | 3 1/4 | 21.1 | 1.6394 |
| 14MX-53S-37-3020 | **482069** | 53 | 9.299 | 9.189 | 9.688 | A1F | 0 | 2.00 | 0.06 | 7/8 | 3 1/4 | 24.7 | 2.0997 |
| 14MX-56S-37-3525 | **482070** | 56 | 9.825 | 9.715 | 10.355 | B1F | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 28.2 | 2.6416 |
| 14MX-60S-37-3525 | **482071** | 60 | 10.527 | 10.417 | 11.067 | B1F | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 32.2 | 3.5355 |
| 14MX-63S-37-3525 | **482072** | 63 | 11.053 | 10.943 | 11.593 | B1F | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 42.8 | 4.3411 |
| 14MX-67S-37-3525 | **482073** | 67 | 11.755 | 11.645 | 12.500 | B1F | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 43.5 | 5.6192 |
| 14MX-71S-37-3525 | **482074** | 71 | 12.457 | 12.347 | 13.066 | B2F | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 44.1 | 3.5191 |
| 14MX-75S-37-3525 | **482075** | 75 | 13.158 | 13.048 | 13.731 | B2F | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 45.5 | 4.3017 |
| 14MX-80S-37-3525 | **482076** | 80 | 14.036 | 13.926 | 14.620 | B2F | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 48.7 | 5.4564 |
| 14MX-90S-37-3525 | **482077** | 90 | 15.790 | 15.680 | – | B2 | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 53.3 | 8.4295 |
| 14MX-112S-37-3525 | **482078** | 112 | 19.650 | 19.540 | – | B3 | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 87.0 | 14.200 |
| 14MX-126S-37-3525 | **482079** | 126 | 22.106 | 21.996 | – | B3 | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 76.3 | 21.539 |
| 14MX-140S-37-3525 | **482080** | 140 | 24.562 | 24.452 | – | B3 | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 100.2 | 31.267 |
| 14MX-154S-37-3525 | **482081** | 154 | 27.019 | 26.909 | – | B3 | 0 | 2.50 | 0.44 | 1 3/16 | 3 15/16 | 100.2 | 43.807 |
| 14MX-168S-37-4030 | **482082** | 168 | 29.475 | 29.365 | – | B3 | 0 | 3.00 | 0.94 | 1 7/16 | 4 7/16 | 179.0 | 59.582 |
| 14MX-180S-37-4030 | **482083** | 180 | 31.580 | 31.470 | – | B3 | 0 | 3.00 | 0.94 | 1 7/16 | 4 7/16 | 182.3 | 76.076 |
| 14MX-200S-37-4030 | **482084** | 200 | 35.089 | 34.979 | – | B3 | 0 | 3.00 | 0.94 | 1 7/16 | 4 7/16 | 185.4 | 100.527 |
| 14MX-224S-37-4030 | **482085** | 224 | 39.300 | 39.190 | – | B3 | 0 | 3.00 | 0.94 | 1 7/16 | 4 7/16 | 229.1 | 165.266 |
| **14MX-68** | | | | | | **F = 3.33”** | | | | | | | |
| 14MX-28S-68-2517 | **482096** | 28 | 4.912 | 4.802 | 5.402 | A1F | 0 | 1.75 | 1.58 | 1/2 | 2 11/16 | 13.5 | 0.1804 |
| 14MX-29S-68-2517 | **482097** | 29 | 5.088 | 4.978 | 5.763 | A1F | 0 | 1.75 | 1.58 | 1/2 | 2 11/16 | 13.8 | 0.2101 |
| 14MX-30S-68-2517 | **482098** | 30 | 5.263 | 5.153 | 5.763 | A1F | 0 | 1.75 | 1.58 | 1/2 | 2 11/16 | 14.0 | 0.2433 |
| 14MX-31S-68-2517 | **482099** | 31 | 5.439 | 5.329 | 6.114 | A1F | 0 | 1.75 | 1.58 | 1/2 | 2 11/16 | 14.3 | 0.2802 |
| 14MX-32S-68-2517 | **482100** | 32 | 5.614 | 5.504 | 6.114 | A1F | 0 | 1.75 | 1.58 | 1/2 | 2 11/16 | 14.6 | 0.3211 |
| 14MX-33S-68-2517 | **482101** | 33 | 5.790 | 5.680 | 6.465 | A1F | 0 | 1.75 | 1.58 | 1/2 | 2 11/16 | 14.9 | 0.3663 |
| 14MX-34S-68-2517 | **482102** | 34 | 5.965 | 5.855 | 6.465 | A1F | 0 | 1.75 | 1.58 | 1/2 | 2 11/16 | 15.2 | 0.4160 |
| 14MX-35S-68-3020 | **482103** | 35 | 6.141 | 6.031 | 6.816 | A1F | 0 | 2.00 | 1.33 | 7/8 | 3 1/4 | 15.5 | 0.4692 |
| 14MX-36S-68-3020 | **482104** | 36 | 6.316 | 6.206 | 6.816 | A1F | 0 | 2.00 | 1.33 | 7/8 | 3 1/4 | 15.8 | 0.5285 |
| 14MX-37S-68-3020 | **482105** | 37 | 6.492 | 6.382 | 7.167 | A1F | 0 | 2.00 | 1.33 | 7/8 | 3 1/4 | 16.1 | 0.5932 |
| 14MX-38S-68-3020 | **482106** | 38 | 6.667 | 6.557 | 7.167 | A1F | 0 | 2.00 | 1.33 | 7/8 | 3 1/4 | 16.4 | 0.6635 |
| 14MX-39S-68-3020 | **482107** | 39 | 6.842 | 6.732 | 7.518 | A1F | 0 | 2.00 | 1.33 | 7/8 | 3 1/4 | 16.7 | 0.7400 |
| 14MX-40S-68-3020 | **482108** | 40 | 7.018 | 6.908 | 7.518 | A1F | 0 | 2.00 | 1.33 | 7/8 | 3 1/4 | 17.0 | 0.8239 |
| 14MX-43S-68-3020 | **482109** | 43 | 7.544 | 7.434 | 8.044 | A1F | 0 | 2.00 | 1.33 | 7/8 | 3 1/4 | 17.2 | 1.1187 |
| 14MX-45S-68-3020 | **482110** | 45 | 7.895 | 7.785 | 8.395 | A1F | 0 | 2.00 | 1.33 | 7/8 | 3 1/4 | 20.4 | 1.3552 |
| 14MX-48S-68-3525 | **482111** | 48 | 8.421 | 8.311 | 8.941 | A1F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 24.6 | 1.7697 |
| 14MX-50S-68-3525 | **482112** | 50 | 8.772 | 8.662 | 9.292 | A1F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 29.4 | 2.1032 |
| 14MX-53S-68-3525 | **482113** | 53 | 9.299 | 9.189 | 9.688 | A1F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 35.7 | 2.6902 |
| 14MX-56S-68-3525 | **482114** | 56 | 9.825 | 9.715 | 10.355 | A1F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 39.9 | 3.3944 |
| 14MX-60S-68-3525 | **482115** | 60 | 10.527 | 10.417 | 11.067 | A1F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 50.6 | 4.5427 |
| 14MX-63S-68-3525 | **482116** | 63 | 11.053 | 10.943 | 11.593 | A1F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 58.0 | 5.5830 |
| 14MX-67S-68-3525 | **482117** | 67 | 11.755 | 11.645 | 12.500 | A2F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 60.0 | 4.4150 |
| 14MX-71S-68-3525 | **482118** | 71 | 12.457 | 12.347 | 13.066 | A2F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 63.3 | 5.4244 |
| 14MX-75S-68-3525 | **482119** | 75 | 13.158 | 13.048 | 13.731 | A2F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 68.6 | 6.5958 |

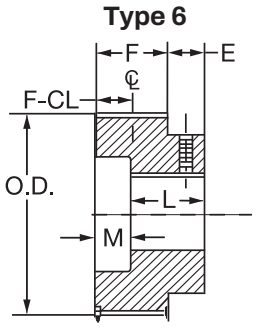
# Specification

## HT500 Taper-Lock Sprockets (Continued)

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Type | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | L | M | Min. | Max | | |
| **14MX-68** | | | | | | **F = 3.33”** | | | | | | | |
| 14MX-80S-68-3525 | **482120** | 80 | 14.036 | 13.926 | 14.620 | A2F | 0 | 2.50 | 0.83 | 1 3/16 | 3 15/16 | 76.3 | 8.3123 |
| 14MX-90S-68-4030 | **482121** | 90 | 15.790 | 15.680 | – | A2 | 0 | 3.00 | 0.33 | 1 7/16 | 4 7/16 | 82.6 | 12.782 |
| 14MX-112S-68-4030 | **482122** | 112 | 19.650 | 19.540 | – | A3 | 0 | 3.00 | 0.33 | 1 7/16 | 4 7/16 | 100.4 | 23.778 |
| 14MX-140S-68-4030 | **482123** | 140 | 24.562 | 24.452 | – | A3 | 0 | 3.00 | 0.33 | 1 7/16 | 4 7/16 | 190.0 | 52.002 |
| 14MX-168S-68-4535 | **482124** | 168 | 29.475 | 29.365 | – | B3 | 0 | 3.50 | 0.17 | 1 15/16 | 4 15/16 | 239.1 | 98.636 |
| 14MX-180S-68-4535 | **482125** | 180 | 31.580 | 31.470 | – | B3 | 0 | 3.50 | 0.17 | 1 15/16 | 4 15/16 | 250.6 | 125.733 |
| 14MX-200S-68-4535 | **482126** | 200 | 35.089 | 34.979 | – | B3 | 0 | 3.50 | 0.17 | 1 15/16 | 4 15/16 | 262.5 | 182.222 |
| 14MX-224S-68-5040 | **482127** | 224 | 39.300 | 39.190 | – | B3 | 0 | 4.00 | 0.67 | 2 7/16 | 5 | 350.0 | 271.707 |
| **14MX-90** | | | | | | **F = 4.20”** | | | | | | | |
| 14MX-35S-90-3020 | **482141** | 35 | 6.141 | 6.031 | 6.816 | A1F | 0 | 2.00 | 2.20 | 7/8 | 3 1/4 | 22.9 | 0.5884 |
| 14MX-36S-90-3020 | **482142** | 36 | 6.316 | 6.206 | 6.816 | A1F | 0 | 2.00 | 2.20 | 7/8 | 3 1/4 | 23.1 | 0.6633 |
| 14MX-37S-90-3020 | **482143** | 37 | 6.492 | 6.382 | 7.167 | A1F | 0 | 2.00 | 2.20 | 7/8 | 3 1/4 | 23.4 | 0.7449 |
| 14MX-38S-90-3020 | **482144** | 38 | 6.667 | 6.557 | 7.167 | A1F | 0 | 2.00 | 2.20 | 7/8 | 3 1/4 | 23.7 | 0.8338 |
| 14MX-39S-90-3020 | **482145** | 39 | 6.842 | 6.732 | 7.518 | A1F | 0 | 2.00 | 2.20 | 7/8 | 3 1/4 | 24.0 | 0.9303 |
| 14MX-40S-90-3020 | **482146** | 40 | 7.018 | 6.908 | 7.518 | A1F | 0 | 2.00 | 2.20 | 7/8 | 3 1/4 | 24.3 | 1.0349 |
| 14MX-43S-90-3525 | **482147** | 43 | 7.544 | 7.434 | 8.044 | A1F | 0 | 2.50 | 1.70 | 1 3/16 | 3 15/16 | 24.7 | 1.3910 |
| 14MX-45S-90-3525 | **482148** | 45 | 7.895 | 7.785 | 8.395 | A1F | 0 | 2.50 | 1.70 | 1 3/16 | 3 15/16 | 27.3 | 1.6846 |
| 14MX-48S-90-3525 | **482149** | 48 | 8.421 | 8.311 | 8.941 | A1F | 0 | 2.50 | 1.70 | 1 3/16 | 3 15/16 | 29.3 | 2.2089 |
| 14MX-50S-90-3525 | **482150** | 50 | 8.772 | 8.662 | 9.292 | A1F | 0 | 2.50 | 1.70 | 1 3/16 | 3 15/16 | 33.4 | 2.6208 |
| 14MX-53S-90-3525 | **482151** | 53 | 9.299 | 9.189 | 9.688 | A1F | 0 | 2.50 | 1.70 | 1 3/16 | 3 15/16 | 42.1 | 3.3442 |
| 14MX-56S-90-4030 | **482152** | 56 | 9.825 | 9.715 | 10.355 | A1F | 0 | 3.00 | 1.20 | 1 7/16 | 4 7/16 | 46.8 | 4.1952 |
| 14MX-60S-90-4030 | **482153** | 60 | 10.527 | 10.417 | 11.067 | A1F | 0 | 3.00 | 1.20 | 1 7/16 | 4 7/16 | 50.4 | 5.6011 |
| 14MX-63S-90-4030 | **482154** | 63 | 11.053 | 10.943 | 11.593 | A1F | 0 | 3.00 | 1.20 | 1 7/16 | 4 7/16 | 64.6 | 6.8708 |
| 14MX-67S-90-4030 | **482155** | 67 | 11.755 | 11.645 | 12.500 | A1F | 0 | 3.00 | 1.20 | 1 7/16 | 4 7/16 | 70.0 | 8.8919 |
| 14MX-71S-90-4030 | **482156** | 71 | 12.457 | 12.347 | 13.066 | A1F | 0 | 3.00 | 1.20 | 1 7/16 | 4 7/16 | 85.0 | 11.339 |
| 14MX-75S-90-4030 | **482157** | 75 | 13.158 | 13.048 | 13.731 | A2F | 0 | 3.00 | 1.20 | 1 7/16 | 4 7/16 | 86.7 | 14.669 |
| 14MX-80S-90-4030 | **482158** | 80 | 14.036 | 13.926 | 14.620 | A2F | 0 | 3.00 | 1.20 | 1 7/16 | 4 7/16 | 88.0 | 13.800 |
| 14MX-90S-90-4030 | **482159** | 90 | 15.790 | 15.680 | – | A2 | 0 | 3.00 | 1.20 | 1 7/16 | 4 7/16 | 124.2 | 16.521 |
| 14MX-112S-90-4535 | **482160** | 112 | 19.650 | 19.540 | – | A3 | 0 | 3.50 | 0.70 | 1 15/16 | 4 15/16 | 197.9 | 30.460 |
| 14MX-140S-90-5040 | **482161** | 140 | 24.562 | 24.452 | – | A3 | 0 | 4.00 | 0.20 | 2 7/16 | 5 | 240.0 | 66.242 |
| 14MX-168S-90-6050 | **482162** | 168 | 29.475 | 29.365 | – | B3 | 0 | 5.00 | 0.80 | 4 7/16 | 6 | 327.3 | 125.362 |
| 14MX-180S-90-6050 | **482163** | 180 | 31.580 | 31.470 | – | B3 | 0 | 5.00 | 0.80 | 4 7/16 | 6 | 335.9 | 159.541 |
| 14MX-200S-90-6050 | **482164** | 200 | 35.089 | 34.979 | – | B3 | 0 | 5.00 | 0.80 | 4 7/16 | 6 | 344.5 | 230.792 |
| 14MX-224S-90-6050 | **482165** | 224 | 39.300 | 39.190 | – | B3 | 0 | 5.00 | 0.80 | 4 7/16 | 6 | 589.0 | 343.707 |
| **14MX-125** | | | | | | **F = 5.61”** | | | | | | | |
| 14MX-50S-125-4535 | **482182** | 50 | 8.772 | 8.662 | 9.292 | A1F | 0 | 3.50 | 2.11 | 1 15/16 | 4 15/16 | 39.4 | 3.4090 |
| 14MX-52S-125-4535 | **482183** | 52 | 9.123 | 9.013 | 9.687 | A1F | 0 | 3.50 | 2.11 | 1 15/16 | 4 15/16 | 48.2 | 4.0199 |
| 14MX-53S-125-4535 | **482184** | 53 | 9.299 | 9.189 | 9.688 | A1F | 0 | 3.50 | 2.11 | 1 15/16 | 4 15/16 | 50.1 | 4.3540 |
| 14MX-56S-125-4535 | **482185** | 56 | 9.825 | 9.715 | 10.355 | A1F | 0 | 3.50 | 2.11 | 1 15/16 | 4 15/16 | 52.6 | 5.4811 |
| 14MX-60S-125-4535 | **482186** | 60 | 10.527 | 10.417 | 11.067 | A1F | 0 | 3.50 | 2.11 | 1 15/16 | 4 15/16 | 63.3 | 5.8084 |
| 14MX-63S-125-4535 | **482187** | 63 | 11.053 | 10.943 | 11.593 | A1F | 0 | 3.50 | 2.11 | 1 15/16 | 4 15/16 | 77.2 | 8.9504 |
| 14MX-67S-125-4535 | **482188** | 67 | 11.755 | 11.645 | 12.500 | A1F | 0 | 3.50 | 2.11 | 1 15/16 | 4 15/16 | 93.8 | 11.555 |
| 14MX-71S-125-5040 | **482189** | 71 | 12.457 | 12.347 | 13.066 | A1F | 0 | 4.00 | 1.61 | 2 7/16 | 5 | 113.2 | 14.674 |
| 14MX-75S-125-5040 | **482190** | 75 | 13.158 | 13.048 | 13.731 | A1F | 0 | 4.00 | 1.61 | 2 7/16 | 5 | 132.8 | 18.431 |
| 14MX-80S-125-5040 | **482191** | 80 | 14.036 | 13.926 | 14.620 | A1F | 0 | 4.00 | 1.61 | 2 7/16 | 5 | 137.0 | 24.109 |
| 14MX-90S-125-5040 | **482192** | 90 | 15.790 | 15.680 | – | A2 | 0 | 4.00 | 1.61 | 2 7/16 | 5 | 141.8 | 23.571 |
| 14MX-112S-125-6050 | **482193** | 112 | 19.650 | 19.540 | – | A2 | 0 | 5.00 | 0.61 | 4 7/16 | 6 | 210.6 | 51.582 |
| 14MX-140S-125-6050 | **482194** | 140 | 24.562 | 24.452 | – | A2 | 0 | 5.00 | 0.61 | 4 7/16 | 6 | 270.3 | 114.827 |
| 14MX-168S-125-7060 | **482195** | 168 | 29.475 | 29.365 | – | B3 | 0 | 6.00 | 0.39 | 4 15/16 | 7 | 345.2 | 168.072 |
| 14MX-180S-125-7060 | **482196** | 180 | 31.580 | 31.470 | – | B3 | 0 | 6.00 | 0.39 | 4 15/16 | 7 | 365.2 | 213.396 |
| 14MX-200S-125-7060 | **482197** | 200 | 35.089 | 34.979 | – | B3 | 0 | 6.00 | 0.39 | 4 15/16 | 7 | 373.5 | 307.825 |
| 14MX-224S-125-7060 | **482198** | 224 | 39.300 | 39.190 | – | B3 | 0 | 6.00 | 0.39 | 4 15/16 | 7 | 482.3 | 457.347 |

# Specification

## HT500 MPB Sprockets



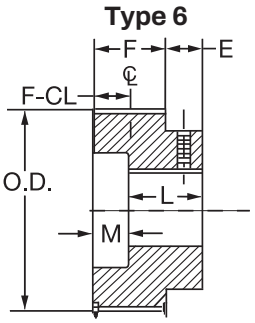

The letter "F" shown with type 6F indicates that Sprocket has flanges

**8MX Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | E | L | M | Min. | Max | | |
| **8MX-12** | | | | | **F = .85"** | | | | | | **Type 6F** | |
| 8MX-22S-12-MPB | **481870** | 22 | 2.206 | 2.143 | 2.606 | 0 | 1.31 | 0.46 | 0.50 | 1.00 | 0.9 | 0.0020 |
| 8MX-25S-12-MPB | **481871** | 25 | 2.506 | 2.443 | 2.906 | 0 | 1.31 | 0.46 | 0.50 | 1.50 | 1.0 | 0.0041 |
| 8MX-28S-12-MPB | **481872** | 28 | 2.807 | 2.744 | 3.207 | 0 | 1.31 | 0.46 | 0.50 | 1.75 | 1.4 | 0.0070 |
| 8MX-30S-12-MPB | **481873** | 30 | 3.008 | 2.945 | 3.408 | 0 | 1.42 | 0.57 | 0.27 | 1.13 | 1.6 | 0.0088 |
| 8MX-32S-12-MPB | **481874** | 32 | 3.208 | 3.145 | 3.608 | 0 | 1.42 | 0.57 | 0.50 | 2.00 | 1.7 | 0.0130 |
| **8MX-21** | | | | | **F = 1.20"** | | | | | | **Type 6F** | |
| 8MX-22S-21-MPB | **481910** | 22 | 2.206 | 2.143 | 2.606 | 0 | 1.65 | 0.45 | 0.50 | 1.19 | 1.1 | 0.0025 |
| 8MX-25S-21-MPB | **481911** | 25 | 2.506 | 2.443 | 2.906 | 0 | 1.65 | 0.45 | 0.50 | 1.50 | 1.4 | 0.0048 |
| 8MX-28S-21-MPB | **481912** | 28 | 2.807 | 2.744 | 3.207 | 0 | 1.65 | 0.45 | 0.50 | 1.75 | 1.8 | 0.0081 |
| 8MX-30S-21-MPB | **481913** | 30 | 3.008 | 2.945 | 3.408 | 0 | 1.77 | 0.57 | 0.50 | 1.81 | 2.2 | 0.0112 |
| 8MX-32S-21-MPB | **481914** | 32 | 3.208 | 3.145 | 3.608 | 0 | 1.77 | 0.57 | 0.50 | 2.00 | 2.5 | 0.0149 |
| **8MX-36** | | | | | **F = 1.86"** | | | | | | **Type 6F** | |
| 8MX-22S-36-MPB | **481950** | 22 | 2.206 | 2.143 | 2.606 | 0 | 2.44 | 0.58 | 0.50 | 1.19 | 1.0 | 0.0036 |
| 8MX-25S-36-MPB | **481951** | 25 | 2.506 | 2.443 | 2.906 | 0 | 2.44 | 0.58 | 0.50 | 1.50 | 1.3 | 0.0066 |
| 8MX-28S-36-MPB | **481952** | 28 | 2.807 | 2.744 | 3.207 | 0 | 2.44 | 0.58 | 0.50 | 1.75 | 1.5 | 0.0108 |
| 8MX-30S-36-MPB | **481953** | 30 | 3.008 | 2.945 | 3.408 | 0 | 2.44 | 0.58 | 0.50 | 1.81 | 1.7 | 0.0147 |
| 8MX-32S-36-MPB | **481954** | 32 | 3.208 | 3.145 | 3.608 | 0 | 2.44 | 0.58 | 0.50 | 2.00 | 3.9 | 0.0193 |
| 8MX-34S-36-MPB | **481955** | 34 | 3.409 | 3.346 | 3.81 | 0 | 2.45 | 0.59 | 0.50 | 2.13 | 4.3 | 0.0269 |
| 8MX-36S-36-MPB | **481956** | 36 | 3.609 | 3.546 | 4.009 | 0 | 2.51 | 0.65 | 0.50 | 2.31 | 4.3 | 0.0344 |
| 8MX-38S-36-MPB | **481957** | 38 | 3.810 | 3.747 | 4.210 | 0 | 2.51 | 0.65 | 0.50 | 2.44 | 4.4 | 0.0434 |
| **8MX-62** | | | | | **F = 2.91"** | | | | | | **Type 6F** | |
| 8MX-22S-62-MPB | **481985** | 22 | 2.206 | 2.143 | 2.606 | 0 | 3.56 | 0.65 | 1.00 | 1.19 | 3.2 | 0.0059 |
| 8MX-25S-62-MPB | **481986** | 25 | 2.506 | 2.443 | 2.906 | 0 | 3.56 | 0.65 | 1.00 | 1.50 | 3.3 | 0.0103 |
| 8MX-28S-62-MPB | **481987** | 28 | 2.807 | 2.744 | 3.207 | 0 | 3.56 | 0.65 | 1.00 | 1.75 | 3.5 | 0.0168 |
| 8MX-30S-62-MPB | **481988** | 30 | 3.008 | 2.945 | 3.408 | 0 | 3.50 | 0.59 | 1.00 | 1.81 | 4.0 | 0.0226 |
| 8MX-32S-62-MPB | **481989** | 32 | 3.208 | 3.145 | 3.608 | 0 | 3.50 | 0.59 | 1.00 | 2.00 | 5.0 | 0.0297 |
| 8MX-34S-62-MPB | **481990** | 34 | 3.409 | 3.346 | 3.81 | 0 | 3.50 | 0.59 | 1.00 | 2.13 | 5.7 | 0.0384 |
| 8MX-36S-62-MPB | **481991** | 36 | 3.609 | 3.546 | 4.009 | 0 | 3.56 | 0.65 | 1.00 | 2.31 | 6.6 | 0.0488 |
| 8MX-38S-62-MPB | **481992** | 38 | 3.812 | 3.747 | 4.210 | 0 | 3.56 | 0.65 | 1.00 | 2.44 | 7.4 | 0.0611 |
| 8MX-40S-62-MPB | **481993** | 40 | 4.010 | 3.947 | 4.410 | 0 | 3.63 | 0.72 | 1.00 | 2.56 | 8.4 | 0.0757 |
| 8MX-42S-62-MPB | **481994** | 42 | 4.211 | 4.148 | 4.911 | 0 | 3.63 | 0.72 | 1.00 | 2.75 | 9.6 | 0.0927 |
| 8MX-45S-62-MPB | **481995** | 45 | 4.511 | 4.448 | 4.911 | 0 | 3.63 | 0.72 | 1.00 | 2.75 | 10.8 | 0.1235 |

# Specification

## HT500 MPB Sprockets




**Type 6F**

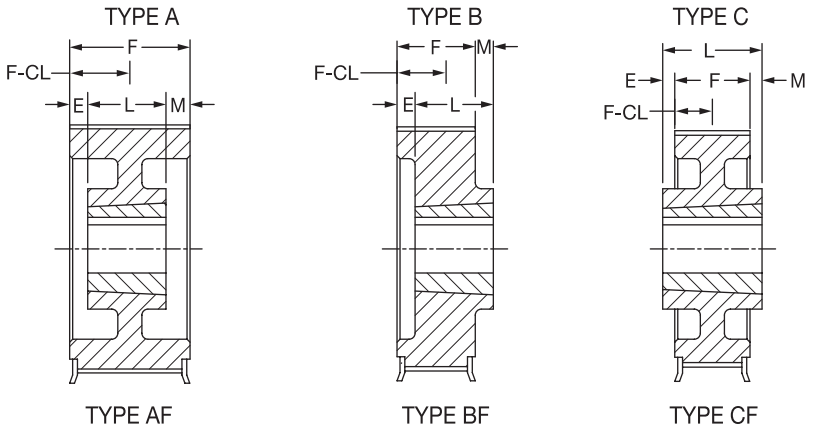
The letter “F” shown with type 6F indicates that Sprocket has flanges

**14MX Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | E | L | M | Min. | Max | | |
| **14MX-37** | | | | | **F = 2.06"** | | | | | | **Type 6F** | |
| 14MX-28S-37-MPB | **482051** | 28 | 4.912 | 4.802 | | 0 | 2.86 | 0.80 | 1.00 | 2.94 | 11.70 | 0.1272 |
| **14MX-68** | | | | | **F = 3.33"** | | | | | | **Type 6F** | |
| 14MX-28S-68-MPB | **482089** | 28 | 4.912 | 4.802 | 5.402 | 0 | 4.13 | 0.80 | 1.00 | 2.94 | 13.4 | 0.1796 |
| 14MX-29S-68-MPB | **482090** | 29 | 5.088 | 4.978 | 5.763 | 0 | 4.13 | 0.80 | 1.00 | 3.19 | 14.5 | 0.2081 |
| 14MX-30S-68-MPB | **482091** | 30 | 5.263 | 5.153 | 5.763 | 0 | 4.13 | 0.80 | 1.00 | 3.19 | 15.7 | 0.2415 |
| 14MX-31S-68-MPB | **482092** | 31 | 5.439 | 5.329 | 6.114 | 0 | 4.13 | 0.80 | 1.00 | 3.44 | 16.8 | 0.2768 |
| 14MX-32S-68-MPB | **482093** | 32 | 5.614 | 5.504 | 6.114 | 0 | 4.13 | 0.80 | 1.00 | 3.44 | 18.0 | 0.3178 |
| 14MX-33S-68-MPB | **482094** | 33 | 5.790 | 5.680 | 6.465 | 0 | 4.33 | 1.00 | 1.00 | 3.50 | 19.5 | 0.3626 |
| 14MX-34S-68-MPB | **482095** | 34 | 5.965 | 5.855 | 6.465 | 0 | 4.33 | 1.00 | 1.00 | 3.50 | 21.1 | 0.4122 |
| **14MX-90** | | | | | **F = 4.20"** | | | | | | **Type 6F** | |
| 14MX-28S-90-MPB | **482128** | 28 | 4.912 | 4.802 | 5.402 | 0 | 5.14 | 0.94 | 1.50 | 2.94 | 17.4 | 0.2309 |
| 14MX-29S-90-MPB | **482129** | 29 | 5.088 | 4.978 | 5.763 | 0 | 5.00 | 0.80 | 1.50 | 3.19 | 18.9 | 0.2684 |
| 14MX-30S-90-MPB | **482130** | 30 | 5.263 | 5.153 | 5.763 | 0 | 5.00 | 0.80 | 1.50 | 3.19 | 20.3 | 0.3102 |
| 14MX-31S-90-MPB | **482131** | 31 | 5.439 | 5.329 | 6.114 | 0 | 5.00 | 0.80 | 1.50 | 3.44 | 21.8 | 0.3566 |
| 14MX-32S-90-MPB | **482132** | 32 | 5.614 | 5.504 | 6.114 | 0 | 5.00 | 0.80 | 1.50 | 3.44 | 23.2 | 0.4080 |
| 14MX-33S-90-MPB | **482133** | 33 | 5.790 | 5.680 | 6.465 | 0 | 5.20 | 1.00 | 1.50 | 3.50 | 25.2 | 0.4648 |
| 14MX-34S-90-MPB | **482134** | 34 | 5.965 | 5.855 | 6.465 | 0 | 5.20 | 1.00 | 1.50 | 3.50 | 27.2 | 0.5272 |
| 14MX-35S-90-MPB | **482135** | 35 | 6.141 | 6.031 | 6.816 | 0 | 5.20 | 1.00 | 1.50 | 3.81 | 28.7 | 0.5956 |
| 14MX-36S-90-MPB | **482136** | 36 | 6.316 | 6.206 | 6.816 | 0 | 5.20 | 1.00 | 1.50 | 3.81 | 30.3 | 0.6704 |
| 14MX-37S-90-MPB | **482137** | 37 | 6.492 | 6.382 | 7.167 | 0 | 5.20 | 1.00 | 1.50 | 4.13 | 32.1 | 0.7521 |
| 14MX-38S-90-MPB | **482138** | 38 | 6.667 | 6.557 | 7.167 | 0 | 5.20 | 1.00 | 1.50 | 4.13 | 33.9 | 0.8410 |
| 14MX-39S-90-MPB | **482139** | 39 | 6.842 | 6.732 | 7.518 | 0 | 5.20 | 1.00 | 1.50 | 4.38 | 35.8 | 0.9375 |
| 14MX-40S-90-MPB | **482140** | 40 | 7.018 | 6.908 | 6.518 | 0 | 5.20 | 1.00 | 1.50 | 4.38 | 37.7 | 1.0421 |
| **14MX-125** | | | | | **F = 5.61"** | | | | | | **Type 6F** | |
| 14MX-28S-125-MPB | **482166** | 28 | 4.912 | 4.802 | 5.402 | 0 | 6.50 | 0.89 | 1.50 | 2.94 | 22.0 | 0.3098 |
| 14MX-29S-125-MPB | **482167** | 29 | 5.088 | 4.978 | 5.763 | 0 | 6.50 | 0.89 | 1.50 | 3.19 | 23.7 | 0.3599 |
| 14MX-30S-125-MPB | **482168** | 30 | 5.263 | 5.153 | 5.763 | 0 | 6.50 | 0.89 | 1.50 | 3.19 | 25.4 | 0.4156 |
| 14MX-31S-125-MPB | **482169** | 31 | 5.439 | 5.329 | 6.114 | 0 | 6.50 | 0.89 | 1.50 | 3.44 | 27.3 | 0.4697 |
| 14MX-32S-125-MPB | **482170** | 32 | 5.614 | 5.504 | 6.114 | 0 | 6.50 | 0.89 | 1.50 | 3.44 | 39.2 | 0.5382 |
| 14MX-33S-125-MPB | **482171** | 33 | 5.790 | 5.680 | 6.465 | 0 | 6.69 | 1.08 | 1.50 | 3.50 | 31.8 | 0.6138 |
| 14MX-34S-125-MPB | **482172** | 34 | 5.965 | 5.855 | 6.465 | 0 | 6.69 | 1.08 | 1.50 | 3.50 | 34.3 | 0.6967 |
| 14MX-35S-125-MPB | **482173** | 35 | 6.141 | 6.031 | 6.816 | 0 | 6.69 | 1.08 | 1.50 | 3.81 | 36.2 | 0.7877 |
| 14MX-36S-125-MPB | **482174** | 36 | 6.316 | 6.206 | 6.816 | 0 | 6.69 | 1.08 | 1.50 | 3.81 | 38.0 | 0.8870 |
| 14MX-37S-125-MPB | **482175** | 37 | 6.492 | 6.382 | 7.167 | 0 | 6.69 | 1.08 | 1.50 | 4.13 | 40.3 | 0.9953 |
| 14MX-38S-125-MPB | **482176** | 38 | 6.667 | 6.557 | 7.167 | 0 | 6.69 | 1.08 | 1.50 | 4.13 | 42.5 | 1.1131 |
| 14MX-39S-125-MPB | **482177** | 39 | 6.842 | 6.732 | 7.518 | 0 | 6.69 | 1.08 | 1.50 | 4.38 | 44.9 | 1.2283 |
| 14MX-40S-125-MPB | **482178** | 40 | 7.018 | 6.908 | 7.518 | 0 | 6.69 | 1.08 | 1.50 | 4.38 | 47.2 | 1.3666 |
| 14MX-43S-125-MPB | **482179** | 43 | 7.544 | 7.434 | 8.044 | 0 | 6.81 | 1.20 | 1.50 | 4.81 | 55.5 | 1.8507 |
| 14MX-45S-125-MPB | **482180** | 45 | 7.895 | 7.785 | 8.395 | 0 | 6.81 | 1.20 | 1.50 | 5.00 | 61.3 | 2.2373 |
| 14MX-48S-125-MPB | **482181** | 48 | 8.421 | 8.311 | 8.941 | 0 | 6.81 | 1.20 | 1.50 | 5.63 | 68.7 | 2.9260 |

# Specification

## HT500 Sprockets
## For ACHE Application
## Taper-Lock




TYPE AF TYPE BF TYPE CF

**1 = Block 2 = Web 3 = Arms**

The letter "F" in column "Type" indicates that Sprocket has flanges

**FIN-FAN HT500 Sprockets** **For Cooling Tower Drives**

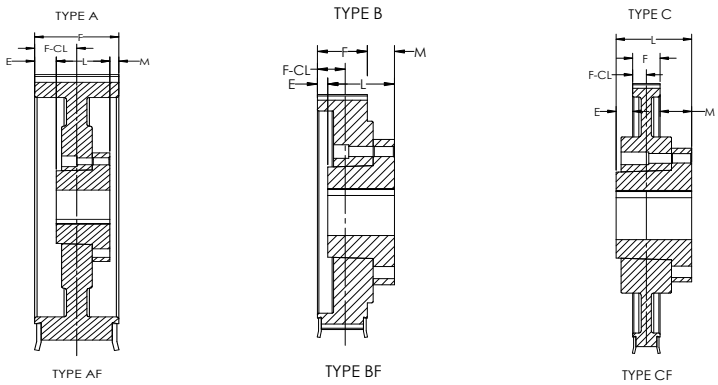
| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Type | Bore Sizes | | | | Approx. Weight (Lbs.) | Approx. WR^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | L | M | Min. | Max | | |
| **14MX-37** | | | | | **F = 2.06"** | | | | | | | |
| F14MX-180S-37-3020 | **482086** | 180 | 31.580 | 31.470 | – | B3 | 2.00 | 0.06 | 7/8 | 3 1/4 | 120.0 | 76.1453 |
| F14MX-200S-37-3020 | **482087** | 200 | 35.086 | 34.979 | – | B3 | 2.00 | 0.06 | 7/8 | 3 1/4 | 130.0 | 110.593 |
| F14MX-224S-37-3020 | **482088** | 224 | 39.296 | 39.190 | – | B3 | 2.00 | 0.06 | 7/8 | 3 1/4 | 177.0 | 165.315 |

# Specification

## HT500 Sprockets

## For ACHE Application

## QD




**1 = Block** **2 = Web** **3 = Arms**

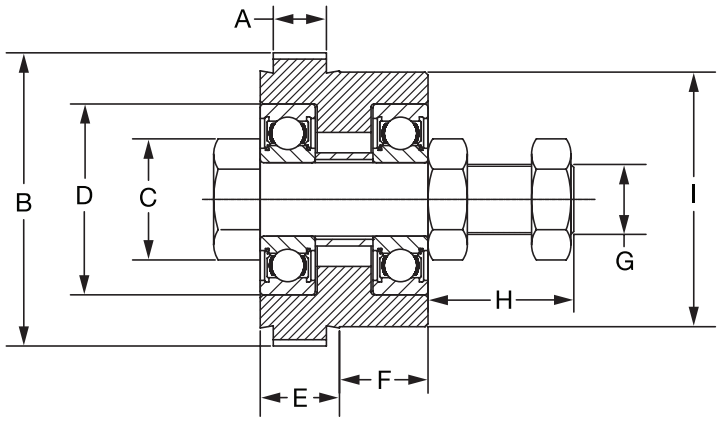
The letter "F" in column "Type" indicates that Sprocket has flanges

**FIN-FAN HT500 Sprockets** **For Cooling Tower Drives**

| Sprocket Number | Part No. | No. Of Teeth | Diameters (In.) | | | Type | Dimensions (In.) | | | Bore Sizes | | Approx. Weight (Lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | L | M | Min. | Max | |
| **8MX-21** | | | | | **F = 1.20"** | | | | | | | |
| F8MX-36S-21-SH | **482199** | 36 | 3.609 | 3.546 | 4.009 | A1F | 0 | 0.81 | 0.39 | 1/2 | 1 5/8 | 2.1 |
| F8MX-38S-21-SH | **482200** | 38 | 3.810 | 3.747 | 4.210 | A1F | 0 | 0.81 | 0.39 | 1/2 | 1 5/8 | 2.1 |
| F8MX-40S-21-SH | **482201** | 40 | 4.010 | 3.947 | 4.410 | A1F | 0 | 0.81 | 0.39 | 1/2 | 1 5/8 | 2.3 |
| F8MX-42S-21-SH | **482202** | 42 | 4.211 | 4.148 | 4.911 | A1F | 0 | 0.81 | 0.39 | 1/2 | 1 5/8 | 2.5 |
| F8MX-140S-21-SF | **482203** | 140 | 14.036 | 13.973 | – | B2 | 0 | 1.25 | 0.05 | 1/2 | 2 13/16 | 25.0 |
| F8MX-168S-21-SF | **482204** | 168 | 16.843 | 16.780 | – | B3 | 0 | 1.25 | 0.05 | 1/2 | 2 13/16 | 33.8 |
| F8MX-180S-21-SF | **482205** | 180 | 18.046 | 17.983 | – | B3 | 0 | 1.25 | 0.05 | 1/2 | 2 13/16 | 36.6 |
| F8MX-224S-21-E | **482206** | 224 | 22.457 | 22.394 | – | B3 | 0 | 1.63 | 0.43 | 7/8 | 3 1/2 | 50.1 |
| **14MX-20** | | | | | **F = 1.36"** | | | | | | | |
| F14MX-28S-20-SK | **482207** | 28 | 4.912 | 4.802 | 5.402 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/2 | 3.9 |
| F14MX-29S-20-SK | **482208** | 29 | 5.088 | 4.978 | 5.763 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/2 | 4.5 |
| F14MX-30S-20-SK | **482209** | 30 | 5.263 | 5.153 | 5.763 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/2 | 4.8 |
| F14MX-31S-20-SK | **482210** | 31 | 5.439 | 5.329 | 6.114 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/2 | 5.5 |
| F14MX-32S-20-SK | **482211** | 32 | 5.614 | 5.504 | 6.114 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/2 | 5.9 |
| F14MX-33S-20-SK | **482212** | 33 | 5.790 | 5.680 | 6.465 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/2 | 6.3 |
| F14MX-34S-20-SK | **482213** | 34 | 5.965 | 5.855 | 6.465 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/2 | 6.9 |
| F14MX-35S-20-SK | **482214** | 35 | 6.141 | 6.031 | 6.816 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 1/2 | 7.3 |
| F14MX-36S-20-SF | **482215** | 36 | 6.315 | 6.206 | 6.816 | A1F | 0 | 1.25 | 0.11 | 1/2 | 2 15/16 | 7.9 |
| F14MX-140S-20-E | **482216** | 140 | 24.560 | 24.452 | – | B3 | 0 | 1.63 | 0.27 | 7/8 | 3 1/2 | 66.1 |
| F14MX-168S-20-F | **482217** | 168 | 29.472 | 29.365 | – | C3 | 0.56 | 2.50 | 0.58 | 1 | 3 15/16 | 90.0 |
| F14MX-180S-20-F | **482218** | 180 | 31.580 | 31.470 | – | B3 | 0 | 2.50 | 1.14 | 1 | 3 15/16 | 107.3 |
| F14MX-200S-20-F | **482219** | 200 | 35.086 | 34.979 | – | C3 | 0.88 | 2.50 | 0.26 | 1 | 3 15/16 | 119.0 |
| F14MX-224S-20-F | **482220** | 224 | 39.300 | 39.190 | – | B3 | 0 | 2.50 | 1.14 | 1 | 3 15/16 | 125.0 |
| **14MX-37** | | | | | **F = 2.06"** | | | | | | | |
| F14MX-28S-37-SK | **482221** | 28 | 4.912 | 4.802 | 5.402 | A1F | 0.81 | 1.25 | 0 | 1/2 | 2 1/2 | 4.2 |
| F14MX-29S-37-SK | **482222** | 29 | 5.088 | 4.978 | 5.763 | A1F | 0.81 | 1.25 | 0 | 1/2 | 2 1/2 | 4.7 |
| F14MX-30S-37-SK | **482223** | 30 | 5.263 | 5.153 | 5.763 | A1F | 0.81 | 1.25 | 0 | 1/2 | 2 1/2 | 5.0 |
| F14MX-31S-37-SK | **482224** | 31 | 5.439 | 5.329 | 6.114 | A1F | 0 | 1.25 | 0.81 | 1/2 | 2 1/2 | 6.0 |
| F14MX-32S-37-SK | **482225** | 32 | 5.614 | 5.504 | 6.114 | A1F | 0 | 1.25 | 0.81 | 1/2 | 2 1/2 | 7.1 |
| F14MX-33S-37-SK | **482226** | 33 | 5.790 | 5.680 | 6.465 | A1F | 0 | 1.25 | 0.81 | 1/2 | 2 1/2 | 7.5 |
| F14MX-34S-37-SK | **482227** | 34 | 5.965 | 5.855 | 6.465 | A1F | 0 | 1.25 | 0.81 | 1/2 | 2 1/2 | 7.8 |
| F14MX-35S-37-SK | **482228** | 35 | 6.141 | 6.031 | 6.816 | A1F | 0 | 1.25 | 0.81 | 1/2 | 2 1/2 | 8.3 |
| F14MX-36S-37-SF | **482229** | 36 | 6.315 | 6.206 | 6.816 | A1F | 0.25 | 1.25 | 0.56 | 1/2 | 2 15/16 | 8.8 |
| F14MX-180S-37-E | **482230** | 180 | 31.580 | 31.470 | – | A3 | 0.19 | 1.63 | 0.21 | 7/8 | 3 1/2 | 120.0 |
| F14MX-200S-37-E | **482231** | 200 | 35.089 | 34.979 | – | A3 | 0.19 | 1.63 | 0.21 | 7/8 | 3 1/2 | 130.0 |
| F14MX-224S-37-E | **482232** | 224 | 39.300 | 39.190 | – | A3 | 0.19 | 1.63 | 0.21 | 7/8 | 3 1/2 | 177.0 |

# Specification

## HT500 Idler Sprockets




| Idler Number | Part No. | No. Of Teeth | Belt Width mm | A (Ref) In | B In | C (Ref) In | D In | E (Ref) In | F In | G (Threads) In | H (Ref) In | I In | Approx. Weight (Lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8MX-32-12-IDL | **482233** | 32 | 12 | 0.56 | 3.15 | 1.13 | 2.05 | 0.85 | 0.96 | 3/4-16UNF | 1.58 | 2.73 | 3.8 |
| 8MX-32-21-IDL | **482234** | 32 | 21 | 0.97 | 3.15 | 1.25 | 2.05 | 1.24 | 0.57 | 3/4-16UNF | 1.58 | 2.73 | 3.9 |
| 8MX-36-36-IDL | **482235** | 36 | 36 | 1.59 | 3.55 | 1.75 | 2.83 | 1.86 | 0.00 | 3/4-16UNF | 1.77 | 0.00 | 5.1 |
| 8MX-36-62-IDL | **482236** | 36 | 62 | 2.63 | 3.55 | 1.75 | 2.83 | 2.91 | 0.65 | 3/4-16UNF | 1.83 | 0.65 | 9.7 |
| 14MX-30-20-IDL | **482237** | 30 | 20 | 1.05 | 5.15 | 2.38 | 3.54 | 1.36 | 0.97 | 1-14NS-1B | 2.38 | 4.35 | 12.5 |
| 14MX-30-37-IDL | **482238** | 30 | 37 | 1.73 | 5.15 | 2.38 | 3.54 | 2.06 | 0.25 | 1-14NS-1B | 2.38 | 4.35 | 13.5 |
| 14MX-34-68-IDL | **482239** | 34 | 68 | 3.02 | 5.86 | 2.75 | 4.38 | 3.33 | 0.98 | 1-14NS-1B | 2.38 | 4.89 | 26.0 |
| 14MX-34-90-IDL | **482240** | 34 | 90 | 3.88 | 5.86 | 2.75 | 4.38 | 4.20 | 0.99 | 1-14NS-1B | 2.25 | 4.89 | 32.2 |
| 14MX-34-125-IDL | **482241** | 34 | 125 | 5.28 | 5.86 | 2.75 | 4.38 | 5.61 | 1.08 | 1-14NS-1B | 2.38 | 4.89 | 36.4 |

# Specification

## HT500 Belts

HT500 Belts are for use on Taper-Lock HT500 Sprockets
Belt length is in millimeters
To convert to inches, divide by 25.4

**8 mm Pitch HT500 Belts**

| 12 mm Wide | | | 21 mm Wide | | | 36 mm Wide | | | 62 mm Wide | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Description | P/N | Wt. | Description | P/N | Wt. | Description | P/N | Wt. | Description | P/N | Wt. |
| 248-8MX-12 | **142600** | 0.04 | 248-8MX-21 | **142638** | 0.05 | 248-8MX-36 | **142676** | 0.09 | 640-8MX-62 | **142714** | 0.80 |
| 288-8MX-12 | **142601** | 0.04 | 288-8MX-21 | **142639** | 0.06 | 288-8MX-36 | **142677** | 0.11 | 720-8MX-62 | **142715** | 1.00 |
| 352-8MX-12 | **142602** | 0.05 | 352-8MX-21 | **142640** | 0.07 | 352-8MX-36 | **142678** | 0.13 | 800-8MX-62 | **142716** | 1.08 |
| 416-8MX-12 | **142603** | 0.05 | 416-8MX-21 | **142641** | 0.09 | 416-8MX-36 | **142679** | 0.15 | 896-8MX-62 | **142717** | 1.20 |
| 456-8MX-12 | **142604** | 0.06 | 456-8MX-21 | **142642** | 0.10 | 456-8MX-36 | **142680** | 0.17 | 960-8MX-62 | **142718** | 1.25 |
| 480-8MX-12 | **142605** | 0.06 | 480-8MX-21 | **142643** | 0.10 | 480-8MX-36 | **142681** | 0.18 | 1000-8MX-62 | **142719** | 1.30 |
| 544-8MX-12 | **142606** | 0.07 | 544-8MX-21 | **142644** | 0.12 | 544-8MX-36 | **142682** | 0.20 | 1040-8MX-62 | **142720** | 1.35 |
| 608-8MX-12 | **142607** | 0.07 | 608-8MX-21 | **142645** | 0.13 | 608-8MX-36 | **142683** | 0.22 | 1120-8MX-62 | **142721** | 1.40 |
| 640-8MX-12 | **142608** | 0.40 | 640-8MX-21 | **142646** | 0.40 | 640-8MX-36 | **142684** | 0.70 | 1200-8MX-62 | **142722** | 1.75 |
| 720-8MX-12 | **142609** | 0.47 | 720-8MX-21 | **142647** | 0.45 | 720-8MX-36 | **142685** | 0.75 | 1224-8MX-62 | **142723** | 1.65 |
| 800-8MX-12 | **142610** | 0.50 | 800-8MX-21 | **142648** | 0.50 | 800-8MX-36 | **142686** | 0.80 | 1280-8MX-62 | **142724** | 1.70 |
| 896-8MX-12 | **142611** | 0.55 | 896-8MX-21 | **142649** | 0.53 | 896-8MX-36 | **142687** | 0.90 | 1440-8MX-62 | **142725** | 1.85 |
| 960-8MX-12 | **142612** | 0.58 | 960-8MX-21 | **142650** | 0.58 | 960-8MX-36 | **142688** | 0.97 | 1600-8MX-62 | **142726** | 2.00 |
| 1000-8MX-12 | **142613** | 0.60 | 1000-8MX-21 | **142651** | 0.60 | 1000-8MX-36 | **142689** | 1.00 | 1760-8MX-62 | **142727** | 2.10 |
| 1040-8MX-12 | **142614** | 0.65 | 1040-8MX-21 | **142652** | 0.65 | 1040-8MX-36 | **142690** | 1.02 | 1792-8MX-62 | **142728** | 2.10 |
| 1120-8MX-12 | **142615** | 0.68 | 1120-8MX-21 | **142653** | 0.70 | 1120-8MX-36 | **142691** | 1.10 | 2000-8MX-62 | **142729** | 2.30 |
| 1200-8MX-12 | **142616** | 0.70 | 1200-8MX-21 | **142654** | 0.75 | 1200-8MX-36 | **142692** | 1.12 | 2200-8MX-62 | **142730** | 2.50 |
| 1224-8MX-12 | **142617** | 0.72 | 1224-8MX-21 | **142655** | 0.75 | 1224-8MX-36 | **142693** | 1.20 | 2240-8MX-62 | **142731** | 2.55 |
| 1280-8MX-12 | **142618** | 0.75 | 1280-8MX-21 | **142656** | 0.80 | 1280-8MX-36 | **142694** | 1.25 | 2400-8MX-62 | **142732** | 2.80 |
| 1440-8MX-12 | **142619** | 0.80 | 1440-8MX-21 | **142657** | 0.90 | 1440-8MX-36 | **142695** | 1.35 | 2520-8MX-62 | **142733** | 2.90 |
| 1600-8MX-12 | **142620** | 0.90 | 1600-8MX-21 | **142658** | 1.00 | 1600-8MX-36 | **142696** | 1.45 | 2600-8MX-62 | **142734** | 2.95 |
| 1760-8MX-12 | **142621** | 0.95 | 1760-8MX-21 | **142659** | 1.15 | 1760-8MX-36 | **142697** | 1.60 | 2800-8MX-62 | **142735** | 3.10 |
| 1792-8MX-12 | **142622** | 1.00 | 1792-8MX-21 | **142660** | 1.15 | 1792-8MX-36 | **142698** | 1.65 | 2840-8MX-62 | **142736** | 3.15 |
| 2000-8MX-12 | **142623** | 1.10 | 2000-8MX-21 | **142661** | 1.25 | 2000-8MX-36 | **142699** | 1.70 | 3048-8MX-62 | **142737** | 3.40 |
| 2200-8MX-12 | **142624** | 1.15 | 2200-8MX-21 | **142662** | 1.38 | 2200-8MX-36 | **142700** | 1.88 | 3200-8MX-62 | **142738** | 3.60 |
| 2240-8MX-12 | **142625** | 1.20 | 2240-8MX-21 | **142663** | 1.40 | 2240-8MX-36 | **142701** | 1.90 | 3280-8MX-62 | **142739** | 3.70 |
| 2400-8MX-12 | **142626** | 1.30 | 2400-8MX-21 | **142664** | 1.50 | 2400-8MX-36 | **142702** | 2.00 | 3600-8MX-62 | **142740** | 4.05 |
| 2520-8MX-12 | **142627** | 1.35 | 2520-8MX-21 | **142665** | 1.60 | 2520-8MX-36 | **142703** | 2.15 | 4000-8MX-62 | **142741** | 4.40 |
| 2600-8MX-12 | **142628** | 1.40 | 2600-8MX-21 | **142666** | 1.65 | 2600-8MX-36 | **142704** | 2.30 | 4400-8MX-62 | **142742** | 4.80 |
| 2800-8MX-12 | **142629** | 1.50 | 2800-8MX-21 | **142667** | 1.75 | 2800-8MX-36 | **142705** | 2.40 | 4480-8MX-62 | **142743** | 4.90 |
| 2840-8MX-12 | **142630** | 1.52 | 2840-8MX-21 | **142668** | 1.80 | 2840-8MX-36 | **142706** | 2.50 | | | |
| 3048-8MX-12 | **142631** | 1.65 | 3048-8MX-21 | **142669** | 1.90 | 3048-8MX-36 | **142707** | 2.62 | | | |
| 3200-8MX-12 | **142632** | 1.70 | 3200-8MX-21 | **142670** | 2.05 | 3200-8MX-36 | **142708** | 2.70 | | | |
| 3280-8MX-12 | **142633** | 1.75 | 3280-8MX-21 | **142671** | 2.10 | 3280-8MX-36 | **142709** | 2.72 | | | |
| 3600-8MX-12 | **142634** | 1.85 | 3600-8MX-21 | **142672** | 2.25 | 3600-8MX-36 | **142710** | 2.95 | | | |
| 4000-8MX-12 | **142635** | 2.10 | 4000-8MX-21 | **142673** | 2.55 | 4000-8MX-36 | **142711** | 3.25 | | | |
| 4400-8MX-12 | **142636** | 2.25 | 4400-8MX-21 | **142674** | 2.75 | 4400-8MX-36 | **142712** | 3.55 | | | |
| 4480-8MX-12 | **142637** | 2.33 | 4480-8MX-21 | **142675** | 2.80 | 4480-8MX-36 | **142713** | 3.60 | | | |

# Specification

## HT500 Belts

HT500 Belts are for use on Taper-Lock HT500 Sprockets
Belt length is in millimeters
To convert to inches, divide by 25.4

**14MM Pitch HT500 Belts**

| 20MM Wide | | | 37MM Wide | | | 68MM Wide | | | 90MM Wide | | | 125MM Wide | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description | P/N | Wt. | Description | P/N | Wt. | Description | P/N | Wt. | Description | P/N | Wt. | Description | P/N | Wt. |
| 994-14MX-20 | **142744** | 1.30 | 994-14MX-37 | **142771** | 1.60 | 994-14MX-68 | **142798** | 2.40 | 994-14MX-90 | **142825** | 3.00 | 994-14MX-125 | **142852** | 3.60 |
| 1120-14MX-20 | **142745** | 1.35 | 1120-14MX-37 | **142772** | 1.70 | 1120-14MX-68 | **142799** | 2.60 | 1120-14MX-90 | **142826** | 3.30 | 1120-14MX-125 | **142853** | 3.90 |
| 1190-14MX-20 | **142746** | 1.40 | 1190-14MX-37 | **142773** | 1.75 | 1190-14MX-68 | **142800** | 2.70 | 1190-14MX-90 | **142827** | 3.35 | 1190-14MX-125 | **142854** | 4.00 |
| 1260-14MX-20 | **142747** | 1.45 | 1260-14MX-37 | **142774** | 1.80 | 1260-14MX-68 | **142801** | 2.80 | 1260-14MX-90 | **142828** | 3.60 | 1260-14MX-125 | **142855** | 4.20 |
| 1400-14MX-20 | **142748** | 1.55 | 1400-14MX-37 | **142775** | 2.05 | 1400-14MX-68 | **142802** | 3.00 | 1400-14MX-90 | **142829** | 3.35 | 1400-14MX-125 | **142856** | 4.60 |
| 1568-14MX-20 | **142749** | 1.65 | 1568-14MX-37 | **142776** | 2.20 | 1568-14MX-68 | **142803** | 3.25 | 1568-14MX-90 | **142830** | 4.10 | 1568-14MX-125 | **142857** | 5.00 |
| 1610-14MX-20 | **142750** | 1.70 | 1610-14MX-37 | **142777** | 2.30 | 1610-14MX-68 | **142804** | 3.40 | 1610-14MX-90 | **142831** | 4.25 | 1610-14MX-125 | **142858** | 5.20 |
| 1750-14MX-20 | **142751** | 1.75 | 1750-14MX-37 | **142778** | 2.45 | 1750-14MX-68 | **142805** | 3.60 | 1750-14MX-90 | **142832** | 4.50 | 1750-14MX-125 | **142859** | 5.40 |
| 1890-14MX-20 | **142752** | 1.75 | 1890-14MX-37 | **142779** | 2.55 | 1890-14MX-68 | **142806** | 3.95 | 1890-14MX-90 | **142833** | 4.85 | 1890-14MX-125 | **142860** | 5.80 |
| 1960-14MX-20 | **142753** | 1.80 | 1960-14MX-37 | **142780** | 2.60 | 1960-14MX-68 | **142807** | 4.00 | 1960-14MX-90 | **142834** | 4.95 | 1960-14MX-125 | **142861** | 6.00 |
| 2100-14MX-20 | **142754** | 1.90 | 2100-14MX-37 | **142781** | 2.70 | 2100-14MX-68 | **142808** | 4.20 | 2100-14MX-90 | **142835** | 5.20 | 2100-14MX-125 | **142862** | 6.50 |
| 2240-14MX-20 | **142755** | 1.98 | 2240-14MX-37 | **142782** | 2.85 | 2240-14MX-68 | **142809** | 4.50 | 2240-14MX-90 | **142836** | 5.45 | 2240-14MX-125 | **142863** | 6.80 |
| 2310-14MX-20 | **142756** | 2.05 | 2310-14MX-37 | **142783** | 2.90 | 2310-14MX-68 | **142810** | 4.70 | 2310-14MX-90 | **142837** | 5.50 | 2310-14MX-125 | **142864** | 7.00 |
| 2380-14MX-20 | **142757** | 2.10 | 2380-14MX-37 | **142784** | 3.00 | 2380-14MX-68 | **142811** | 4.70 | 2380-14MX-90 | **142838** | 5.70 | 2380-14MX-125 | **142865** | 7.10 |
| 2450-14MX-20 | **142758** | 2.15 | 2450-14MX-37 | **142785** | 3.10 | 2450-14MX-68 | **142812** | 4.85 | 2450-14MX-90 | **142839** | 5.85 | 2450-14MX-125 | **142866** | 7.20 |
| 2520-14MX-20 | **142759** | 2.20 | 2520-14MX-37 | **142786** | 3.20 | 2520-14MX-68 | **142813** | 4.90 | 2520-14MX-90 | **142840** | 5.90 | 2520-14MX-125 | **142867** | 7.40 |
| 2590-14MX-20 | **142760** | 2.20 | 2590-14MX-37 | **142787** | 3.25 | 2590-14MX-68 | **142814** | 5.00 | 2590-14MX-90 | **142841** | 5.95 | 2590-14MX-125 | **142868** | 7.60 |
| 2660-14MX-20 | **142761** | 2.25 | 2660-14MX-37 | **142788** | 3.35 | 2660-14MX-68 | **142815** | 5.15 | 2660-14MX-90 | **142842** | 6.10 | 2660-14MX-125 | **142869** | 7.75 |
| 2800-14MX-20 | **142762** | 2.30 | 2800-14MX-37 | **142789** | 3.40 | 2800-14MX-68 | **142816** | 5.20 | 2800-14MX-90 | **142843** | 6.40 | 2800-14MX-125 | **142870** | 8.30 |
| 3136-14MX-20 | **142763** | 2.50 | 3136-14MX-37 | **142790** | 3.65 | 3136-14MX-68 | **142817** | 5.80 | 3136-14MX-90 | **142844** | 7.00 | 3136-14MX-125 | **142871** | 9.10 |
| 3304-14MX-20 | **142764** | 2.55 | 3304-14MX-37 | **142791** | 3.85 | 3304-14MX-68 | **142818** | 6.05 | 3304-14MX-90 | **142845** | 7.35 | 3304-14MX-125 | **142872** | 9.50 |
| 3360-14MX-20 | **142765** | 2.60 | 3360-14MX-37 | **142792** | 3.85 | 3360-14MX-68 | **142819** | 6.10 | 3360-14MX-90 | **142846** | 7.50 | 3360-14MX-125 | **142873** | 9.65 |
| 3500-14MX-20 | **142766** | 2.70 | 3500-14MX-37 | **142793** | 3.95 | 3500-14MX-68 | **142820** | 6.30 | 3500-14MX-90 | **142847** | 7.70 | 3500-14MX-125 | **142874** | 10.00 |
| 3850-14MX-20 | **142767** | 2.85 | 3850-14MX-37 | **142794** | 4.25 | 3850-14MX-68 | **142821** | 6.80 | 3850-14MX-90 | **142848** | 8.30 | 3850-14MX-125 | **142875** | 10.75 |
| 3920-14MX-20 | **142768** | 2.95 | 3920-14MX-37 | **142795** | 4.35 | 3920-14MX-68 | **142822** | 7.00 | 3920-14MX-90 | **142849** | 8.50 | 3920-14MX-125 | **142876** | 11.00 |
| 4326-14MX-20 | **142769** | 3.15 | 4326-14MX-37 | **142796** | 4.70 | 4326-14MX-68 | **142823** | 7.70 | 4326-14MX-90 | **142850** | 9.20 | 4326-14MX-125 | **142877** | 12.00 |
| 4410-14MX-20 | **142770** | 3.20 | 4410-14MX-37 | **142770** | 4.75 | 4410-14MX-68 | **142824** | 7.85 | 4410-14MX-90 | **142851** | 9.30 | 4410-14MX-125 | **142878** | 12.20 |

# Selection

## HT500 Low-Speed Design Load Calculations

For use when designing HT500 belt drives with low speeds

### I. Actual Operating Loads Known

In such cases where the actual operating load is known, design the belt drive for the actual operating load rather than for a load based upon the motor name plate. Use Equation 1 to calculate the proper drive design load based upon motor load (name plate or measured) when the belt drive will be installed on the reducer output shaft.

### Design Load

Equation 1

Design Load = (MotorLoad) x ServiceFactor x (% Reducer Efficiency/100) Motor Load: From user/OEM

Service Factor: From Table 1

% Efficiency: From reducer manufacturer

**Table 1—Service Factors for Low-Speed Drives**
**For Drive Selections With Shaft Speeds Less Than 500 rpm**

| **DriveN Machine** | Typical drivers are electric motors, hydraulic motors, or internal combustion engines with hydraulic couplings/torque converters. | | |
|---|---|---|---|
| Select a driven load category whose characteristics most closely represent those of the actual equipment | **Intermittent Service** | **Normal Service** | **Continuous Service** |
| | **3-5 Hours Daily** | **8-10 Hours Daily** | **16-24 Hours Daily** |
| **Uniform Load:**<br>Agitators and Mixers: liquid and semi-liquid<br>Conveyors: light package, oven, ore, sand, salt<br>Food Equipment: bottling machinery, kettles, cookers, food handling machinery<br>Line shafts: light or normal service<br>Paper Industry: agitators, bleachers, calendars, dryer machinery<br>Printing Machinery: cutters, rotary, embossing and flatbed presses, linotype, folders | 1.0 | 1.2 | 1.3 |
| **Moderate Shock Load:**<br>Agitator Mixers: dough, heavy syrups<br>Brick and Clay Machinery: auger, brick machines<br>Conveyors: apron, bucket, pan, elevator<br>Cranes and Hoists: hoists, elevators<br>Line Shafts: moderate, heavy service<br>Paper Industry: yankee dryer, winder drums<br>Printing Machinery: magazine and newspaper printing presses<br>Rubber and Plastics Machinery: calendars, rolls, tubers, extruders | 1.3 | 1.4 | 1.5 |
| **Heavy Shock Loads:**<br>Brick and Clay Machinery: mixers, pug mills, rolls<br>Conveyors: screw, flight<br>Crushing Machinery: ball mills, jaw crushers, roll crushers<br>Mills: rotary, ball, pebble, rod, tube<br>Mixers: concrete<br>Rubber and Plastics Machinery: mixers, sheeters | 1.5 | 1.6 | 1.7 |

### Additional Guidelines

There are many driven machines using, or potentially designed to use, roller chain drive systems. When converting these to HT500 drives, consider the following additional guidelines.

- Do not overlook the torque multiplying effect of belt drives and speed reducers when calculating with torque loads.
- Engineering judgment should be used in determining a design load for non-standard motors with high starting loads (NEMA C, NEMA D, Direct Current, etc.).
- For guidance in calculating speed reducer efficiency, refer to Speed Reducer Efficiency on Page PT12-24.

Selection program available online at ptwizard.com

# Low-Speed HT500 Belt Drive Selection Procedure

## For drive selections with shaft speeds less than 500 rpm

### Selection of a Stock HT500 belt drive system involves these eight steps:

1. Calculate the Design Horsepower
2. Select the Belt Pitch
3. Select the Sprockets and Belt Length
4. Select the Proper Belt Width
5. Check and Specify Stock Drive Components
6. Installation and Take-up
7. Calculate Belt Tensioning Requirements
8. Verify Speed Reducer Overhung Load

### Sample Drive Selection Problem

A blank Low-Speed Drive Design Information Sheet can be found on page PT12-25. This form provides a convenient method for collecting data to properly design or convert to a HT500 belt drive.

In this example, an ore conveyor is powered by an electric motor directly connected to a speed reducer. A HT500 belt drive is needed to transmit power from the speed reducer output shaft to the conveyor shaft. The motor is a 5 horsepower, 1750 rpm normal torque AC motor.

The speed reducer is a worm gear type unit with a 50 to 1 speed ratio. The ore conveyor is to be driveN at 17.5 ± 5 percent rpm and operates 24 hours per day 7 days a week. The center distance between shafts is 50.0 inches, but can be altered ± 3.0 inches, if necessary. The speed reducer output shaft has a 1.500 inch diameter and the conveyor shaft has a 2.000 inch diameter.

### Step 1 Calculate The Design Horsepower

The Design Horsepower should be calculated as follows:

Design Horsepower =
(Motor Load) x (Low-Speed Service Factor) x (Reducer Efficiency)

### Procedure

**A.** The motor load can be determined by several methods as explained in the Low-Speed Drive Load Calculations section on pages PT12-22 - PT12-24. The method used for determining motor load will depend on how much information is available on the application. A worksheet is provided on page PT12-25 to help choose which method is most appropriate given the information known.

#### *Example*

This example demonstrates the Proportioned Amperage Rating approach described in Formula 5 below.

$$\text{Horsepower} = \frac{(\text{nameplate HP})\,(\text{measured Amps})}{(\text{nameplate Amps})}$$

Motor = 5.00 hp (nameplate rating)
Nameplate Amps= 70.
Measured Amps: Phase 1 = 4.1
Phase 2 = 4.4
Phase 3 = 4.2

$$\text{Average Measured Amps} = \frac{\text{Phase 1} + \text{Phase 2} + \text{Phase 3}}{3}$$

$$= \frac{4.1 \text{ amps} + 4.4 \text{ amps} + 4.2 \text{ amps}}{3}$$

**Average Measured Amps = 4.2 amps**

$$\text{Motor Load} = \frac{(\text{Nameplate hp})\,(\text{Average Measured Amps})}{(\text{Nameplate Amps})}$$

$$= \frac{5 \text{ hp} \times 4.2 \text{ amps}}{7.0 \text{ amps}}$$

**Motor Load= 3.00 hp Procedure**

**B.** The proper Low-Speed Service Factor is selected from Table 1 - Service Factors For Low-Speed Roller Chain Drive Conversions. The selection is based on the category of machinery being driven and the number of service hours per day.

#### *Example*

An Ore Conveyor is found in the Uniform Load drive group. Reading across to the right, the column heading for 16-24 hours daily service shows that a **1.3 Service Factor** is recommended.

### Procedure

**C.** The Reducer Efficiency is available from the speed reducer name plate or manufacturers' catalogs. Often the speed reducer efficiency is not provided directly in manufacturer's catalog. In such cases the reducer efficiency must be calculated as described on page PT12-24.

#### *Example - Speed Reducer Efficiency Calculation*

Speed Reducer Rated Input Load hp = .65
Speed Reducer Rated Output Torque = lb-in. 6210
Speed Reducer Rated Output Speed rpm = 35
Rated Output hp

$$= \frac{(\text{Rated Output Torque}) \times (\text{Output Speed})}{63025}$$

$$= \frac{(6210 \text{lb -in}) \times (35 \text{ rpm})}{63025}$$

**Rated Output hp = 3.4**

$$\text{Reducer Efficiency} = \frac{\text{Rated Output Power}}{\text{Rated Input Power}}$$

$$= \frac{3.4 \text{ hp}}{6.5 \text{ hp}}$$

**Reducer Efficiency = 0.53 or 53 percent**

### Procedure

**D.** The Design Horsepower can now be determined by multiplying these three values together.

#### *Example - Design Horsepower Calculation*

Motor Load = **3.00 hp**
Low-Speed Service Factor =**1.3**
Reducer Efficiency = 53 percent
Horsepower = (Motorload)(Reducer Eff)
Horsepower = (3.00)(0.53) = 1.59

**Design Horsepower = (HP)(Low Speed Service Factor)**
**Design Horsepower = (1.59)(1.3)**
**Design Horsepower = 2.07**

# Low-Speed HT500 Belt Drive Selection Procedure

### Step 2 Select The Belt Pitch

### Procedure

Using the Design Horsepower and the output speed of the speed reducer, select the belt pitch from the Belt Pitch Selection Guide Chart on page PT12-31.

***Example***

Design Horsepower = **2.07 hp**
Reducer Output Speed = **35 rpm**

Locate 35 rpm on the "RPM of Faster Shaft" scale on the left side of the chart and move over to where the 2.07 Design Horsepower line intersects. The intersection falls within the 8 mm pitch section, but a 14 mm pitch belt could also be used.

### Step 3 Select The Sprockets and Belt Length

### Procedure

**A. Determine the belt drive speed ratio:** The speed ratio can be calculated by dividing the speed (rpm) of the faster shaft by the speed (rpm) of the slower shaft.

***Example***

Reducer Output Speed = 35 rpm

Ore Conveyor Speed = 17.5 rpm

$$\text{Speed Ratio} = \frac{\text{rpm of faster shaft}}{\text{rpm of slower shaft}} = \frac{35}{17.5} = 2.00$$

**B. Select the sprocket combination and belt length:** Referring to the Stock Drive Selection Tables, find the proper set of tables for the belt pitch (8 mm or 14 mm) found in Step 2. Looking down the speed ratio column, find the value which most closely matches the belt drive speed ratio required. Reading across the selected speed ratio line, find the stock DriveR and DriveN sprocket combination available. Reading further across, locate the belt drive center distance which most closely matches the target center distance specified. The belt sizes are listed across the top of the table for each corresponding center distance.

Multiple sprocket combinations will often be available for a given speed ratio. In such cases, selection of the proper drive combination will depend on the center distance required, minimum or maximum required sprocket diameters and speed reducer overhung load requirements. After selecting possible sprocket combinations and center distances, record the belt length (top of column) and the length factor (bottom of column).

***Example***

Belt pitch = 14 mm
Belt Drive Speed Ratio = 2.000
Center Distance = 50.00 ± 3.00 in. (from the problem statement)

Refer to the 14 mm Pitch Stock Drive Selection Tables on pages PT12-63 - PT12-76. Reading down the Speed Ratio Column locate 2.000. In this case, there are five different drive combinations available for a 2.000 Speed Ratio. Checking the center distance values for each combination, the 50.10 inch value is the closest to the 50.00 inch target. So, the 28 teeth DriveR sprocket, 56 teeth DriveN sprocket, and 3136-14MX (224 teeth) belt combination is selected. Also note that the Belt Length Correction Factor is 1.12 with a center distance of 50.10 inches.

### Step 4 Select The Proper Belt Width Procedure

**Horsepower Rating Tables are located on pages PT12-38 - PT12-46 for standard belt pitches and stock belt widths.** The base horsepower rating is given in the upper table as a function of the speed (rpm) of the faster shaft and diameter of the small sprocket. The speed of the faster shaft is located in the left hand column. Across the top are various stock sprocket sizes. The base horsepower rating of a given sprocket, at a specific speed, is the point at which the "rpm" row and the "sprocket size" column intersect.

This basic horsepower rating must be corrected for speed down speed ratios, and for the belt length selected. The following formula should be used to calculate the total drive horsepower rating:

Rated Drive Horsepower = [Rated Base Horsepower

+ Additional Horsepower for Speed Ratio]

x (Belt Length Correction Factor)

Referring to the Speed Ratio Add-On Factor Table, select a value based upon the drive operating speed and the speed ratio. This value should be added to the basic horsepower rating. Multiply the corrected rating by the applicable Belt Length Correction Factor determined in Step 3B or from the Belt Length Correction Factor Table. The corrected horsepower rating must equal or exceed design horsepower.

Where there are several choices, space limitations may control the selection. In addition, the following guidelines should be considered:

1. Larger sprockets result in reduced belt width.
2. Larger sprockets yield longer drive service life.
3. Avoid drives where the belt width exceeds the smaller sprocket diameter.
4. Avoid drives where center distance is greater than 8 times the diameter of the smaller sprocket.

***Example***

Referring to the 14 mm pitch Horsepower Rating Table for 20 mm Wide belts on page PT12-42. Read down the left hand column for "RPM of Faster Shaft" and locate 35 rpm. Read the sprocket sizes listed across the top of the table and locate the 28 teeth, 4.912 inch P.D. column. Read across the "RPM" row and down the sprocket size column until the two intersect at a **Rated Base Horsepower of 2.53 HP.**

Next, referencing the Speed Ratio Add-On Correction Table (page PT12-42), find the listing for a 2.000 speed ratio. An add-on factor of 0.11 hp is listed. Then, referencing the Belt Length Correction Factor Table (page PT12-72), find the listing for a 3136-14MX belt. A correction factor of 1.12 is listed.

# Low-Speed HT500 Belt Drive Selection Procedure



Calculate the Corrected Horsepower Rating:

Rated Drive Horsepower =

[Rated Base Horsepower + Added HP for Speed Ratio] x (Belt Length Correction Factor) = [2.53 hp+ 0.11 hp] x (1.12)

**Rated Drive Horsepower 2.96 hp**

The Corrected Horsepower Rating of 2.96 hp exceeds the Design Horsepower target of 2.07 hp. So, a **belt width of 20 mm** is acceptable.

### Step 5 Check and Specify Stock Drive Components

### Procedure

**A. Check the sprockets selected against any special design requirements** using the dimensions provided in the Sprocket Specifications Tables on pages PT12-6 - PT12-13. Use flange diameters when checking against maximum diameter requirements.

**B. Determine the bushing size required for each sprocket and check bore sizes** by using the Sprocket Specification Tables. From the Stock Bushing tables in the bushing section, check the bore range and keyway dimensions against the design requirements.

***Example***

Also from the sprocket data on page PT12-9 we note that the **14MX-28S-20 sprocket** requires a 2012 bushing and the **14MX-56S-20 sprocket requires a 3525 bushing**. On page PT12-81 in the bushing data table, a **2012 bushing has a bore range of 1/2 to 2-1/8 inches**, which includes the 1-1/2 inch bore required for the driveR shaft. The **3525 bushing has a bore range from 1-3/16 to 3-15/16** inches page PT12-83, which includes the 2 inch bore required for the driveN shaft.

**C. Specify stock drive components using proper designations.**

***Example***

Stock drive components are as follows:

1 ea. - 3136-14MX-20 HT500 belt
1 ea. - 14MX-28S-20 driveR sprocket
1 ea. - 2012 Bushing with a 1-1/2 in. bore
1 ea. - 14MX-56S-20 driveN sprocket
1 ea. - 3525 Bushing with a 2 in. bore

### Step 6 Installation and Take-up

### Procedure

Because of its high resistance to elongation (stretch), there is no need to re-tension and take-up a HT500 belt drive. However, some adjustment must be provided when installing synchronous belt drives, as with nearly all power transmission systems, due to manufacturing and assembly tolerances and initial tensioning requirements. Table 11 on page PT12-36 lists the standard installation and take-up requirements for a given belt length. Additional center distance adjustment is needed when installing the belt over flanged sprockets (see Table 11 on page PT12-36.)

***Example***

As can be seen in the Sprocket Specifications Table on page PT12-9, both of the sprockets are flanged. Therefore, an additional allowance will be needed for installation over flanged sprockets. The total installation and tensioning allowances, are shown below.

**Installation Allowance = 0.16 in. + 1.97 in. = 2.13 in.**
**Tensioning Allowance = 0.05 in.**

Subtracting this from the nominal center distance value gives a minimum center distance necessary for belt installation of (50.10 inch -2.13 inch) = 47.97 inches. From the problem statement, the center distance can be reduced down to 47.0 in. if needed. So, there is sufficient center distance adjustment to easily install the belt.

### Step 7 Calculate Belt Tensioning Requirements

### Procedure

**A.** Calculate base static tension using Formula 14 on page PT12-35. The m value is listed in Table 10 on page PT12-34.

***Example***

Belt Pitch = 14 mm
**Belt Size = 3136-14MX, 224 teeth (123.46 in. P.L.)**
**Belt Width = 20 mm**
**DriveR Sprocket = 28 teeth (4.912 in. P.D.)**
DriveN Sprocket = 56 teeth (9.825 in. P.D.)
Actual Center Distance = 50.10 in.
Design Horsepower = 2.07 hp
Horsepower = 1.59 hp

$$Tst = \frac{20\ DHP}{S} + mS2, \text{ pounds}$$

where:
DHP = Design Horsepower = 1.59 hp

m = 0.92, constant for 14 mm pitch, 20 mm wide belt from Table 10 on page PT12-34.
S = (Sprocket Diameter) x (Shaft Speed) / 3820
= (4.912 in.) x (35 rpm) / 3820
**S = 0.05**

$$Tst = \frac{20\ (1.59)}{0.05} + (0.92)(0.05)2$$

Tst = 636.00 + 0.002 lb.

**Tst = 636.00 lb.**

# Low-Speed HT500 Belt Drive Selection Procedure

**Step 7 Calculate Belt Tensioning Requirements**

**Procedure** — continued

**B. Calculate minimum and maximum deflection forces** using Formulas 15 and 16 on page PT12-35. The Y value is listed in Table 10 on page PT12-34.

***Example***

**a. Calculate the belt span length**

$$t=\sqrt{C^2-\left(\frac{D-d}{2}\right)^2}$$

where:

t = Span Length, inches
C = Center Distance = **50.10 in.**
D = diameter of larger sprocket = **9.825 in. P.D.**
d = diameter of smaller sprocket = **4.912 in. P.D.**

$$t=\sqrt{50.10^2-\left(\frac{9.825-4.921}{2}\right)^2}$$

**t = 50.04 in.**

**b. Calculate Minimum and Maximum belt deflection forces referring to Formulas 15 and 16 on page PT12-35:**

$$\text{Min Deflection Force} = \frac{1.1\text{st} + \left(\frac{t}{L}\right)Y}{16} \text{ pounds}$$

where:

$T_{ST}$ = **636.0** pounds static tension as calculated above
t = **50.04** inches span length as calculated above
L = **123.46** inches belt length
Y = **230** (constant for Y, Table 10 on page PT12-34)

$$\text{Min Deflection Force} = \frac{1.1(636.0) + \left(\frac{50.04}{123.46}\right)(230)}{16}$$

**Min. Deflection Force = 49.5 lb.**

$$\text{Max Deflection Force} = \frac{1.2\text{Tst} + \left(\frac{t}{L}\right)Y}{16}$$

$$\text{Max Deflection Force} = \frac{1.2(636.0) + \left(\frac{50.04}{123.46}\right)(230)}{16}$$

**Min. Deflection Force = 53.5 lb.**

**C.** Determine the deflection distance using 1/64" per inch of span length.

**NOTE: Deflection forces must be applied evenly across the entire belt width.**

***Example***

$$\text{Deflection Distance} = \frac{t}{64}, \text{ inches}$$

$$\text{Deflection Distance} = \frac{50.04}{64}$$

**Deflection Distance = 0.78**

**D. Applying The Tension:**

At the center of span (t), apply a force perpendicular to the belt span large enough to deflect the belt 0.78 inch from its normal free position. Be sure that the force is applied evenly across the entire belt width. Note that one sprocket should be free to rotate during the belt tensioning process.

Compare the measured deflection force with the range of minimum to maximum deflection forces calculated previously.

1. If the measured deflection force is less than the minimum recommended deflection force, the belt should be tightened.
2. If the measured deflection force is greater than the maximum recommended deflection force, the belt should be loosened.

***Example***

When the Ore Conveyer belt drive is properly tensioned, a belt span deflection of 0.78 in. should require a deflection force within the range of 49.5 to 53.5 lb.

**Step 8 Verify Speed Reducer Overhung Load**

**Procedure**

An Overhung Load calculation verifies that the belt drive system will not overload the speed reducer shaft and bearings. The Overhung Load calculation for speed reducers varies from manufacturer to manufacturer. Please refer to speed reducer catalogs or contact the speed reducer manufacturer for further assistance.

# Low-Speed HT500 Belt Drive Selection Procedure

## Advantages of the Low-Speed Drive Design Procedure

Having read through the Low-Speed Drive Design Procedure and example, some may wonder if the extra steps required are really worth the effort. Absolutely! Using the low-speed drive design techniques for drives operating at speeds less than 500 rpm can result in a much smaller drive package at a lower cost. Outlined below is a comparison of the Low-Speed Drive Design Procedure with the traditional drive design procedure. The benefits of designing with a Low Speed Service Factor, Actual Horsepower Load, and Speed Reducer Efficiency are demonstrated. Combining these techniques can result in a substantially narrower belt drive width which saves space and reduces cost.

### Comparison 1 — Traditional Drive Design Procedure

The traditional drive design procedure is outlined on pages PT12-28 - PT12-31 and should still be used for belt drives operating at speeds greater than 500 rpm. In the past this procedure was used to select all HT500 belt drives. The new "Low-Speed Drive Design Procedure" results in belt drive systems better sized for low speed power transmission system that typically utilize speed reducers and roller chain.

Using the traditional design procedure to select the belt drive system for the Ore Conveyor example would result in a much wider belt. The traditional design procedure does not account for a low-speed service factor, the actual operating load of the motor, or speed reducer efficiency. Rather, the belt selection is based purely on the name plate horsepower rating of the motor with a standard service factor. For the Ore Conveyor example this would mean a 5 hp name plate rating and a 1.7 service factor resulting in a Design Horsepower for the belt drive of (5.00 hp) x (1.7) = 8.50 hp. This is over 4 times the Design Horsepower of 2.07 hp determined using the Low-Speed Drive Design Procedure. Referring to the Horsepower Rating Tables on pages PT12-38 - PT12-46, **a belt width of 68 mm is required for this higher 8.50 Design Horsepower Load using the Traditional Design Method compared to a belt width of only 20 mm for the 2.07 Design Horsepower Load using the Low-Speed Design Method.**

### Comparison 2 — Benefit of Low-Speed Service Factor

Using a low-speed service factor can reduce the required belt width compared to a standard service factor value. The reason for this is directly related to belt drive operating speeds. Detrimental effects such as belt tensile cord fatigue and belt wear both occur during belt drive operation, but accumulate in direct proportion to the operating speed.

Lower operating speeds result in less belt damage over time allowing the use of less severe service factors in the belt drive selection process. Service factors especially for belt drives operating at low speeds (500 rpm and less; includes many roller chain applications) are provided in Table 1—Service Factors For Low-Speed Roller Chain Drive Conversions on page PT12-19.

Referring to the Ore Conveyor Example, a low-speed service factor of 1.3 is recommended for this application. Substituting the reduced 1.3 low-speed service factor: Design Horsepower = (5.00 hp) x (1.3) = 6.50 hp. Referring to the Horsepower Rating Tables on pages PT12-38 - PT12-46, **the belt width required for 6.50 Design Horsepower is 68 mm.**

### Comparison 3—Benefit of Designing with Actual Motor Load

Typical belt drive selections are based upon motor nameplate horsepower ratings. However, industry surveys estimate that half of all U.S. motors operate at less than 60 percent of their rated load, and one third operate at below 50 percent of their rated load. So, sizing belt drives based on true operating loads can result in a more compact sized belt drive system.

Continuing with the Ore Conveyor Example, the Proportioned Amperage Rating approach was used to calculate a Motor Load of 3.00 hp. Substituting the reduced 3.00 hp motor load: Design Horsepower = (3.00 hp) x (1.3) = 3.90 hp. Referring to the Horsepower Rating Tables on pages PT12-38 - PT12-46, **the belt width required for 3.90 Design Horsepower is only 37 mm compared to the 68 mm belt width required in Comparison 2.**

Selection program available online at ptwizard.com

# Low-Speed Drive Design Information Sheet

## For Drive Selections with Shaft Speeds Less Than 500 rpm

Distributor _____

Customer: _____

Drive Identification (location, number, etc.) _____

### DriveR Information:

Motor Nameplate Data

Rated Horsepower = _____ Rated RPM = _____ Efficiency = _____

Rated Voltage = _____ Rated Amps = _____ Rated Torque = _____

Actual Motor Load = _____

Motor Type: AC ❑ DC ❑ Gear Motor ❑

Output Speed: Constant ❑ Variable ❑

### Reducer Information:

Reducer Type (worm, right angle helical, cycloidal, etc):

Reducer Efficiency = _____ Output RPM = _____ Reducer Ratio = _____

Rated Input HP/Torque = _____ Rated Output HP/Torque = _____

### Existing Drive Information:

Drive Type: Chain ❑ V-Belt ❑ Synchronous Belt ❑

If chain, type; 2/#60. #80, etc. Lubed ❑ Unlubed ❑

Current Drive Service Life = _____

DriveR Sprocket/Sheave = _____ (teeth/OD)_____ DriveR Shaft Diameter = _____

DriveN Sprocket/Sheave = _____ (teeth/OD)_____ DriveN Shaft Diameter = _____

Center Distance= _____ + _____ - _____

Type of Center Distance Adjustment: _____

Idler used: Yes ❑ No ❑ Inside ❑ Backside ❑

### DriveN Information:

Type of Equipment: _____ Actual Horsepower Required = _____

DriveN RPM = _____

Hours/Day = _____ Days/Week = _____ Weeks/Year = _____

### Special Requirements:

Space Limitations:

Maximum DriveR Dia. = _____ Maximim DriveN Dia = _____

Maximum DriveR Width = _____ Maximum DriveN Width = _____

Environmental Conditions:

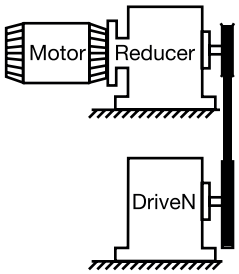
Temperature Range = _____ Belt Conductivity Required ❑

Oil Mist ❑ Oil Splash ❑ Moisture ❑ Abrasives ❑

### Drive Layout

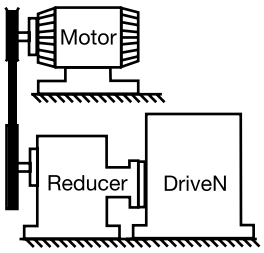
(check one)

❑ Motor Reducer Belt Drive Driven




Belt Drive on Reducer Output Shaft

❑ Motor Belt Drive Reducer Driven




Belt Drive on Reducer Imput Shaft

# High-Speed Drive Survey and Energy Savings Worksheet

## Customer Information

Company: _____ Distributor: _____

Address: _____ Phone:_____ Fax:_____

_____ E-mail: _____

## Drive Information

I.D. of Drive (location, number, etc.) _____

Description of DriveN Equipment _____

Manufacturer of DriveN Equipment _____

Horsepower rating of Motor _____ DriveN HP Load (Peak)_____

(Normal)_____

Motor Frame Size_____ Motor Shaft Dia. _____ DriveN Shaft Dia_____

Speed:

DriveR RPM_____ RPM Measured with Contact or Strobe Tachometer ❑ Yes ❑ No

DriveN RPM_____ RPM Measured with Contact or Strobe Tachometer ❑ Yes ❑ No

Speed Ratio_____ Speed Up_____or Speed Down_____

Center Distance: Minimum _____ Normal _____Maximum_____

Existing Drive Components: DriveR_____ DriveN_____

Belts_____ Belt Manufacturer_____

Ambient Conditions:

Temperature_____ Moisture_____ Oil, etc._____

Abrasives _____ Shock Load_____

Static Conductivity Required? ❑ Yes ❑ No

Maximum Sprocket Diameter (OD) and Width Limitations (for guard clearance):

DriveR: Max. OD_____Max. Width _____ DriveN: Max. OD _____ Max Width_____

Guard Description _____

Motor Mount:

Double Screw Base? ❑ Yes ❑ No Motor Mounted on Sheet Metal? ❑ Yes ❑ No

Adequate Structure? ❑ Yes ❑ No Floating/Pivot Motor Base? ❑ Yes ❑ No

Start Up Load:

Percent Motor Rating at Start Up_____ AC Inverter ❑ Yes ❑ No Soft Start? ❑ Yes ❑ No

Duty Cycle:

Number of Starts/Stops_____times per _____ (hour, day, week, etc.)

## Energy Savings Information

Energy Cost per KW-Hour_____

Hours of Operation_____ Hours per Day _____ Days per Week_____Weeks per Year_____

Selection program available online at ptwizard.com

# HT500 Design Data Worksheet

## Customer Information

Company: _____ Distributor: _____

Address: _____ Phone: _____ Fax: _____

_____ E-mail: _____

## Application Summary

General Description: _____

Product Type: _____ Production Volume: _____

## Design Parameters

DriveR:

Motor Type and Description: _____(Servo, Stepper, DC, AC, etc.) Reversing: _____(Y/N)

Nominal Motor Torque/Power Output: _____ RPM: _____

Max/Peak Motor Torque/Power Output: _____ RPM: _____

Motor Stall Torque (If applicable): _____ Driver Rotation: _____ (CW / CCW / Rev)

DriveN's/Idlers: (Specify appropriate units for each field; in, mm / hp, kw / lb-ft, lb-in, N-m, etc.)

| Description | X | Y | Pulley Diameter | Pitch | Sprocket Teeth | Inside/ Outside | rpm | Load (driveN) | Units | Conditions | | Shaft Diameter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | # | Percent Time | |
| DriveR | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

*Note: For complex drive layouts use additional pages as needed*

| Drive Sketch |
|---|
| |

| Idler Details |
|---|
| Slot Movement:<br>Spring ☐ |
| Pivoting Movement:<br>Spring ☐<br>Pivot Arm Radius: (in/mm): |

## Special Requirements

Product Design Life: _____ Belt Life: _____ Hours/Day: _____ Hours/Year: _____

Pulley Materials:

Prototype _____ Production _____

Ambient Conditions:

Temperature: _____ Moisture: _____ Oil: _____ Static Dissipation: _____ Abrasives: _____

Special Requirements:

Note: This worksheet may be used to survey multipoint drives. For more information on specifying shaft locations in multipoint drive layouts, see Engineering Section I-13 on page PT12-82 Page _____ Of _____

Selection program available online at ptwizard.com

# HT500 Drive Selection Procedure (Continued)



1. Calculate the Design Horsepower
2. Select the Belt Pitch
3. Select the Sprockets And Belt Length
4. Select the Proper Belt Width
5. Check and Specify Stock Drive Component
6. Installation and Take-up
7. Calculate Belt Tensioning Requirements

### Sample Drive Selection Problem

A gear pump is to be driven by a 30 hp normal torque electric motor with an output speed of 1160 rpm. The gear pump is to be driven at 580 rpm ±5 percent. The center distance is to be approximately 30 inches, but can be altered ±3 inches, if necessary. The motor shaft has a 2 1/8 inch O.D. and the pump shaft has a 3 inch O.D. The pump will operate 16 hours a day, five days a week. The pump sprocket is limited to a maximum of 18 inches O.D. There are no unusual drive conditions. Design using HT500.

### Step 1 Calculate The Design Horsepower

### Procedure

To calculate the design horsepower, first determine the relative severity, then select a service factor for the drive. Average hours per day of service also should be considered. Locate the power source and the driveN unit in the Service Factor Table on page PT12-33. The design hp then is determined by multiplying the rated hp (usually the nameplate rating) by the service factor determined above.

***Example***

Using the Service Factor Table, the driveR can be found in the first group. Since the pump will run 16 hours per day, follow the continuous service column down to the driveN machines group for gear pumps. The recommended Service Factor is 1.7.

Design Horsepower = (Motor Load) x (Service Factor)

= (30) x (1.7)

**Design Horsepower = 51 hp**

### Step 2 Select The Belt Pitch

### Procedure

Using the design hp and the rpm of the smaller sprocket, select the belt pitch from the Belt Pitch Selection Guide on page PT12-31.

***Example***

Design Horsepower = **51 hp**
Motor Speed = **1160 rpm**

Locate 1160 rpm on the "RPM of Faster Shaft" scale on the left side of the chart and move over to where the 51 Design Horsepower line intersects. The intersection falls within the 8 mm pitch range, but near the 14 mm pitch area. Both 8 mm and 14 mm pitch drives should be considered.

### Step 3 Select The Sprockets and Belt Length

### Procedure

**A.** Determine the speed ratio: The speed ratio can be calculated by dividing the rpm of the faster shaft by the rpm of the slower shaft.

***Example***

Motor Speed = 1160 rpm
Gear Pump Speed = 580 rpm

$$\text{Speed Ratio} = \frac{\text{rpm of faster shaft}}{\text{rpm of slower shaft}} = \frac{1160}{580} = 2.00$$

**B. Select the sprocket combination and belt length:** Referring to the Stock Drive Selection Tables on pages PT12-47 - PT12-76, find the proper set of tables for the belt pitch (8 mm or 14 mm) found in Step 2. Looking down the speed ratio column, find the value which most closely matches the belt drive speed ratio required. Reading across the selected speed ratio line, find the stock DriveR and DriveN sprocket combination available. Reading further across, locate the belt drive center distance which most closely matches the target center distance specified. The belt sizes are listed across the top of the table for each corresponding center distance.

Multiple sprocket combinations will often be available for a given speed ratio. In such cases, selection of the proper drive combination will depend on the center distance required, minimum or maximum required sprocket diameters and the recommended minimum sprocket diameter for electric motors (see Table 4 on page PT12-32).

After selecting possible sprocket combinations and center distances, record the belt length (top of column) and the length factor (bottom of column).

***Example***

Belt pitch = **8 mm and 14 mm**

Belt Drive Speed Ratio = **2.00**

Center Distance = **30.00 ± 3.00 in.**

First, refer to the 8 mm Pitch Stock Drive Selection Tables on pages PT12-47 - PT12-76. Reading down the Speed Ratio column locate 2.00 on page PT12-57. There are six various sprocket combinations within the allowable center distance range. Of these, two are closest to the desired 30 inches. These are 25 to 50 teeth, and 40 to 80 teeth sprocket combinations. The minimum sprocket diameter of 6.1 inches for a 30 hp motor at 1160 rpm (See Table 4 on page PT12-32) eliminates the 25 to 50 and 40 to 80 teeth sprocket combinations. Therefore, an 8 mm pitch drive will not be utilized for this drive system.

Now refer to the 14 mm Pitch Stock Drive Selection Tables on pages PT12-63 - PT12-76. Reading down the Speed Ratio Column locate 2.00 on page PT12-71. Several combinations are shown which will meet the 30 ± 3 inch center distance requirement. The maximum O.D. limit of 18 inches on the driveN sprocket eliminates the 56 to 112 teeth combination. The preference for a center distance close to 30 inches would favor the 40 to 80 and 28 to 56 teeth combinations. However, the 4.912 inch pitch diameter of the 28 teeth sprocket is less than the recommended minimum diameter of 6.1 inches for the electric motor. **So the 40 teeth DriveR sprocket, 80 teeth DriveN sprocket, and 2380-14MX (170 teeth) belt** combination is selected. Also note that the **Belt Length Correction Factor is 1.01 with a center distance of 30.11 inches.**

Selection program available online at ptwizard.com

# HT500 Drive Selection Procedure (Continued)

**C. Check the belt speed.** Do not exceed 6500 fpm (feet per minute) with stock sprockets. Belt Speed can be calculated using the following formula:

$$V\ (fpm) = PD\ (inches) \times \frac{Speed\ (rpm)}{3.82}$$

***Example***

14 mm Pitch Drive with 40 groove driveR:

$$V = \frac{7.018 \times 1160}{3.82} = 2131.1\ fpm$$

Calculating the belt speed for the drive system being considered shows that the belt speed does not exceed 6500 fpm and can be considered further.

### Step 4 Select The Proper Belt Width

### Procedure

**Horsepower Rating Tables are located on Pages PT12-38 - PT12-46 for standard belt pitches and stock belt widths.** The base horsepower rating is given in the upper table as a function of the speed (rpm) of the faster shaft and diameter of the small sprocket. The speed of the faster shaft is located in the left hand column. Across the top are various stock sprocket sizes. The base horsepower rating of a given sprocket, at a specific speed, is the point at which the "rpm" row and the "sprocket size" column intersect.

This base horsepower rating must be corrected for speed down speed ratios, and for the belt length selected. The following formula should be used to calculate the total drive horsepower rating:

Rated Drive Horsepower = [Rated Base Horsepower
+ Additional Horsepower for Speed Ratio]
x (Belt Length Correction Factor)

Referring to the Additional Horsepower for Speed Ratio Factor Table, select a value based upon the drive operating speed and the speed ratio. This value should be added to the base horsepower rating. Multiply the corrected rating by the applicable Belt Length Correction Factor determined in Step 3B or from the Belt Length Correction Factor Table. The drive horsepower rating must equal or exceed design horsepower.

Where there are several choices, space limitations may control the selection. In addition, the following guidelines should be considered:

1. Larger sprockets result in reduced belt width.
2. Larger sprockets yield longer drive service life.
3. Avoid drives where the belt width exceeds the smaller sprocket diameter.
4. Avoid drives where center distance is greater than 8 times the diameter of the smaller sprocket.

***Example***

Refer to the 14 mm pitch Horsepower Rating Table for 20 mm Wide belts on page PT12-42. Read down the left hand column for "RPM of Faster Shaft" and locate 1160 rpm. Read the sprocket sizes listed across the top of the table and locate the 40 teeth, 5.614 inch P.D. column. Read across the "RPM" row and down the sprocket size column until the two intersect at a **Rated Base Horsepower of 60.0 hp.**

Next, referencing the Additional Horsepower for Speed Ratio Factor Table, find the listing for a 2.00 speed ratio. An **add-on factor of 3.53 hp** is listed. Then, referencing the Belt Length Correction Factor Table, find the listing for a 2380-14MX belt. A **correction factor of 1.01** is listed.

Calculate the Corrected Horsepower Rating:
Rated Drive Horsepower =
[Rated Base Horsepower + Added HP for Speed Ratio] x
(Belt Length Correction Factor) = [60.0 hp + 3.53 hp] x (1.01)

**Rated Drive Horsepower = 64.17 hp**

The Drive Horsepower Rating of 64.17 hp exceeds the Design Horsepower target of 51 hp. So, a belt width of 20 mm is acceptable.

### Step 5 Check and Specify Stock Drive Components

### Procedure

**A. Check the sprockets selected in Steps 3 and 4 against the design requirements** using the dimensions provided in the Sprocket Specification Tables on pages PT12-6 - PT12-13. Use flange diameters when checking against maximum diameter requirements.

***Example***

From the table on page PT12-9, we find the 14MX-80S-20 driveN Sprocket has an overall flange diameter of 14.620 inches, which is less than the 18 inch maximum diameter specified.

**B. Determine the bushing size required for each sprocket and check bore sizes** by using the Sprocket Specification Tables. From the Stock Bushing tables on pages PT12-80 - PT12-85, check the bore range and keyway dimensions against the design requirements.

***Example***

Also from the sprocket data on page PT12-9 we note that the 14MX-40S-20 sprocket requires a 2517 bushing and the 14MX-80S-20 sprocket requires a 3525 bushing. In the bushing table on pages PT12-81 - PT12-83, a 2517 bushing has a bore range of 1/2 to 2-11/16 inches, which includes the 2-1/8 inch bore required for the driveR shaft. The 3525 bushing has a bore range from 1-3/16 to 3-15/16 inches, which includes the 3 inch bore required for the driveN shaft.

**C. Specify stock drive components using proper designations.**

***Example***

Stock drive components are as follows:
1 ea. 2380-14MX-20 HT500 belt
1 ea. 14MX-40S-20 driveR sprocket
1 ea. 2517 Bushing with a 2-1/8 in. bore
1 ea. 14MX-80S-20 driveN sprocket
1 ea. 3525 Bushing with a 3 in. bore



Selection program available online at ptwizard.com

# HT500 Drive Selection Procedure (Continued)



### Step 6 Installation and Takeup

### Procedure

Because of its high resistance to elongation (stretch), there is no need to re-tension and take up a HT500 belt drive. However, some adjustment must be provided when installing synchronous belt drives, as with nearly all power transmission systems, to account for manufacturing and assembly tolerances and initial tensioning requirements. Table 11 on page PT12-36 lists the standard installation and take-up requirements for a given belt length. Additional center distance adjustment is needed when installing the belt over flanged sprockets (see Table 11 on page PT12-36.)

***Example***

As can be seen in the Sprocket Specifications Table on page PT12-9, both of the sprockets are flanged. Therefore, an additional allowance will be needed for installation over flanged sprockets. The total installation and tensioning allowances, are shown below.

**Installation Allowance = 0.13 in. + 1.97 in. = 2.10 in**

**Tensioning Allowance = 0.04 in.**

Subtracting this from the nominal center distance value gives a minimum center distance necessary for belt installation of (30.11 inch -2.10 inch) = 28.10 inches. From the problem statement, the center distance can be reduced down to 27.0 in. if necessary. So, there is sufficient center distance adjustment to easily install the belt.

### Step 7 Calculate Belt Tensioning Requirements

### Procedure

**A.** Calculate base static tension using appropriate Formula 14 on page PT12-34. The m value is listed in Table 10 on page PT12-34.

***Example***

Belt Pitch = 14 mm
Belt Size = 2380-14MX, 170 teeth (93.70 in. P.L.)
Belt Width = 20 mm
DriveR Sprocket = 40 teeth (7.018 in. P.D.)
DriveR Shaft Speed = 1160 rpm
DriveN Sprocket = 80 teeth (14.036 in. P.D.)
Actual Center Distance = 30.11 in.
Design Horsepower = 51 hp

$$TST = \frac{20\ HP}{S} + mS2, \text{ pounds}$$

Where:

HP = Horsepower = 30 hp
m = 0.92, constant for 14 mm pitch, 20 mm wide belt from Table 10 on page PT12-34
S = (Sprocket Diameter) x (Shaft Speed) / 3822.76
= (7.018 in.) x (1160 rpm) / 3822.76
S = 2.13

$$TST = \frac{20\ (30)}{213} + (0.92)(2.13)2$$

TST = 281.69 + 4.17 lb.

**TST = 285.86 lb.**

**B. Calculate minimum and maximum deflection forces** using Formulas 15 and 16 on page PT12-35. The Y value is listed in Table 10.

***Example***

**a. Calculate the belt span length**

$$t = \sqrt{C^2 - \left(\frac{D-d}{2}\right)^2}$$

where:

t = Span Length, inches

C = Center Distance = 30.11 in.

D = diameter of larger sprocket = 14.036 in. P.D.

d = diameter of smaller sprocket = 7.018 in. P.D.

$$t = \sqrt{30.11^2 - \left(\frac{14.036 - 7.0181}{2}\right)^2}$$

**b. Calculate Minimum and Maximum belt deflection forces referring to Formulas 15 and 16 on page PT12-35:**

$$\text{Min Deflection Force} = \frac{1.1\text{st} + \left(\frac{t}{L}\right)Y}{16}$$

16

where:

TST = 285.86 pounds static tension as calculated before
t = 29.90 inches span length as calculated before
L = 93.70 inches belt length
Y = 230 (constant for Table 10 on page PT12-34)

$$\text{Min Deflection Force} = \frac{1.1(285.86) + \left(\frac{29.90}{93.70}\right)(230)}{16}$$

**Min. Deflection Force = 24.24 lb.**

$$\text{Max Deflection Force} = \frac{1.2\text{Tst} + \left(\frac{t}{L}\right)Y}{16}$$

$$\text{Max Deflection Force} = \frac{1.2(685.86) + \left(\frac{29.90}{93.70}\right)(230)}{16}$$

**Max. Deflection Force = 26.03 lb.**

Selection program available online at ptwizard.com

# HT500 Drive Selection Procedure (Continued)

### Step 7 Calculate Belt Tensioning Requirements

**Procedure - continued**

**C. Determine the deflection distance** using 1/64" per inch of span length.

**NOTE: Deflection forces must be applied evenly across the entire belt width.**

***Example***

$$\text{Deflection Distance} = \frac{t}{64}, \text{ inches}$$

$$\text{Deflection Distance} = \frac{29.9}{64}$$

**D. Applying The Tension:**

At the center of span (t), apply a measured force perpendicular to the belt span large enough to deflect the belt 0.47 inch from its normal free position. Be sure that the force is applied evenly across the entire belt width. Note that one sprocket should be free to rotate during the belt tensioning process.

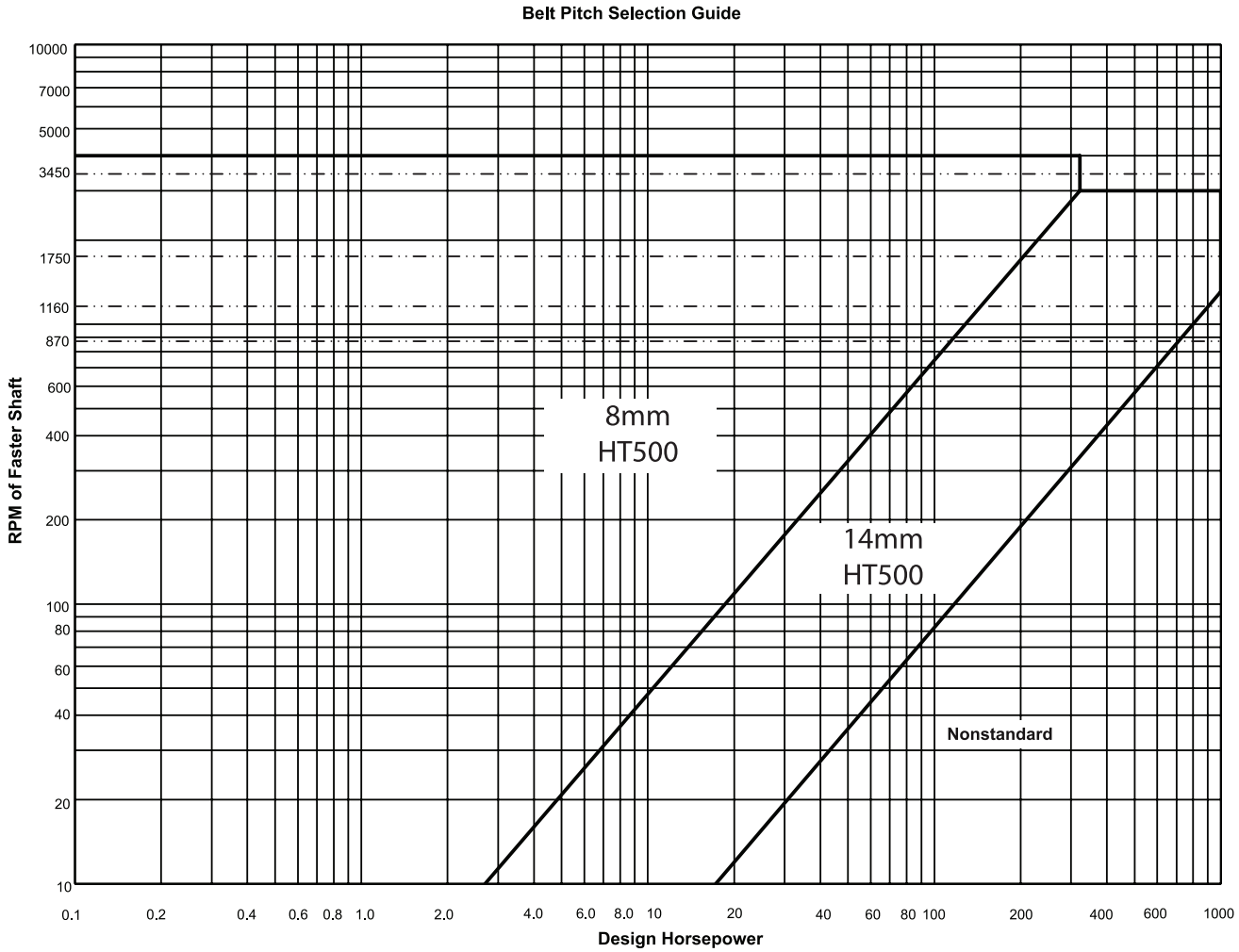
Compare the measured deflection force with the range of minimum to maximum deflection forces calculated before.

1. If the measured deflection force is less than the minimum recommended deflection force, the belt should be tightened.

2. If the measured deflection force is greater than the maximum recommended deflection force, the belt should be loosened.

***Example***

When the Gear Pump belt drive is properly tensioned, a belt span deflection of 0.47 in. should require a deflection force within the range of 22.34 to 24.12 lb.




Selection program available online at ptwizard.com

# Table 4

## Minimum Recommended Sprocket Pitch Diameters for General Purpose Electric Motors Synchronous Belt Drives

For a given motor horsepower and speed, the total belt pull is related to the motor sprocket size. As this size decreases, the total belt pull increases. Therefore, to limit the resultant load on motor shaft and bearings, NEMA lists minimum sprocket sizes for the various motors. The sprocket on the motor (DriveR sheave) should be at least as large as the diameter specified in Table No. 4.

| | Motor RPM (60 Cycle and 50 Cycle Electric Motors) | | | | | | |
|---|---|---|---|---|---|---|---|
| Motor Horsepower | 575<br>485* | 690<br>575* | 870<br>725* | 1160<br>950* | 1750<br>1425* | 3450<br>2850* | Motor Horsepower |
| 1/2 | — | — | 2.0 | — | — | — | 1/2 |
| 3/4 | — | — | 2.2 | 2.0 | — | — | 3/4 |
| 1 | 2.7 | 2.3 | 2.2 | 2.2 | 2.0 | — | 1 |
| 1-1/2 | 2.7 | 2.7 | 2.2 | 2.2 | 2.2 | 2.0 | 1-1/2 |
| 2 | 3.4 | 2.7 | 2.7 | 2.2 | 2.2 | 2.2 | 2 |
| 3 | 4.1 | 3.4 | 2.7 | 2.7 | 2.2 | 2.2 | 3 |
| 5 | 4.1 | 4.1 | 3.4 | 2.7 | 2.7 | 2.2 | 5 |
| 7-1/2 | 4.7 | 4.1 | 4.0 | 3.4 | 2.7 | 2.7 | 7-1/2 |
| 10 | 5.4 | 4.7 | 4.0 | 4.0 | 3.4 | 2.7 | 10 |
| 15 | 6.1 | 5.4 | 4.7 | 4.0 | 4.0 | 4.0 | 15 |
| 20 | 7.4 | 6.1 | 5.4 | 4.7 | 4.0 | 2.2 | 20 |
| 25 | 8.1 | 7.4 | 6.1 | 5.4 | 4.0 | 4.0 | 25 |
| 30 | 9.0 | 8.1 | 6.1 | 6.1 | 4.7 | – | 30 |
| 40 | 9.0 | 9.0 | 7.4 | 6.1 | 5.4 | – | 40 |
| 50 | 9.9 | 9.0 | 7.6 | 7.4 | 6.1 | – | 50 |
| 60 | 10.8 | 9.9 | 9.0 | 7.2 | 6.7 | – | 60 |
| 75 | 12.6 | 11.7 | 8.6 | 9.0 | 7.7 | – | 75 |
| 100 | 16.2 | 13.5 | 10.8 | 9.0 | 7.7 | – | 100 |
| 125 | 18.0 | 16.2 | 13.5 | 10.8 | 9.5# | – | 125 |
| 150 | 19.8 | 18.0 | 16.2 | 11.7 | 9.5 | – | 150 |
| 200 | 19.8 | 19.8 | 19.8 | – | 11.9 | – | 200 |
| 250 | 19.8 | 19.8 | – | – | – | – | 250 |
| 300 | 24.3 | 24.3 | – | – | – | – | 300 |

* These RPM are for 50 cycle electric motors.
# Use 8.6 for Frame Number 444 T only.

Data in the white area of Table No. 4 are from NEMA Standard MG-1-14-42, June, 1972. Data in the gray area are from MG-1-14-43, January, 1968. The teal area is a composite of electric motor manufacturers data. They are generally conservative, and specific motors and bearings may permit the use of a smaller motor sprocket. Consult the motor manufacturer.

# Selection

| DriveN Machine | DriveR | | | | | |
|---|---|---|---|---|---|---|
| The driveN machines listed below are representative samples only. Select a driveN machine whose load characteristics most closely approximate those of the machine being considered. | AC Motors: Normal Torque, Squirrel Cage, Synchronous, Split Phase, Inverter Controlled<br>DC Motors: Shunt Wound, Stepper Motors<br>Engines: Multiple Cylinder Internal Combustion. | | | AC Motors: High Torque, High Slip, Repulsion-Induction, Single Phase, Series, Wound, Slip Ring.<br>DC Motors: Series Wound, Compound, Wound, Servo Motors.<br>Engines: Single Cylinder Internal, Combustion. Line shafts Clutches | | |
| | **Intermittent Service** | **Normal Service** | **Continuous Service** | **Intermittent Service** | **Normal Service** | **Continuous Service** |
| | **Up to 8 Hours Daily or Seasonal** | **8-16 Hours Daily** | **16-24 Hours Daily** | **Up to 8 Hours Daily or Seasonal** | **8-16 Hours Daily** | **16-24 Hours Daily** |
| Display, Dispensing Equipment<br>Instrumentation<br>Measuring Equipment<br>Medical Equipment<br>Office, Projection Equipment | 1.0 | 1.2 | 1.4 | 1.2 | 1.4 | 1.6 |
| Appliances, Sweepers, Sewing Machines<br>Screens, Oven Screens, Drum, Conical<br>Woodworking Equipment: (Light)<br>Band Saws, Drills, Lathes | 1.1 | 1.3 | 1.5 | 1.3 | 1.5 | 1.7 |
| Agitators for Liquids<br>Conveyors: Belt, Light Package<br>Drill Press, Lathes, Saws<br>Laundry Machinery<br>Woodworking Equipment: (Heavy)<br>Circular Saws, Joiners, Planers | 1.2 | 1.4 | 1.6 | 1.6 | 1.8 | 2.0 |
| Agitators: Semi-liquid<br>Compressors: Centrifugal<br>Conveyor Belt: Coal, Ore, Sand<br>Dough Mixers<br>Line Shafts<br>Machine Tools: Grinder, Shaper<br>Boring Mill, Milling Machines<br>Paper Machinery (except Pulpers)<br>Presses, Punches, Shears<br>Printing Machinery<br>Pumps: Centrifugal, Gear<br>Screens: Revolving, Vibratory | 1.3 | 1.5 | 1.7 | 1.6 | 1.8 | 2.0 |
| Brick Machinery (except Pug Mills)<br>Conveyor: Apron, Pan, Bucket, Elevator<br>Extractors, Washers<br>Fans, Centrifugal Blowers<br>Generators and Exciters<br>Hoists<br>Rubber Calendar, Mills, Extruders | 1.4 | 1.6 | 1.8 | 1.8 | 2.0 | 2.2 |
| Centrifuges<br>Screw Conveyors<br>Hammer Mills<br>Paper Pulpers<br>Textile Machinery | 1.5 | 1.7 | 1.9 | 1.9 | 2.1 | 2.3 |
| Blowers: Positive Displacement<br>Mine Fans<br>Pulverizers | 1.6 | 1.8 | 2.0 | 2.0 | 2.2 | 2.4 |
| Compressors, Reciprocating<br>Crushers: Gyratory, Jaw, Roll<br>Mills: Ball, Rod, Pebble, etc.<br>Pumps, Reciprocating<br>Saw Mill Equipment | 1.7 | 1.9 | 2.1 | 2.1 | 2.3 | 2.5 |

# Selection

These tolerances are for reference only. For fixed center drive applications and special tolerances, contact Dodge Power Transmission Product Application.

**Stock Belt Center Distance Tolerences**

| Belt Length (mm) (In) | | | Center Distance Tolerance (mm) (In) |
|---|---|---|---|
| over 127 **5** | to | 254 **10** | ± 0.20 **.008** |
| over 254 **10** | to | 381 **15** | ± 0.23 **.009** |
| over 381 **15** | to | 508 **20** | ± 0.25 **.010** |
| over 508 **20** | to | 762 **30** | ± 0.30 **.012** |
| over 762 **30** | to | 1016 **40** | ± 0.33 **.013** |
| over 1016 **40** | to | 1270 **50** | ± 0.38 **.015** |
| over 1270 **50** | to | 1524 **60** | ± 0.41 **.016** |
| over 1524 **60** | to | 1778 **70** | ± 0.43 **.017** |
| over 1778 **70** | to | 2032 **80** | ± 0.46 **.018** |
| over 2032 **80** | to | 2286 **90** | ± 0.49 **.019** |
| over 2286 **90** | to | 2540 **100** | ± 0.52 **.020** |
| over 2540 **100** | to | 2794 **110** | ± 0.54 **.021** |
| over 2794 **110** | to | 3048 **120** | ± 0.56 **.022** |
| over 3048 **120** | to | 3302 **130** | ± 0.58 **.023** |
| over 3302 **130** | to | 3556 **140** | ± 0.60 **.024** |
| over 3556 **140** | to | 3810 **150** | ± 0.63 **.025** |
| over 3810 **150** | to | 4064 **160** | ± 0.66 **.026** |
| over 4064 **160** | to | 4318 **170** | ± 0.69 **.027** |
| over 4318 **170** | to | 4572 **180** | ± 0.72 **.028** |
| over 4572 **180** | | | add ± .03 **.001** for every .254 **10** increment |

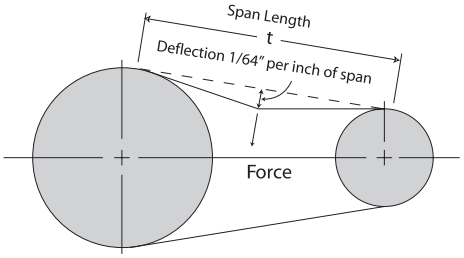
## Standard Belt Tensioning Procedure

When installing a belt:

A. Be sure it is tensioned adequately to prevent tooth jumping (ratcheting) under the most severe load conditons which the drive will encounter during operation.

B. Avoid extrernely high tension which can reduce belt life and possibly damage bearings, shafts and other drive cornponents.

The proper way to check belt tension is to use a tension tester. Dodge has a variety of tension testers, ranging from the simple spring scale type tester to the sophisticated Sonic Tension Meter. The spring scale type tester is used by measuring how much force is requirec to deflect the belt at the center of his span by a specified distance (force deflection method), as shown in the sketch below.




The Sonic Tension Meter measures the vibration of the belt span and instantly converts the vibration frequency into belt static tension (span vibration method).

When you wish to use a numerical method for calculating recommended belt installation tension values, the following procedure may be used.

STEP 1: Calculate the required base static installation tension.

Use Formula 14 to calculate the required base static installation tension.

**Formula 14**

$$T_{SI} = \frac{20HP}{S} + mS^2$$

Where $T_{SI}$ = base static installation tension. pounds
HP = Horsepower
$S = \frac{PD \times RPM}{3820}$
m = Value from table 10
PD = Sprocket Pitch Diameter, inches
RPM = Revolutions per minute of same sprocket

**Table 10**

| Pitch | Belt Width | m | Y | minimum $T_{si}$ (lb) per span |
|---|---|---|---|---|
| 8 mm | 12 mm | 0.33 | 65 | 28 |
| | 21 mm | 0.57 | 113 | 49 |
| | 36 mm | 0.97 | 194 | 84 |
| | 62 mm | 1.68 | 335 | 145 |
| 14 mm | 20 mm | 0.92 | 230 | 119 |
| | 37 mm | 1.69 | 426 | 220 |
| | 68 mm | 3.11 | 782 | 405 |
| | 90 mm | 4.12 | 1035 | 536 |
| | 125 mm | 5.72 | 1438 | 744 |

Selection program available online at ptwizard.com

# Selection

Because of the high performance capabilities of HT500 belts, it is possible to design drives that have significantly greater load than are necessary to carry the actual design load. Consequently. Formula 14 can provide $T_{st}$ values less than are necessary for the belt to operate properly, resulting in poor belt performance and reduced service life. If a more appropriately sized drive cannot be designed, minimum recommended $T_{st}$ values are provided in Table 10 to assure that the belts function properly when lightly loaded.

Always use the greater $T_{st}$ value; i.e., from $T_{st}$ Formula 14 or Table 10.

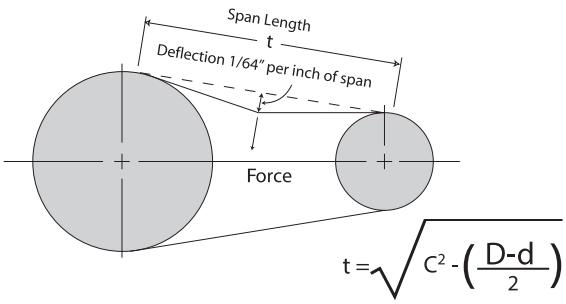
**NOTE:When applying static belt tension values directly, multiply the required base static installation tension (Tst) calculated in Formula 14 by the following factors:**

For New Belts:

Minimum Static Tension = Base Static Tension X 1.1
Maximum Static Tension = Base Static Tension X 1.2

For Used Belts:

Minimum Static Tension = Base Static Tension X 0.8
Maximum Static Tension = Base Static Tension X 0.9




### Step 2: Calculate the minimum and maximum recommended deflection forces.

A. Measure the span length of your drive (see sketch).
B. New belt minimum recommended force:

**Formula 15**

$$\text{deflection force, Min} = \frac{1.1\,T_{st} + \left(\frac{t}{L}\right) Y}{16}\text{,lb}$$

**Formula 16**

$$\text{deflection force, Max} = \frac{1.2\,T_{st} + \left(\frac{t}{L}\right) Y}{16}\text{,lb}$$

Where:

$T_{st}$ = Base Static tension, lbf
t = span length, inches
L = belt pitch length, inches
Y = constant from Table 10

USED BELT NOTE: For re-installation of a used belt, a recommended tension of 0.8 Tst to 0.9 Tst value should be used in calculating the deflection forces, instead of the 1.1 Tst to 1.2 Tst shown for new belts.

### Step 3: Applying the tension

### Force deflectlon tension method

**A.** At the center of the span (t) apply a force perpendicular to the span large enough to deflect the belt on the drive 1/64 inch per inch of span length from its normal position. One sprocket should be free to rotate. Be sure the force is applied evenly across the entire belt width. If the belt is a wide synchronous belt, place a piece of steel or angle iron across the belt width and deflect the entire width of the belt evenly.

**B.** Compare this deflection force with the range of forces calculated in Step 2.

1. If it is less than the minimum recommended deflection force, the belt should be tightened.
2. If it is greater than the maximum recommended deflection force, the belt should be loosened.

### Span vibration tension method

The Sonic Tension Meter detects the vibration frequency in the belt span, and converts that measurement into the actual static tension in the belt.

To use the Sonic Tension Meter, begin by entering the belt unit weight, belt width, and the span length. To measure the span vibration, press the "'Measure" button on the meter, tap the belt span, and hold the microphone approximately 1/4" away from the back of the belt. The Sonic Tension Meter will display the static tension, and can also display the span vibration frequency.

The belt unit weights for use with the Sonic Tension Meter are shown in the following table.

| Belt Product Family | Belt Cross section | Adjusted Belt Weight (grams/meter) |
|---|---|---|
| HT500 Belt | 8 mm | 4.7 |
| | 14 mm | 7.9 |

**Rim Speed Limits per MPTA Standard**

| Product Material | Maximum allowable RIM speed in FPM | |
|---|---|---|
| | Web / Arm Style | Block Style |
| Class 30 Gray Iron | 6500 | 7500 |
| Ductile Iron 65 | 8000 | 10000 |
| Ductile Iron 80 | 10000 | 13000 |
| Steel (1018) | 9000 | 11000 |

**(FPM=.626 x Dia. (inches) x RPM)**

NOTE: Above rim speed values are maximum for normal considerations. In some cases these values may be exceeded. Consult factory and include complete details of proposed application.

$$\text{Dynamic balance RPM for Sheave/Sprocket} \lozenge = \frac{15600}{\sqrt{\text{Dia x Face Width}}}$$

◊ Note: MPTA recommends Dynamic balance when application RPM exceeds this value

# Selection

## Center Distance Allowances for Installation and Tensioning

Since fixed center drives are not recommended, center distance allowances for a HT500 belt drive are necessary to assure that the belt can be installed without damage and then tensioned correctly. The standard installation allowance is the minimum decrease in center distance required to install a belt when flanged sprockets are removed from their shafts for belt installation. This is shown in the first column of Table 11. This table also lists the minimum increase in center distance required to assure that the belt can be properly tensioned overs its normal life time. If a belt is to be installed over flanged sprockets without removing them, the additional center distance allowance for installation shown in the second table below must be added to the first table data.

**Table 11**

**Center Distance Allowance For Installation and Tensioning**

| Belt Length (mm) (In) | Standard Installation Allowance (Flanged Sprocket removed for installation) (mm) (In) | Tension Allowance (mm) (In) |
|---|---|---|
| up to 125 **5** | 0.5 **0.02** | 0.5 **0.02** |
| over 125 **5** to 250 **10** | 0.8 **0.03** | 0.8 **0.03** |
| over 250 **10** to 500 **20** | 1.0 **0.04** | 0.8 **0.03** |
| over 500 **20** to 1000 **40** | 1.8 **0.07** | 0.8 **0.03** |
| over 1000 **40** to 1780 **70** | 2.8 **0.10** | 0.8 **0.04** |
| over 1780 **70** to 2540 **100** | 3.3 **0.13** | 1.0 **0.04** |
| over 2540 **100** to 3300 **130** | 4.1 **0.16** | 1.3 **0.05** |
| over 3300 **130** to 4600 **180** | 4.8 **0.19** | 1.3 **0.05** |
| over 4600 **60** to 6900 **70** | 5.6 **0.22** | 1.3 **0.05** |

Addtional Center Distance Allowance For Installation Over Flanged Sprockets*
(Add to Installation Allowance in table No 11)

| Pitch | One Sprocket (mm) Flanged (In) | Both Sprockets (mm) Flanged (In) |
|---|---|---|
| 8 mm | 21.8 **0.86** | 33.3 **1.31** |
| 14 mm | 31.2 **1.23** | 50.0 **1.97** |

*For drives that require installation of the belt over one sprocket at a time, use the value for “Both Sprockets Flanged”

## Drive alignment

Provision should be made for center distance adjustment, according to the two tables on this page, or to change the idler position so the belt can be slipped easily onto the drive. When installing a belt, never force it over the flange. This will cause internal damage to the belt tensile member.

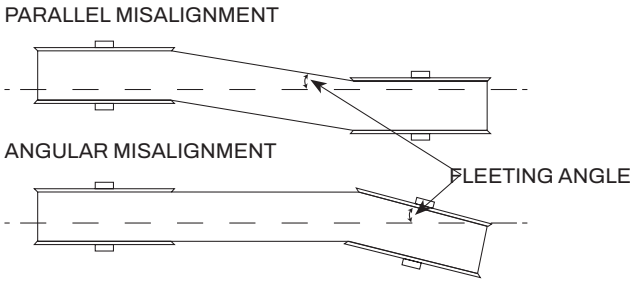
Synchronous belts typically are made with high modulus tensile members which provide length stability over the belt life. Consequently, misalignment does not allow equal load distribution across the entire belt top width. In a misaligned drive, the load is being carried by only a small portion of the belt top width, resulting in uneven belt wear and premature tensile failure.

There are two types of misalignment: parallel and angular (See Fig.7). Parallel misalignment is where the driveR and driveN shafts are parallel, but the two sprockets lie in different planes. When the two shafts are not parallel, the drive is angularly misaligned.

A fleeting angle is the angle at which the belt enters and exits the sprocket, and equals the sum of the parallel and angular misalignments.

Any degree of sprocket misalignment will result in some reduction of belt life, which is not accounted for in the normal drive design procedure. Misalignment of all synchronous belt drives should not exceed 1/4" or 1 /16" per foot of linear distance. Misalignment should be checked with a good straight edge or by using a laser alignment tool. The straight edge tool should be applied from driveR to driveN, and then from driveN to driveR so that the total effect of parallel and angular misalignment is made visible.

**Figure 7**




Drive misalignment can also cause belt tracking problems. However, light flange contact by the belt is normal and won’t affect performance.

For those drives in which the center distance is greater than eight times the small sprocket diameter, belt tracking can be a problem. In these cases, the parallel position of the two sprockets may need to be adjusted until only one flange guides the belt in the system and the belt tracks fully on all sprockets. Regardless of the drive center distance, the optimum drive performance will occur with the belt lightly contacting one flange in the system. The worst case is for the belt to contact flanges on opposite sides of the system. This traps the belt between opposite flanges and can force the belt into undesirable parallel misalignment.

Selection program available online at ptwizard.com

# Notes

# Selection

## HT500 Basic HP Ratings - 8 mm

| 8M-12 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| Small Shaft | 2.210 | 2.410 | 2.506 | 2.610 | 2.707 | 2.810 | 2.907 | 3.010 | 3.108 | 3.210 | 3.308 | 3.410 | 3.509 | 3.610 | 3.709 | 3.810 | 3.910 | 4.010 | 4.110 | 4.211 | 4.410 | 4.511 | 4.810 | 5.013 |
| 10 | 0.15 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.35 | 0.36 | 0.38 | 0.40 |
| 20 | 0.23 | 0.26 | 0.27 | 0.29 | 0.30 | 0.32 | 0.33 | 0.35 | 0.36 | 0.38 | 0.39 | 0.41 | 0.42 | 0.44 | 0.45 | 0.47 | 0.48 | 0.50 | 0.51 | 0.53 | 0.55 | 0.57 | 0.61 | 0.64 |
| 40 | 0.39 | 0.44 | 0.47 | 0.49 | 0.52 | 0.54 | 0.57 | 0.59 | 0.62 | 0.64 | 0.67 | 0.69 | 0.72 | 0.74 | 0.77 | 0.79 | 0.82 | 0.84 | 0.87 | 0.89 | 0.94 | 0.97 | 1.04 | 1.09 |
| 50 | 0.46 | 0.52 | 0.55 | 0.58 | 0.61 | 0.64 | 0.67 | 0.70 | 0.73 | 0.76 | 0.79 | 0.82 | 0.85 | 0.88 | 0.91 | 0.94 | 0.97 | 1.00 | 1.03 | 1.06 | 1.12 | 1.15 | 1.24 | 1.30 |
| 60 | 0.53 | 0.60 | 0.64 | 0.67 | 0.71 | 0.74 | 0.78 | 0.81 | 0.85 | 0.88 | 0.92 | 0.96 | 1.00 | 1.03 | 1.07 | 1.10 | 1.14 | 1.17 | 1.21 | 1.24 | 1.31 | 1.34 | 1.44 | 1.51 |
| 100 | 0.80 | 0.91 | 0.96 | 1.02 | 1.07 | 1.13 | 1.18 | 1.24 | 1.29 | 1.35 | 1.40 | 1.46 | 1.51 | 1.57 | 1.62 | 1.68 | 1.73 | 1.79 | 1.85 | 1.90 | 2.01 | 2.07 | 2.23 | 2.34 |
| 200 | 1.42 | 1.63 | 1.74 | 1.84 | 1.95 | 2.05 | 2.16 | 2.26 | 2.36 | 2.46 | 2.57 | 2.67 | 2.77 | 2.87 | 2.97 | 3.07 | 3.18 | 3.28 | 3.38 | 3.48 | 3.68 | 3.78 | 4.08 | 4.28 |
| 300 | 2.02 | 2.32 | 2.46 | 2.62 | 2.77 | 2.92 | 3.07 | 3.22 | 3.36 | 3.51 | 3.66 | 3.81 | 3.96 | 4.11 | 4.25 | 4.40 | 4.54 | 4.69 | 4.84 | 4.99 | 5.28 | 5.43 | 5.86 | 6.15 |
| 400 | 2.58 | 2.98 | 3.18 | 3.37 | 3.57 | 3.76 | 3.96 | 4.15 | 4.34 | 4.53 | 4.73 | 4.92 | 5.11 | 5.30 | 5.50 | 5.69 | 5.88 | 6.07 | 6.26 | 6.45 | 6.83 | 7.02 | 7.59 | 7.97 |
| 500 | 3.13 | 3.62 | 3.85 | 4.10 | 4.33 | 4.58 | 4.81 | 5.06 | 5.29 | 5.53 | 5.76 | 6.00 | 6.24 | 6.48 | 6.71 | 6.95 | 7.18 | 7.41 | 7.65 | 7.88 | 8.35 | 8.58 | 9.27 | 9.74 |
| 600 | 3.67 | 4.24 | 4.53 | 4.81 | 5.10 | 5.38 | 5.66 | 5.94 | 6.23 | 6.51 | 6.79 | 7.07 | 7.35 | 7.62 | 7.90 | 8.18 | 8.46 | 8.73 | 9.01 | 9.29 | 9.84 | 10.11 | 10.93 | 11.48 |
| 700 | 4.20 | 4.86 | 5.17 | 5.51 | 5.83 | 6.17 | 6.49 | 6.82 | 7.14 | 7.47 | 7.78 | 8.11 | 8.43 | 8.75 | 9.07 | 9.39 | 9.71 | 10.03 | 10.35 | 10.67 | 11.30 | 11.62 | 12.57 | 13.20 |
| 800 | 4.71 | 5.46 | 5.83 | 6.20 | 6.57 | 6.94 | 7.31 | 7.68 | 8.05 | 8.41 | 8.78 | 9.14 | 9.51 | 9.87 | 10.23 | 10.59 | 10.95 | 11.31 | 11.67 | 12.03 | 12.75 | 13.11 | 14.18 | 14.89 |
| 870 | 5.07 | 5.88 | 6.27 | 6.68 | 7.07 | 7.48 | 7.86 | 8.27 | 8.66 | 9.07 | 9.45 | 9.85 | 10.24 | 10.64 | 11.03 | 11.42 | 11.81 | 12.20 | 12.59 | 12.98 | 13.75 | 14.14 | 15.30 | 16.08 |
| 1000 | 5.72 | 6.64 | 7.10 | 7.55 | 8.01 | 8.46 | 8.92 | 9.37 | 9.82 | 10.27 | 10.72 | 11.16 | 11.61 | 12.06 | 12.51 | 12.95 | 13.39 | 13.83 | 14.27 | 14.72 | 15.60 | 16.04 | 17.35 | 18.22 |
| 1160 | 6.51 | 7.56 | 8.07 | 8.61 | 9.11 | 9.65 | 10.16 | 10.69 | 11.19 | 11.72 | 12.23 | 12.75 | 13.26 | 13.78 | 14.29 | 14.80 | 15.30 | 15.81 | 16.32 | 16.82 | 17.83 | 18.34 | 19.84 | 20.85 |
| 1200 | 6.70 | 7.79 | 8.33 | 8.87 | 9.41 | 9.95 | 10.49 | 11.02 | 11.55 | 12.08 | 12.61 | 13.14 | 13.67 | 14.20 | 14.73 | 15.25 | 15.78 | 16.30 | 16.82 | 17.35 | 18.39 | 18.91 | 20.46 | 21.49 |
| 1400 | 7.66 | 8.92 | 9.52 | 10.16 | 10.76 | 11.40 | 12.00 | 12.64 | 13.24 | 13.87 | 14.47 | 15.09 | 15.69 | 16.31 | 16.91 | 17.52 | 18.12 | 18.73 | 19.33 | 19.93 | 21.13 | 21.73 | 23.51 | 24.71 |
| 1600 | 8.60 | 10.02 | 10.73 | 11.43 | 12.14 | 12.84 | 13.54 | 14.23 | 14.93 | 15.62 | 16.31 | 17.00 | 17.69 | 18.38 | 19.07 | 19.75 | 20.43 | 21.11 | 21.79 | 22.47 | 23.83 | 24.50 | 26.52 | 27.86 |
| 1750 | 9.30 | 10.84 | 11.58 | 12.37 | 13.11 | 13.89 | 14.63 | 15.41 | 16.15 | 16.92 | 17.66 | 18.42 | 19.16 | 19.91 | 20.65 | 21.40 | 22.14 | 22.88 | 23.62 | 24.36 | 25.83 | 26.57 | 28.75 | 30.21 |
| 2000 | 10.44 | 12.18 | 13.05 | 13.91 | 14.77 | 15.63 | 16.49 | 17.35 | 18.20 | 19.05 | 19.90 | 20.75 | 21.60 | 22.44 | 23.28 | 24.12 | 24.96 | 25.79 | 26.62 | 27.45 | 29.11 | 29.94 | 32.41 | 34.04 |
| 2400 | 12.21 | 14.27 | 15.26 | 16.32 | 17.31 | 18.36 | 19.34 | 20.38 | 21.37 | 22.40 | 23.38 | 24.40 | 25.38 | 26.39 | 27.37 | 28.37 | 29.36 | 30.35 | 31.33 | 32.32 | 34.27 | 35.25 | 38.15 | 40.09 |
| 2800 | 13.94 | 16.32 | 17.50 | 18.67 | 19.85 | 21.02 | 22.19 | 23.35 | 24.51 | 25.66 | 26.82 | 27.97 | 29.12 | 30.26 | 31.40 | 32.53 | 33.67 | 34.80 | 35.93 | 37.05 | 39.30 | 40.41 | 43.74 | 45.93 |
| 3200 | 15.63 | 18.31 | 19.59 | 20.97 | 22.25 | 23.62 | 24.90 | 26.25 | 27.53 | 28.86 | 30.14 | 31.46 | 32.74 | 34.04 | 35.31 | 36.60 | 37.87 | 39.15 | 40.42 | 41.69 | 44.21 | 45.48 | 49.20 | 51.69 |
| 3500 | 16.87 | 19.78 | 21.23 | 22.67 | 24.11 | 25.54 | 26.97 | 28.39 | 29.81 | 31.22 | 32.63 | 34.03 | 35.43 | 36.82 | 38.21 | 39.60 | 40.98 | 42.36 | 43.73 | 45.09 | 47.82 | 49.17 | 53.21 | 55.85 |
| 4000 | 18.89 | 22.17 | 23.74 | 25.43 | 27.00 | 28.67 | 30.23 | 31.88 | 33.44 | 35.06 | 36.62 | 38.23 | 39.78 | 41.37 | 42.92 | 44.48 | 46.03 | 47.58 | 49.12 | 50.65 | 53.70 | 55.23 | 59.72 | 62.71 |
| 4500 | 20.85 | 24.51 | 26.32 | 28.13 | 29.93 | 31.72 | 33.50 | 35.28 | 37.05 | 38.82 | 40.57 | 42.32 | 44.06 | 45.79 | 47.52 | 49.24 | 50.95 | 52.65 | 54.34 | 56.03 | 59.40 | 61.06 | 66.03 | 49.52 |
| 5000 | 22.77 | 26.79 | 28.70 | 30.76 | 32.67 | 34.70 | 36.60 | 38.61 | 40.50 | 42.47 | 44.36 | 46.31 | 48.18 | 50.10 | 51.97 | 53.86 | 55.72 | 57.59 | 59.43 | 61.27 | 64.92 | 66.74 | 72.11 | – |
| 5500 | 24.65 | 29.01 | 31.17 | 33.33 | 35.47 | 37.61 | 39.73 | 41.85 | 43.95 | 46.04 | 48.12 | 50.19 | 52.24 | 54.29 | 56.32 | 58.35 | 60.36 | 62.37 | 64.35 | 66.32 | 70.27 | 52.70 | – | – |

| 8M-12 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to | 1.03 to | 1.06 to | 1.11 to | 1.16 to | 1.22 to | 1.31 to | 1.44 to | 1.65 to | 2.16 |
| Small Shaft | 5.314 | 5.610 | 6.015 | 6.316 | 6.420 | 6.717 | 7.118 | 7.220 | 7.519 | 8.020 | 1.02 | 1.05 | 1.10 | 1.15 | 1.21 | 1.30 | 1.43 | 1.64 | 2.15 | and over |
| 10 | 0.42 | 0.45 | 0.49 | 0.51 | 0.52 | 0.55 | 0.58 | 0.59 | 0.62 | 0.66 | – | – | – | – | – | – | – | – | – | – |
| 20 | 0.68 | 0.72 | 0.78 | 0.82 | 0.84 | 0.88 | 0.94 | 0.95 | 0.99 | 1.06 | – | – | – | – | – | – | – | – | – | – |
| 40 | 1.16 | 1.23 | 1.33 | 1.41 | 1.43 | 1.50 | 1.60 | 1.62 | 1.70 | 1.82 | – | – | – | – | – | – | – | – | – | – |
| 50 | 1.39 | 1.48 | 1.60 | 1.69 | 1.72 | 1.81 | 1.92 | 1.95 | 2.04 | 2.18 | – | – | – | – | – | – | – | – | – | – |
| 60 | 1.62 | 1.72 | 1.86 | 1.97 | 2.00 | 2.10 | 2.24 | 2.27 | 2.37 | 2.54 | – | – | – | – | – | – | – | – | – | – |
| 100 | 2.50 | 2.66 | 2.88 | 3.03 | 3.09 | 3.25 | 3.46 | 3.51 | 3.67 | 3.93 | – | – | – | – | – | – | – | – | – | – |
| 200 | 4.58 | 4.88 | 5.28 | 5.58 | 5.68 | 5.98 | 6.37 | 6.47 | 6.76 | 7.25 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.06 |
| 300 | 6.58 | 7.01 | 7.59 | 8.02 | 8.17 | 8.59 | 9.16 | 9.31 | 9.73 | 10.43 | 0.00 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 |
| 400 | 8.53 | 9.09 | 9.84 | 10.40 | 10.59 | 11.15 | 11.89 | 12.07 | 12.62 | 13.53 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 |
| 500 | 10.43 | 11.11 | 12.04 | 12.72 | 12.96 | 13.63 | 14.54 | 14.77 | 15.44 | 16.56 | 0.00 | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.08 | 0.1 | 0.11 | 0.13 |
| 600 | 12.29 | 13.11 | 14.20 | 15.02 | 15.29 | 16.09 | 17.16 | 17.43 | 18.23 | 19.55 | 0.00 | 0.02 | 0.03 | 0.05 | 0.06 | 0.08 | 0.1 | 0.11 | 0.13 | 0.14 |
| 700 | 14.14 | 15.07 | 16.33 | 17.26 | 17.58 | 18.49 | 19.73 | 20.04 | 20.95 | 22.48 | 0.00 | 0.02 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 | 0.17 |
| 800 | 15.95 | 17.01 | 18.43 | 19.50 | 19.85 | 20.89 | 22.28 | 22.63 | 23.66 | 25.38 | 0.00 | 0.02 | 0.05 | 0.07 | 0.1 | 0.12 | 0.14 | 0.17 | 0.19 | 0.21 |
| 870 | 17.23 | 18.36 | 19.89 | 21.03 | 21.42 | 22.53 | 24.04 | 24.42 | 25.53 | 27.39 | 0.00 | 0.03 | 0.05 | 0.08 | 0.11 | 0.14 | 0.17 | 0.19 | 0.22 | 0.25 |
| 1000 | 19.53 | 20.83 | 22.57 | 23.88 | 24.31 | 25.59 | 27.29 | 27.71 | 28.97 | 31.08 | 0.00 | 0.03 | 0.06 | 0.1 | 0.13 | 0.16 | 0.19 | 0.22 | 0.25 | 0.29 |
| 1160 | 22.35 | 23.82 | 25.82 | 27.30 | 27.81 | 29.25 | 31.20 | 31.70 | 33.14 | 35.56 | 0.00 | 0.04 | 0.08 | 0.12 | 0.16 | 0.2 | 0.24 | 0.28 | 0.32 | 0.36 |
| 1200 | 23.02 | 24.56 | 26.62 | 28.16 | 28.67 | 30.18 | 32.19 | 32.69 | 34.18 | 36.67 | 0.00 | 0.05 | 0.09 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.37 | 0.41 |
| 1400 | 26.49 | 28.24 | 30.60 | 32.35 | 32.96 | 34.68 | 36.99 | 37.58 | 39.29 | 42.14 | 0.00 | 0.05 | 0.1 | 0.14 | 0.19 | 0.24 | 0.29 | 0.33 | 0.38 | 0.43 |
| 1600 | 29.86 | 31.86 | 34.52 | 36.52 | 37.18 | 39.13 | 41.73 | 42.38 | 44.31 | 47.52 | 0.00 | 0.06 | 0.11 | 0.16 | 0.22 | 0.27 | 0.33 | 0.38 | 0.44 | 0.49 |
| 1750 | 32.39 | 34.53 | 37.42 | 39.57 | 40.31 | 42.40 | 45.21 | 45.93 | 48.01 | 51.49 | 0.00 | 0.06 | 0.11 | 0.17 | 0.22 | 0.28 | 0.33 | 0.39 | 0.45 | 0.5 |
| 2000 | 36.49 | 38.93 | 42.18 | 44.62 | 45.43 | 47.80 | 50.96 | 51.75 | 54.09 | 57.99 | 0.00 | 0.06 | 0.13 | 0.19 | 0.25 | 0.32 | 0.38 | 0.45 | 0.51 | 0.57 |
| 2400 | 42.97 | 45.81 | 49.62 | 52.45 | 53.43 | 56.17 | 59.88 | 60.82 | 63.53 | 68.08 | 0.00 | 0.07 | 0.14 | 0.2 | 0.28 | 0.35 | 0.42 | 0.48 | 0.55 | 0.62 |
| 2800 | 49.22 | 52.50 | 56.85 | 60.10 | 61.19 | 64.34 | 68.54 | 69.59 | 72.67 | 77.80 | 0.00 | 0.07 | 0.14 | 0.22 | 0.29 | 0.36 | 0.43 | 0.5 | 0.57 | 0.64 |
| 3200 | 55.38 | 59.02 | 63.87 | 67.48 | 68.72 | 72.18 | 76.86 | 78.05 | – | – | 0.00 | 0.08 | 0.16 | 0.24 | 0.32 | 0.4 | 0.48 | 0.56 | 0.64 | 0.72 |
| 3500 | 59.82 | 63.78 | 68.99 | 72.90 | 74.20 | 46.38 | – | – | – | – | 0.00 | 0.09 | 0.18 | 0.28 | 0.37 | 0.46 | 0.55 | 0.65 | 0.74 | 0.83 |
| 4000 | 67.13 | 71.50 | 35.72 | – | – | – | – | – | – | – | 0.00 | 0.14 | 0.28 | 0.42 | 0.56 | 0.7 | 0.84 | 0.97 | 1.11 | 1.25 |
| 4500 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.16 | 0.32 | 0.48 | 0.64 | 0.8 | 0.95 | 1.11 | 1.27 | 1.43 |
| 5000 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.24 | 0.48 | 0.72 | 0.95 | 1.19 | 1.43 | 1.67 | 1.91 | 2.15 |
| 5500 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.28 | 0.55 | 0.82 | 1.1 | 1.37 | 1.65 | 1.92 | 2.2 | 2.47 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.32 | 0.64 | 0.96 | 1.27 | 1.59 | 1.91 | 2.23 | 2.55 | 2.86 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.36 | 0.72 | 1.08 | 1.43 | 1.79 | 2.15 | 2.51 | 2.87 | 3.22 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.4 | 0.79 | 1.19 | 1.59 | 1.99 | 2.39 | 2.78 | 3.18 | 3.58 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.44 | 0.87 | 1.31 | 1.75 | 2.19 | 2.63 | 3.06 | 3.5 | 3.94 |

# Selection

## HT500 Basic HP Ratings - 8 mm

| 8M-21 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| | 2.210 | 2.410 | 2.506 | 2.610 | 2.707 | 2.810 | 2.907 | 3.010 | 3.108 | 3.210 | 3.308 | 3.410 | 3.509 | 3.610 | 3.709 | 3.810 | 3.910 | 4.010 | 4.110 | 4.211 | 4.410 | 4.511 | 4.810 | 5.013 |
| 10 | 0.26 | 0.30 | 0.32 | 0.33 | 0.35 | 0.37 | 0.38 | 0.39 | 0.40 | 0.42 | 0.44 | 0.46 | 0.47 | 0.49 | 0.50 | 0.51 | 0.53 | 0.54 | 0.56 | 0.58 | 0.61 | 0.63 | 0.67 | 0.70 |
| 20 | 0.40 | 0.46 | 0.48 | 0.51 | 0.53 | 0.56 | 0.59 | 0.61 | 0.64 | 0.67 | 0.69 | 0.72 | 0.74 | 0.77 | 0.80 | 0.82 | 0.85 | 0.88 | 0.90 | 0.92 | 0.96 | 0.99 | 1.07 | 1.12 |
| 40 | 0.68 | 0.77 | 0.81 | 0.86 | 0.90 | 0.95 | 0.99 | 1.03 | 1.08 | 1.12 | 1.16 | 1.21 | 1.25 | 1.30 | 1.34 | 1.38 | 1.43 | 1.47 | 1.51 | 1.56 | 1.65 | 1.69 | 1.82 | 1.90 |
| 50 | 0.81 | 0.91 | 0.96 | 1.02 | 1.07 | 1.12 | 1.17 | 1.23 | 1.28 | 1.33 | 1.38 | 1.44 | 1.49 | 1.54 | 1.59 | 1.65 | 1.70 | 1.75 | 1.80 | 1.86 | 1.96 | 2.01 | 2.17 | 2.28 |
| 60 | 0.93 | 1.05 | 1.11 | 1.17 | 1.23 | 1.30 | 1.36 | 1.42 | 1.48 | 1.54 | 1.61 | 1.68 | 1.74 | 1.80 | 1.86 | 1.93 | 1.99 | 2.05 | 2.11 | 2.17 | 2.29 | 2.35 | 2.52 | 2.64 |
| 100 | 1.40 | 1.59 | 1.69 | 1.79 | 1.88 | 1.98 | 2.07 | 2.17 | 2.26 | 2.36 | 2.46 | 2.56 | 2.65 | 2.75 | 2.84 | 2.94 | 3.04 | 3.13 | 3.23 | 3.33 | 3.52 | 3.62 | 3.90 | 4.09 |
| 200 | 2.49 | 2.85 | 3.04 | 3.22 | 3.40 | 3.59 | 3.77 | 3.96 | 4.13 | 4.31 | 4.49 | 4.67 | 4.85 | 5.02 | 5.20 | 5.37 | 5.56 | 5.74 | 5.92 | 6.09 | 6.44 | 6.62 | 7.14 | 7.49 |
| 300 | 3.54 | 4.06 | 4.31 | 4.59 | 4.84 | 5.11 | 5.37 | 5.64 | 5.88 | 6.14 | 6.40 | 6.67 | 6.93 | 7.19 | 7.44 | 7.70 | 7.95 | 8.21 | 8.47 | 8.73 | 9.24 | 9.50 | 10.26 | 10.77 |
| 400 | 4.52 | 5.22 | 5.56 | 5.90 | 6.24 | 6.58 | 6.92 | 7.26 | 7.60 | 7.93 | 8.27 | 8.61 | 8.94 | 9.28 | 9.62 | 9.96 | 10.29 | 10.62 | 10.96 | 11.29 | 11.95 | 12.29 | 13.28 | 13.94 |
| 500 | 5.48 | 6.34 | 6.74 | 7.18 | 7.58 | 8.02 | 8.42 | 8.86 | 9.26 | 9.68 | 10.08 | 10.50 | 10.92 | 11.34 | 11.75 | 12.16 | 12.56 | 12.97 | 13.38 | 13.79 | 14.61 | 15.02 | 16.22 | 17.04 |
| 600 | 6.42 | 7.42 | 7.92 | 8.42 | 8.92 | 9.42 | 9.91 | 10.40 | 10.89 | 11.39 | 11.88 | 12.37 | 12.85 | 13.34 | 13.83 | 14.32 | 14.80 | 15.28 | 15.76 | 16.25 | 17.22 | 17.70 | 19.13 | 20.08 |
| 700 | 7.35 | 8.51 | 9.05 | 9.64 | 10.20 | 10.80 | 11.35 | 11.94 | 12.49 | 13.07 | 13.62 | 14.19 | 14.75 | 15.31 | 15.87 | 16.43 | 16.99 | 17.55 | 18.11 | 18.67 | 19.78 | 20.34 | 22.00 | 23.11 |
| 800 | 8.24 | 9.56 | 10.20 | 10.85 | 11.50 | 12.15 | 12.79 | 13.44 | 14.08 | 14.72 | 15.36 | 16.00 | 16.63 | 17.27 | 17.90 | 18.53 | 19.16 | 19.79 | 20.42 | 21.05 | 22.31 | 22.94 | 24.82 | 26.05 |
| 870 | 8.87 | 10.29 | 10.96 | 11.69 | 12.37 | 13.09 | 13.76 | 14.47 | 15.16 | 15.87 | 16.54 | 17.24 | 17.92 | 18.62 | 19.30 | 19.99 | 20.67 | 21.35 | 22.03 | 22.71 | 24.06 | 24.75 | 26.78 | 28.13 |
| 1000 | 10.01 | 11.62 | 12.42 | 13.21 | 14.01 | 14.81 | 15.60 | 16.40 | 17.19 | 17.97 | 18.75 | 19.53 | 20.32 | 21.11 | 21.88 | 22.66 | 23.43 | 24.20 | 24.98 | 25.75 | 27.30 | 28.07 | 30.36 | 31.89 |
| 1160 | 11.39 | 13.23 | 14.12 | 15.07 | 15.95 | 16.89 | 17.77 | 18.71 | 19.59 | 20.51 | 21.40 | 22.31 | 23.20 | 24.12 | 25.00 | 25.90 | 26.78 | 27.67 | 28.56 | 29.44 | 31.20 | 32.09 | 34.72 | 36.49 |
| 1200 | 11.73 | 13.63 | 14.58 | 15.52 | 16.47 | 17.41 | 18.35 | 19.29 | 20.21 | 21.14 | 22.07 | 23.00 | 23.92 | 24.85 | 25.77 | 26.69 | 27.61 | 28.53 | 29.44 | 30.35 | 32.18 | 33.09 | 35.81 | 37.60 |
| 1400 | 13.41 | 15.61 | 16.66 | 17.78 | 18.83 | 19.95 | 21.01 | 22.12 | 23.17 | 24.27 | 25.32 | 26.41 | 27.46 | 28.54 | 29.60 | 30.66 | 31.72 | 32.78 | 33.83 | 34.88 | 36.98 | 38.03 | 41.14 | 43.24 |
| 1600 | 15.05 | 17.54 | 18.77 | 20.00 | 21.24 | 22.47 | 23.69 | 24.90 | 26.12 | 27.34 | 28.54 | 29.75 | 30.96 | 32.17 | 33.36 | 34.56 | 35.75 | 36.94 | 38.13 | 39.32 | 41.70 | 42.88 | 46.41 | 48.75 |
| 1750 | 16.28 | 18.97 | 20.26 | 21.65 | 22.94 | 24.31 | 25.60 | 26.97 | 28.26 | 29.61 | 30.90 | 32.24 | 33.52 | 34.84 | 36.14 | 37.45 | 38.74 | 40.04 | 41.34 | 42.63 | 45.20 | 46.50 | 50.31 | 52.88 |
| 2000 | 18.27 | 21.32 | 22.83 | 24.34 | 25.85 | 27.35 | 28.86 | 30.36 | 31.85 | 33.34 | 34.83 | 36.31 | 37.79 | 39.27 | 40.74 | 42.21 | 43.67 | 45.13 | 46.59 | 48.04 | 50.94 | 52.39 | 56.72 | 59.57 |
| 2400 | 21.37 | 24.97 | 26.70 | 28.56 | 30.29 | 32.13 | 33.85 | 35.67 | 37.40 | 39.20 | 40.92 | 42.70 | 44.42 | 46.18 | 47.91 | 49.65 | 51.38 | 53.11 | 54.84 | 56.55 | 59.97 | 61.70 | 66.76 | 70.16 |
| 2800 | 24.40 | 28.56 | 30.62 | 32.67 | 34.73 | 36.79 | 38.82 | 40.86 | 42.88 | 44.91 | 46.93 | 48.95 | 50.95 | 52.96 | 54.94 | 56.93 | 58.91 | 60.90 | 62.87 | 64.84 | 68.78 | 70.72 | 76.55 | 80.38 |
| 3200 | 27.35 | 32.04 | 34.29 | 36.70 | 38.94 | 41.34 | 43.58 | 45.94 | 48.17 | 50.51 | 52.74 | 55.06 | 57.29 | 59.57 | 61.80 | 64.05 | 66.28 | 68.51 | 70.74 | 72.96 | 77.37 | 79.58 | 86.10 | 90.46 |
| 3500 | 29.52 | 34.62 | 37.14 | 39.67 | 42.18 | 44.70 | 47.19 | 49.68 | 52.16 | 54.64 | 57.09 | 59.55 | 61.99 | 64.44 | 66.87 | 69.30 | 71.72 | 74.13 | 76.52 | 78.91 | 83.69 | 86.04 | 93.12 | 97.74 |
| 4000 | 33.06 | 38.80 | 41.55 | 44.50 | 47.25 | 50.17 | 52.91 | 55.79 | 58.51 | 61.36 | 64.08 | 66.90 | 69.62 | 72.40 | 75.10 | 77.84 | 80.55 | 83.27 | 85.95 | 88.64 | 93.98 | 96.65 | 104.51 | 109.73 |
| 4500 | 36.49 | 42.89 | 46.06 | 49.23 | 52.37 | 55.51 | 58.63 | 61.74 | 64.84 | 67.94 | 71.00 | 74.06 | 77.10 | 80.13 | 83.15 | 86.17 | 89.15 | 92.14 | 95.09 | 98.04 | 103.95 | 106.85 | 115.55 | 86.66 |
| 5000 | 39.85 | 46.88 | 50.23 | 53.83 | 57.17 | 60.73 | 64.06 | 67.57 | 70.87 | 74.32 | 77.63 | 81.04 | 84.32 | 87.68 | 90.95 | 94.26 | 97.52 | 100.78 | 104.00 | 107.22 | 113.61 | 116.80 | 126.19 | 94.21 |
| 5500 | 43.14 | 50.77 | 54.55 | 58.33 | 62.07 | 65.82 | 69.53 | 73.24 | 76.90 | 80.57 | 84.20 | 87.83 | 91.42 | 95.01 | 98.56 | 102.11 | 105.63 | 109.15 | 112.60 | 116.06 | 122.97 | 92.23 | – | – |

| 8M-21 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to 1.02 | 1.03 to 1.05 | 1.06 to 1.10 | 1.11 to 1.15 | 1.16 to 1.21 | 1.22 to 1.30 | 1.31 to 1.43 | 1.44 to 1.64 | 1.65 to 2.15 | 2.16 and over |
| | 5.314 | 5.610 | 6.015 | 6.316 | 6.420 | 6.717 | 7.118 | 7.220 | 7.519 | 8.020 | | | | | | | | | | |
| 10 | 0.74 | 0.79 | 0.85 | 0.89 | 0.91 | 0.96 | 1.02 | 1.03 | 1.08 | 1.16 | – | – | – | – | – | – | – | – | – | – |
| 20 | 1.19 | 1.26 | 1.37 | 1.44 | 1.47 | 1.54 | 1.64 | 1.66 | 1.73 | 1.86 | – | – | – | – | – | – | – | – | – | – |
| 40 | 2.03 | 2.15 | 2.33 | 2.46 | 2.50 | 2.63 | 2.79 | 2.84 | 2.97 | 3.19 | – | – | – | – | – | – | – | – | – | – |
| 50 | 2.43 | 2.59 | 2.80 | 2.96 | 3.01 | 3.16 | 3.36 | 3.41 | 3.56 | 3.82 | – | – | – | – | – | – | – | – | – | – |
| 60 | 2.83 | 3.01 | 3.26 | 3.44 | 3.50 | 3.68 | 3.91 | 3.97 | 4.15 | 4.45 | – | – | – | – | – | – | – | – | – | – |
| 100 | 4.38 | 4.66 | 5.03 | 5.31 | 5.41 | 5.68 | 6.05 | 6.14 | 6.42 | 6.88 | – | – | – | – | – | – | – | – | – | – |
| 200 | 8.02 | 8.54 | 9.24 | 9.77 | 9.94 | 10.46 | 11.15 | 11.32 | 11.83 | 12.69 | 0.00 | 0.01 | 0.02 | 0.04 | 0.05 | 0.06 | 0.07 | 0.09 | 0.1 | 0.11 |
| 300 | 11.52 | 12.27 | 13.28 | 14.04 | 14.30 | 15.04 | 16.04 | 16.29 | 17.03 | 18.25 | 0.00 | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.08 | 0.1 | 0.11 | 0.13 |
| 400 | 14.92 | 15.91 | 17.22 | 18.20 | 18.53 | 19.50 | 20.80 | 21.12 | 22.08 | 23.68 | 0.00 | 0.02 | 0.03 | 0.05 | 0.07 | 0.08 | 0.1 | 0.11 | 0.13 | 0.15 |
| 500 | 18.25 | 19.44 | 21.06 | 22.26 | 22.68 | 23.86 | 25.44 | 25.85 | 27.02 | 28.98 | 0.00 | 0.02 | 0.05 | 0.07 | 0.1 | 0.12 | 0.15 | 0.17 | 0.19 | 0.22 |
| 600 | 21.51 | 22.94 | 24.85 | 26.28 | 26.76 | 28.16 | 30.03 | 30.50 | 31.89 | 34.21 | 0.00 | 0.03 | 0.06 | 0.08 | 0.11 | 0.14 | 0.17 | 0.19 | 0.22 | 0.25 |
| 700 | 24.75 | 26.37 | 28.57 | 30.20 | 30.77 | 32.36 | 34.52 | 35.07 | 36.67 | 39.34 | 0.00 | 0.03 | 0.06 | 0.1 | 0.13 | 0.16 | 0.19 | 0.23 | 0.26 | 0.29 |
| 800 | 27.91 | 29.77 | 32.25 | 34.12 | 34.74 | 36.56 | 38.99 | 39.60 | 41.41 | 44.42 | 0.00 | 0.04 | 0.08 | 0.13 | 0.17 | 0.21 | 0.25 | 0.29 | 0.33 | 0.38 |
| 870 | 30.15 | 32.13 | 34.81 | 36.80 | 37.49 | 39.43 | 42.07 | 42.74 | 44.68 | 47.93 | 0.00 | 0.05 | 0.1 | 0.15 | 0.19 | 0.24 | 0.29 | 0.34 | 0.39 | 0.44 |
| 1000 | 34.17 | 36.45 | 39.50 | 41.78 | 42.54 | 44.77 | 47.75 | 48.49 | 50.70 | 54.39 | 0.00 | 0.06 | 0.11 | 0.17 | 0.22 | 0.28 | 0.33 | 0.39 | 0.45 | 0.5 |
| 1160 | 39.10 | 41.69 | 45.18 | 47.77 | 48.67 | 51.20 | 54.61 | 55.48 | 58.00 | 62.23 | 0.00 | 0.07 | 0.14 | 0.21 | 0.28 | 0.35 | 0.42 | 0.49 | 0.56 | 0.63 |
| 1200 | 40.29 | 42.98 | 46.58 | 49.27 | 50.17 | 52.81 | 56.33 | 57.21 | 59.82 | 64.17 | 0.00 | 0.08 | 0.16 | 0.24 | 0.32 | 0.4 | 0.48 | 0.56 | 0.64 | 0.72 |
| 1400 | 46.35 | 49.42 | 53.55 | 56.62 | 57.68 | 60.68 | 64.74 | 65.77 | 68.75 | 73.75 | 0.00 | 0.08 | 0.17 | 0.25 | 0.33 | 0.42 | 0.5 | 0.58 | 0.67 | 0.75 |
| 1600 | 52.25 | 55.76 | 60.41 | 63.90 | 65.07 | 68.48 | 73.03 | 74.17 | 77.54 | 83.16 | 0.00 | 0.1 | 0.19 | 0.29 | 0.38 | 0.48 | 0.58 | 0.67 | 0.77 | 0.86 |
| 1750 | 56.68 | 60.43 | 65.49 | 69.24 | 70.54 | 74.19 | 79.12 | 80.38 | 84.02 | 90.11 | 0.00 | 0.1 | 0.19 | 0.29 | 0.39 | 0.49 | 0.58 | 0.68 | 0.78 | 0.88 |
| 2000 | 63.85 | 68.13 | 73.82 | 78.08 | 79.50 | 83.65 | 89.18 | 90.56 | 94.66 | 101.48 | 0.00 | 0.11 | 0.22 | 0.33 | 0.45 | 0.56 | 0.67 | 0.78 | 0.89 | 1 |
| 2400 | 75.20 | 80.17 | 86.84 | 91.79 | 93.50 | 98.31 | 104.79 | 106.44 | 111.19 | 119.14 | 0.00 | 0.12 | 0.24 | 0.36 | 0.48 | 0.61 | 0.73 | 0.85 | 0.97 | 1.09 |
| 2800 | 86.13 | 91.88 | 99.48 | 105.18 | 107.08 | 112.60 | 119.95 | 121.78 | 127.17 | 136.15 | 0.00 | 0.13 | 0.25 | 0.38 | 0.5 | 0.63 | 0.75 | 0.88 | 1 | 1.13 |
| 3200 | 96.92 | 103.29 | 111.78 | 118.08 | 120.26 | 126.32 | 134.51 | 136.59 | – | – | 0.00 | 0.14 | 0.28 | 0.42 | 0.56 | 0.7 | 0.84 | 0.97 | 1.11 | 1.25 |
| 3500 | 104.68 | 111.62 | 120.73 | 127.57 | 129.85 | – | – | – | – | – | 0.00 | 0.16 | 0.32 | 0.49 | 0.65 | 0.81 | 0.97 | 1.13 | 1.29 | 1.45 |
| 4000 | 117.49 | 125.13 | – | – | – | – | – | – | – | – | 0.00 | 0.24 | 0.49 | 0.73 | 0.97 | 1.22 | 1.46 | 1.71 | 1.95 | 2.19 |
| 4500 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.28 | 0.56 | 0.84 | 1.11 | 1.39 | 1.67 | 1.95 | 2.23 | 2.51 |
| 5000 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.42 | 0.83 | 1.25 | 1.67 | 2.09 | 2.51 | 2.92 | 3.34 | 3.76 |
| 5500 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.48 | 0.96 | 1.44 | 1.92 | 2.4 | 2.88 | 3.36 | 3.84 | 4.32 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.56 | 1.11 | 1.67 | 2.23 | 2.79 | 3.34 | 3.9 | 4.46 | 5.01 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.63 | 1.25 | 1.88 | 2.51 | 3.13 | 3.76 | 4.39 | 5.01 | 5.64 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.7 | 1.39 | 2.09 | 2.78 | 3.48 | 4.18 | 4.87 | 5.57 | 6.27 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.77 | 1.53 | 2.3 | 3.06 | 3.83 | 4.6 | 5.36 | 6.13 | 6.89 |

# Selection

## HT500 Basic HP Ratings - 8 mm

| 8M-36 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| Small Shaft | 2.210 | 2.410 | 2.506 | 2.610 | 2.707 | 2.810 | 2.907 | 3.010 | 3.108 | 3.210 | 3.308 | 3.410 | 3.509 | 3.610 | 3.709 | 3.810 | 3.910 | 4.010 | 4.110 | 4.211 | 4.410 | 4.511 | 4.810 | 5.013 |
| 10 | 0.45 | 0.51 | 0.54 | 0.57 | 0.60 | 0.63 | 0.65 | 0.66 | 0.69 | 0.72 | 0.75 | 0.78 | 0.81 | 0.84 | 0.86 | 0.87 | 0.90 | 0.93 | 0.96 | 0.99 | 1.05 | 1.07 | 1.14 | 1.19 |
| 20 | 0.69 | 0.78 | 0.82 | 0.87 | 0.91 | 0.96 | 1.00 | 1.05 | 1.09 | 1.14 | 1.18 | 1.23 | 1.27 | 1.32 | 1.36 | 1.41 | 1.45 | 1.50 | 1.54 | 1.58 | 1.65 | 1.70 | 1.83 | 1.91 |
| 40 | 1.17 | 1.32 | 1.40 | 1.47 | 1.55 | 1.62 | 1.70 | 1.77 | 1.85 | 1.92 | 2.00 | 2.07 | 2.15 | 2.22 | 2.30 | 2.37 | 2.45 | 2.52 | 2.60 | 2.67 | 2.82 | 2.90 | 3.12 | 3.26 |
| 50 | 1.38 | 1.56 | 1.65 | 1.74 | 1.83 | 1.92 | 2.01 | 2.10 | 2.19 | 2.28 | 2.37 | 2.46 | 2.55 | 2.64 | 2.73 | 2.82 | 2.91 | 3.00 | 3.09 | 3.18 | 3.36 | 3.45 | 3.72 | 3.90 |
| 60 | 1.59 | 1.80 | 1.91 | 2.01 | 2.12 | 2.22 | 2.33 | 2.43 | 2.54 | 2.64 | 2.76 | 2.88 | 2.99 | 3.09 | 3.20 | 3.30 | 3.41 | 3.51 | 3.62 | 3.72 | 3.93 | 4.03 | 4.32 | 4.53 |
| 100 | 2.40 | 2.73 | 2.89 | 3.06 | 3.22 | 3.39 | 3.55 | 3.72 | 3.88 | 4.05 | 4.21 | 4.38 | 4.54 | 4.71 | 4.87 | 5.04 | 5.20 | 5.37 | 5.54 | 5.70 | 6.03 | 6.20 | 6.69 | 7.02 |
| 200 | 4.26 | 4.89 | 5.21 | 5.52 | 5.84 | 6.15 | 6.47 | 6.78 | 7.08 | 7.38 | 7.70 | 8.01 | 8.31 | 8.61 | 8.91 | 9.21 | 9.53 | 9.84 | 10.14 | 10.44 | 11.04 | 11.34 | 12.24 | 12.84 |
| 300 | 6.06 | 6.96 | 7.39 | 7.86 | 8.30 | 8.76 | 9.20 | 9.66 | 10.09 | 10.53 | 10.97 | 11.43 | 11.88 | 12.33 | 12.76 | 13.20 | 13.63 | 14.07 | 14.51 | 14.96 | 15.84 | 16.28 | 17.58 | 18.45 |
| 400 | 7.74 | 8.94 | 9.53 | 10.11 | 10.70 | 11.28 | 11.87 | 12.45 | 13.02 | 13.59 | 14.18 | 14.76 | 15.33 | 15.90 | 16.49 | 17.07 | 17.64 | 18.21 | 18.78 | 19.35 | 20.49 | 21.06 | 22.77 | 23.90 |
| 500 | 9.39 | 10.86 | 11.55 | 12.30 | 13.00 | 13.74 | 14.44 | 15.18 | 15.87 | 16.59 | 17.28 | 18.00 | 18.71 | 19.44 | 20.14 | 20.85 | 21.54 | 22.23 | 22.94 | 23.65 | 25.05 | 25.75 | 27.81 | 29.21 |
| 600 | 11.01 | 12.72 | 13.58 | 14.43 | 15.29 | 16.14 | 16.98 | 17.82 | 18.68 | 19.53 | 20.37 | 21.21 | 22.04 | 22.86 | 23.70 | 24.54 | 25.37 | 26.19 | 27.02 | 27.86 | 29.52 | 30.34 | 32.79 | 34.43 |
| 700 | 12.60 | 14.58 | 15.52 | 16.53 | 17.49 | 18.51 | 19.46 | 20.46 | 21.41 | 22.41 | 23.35 | 24.33 | 25.28 | 26.25 | 27.20 | 28.17 | 29.13 | 30.09 | 31.05 | 32.00 | 33.90 | 34.87 | 37.71 | 39.61 |
| 800 | 14.13 | 16.38 | 17.49 | 18.60 | 19.71 | 20.82 | 21.93 | 23.04 | 24.14 | 25.23 | 26.33 | 27.42 | 28.52 | 29.61 | 30.69 | 31.77 | 32.85 | 33.93 | 35.01 | 36.09 | 38.25 | 39.32 | 42.54 | 44.66 |
| 870 | 15.21 | 17.64 | 18.80 | 20.04 | 21.20 | 22.44 | 23.59 | 24.81 | 25.98 | 27.21 | 28.36 | 29.55 | 30.72 | 31.92 | 33.08 | 34.26 | 35.43 | 36.60 | 37.77 | 38.93 | 41.25 | 42.43 | 45.90 | 48.23 |
| 1000 | 17.16 | 19.92 | 21.29 | 22.65 | 24.02 | 25.38 | 26.75 | 28.11 | 29.46 | 30.81 | 32.15 | 33.48 | 34.83 | 36.18 | 37.52 | 38.85 | 40.17 | 41.49 | 42.82 | 44.15 | 46.80 | 48.11 | 52.05 | 54.66 |
| 1160 | 19.53 | 22.68 | 24.20 | 25.83 | 27.34 | 28.95 | 30.47 | 32.07 | 33.58 | 35.16 | 36.68 | 38.25 | 39.78 | 41.34 | 42.86 | 44.40 | 45.91 | 47.43 | 48.95 | 50.47 | 53.49 | 55.02 | 59.52 | 62.55 |
| 1200 | 20.10 | 23.37 | 24.99 | 26.61 | 28.23 | 29.85 | 31.46 | 33.06 | 34.65 | 36.24 | 37.83 | 39.42 | 41.01 | 42.60 | 44.18 | 45.75 | 47.33 | 48.90 | 50.47 | 52.04 | 55.17 | 56.72 | 61.38 | 64.46 |
| 1400 | 22.98 | 26.76 | 28.55 | 30.48 | 32.28 | 34.20 | 36.01 | 37.92 | 39.73 | 41.61 | 43.41 | 45.27 | 47.08 | 48.93 | 50.73 | 52.56 | 54.37 | 56.19 | 58.00 | 59.80 | 63.39 | 65.20 | 70.53 | 74.13 |
| 1600 | 25.80 | 30.06 | 32.18 | 34.29 | 36.41 | 38.52 | 40.61 | 42.69 | 44.78 | 46.86 | 48.93 | 51.00 | 53.07 | 55.14 | 57.20 | 59.25 | 61.29 | 63.33 | 65.37 | 67.41 | 71.49 | 73.51 | 79.56 | 83.57 |
| 1750 | 27.90 | 32.52 | 34.73 | 37.11 | 39.32 | 41.67 | 43.89 | 46.23 | 48.45 | 50.76 | 52.97 | 55.26 | 57.47 | 59.73 | 61.95 | 64.20 | 66.42 | 68.64 | 70.86 | 73.08 | 77.49 | 79.71 | 86.25 | 90.64 |
| 2000 | 31.32 | 36.54 | 39.14 | 41.73 | 44.31 | 46.89 | 49.47 | 52.05 | 54.60 | 57.15 | 59.70 | 62.25 | 64.79 | 67.32 | 69.84 | 72.36 | 74.87 | 77.37 | 79.86 | 82.35 | 87.33 | 89.81 | 97.23 | 102.12 |
| 2400 | 36.63 | 42.81 | 45.77 | 48.96 | 51.92 | 55.08 | 58.03 | 61.14 | 64.11 | 67.20 | 70.15 | 73.20 | 76.15 | 79.17 | 82.12 | 85.11 | 88.08 | 91.05 | 94.00 | 96.95 | 102.81 | 105.76 | 114.45 | 120.27 |
| 2800 | 41.82 | 48.96 | 52.49 | 56.01 | 59.54 | 63.06 | 66.56 | 70.05 | 73.52 | 76.98 | 80.45 | 83.91 | 87.35 | 90.78 | 94.19 | 97.59 | 101.00 | 104.40 | 107.78 | 111.15 | 117.90 | 121.23 | 131.22 | 137.79 |
| 3200 | 46.89 | 54.93 | 58.78 | 62.91 | 66.76 | 70.86 | 74.70 | 78.75 | 82.58 | 86.58 | 90.42 | 94.38 | 98.21 | 102.12 | 105.94 | 109.80 | 113.62 | 117.45 | 121.26 | 125.07 | 132.63 | 136.43 | 147.60 | 155.07 |
| 3500 | 50.61 | 59.34 | 63.68 | 68.01 | 72.32 | 76.62 | 80.90 | 85.17 | 89.42 | 93.66 | 97.88 | 102.09 | 106.28 | 110.46 | 114.63 | 118.80 | 122.94 | 127.08 | 131.18 | 135.27 | 143.46 | 147.50 | 159.63 | 167.56 |
| 4000 | 56.67 | 66.51 | 71.22 | 76.29 | 81.00 | 86.01 | 90.70 | 95.64 | 100.31 | 105.18 | 109.86 | 114.69 | 119.35 | 124.11 | 128.75 | 133.44 | 138.09 | 142.74 | 147.35 | 151.95 | 161.10 | 165.68 | 179.16 | 188.12 |
| 4500 | 62.55 | 73.53 | 78.96 | 84.39 | 89.78 | 95.16 | 100.50 | 105.84 | 111.15 | 116.46 | 121.71 | 126.96 | 132.17 | 137.37 | 142.55 | 147.72 | 152.84 | 157.95 | 163.01 | 168.08 | 178.20 | 183.17 | 198.09 | 148.57 |
| 5000 | 68.31 | 80.37 | 86.11 | 92.28 | 98.01 | 104.10 | 109.81 | 115.83 | 121.50 | 127.41 | 133.08 | 138.93 | 144.55 | 150.30 | 155.91 | 161.58 | 167.17 | 172.77 | 178.29 | 183.80 | 194.76 | 200.23 | 216.33 | – |
| 5500 | 73.95 | 87.03 | 93.51 | 99.99 | 106.41 | 112.83 | 119.19 | 125.55 | 131.84 | 138.12 | 144.35 | 150.57 | 156.72 | 162.87 | 168.96 | 175.05 | 181.08 | 187.11 | 193.04 | 198.96 | 210.81 | 158.11 | – | – |

| 8M-36 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to | 1.03 to | 1.06 to | 1.11 to | 1.16 to | 1.22 to | 1.31 to | 1.44 to | 1.65 to | 2.16 |
| Small Shaft | 5.314 | 5.610 | 6.015 | 6.316 | 6.420 | 6.717 | 7.118 | 7.220 | 7.519 | 8.020 | 1.02 | 1.05 | 1.10 | 1.15 | 1.21 | 1.30 | 1.43 | 1.64 | 2.15 | and over |
| 10 | 1.27 | 1.35 | 1.46 | 1.53 | 1.56 | 1.64 | 1.74 | 1.77 | 1.85 | 1.98 | – | – | – | – | – | – | – | – | – | – |
| 20 | 2.04 | 2.16 | 2.34 | 2.47 | 2.52 | 2.64 | 2.81 | 2.85 | 2.97 | 3.18 | – | – | – | – | – | – | – | – | – | – |
| 40 | 3.48 | 3.69 | 3.99 | 4.22 | 4.29 | 4.50 | 4.79 | 4.86 | 5.09 | 5.46 | – | – | – | – | – | – | – | – | – | – |
| 50 | 4.17 | 4.44 | 4.80 | 5.07 | 5.16 | 5.42 | 5.76 | 5.85 | 6.11 | 6.54 | – | – | – | – | – | – | – | – | – | – |
| 60 | 4.85 | 5.16 | 5.58 | 5.90 | 6.00 | 6.30 | 6.71 | 6.81 | 7.11 | 7.62 | – | – | – | – | – | – | – | – | – | – |
| 100 | 7.50 | 7.98 | 8.63 | 9.10 | 9.27 | 9.74 | 10.37 | 10.53 | 11.00 | 11.79 | – | – | – | – | – | – | – | – | – | – |
| 200 | 13.74 | 14.64 | 15.84 | 16.74 | 17.04 | 17.93 | 19.11 | 19.41 | 20.29 | 21.75 | 0.00 | 0.02 | 0.04 | 0.06 | 0.08 | 0.11 | 0.13 | 0.15 | 0.17 | 0.19 |
| 300 | 19.75 | 21.03 | 22.77 | 24.06 | 24.51 | 25.78 | 27.49 | 27.93 | 29.19 | 31.29 | 0.00 | 0.02 | 0.05 | 0.07 | 0.1 | 0.12 | 0.14 | 0.17 | 0.19 | 0.21 |
| 400 | 25.58 | 27.27 | 29.52 | 31.21 | 31.77 | 33.44 | 35.66 | 36.21 | 37.85 | 40.59 | 0.00 | 0.03 | 0.06 | 0.08 | 0.11 | 0.14 | 0.17 | 0.2 | 0.22 | 0.25 |
| 500 | 31.28 | 33.33 | 36.11 | 38.17 | 38.88 | 40.90 | 43.62 | 44.31 | 46.32 | 49.68 | 0.00 | 0.04 | 0.08 | 0.13 | 0.17 | 0.21 | 0.25 | 0.29 | 0.33 | 0.38 |
| 600 | 36.88 | 39.33 | 42.60 | 45.05 | 45.87 | 48.28 | 51.49 | 52.29 | 54.68 | 58.65 | 0.00 | 0.05 | 0.1 | 0.14 | 0.19 | 0.24 | 0.29 | 0.33 | 0.38 | 0.43 |
| 700 | 42.43 | 45.21 | 48.98 | 51.77 | 52.74 | 55.48 | 59.18 | 60.12 | 62.86 | 67.44 | 0.00 | 0.06 | 0.11 | 0.17 | 0.22 | 0.28 | 0.33 | 0.39 | 0.45 | 0.5 |
| 800 | 47.85 | 51.03 | 55.29 | 58.49 | 59.55 | 62.68 | 66.85 | 67.89 | 70.98 | 76.14 | 0.00 | 0.07 | 0.14 | 0.22 | 0.29 | 0.36 | 0.43 | 0.5 | 0.57 | 0.64 |
| 870 | 51.68 | 55.08 | 59.67 | 63.08 | 64.26 | 67.60 | 72.11 | 73.26 | 76.59 | 82.17 | 0.00 | 0.08 | 0.17 | 0.25 | 0.33 | 0.42 | 0.5 | 0.58 | 0.67 | 0.75 |
| 1000 | 58.58 | 62.49 | 67.71 | 71.63 | 72.93 | 76.76 | 81.86 | 83.13 | 86.92 | 93.24 | 0.00 | 0.1 | 0.19 | 0.29 | 0.38 | 0.48 | 0.57 | 0.67 | 0.76 | 0.86 |
| 1160 | 67.04 | 71.46 | 77.45 | 81.89 | 83.43 | 87.76 | 93.61 | 95.10 | 99.43 | 106.68 | 0.00 | 0.12 | 0.24 | 0.36 | 0.48 | 0.6 | 0.72 | 0.84 | 0.96 | 1.07 |
| 1200 | 69.07 | 73.68 | 79.85 | 84.47 | 86.01 | 90.53 | 96.56 | 98.07 | 102.55 | 110.01 | 0.00 | 0.14 | 0.27 | 0.41 | 0.55 | 0.69 | 0.82 | 0.96 | 1.1 | 1.24 |
| 1400 | 79.46 | 84.72 | 91.81 | 97.06 | 98.88 | 104.03 | 110.97 | 112.74 | 117.86 | 126.42 | 0.00 | 0.14 | 0.29 | 0.43 | 0.57 | 0.72 | 0.86 | 1 | 1.15 | 1.29 |
| 1600 | 89.57 | 95.58 | 103.56 | 109.55 | 111.54 | 117.39 | 125.19 | 127.14 | 132.92 | 142.56 | 0.00 | 0.17 | 0.33 | 0.49 | 0.66 | 0.82 | 0.99 | 1.15 | 1.32 | 1.48 |
| 1750 | 97.16 | 103.59 | 112.27 | 118.71 | 120.93 | 127.19 | 135.64 | 137.79 | 144.03 | 154.47 | 0.00 | 0.17 | 0.33 | 0.5 | 0.67 | 0.84 | 1 | 1.17 | 1.34 | 1.5 |
| 2000 | 109.46 | 116.79 | 126.54 | 133.85 | 136.29 | 143.40 | 152.88 | 155.25 | 162.27 | 173.97 | 0.00 | 0.19 | 0.38 | 0.57 | 0.76 | 0.95 | 1.15 | 1.34 | 1.53 | 1.72 |
| 2400 | 128.91 | 137.43 | 148.87 | 157.36 | 160.29 | 168.52 | 179.64 | 182.46 | 190.60 | 204.24 | 0.00 | 0.21 | 0.41 | 0.62 | 0.83 | 1.04 | 1.25 | 1.45 | 1.66 | 1.87 |
| 2800 | 147.65 | 157.50 | 170.54 | 180.31 | 183.57 | 193.02 | 205.62 | 208.77 | 218.01 | 233.40 | 0.00 | 0.22 | 0.43 | 0.65 | 0.86 | 1.07 | 1.29 | 1.5 | 1.72 | 1.93 |
| 3200 | 166.14 | 177.06 | 191.62 | 202.43 | 206.16 | 216.55 | 230.59 | 234.15 | – | – | 0.00 | 0.24 | 0.48 | 0.72 | 0.95 | 1.19 | 1.43 | 1.67 | 1.91 | 2.15 |
| 3500 | 179.45 | 191.34 | 206.97 | 218.69 | 222.60 | – | – | – | – | – | 0.00 | 0.28 | 0.55 | 0.83 | 1.11 | 1.38 | 1.66 | 1.94 | 2.22 | 2.49 |
| 4000 | 201.40 | 214.50 | – | – | – | – | – | – | – | – | 0.00 | 0.42 | 0.83 | 1.25 | 1.67 | 2.09 | 2.51 | 2.92 | 3.34 | 3.76 |
| 4500 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.48 | 0.95 | 1.43 | 1.91 | 2.39 | 2.86 | 3.34 | 3.82 | 4.3 |
| 5000 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.72 | 1.43 | 2.15 | 2.86 | 3.58 | 4.3 | 5.01 | 5.73 | 6.44 |
| 5500 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.83 | 1.65 | 2.47 | 3.29 | 4.12 | 4.94 | 5.76 | 6.59 | 7.41 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.96 | 1.91 | 2.87 | 3.82 | 4.77 | 5.73 | 6.68 | 7.64 | 8.59 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.08 | 2.15 | 3.23 | 4.3 | 5.37 | 6.45 | 7.52 | 8.6 | 9.67 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 11.2 | 2.38 | 3.58 | 4.77 | 5.97 | 7.16 | 8.35 | 9.55 | 10.7 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.32 | 2.62 | 3.94 | 5.25 | 6.56 | 7.88 | 9.19 | 10.5 | 11.8 |

# Selection

## HT500 Basic HP Ratings - 8 mm

| 8M-62 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| Small Shaft | 2.210 | 2.410 | 2.506 | 2.610 | 2.707 | 2.810 | 2.907 | 3.010 | 3.108 | 3.210 | 3.308 | 3.410 | 3.509 | 3.610 | 3.709 | 3.810 | 3.910 | 4.010 | 4.110 | 4.211 | 4.410 | 4.511 | 4.810 | 5.013 |
| 10 | 0.78 | 0.88 | 0.93 | 0.98 | 1.03 | 1.09 | 1.11 | 1.14 | 1.19 | 1.24 | 1.29 | 1.34 | 1.40 | 1.45 | 1.47 | 1.50 | 1.55 | 1.60 | 1.65 | 1.71 | 1.81 | 1.85 | 1.96 | 2.05 |
| 20 | 1.19 | 1.34 | 1.42 | 1.50 | 1.57 | 1.65 | 1.73 | 1.81 | 1.88 | 1.96 | 2.04 | 2.12 | 2.20 | 2.27 | 2.35 | 2.43 | 2.51 | 2.58 | 2.65 | 2.71 | 2.84 | 2.92 | 3.15 | 3.30 |
| 40 | 2.02 | 2.27 | 2.40 | 2.53 | 2.66 | 2.79 | 2.92 | 3.05 | 3.18 | 3.31 | 3.44 | 3.57 | 3.69 | 3.82 | 3.95 | 4.08 | 4.21 | 4.34 | 4.47 | 4.60 | 4.86 | 4.99 | 5.37 | 5.62 |
| 50 | 2.38 | 2.69 | 2.84 | 3.00 | 3.15 | 3.31 | 3.46 | 3.62 | 3.77 | 3.93 | 4.08 | 4.24 | 4.39 | 4.55 | 4.70 | 4.86 | 5.01 | 5.17 | 5.32 | 5.48 | 5.79 | 5.94 | 6.41 | 6.72 |
| 60 | 2.74 | 3.10 | 3.28 | 3.46 | 3.64 | 3.82 | 4.00 | 4.19 | 4.37 | 4.55 | 4.75 | 4.96 | 5.14 | 5.32 | 5.50 | 5.68 | 5.86 | 6.05 | 6.23 | 6.41 | 6.77 | 6.94 | 7.44 | 7.80 |
| 100 | 4.13 | 4.70 | 4.98 | 5.27 | 5.55 | 5.84 | 6.12 | 6.41 | 6.68 | 6.98 | 7.25 | 7.54 | 7.82 | 8.11 | 8.39 | 8.68 | 8.96 | 9.25 | 9.53 | 9.82 | 10.39 | 10.67 | 11.52 | 12.08 |
| 200 | 7.34 | 8.42 | 8.96 | 9.51 | 10.05 | 10.59 | 11.13 | 11.68 | 12.19 | 12.71 | 13.25 | 13.80 | 14.31 | 14.83 | 15.35 | 15.86 | 16.40 | 16.95 | 17.46 | 17.98 | 19.01 | 19.53 | 21.08 | 22.11 |
| 300 | 10.44 | 11.99 | 12.73 | 13.54 | 14.29 | 15.09 | 15.84 | 16.64 | 17.37 | 18.14 | 18.90 | 19.69 | 20.45 | 21.24 | 21.98 | 22.73 | 23.48 | 24.23 | 25.00 | 25.76 | 27.28 | 28.04 | 30.28 | 31.78 |
| 400 | 13.33 | 15.40 | 16.40 | 17.41 | 18.42 | 19.43 | 20.43 | 21.44 | 22.42 | 23.41 | 24.41 | 25.42 | 26.40 | 27.38 | 28.39 | 29.40 | 30.38 | 31.36 | 32.34 | 33.33 | 35.29 | 36.27 | 39.22 | 41.15 |
| 500 | 16.17 | 18.70 | 19.90 | 21.18 | 22.38 | 23.66 | 24.87 | 26.14 | 27.33 | 28.57 | 29.77 | 31.00 | 32.23 | 33.48 | 34.69 | 35.91 | 37.10 | 38.29 | 39.50 | 40.72 | 43.14 | 44.35 | 47.90 | 50.30 |
| 600 | 18.96 | 21.91 | 23.38 | 24.85 | 26.32 | 27.80 | 29.24 | 30.69 | 32.16 | 33.64 | 35.08 | 36.53 | 37.95 | 39.37 | 40.82 | 42.26 | 43.68 | 45.11 | 46.54 | 47.97 | 50.84 | 52.25 | 56.47 | 59.29 |
| 700 | 21.70 | 25.11 | 26.73 | 28.47 | 30.12 | 31.88 | 33.51 | 35.24 | 36.88 | 38.60 | 40.22 | 41.90 | 43.54 | 45.21 | 46.85 | 48.52 | 50.17 | 51.82 | 53.47 | 55.11 | 58.38 | 60.05 | 64.95 | 68.22 |
| 800 | 24.34 | 28.21 | 30.12 | 32.03 | 33.95 | 35.86 | 37.77 | 39.68 | 41.57 | 43.45 | 45.34 | 47.22 | 49.11 | 51.00 | 52.86 | 54.72 | 56.58 | 58.44 | 60.30 | 62.16 | 65.88 | 67.72 | 73.26 | 76.92 |
| 870 | 26.20 | 30.38 | 32.37 | 34.51 | 36.52 | 38.65 | 40.63 | 42.73 | 44.75 | 46.86 | 48.84 | 50.89 | 52.91 | 54.97 | 56.98 | 59.00 | 61.02 | 63.03 | 65.04 | 67.05 | 71.04 | 73.07 | 79.05 | 83.06 |
| 1000 | 29.55 | 34.31 | 36.66 | 39.01 | 41.36 | 43.71 | 46.06 | 48.41 | 50.74 | 53.06 | 55.36 | 57.66 | 59.99 | 62.31 | 64.61 | 66.91 | 69.18 | 71.46 | 73.74 | 76.03 | 80.60 | 82.86 | 89.64 | 94.14 |
| 1160 | 33.64 | 39.06 | 41.67 | 44.49 | 47.09 | 49.86 | 52.48 | 55.23 | 57.84 | 60.55 | 63.17 | 65.88 | 68.51 | 71.20 | 73.82 | 76.47 | 79.07 | 81.69 | 84.31 | 86.92 | 92.12 | 94.76 | 102.51 | 107.72 |
| 1200 | 34.62 | 40.25 | 43.04 | 45.83 | 48.62 | 51.41 | 54.17 | 56.94 | 59.68 | 62.41 | 65.15 | 67.89 | 70.63 | 73.37 | 76.08 | 78.79 | 81.50 | 84.22 | 86.92 | 89.62 | 95.02 | 97.69 | 105.71 | 111.01 |
| 1400 | 39.58 | 46.09 | 49.17 | 52.49 | 55.60 | 58.90 | 62.02 | 65.31 | 68.42 | 71.66 | 74.76 | 77.97 | 81.08 | 84.27 | 87.38 | 90.52 | 93.64 | 96.77 | 99.89 | 102.99 | 109.17 | 112.29 | 121.47 | 127.66 |
| 1600 | 44.43 | 51.77 | 55.41 | 59.06 | 62.70 | 66.34 | 69.93 | 73.52 | 77.11 | 80.70 | 84.27 | 87.83 | 91.40 | 94.96 | 98.50 | 102.04 | 105.56 | 109.07 | 112.58 | 116.10 | 123.12 | 126.60 | 137.02 | 143.92 |
| 1750 | 48.05 | 56.01 | 59.82 | 63.91 | 67.72 | 71.77 | 75.59 | 79.62 | 83.44 | 87.42 | 91.23 | 95.17 | 98.98 | 102.87 | 106.70 | 110.57 | 114.39 | 118.21 | 122.04 | 125.86 | 133.46 | 137.28 | 148.54 | 156.11 |
| 2000 | 53.94 | 62.93 | 67.40 | 71.87 | 76.31 | 80.76 | 85.20 | 89.64 | 94.03 | 98.43 | 102.82 | 107.21 | 111.57 | 115.94 | 120.28 | 124.62 | 128.93 | 133.25 | 137.54 | 141.83 | 150.40 | 154.66 | 167.45 | 175.87 |
| 2400 | 63.09 | 73.73 | 78.83 | 84.32 | 89.43 | 94.86 | 99.94 | 105.30 | 110.41 | 115.73 | 120.82 | 126.07 | 131.15 | 136.35 | 141.43 | 146.58 | 151.69 | 156.81 | 161.89 | 166.97 | 177.06 | 182.15 | 197.11 | 207.14 |
| 2800 | 72.02 | 84.32 | 90.39 | 96.46 | 102.53 | 108.60 | 114.62 | 120.64 | 126.61 | 132.58 | 138.54 | 144.51 | 150.43 | 156.34 | 162.21 | 168.07 | 173.94 | 179.80 | 185.61 | 191.43 | 203.05 | 208.79 | 225.99 | 237.31 |
| 3200 | 80.76 | 94.60 | 101.22 | 108.35 | 114.98 | 122.04 | 128.65 | 135.63 | 142.23 | 149.11 | 155.72 | 162.54 | 169.14 | 175.87 | 182.45 | 189.10 | 195.68 | 202.28 | 208.84 | 215.39 | 228.42 | 234.96 | 254.20 | 267.06 |
| 3500 | 87.16 | 102.20 | 109.66 | 117.13 | 124.54 | 131.96 | 139.32 | 146.68 | 153.99 | 161.30 | 168.56 | 175.82 | 183.03 | 190.24 | 197.42 | 204.60 | 211.73 | 218.86 | 225.91 | 232.97 | 247.07 | 254.03 | 274.92 | 288.57 |
| 4000 | 97.60 | 114.55 | 122.66 | 131.39 | 139.50 | 148.13 | 156.21 | 164.71 | 172.76 | 181.14 | 189.20 | 197.52 | 205.55 | 213.75 | 221.73 | 229.81 | 237.82 | 245.83 | 253.77 | 261.70 | 277.45 | 285.34 | 308.55 | 323.98 |
| 4500 | 107.73 | 126.64 | 135.99 | 145.34 | 154.61 | 163.89 | 173.08 | 182.28 | 191.43 | 200.57 | 209.61 | 218.65 | 227.62 | 236.58 | 245.49 | 254.41 | 263.22 | 272.03 | 280.74 | 289.46 | 306.90 | 315.46 | 341.16 | 255.87 |
| 5000 | 117.65 | 138.42 | 148.30 | 158.93 | 168.79 | 179.28 | 189.12 | 199.49 | 209.25 | 219.43 | 229.19 | 239.27 | 248.95 | 258.85 | 268.51 | 278.28 | 287.91 | 297.55 | 307.06 | 316.55 | 335.42 | 344.84 | 372.57 | 278.14 |
| 5500 | 127.36 | 149.89 | 161.05 | 172.21 | 183.26 | 194.32 | 205.27 | 216.23 | 227.05 | 237.87 | 248.59 | 259.32 | 269.91 | 280.50 | 290.99 | 301.48 | 311.86 | 322.25 | 332.45 | 342.65 | 363.06 | 272.30 | – | – |

| 8M-62 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to | 1.03 to | 1.06 to | 1.11 to | 1.16 to | 1.22 to | 1.31 to | 1.44 to | 1.65 to | 2.16 |
| Small Shaft | 5.314 | 5.610 | 6.015 | 6.316 | 6.420 | 6.717 | 7.118 | 7.220 | 7.519 | 8.020 | 1.02 | 1.05 | 1.10 | 1.15 | 1.21 | 1.30 | 1.43 | 1.64 | 2.15 | and over |
| 10 | 2.19 | 2.33 | 2.51 | 2.64 | 2.69 | 2.82 | 3.00 | 3.05 | 3.18 | 3.41 | – | – | – | – | – | – | – | – | – | – |
| 20 | 3.51 | 3.72 | 4.03 | 4.26 | 4.34 | 4.55 | 4.84 | 4.91 | 5.12 | 5.48 | – | – | – | – | – | – | – | – | – | – |
| 40 | 5.99 | 6.36 | 6.87 | 7.26 | 7.39 | 7.76 | 8.25 | 8.37 | 8.76 | 9.40 | – | – | – | – | – | – | – | – | – | – |
| 50 | 7.19 | 7.65 | 8.27 | 8.73 | 8.89 | 9.33 | 9.92 | 10.08 | 10.52 | 11.26 | – | – | – | – | – | – | – | – | – | – |
| 60 | 8.34 | 8.89 | 9.61 | 10.15 | 10.33 | 10.86 | 11.55 | 11.73 | 12.25 | 13.12 | – | – | – | – | – | – | – | – | – | – |
| 100 | 12.92 | 13.74 | 14.86 | 15.68 | 15.97 | 16.77 | 17.86 | 18.14 | 18.95 | 20.31 | – | – | – | – | – | – | – | – | – | – |
| 200 | 23.66 | 25.21 | 27.28 | 28.83 | 29.35 | 30.88 | 32.92 | 33.43 | 34.94 | 37.46 | 0.00 | 0.04 | 0.07 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.33 |
| 300 | 34.02 | 36.22 | 39.22 | 41.44 | 42.21 | 44.40 | 47.35 | 48.10 | 50.27 | 53.89 | 0.00 | 0.04 | 0.08 | 0.12 | 0.16 | 0.21 | 0.25 | 0.29 | 0.33 | 0.37 |
| 400 | 44.06 | 46.97 | 50.84 | 53.75 | 54.72 | 57.58 | 61.41 | 62.36 | 65.19 | 69.91 | 0.00 | 0.05 | 0.1 | 0.14 | 0.19 | 0.24 | 0.29 | 0.34 | 0.38 | 0.43 |
| 500 | 53.88 | 57.40 | 62.18 | 65.73 | 66.96 | 70.43 | 75.12 | 76.31 | 79.77 | 85.56 | 0.00 | 0.07 | 0.14 | 0.22 | 0.29 | 0.36 | 0.43 | 0.5 | 0.58 | 0.65 |
| 600 | 63.51 | 67.74 | 73.37 | 77.59 | 79.00 | 83.14 | 88.67 | 90.06 | 94.16 | 101.01 | 0.00 | 0.08 | 0.16 | 0.25 | 0.33 | 0.41 | 0.49 | 0.58 | 0.66 | 0.74 |
| 700 | 73.07 | 77.86 | 84.35 | 89.17 | 90.83 | 95.55 | 101.92 | 103.54 | 108.25 | 116.15 | 0.00 | 0.1 | 0.19 | 0.29 | 0.38 | 0.48 | 0.57 | 0.67 | 0.77 | 0.86 |
| 800 | 82.40 | 87.89 | 95.22 | 100.72 | 102.56 | 107.94 | 115.13 | 116.92 | 122.25 | 131.13 | 0.00 | 0.12 | 0.25 | 0.37 | 0.49 | 0.62 | 0.74 | 0.86 | 0.99 | 1.11 |
| 870 | 89.00 | 94.86 | 102.77 | 108.64 | 110.67 | 116.43 | 124.20 | 126.17 | 131.91 | 141.52 | 0.00 | 0.14 | 0.29 | 0.43 | 0.58 | 0.72 | 0.86 | 1.01 | 1.15 | 1.29 |
| 1000 | 100.88 | 107.62 | 116.61 | 123.35 | 125.60 | 132.19 | 140.97 | 143.17 | 149.70 | 160.58 | 0.00 | 0.16 | 0.33 | 0.49 | 0.66 | 0.82 | 0.99 | 1.15 | 1.32 | 1.48 |
| 1160 | 115.45 | 123.07 | 133.39 | 141.04 | 143.69 | 151.15 | 161.22 | 163.78 | 171.24 | 183.73 | 0.00 | 0.21 | 0.41 | 0.62 | 0.82 | 1.03 | 1.23 | 1.44 | 1.64 | 1.85 |
| 1200 | 118.95 | 126.89 | 137.51 | 145.47 | 148.13 | 155.92 | 166.30 | 168.90 | 176.61 | 189.46 | 0.00 | 0.24 | 0.47 | 0.71 | 0.95 | 1.18 | 1.42 | 1.65 | 1.89 | 2.13 |
| 1400 | 136.85 | 145.91 | 158.11 | 167.16 | 170.29 | 179.16 | 191.12 | 194.16 | 202.97 | 217.72 | 0.00 | 0.25 | 0.49 | 0.74 | 0.99 | 1.23 | 1.48 | 1.73 | 1.97 | 2.22 |
| 1600 | 154.26 | 164.61 | 178.35 | 188.66 | 192.10 | 202.17 | 215.61 | 218.96 | 228.92 | 245.52 | 0.00 | 0.28 | 0.57 | 0.85 | 1.13 | 1.42 | 1.7 | 1.99 | 2.27 | 2.55 |
| 1750 | 167.34 | 178.41 | 193.35 | 204.44 | 208.27 | 219.05 | 233.61 | 237.31 | 248.05 | 266.03 | 0.00 | 0.29 | 0.57 | 0.86 | 1.15 | 1.44 | 1.73 | 2.01 | 2.3 | 2.59 |
| 2000 | 188.51 | 201.14 | 217.93 | 230.52 | 234.72 | 246.97 | 263.29 | 267.38 | 279.47 | 299.62 | 0.00 | 0.33 | 0.66 | 0.99 | 1.32 | 1.64 | 1.97 | 2.3 | 2.63 | 2.96 |
| 2400 | 222.02 | 236.69 | 256.38 | 271.00 | 276.06 | 290.23 | 309.37 | 314.24 | 328.26 | 351.75 | 0.00 | 0.36 | 0.71 | 1.07 | 1.43 | 1.79 | 2.15 | 2.5 | 2.86 | 3.22 |
| 2800 | 254.28 | 271.25 | 293.70 | 310.54 | 316.15 | 332.42 | 354.12 | 359.55 | 375.46 | 401.97 | 0.00 | 0.37 | 0.74 | 1.11 | 1.48 | 1.85 | 2.22 | 2.59 | 2.96 | 3.33 |
| 3200 | 286.13 | 304.94 | 330.01 | 348.62 | 355.05 | 372.95 | 397.12 | 403.26 | – | – | 0.00 | 0.41 | 0.82 | 1.23 | 1.64 | 2.06 | 2.47 | 2.88 | 3.29 | 3.7 |
| 3500 | 309.05 | 329.53 | 356.45 | 376.64 | 383.37 | – | – | – | – | – | 0.00 | 0.48 | 0.95 | 1.43 | 1.91 | 2.38 | 2.86 | 3.34 | 3.82 | 4.29 |
| 4000 | 346.86 | 369.42 | 184.57 | – | – | – | – | – | – | – | 0.00 | 0.72 | 1.44 | 2.16 | 2.88 | 3.6 | 4.32 | 5.04 | 5.76 | 6.47 |
| 4500 | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.82 | 1.64 | 2.47 | 3.29 | 4.11 | 4.93 | 5.75 | 6.58 | 7.4 |
| 5000 | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.24 | 2.46 | 3.7 | 4.93 | 6.17 | 7.4 | 8.63 | 9.87 | 11.1 |
| 5500 | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.42 | 2.83 | 4.26 | 5.67 | 7.09 | 8.51 | 9.93 | 11.3 | 12.8 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.65 | 3.29 | 4.94 | 6.58 | 8.22 | 9.87 | 11.5 | 13.2 | 14.8 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.85 | 3.7 | 5.56 | 7.4 | 9.25 | 11.1 | 12.9 | 14.8 | 16.6 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.06 | 4.11 | 6.17 | 8.22 | 10.3 | 12.3 | 14.4 | 16.4 | 18.5 |
| – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.27 | 4.52 | 6.79 | 9.04 | 11.3 | 13.6 | 15.8 | 18.1 | 20.3 |

# Selection

## HT500 Basic HP Ratings - 14 mm

| 14M-20 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| Small Shaft | 4.912 | 5.088 | 5.263 | 5.439 | 5.614 | 5.790 | 5.965 | 6.141 | 6.316 | 6.492 | 6.667 | 6.842 | 7.018 | 7.193 | 7.369 | 7.720 | 7.895 | 8.421 | 8.772 |
| 10 | 1.17 | 1.22 | 1.27 | 1.32 | 1.36 | 1.41 | 1.45 | 1.50 | 1.54 | 1.59 | 1.63 | 1.68 | 1.72 | 1.77 | 1.82 | 1.91 | 1.96 | 2.09 | 2.18 |
| 20 | 1.84 | 1.92 | 1.99 | 2.07 | 2.14 | 2.21 | 2.28 | 2.36 | 2.43 | 2.51 | 2.58 | 2.65 | 2.72 | 2.79 | 2.86 | 3.01 | 3.08 | 3.30 | 3.45 |
| 40 | 3.06 | 3.18 | 3.31 | 3.44 | 3.56 | 3.69 | 3.81 | 3.94 | 4.06 | 4.19 | 4.31 | 4.43 | 4.55 | 4.67 | 4.80 | 5.04 | 5.16 | 5.53 | 5.78 |
| 60 | 4.20 | 4.37 | 4.55 | 4.72 | 4.89 | 5.07 | 5.24 | 5.42 | 5.59 | 5.76 | 5.93 | 6.10 | 6.27 | 6.44 | 6.61 | 6.95 | 7.12 | 7.63 | 7.97 |
| 100 | 6.35 | 6.62 | 6.88 | 7.15 | 7.42 | 7.69 | 7.95 | 8.22 | 8.48 | 8.75 | 9.01 | 9.27 | 9.53 | 9.79 | 10.05 | 10.57 | 10.83 | 11.61 | 12.13 |
| 200 | 11.33 | 11.82 | 12.31 | 12.80 | 13.28 | 13.76 | 14.24 | 14.72 | 15.20 | 15.68 | 16.16 | 16.63 | 17.11 | 17.58 | 18.05 | 19.00 | 19.47 | 20.88 | 21.81 |
| 300 | 15.99 | 16.69 | 17.39 | 18.08 | 18.77 | 19.46 | 20.15 | 20.84 | 21.52 | 22.20 | 22.88 | 23.56 | 24.23 | 24.91 | 25.58 | 26.93 | 27.60 | 29.59 | 30.92 |
| 400 | 20.46 | 21.36 | 22.25 | 23.14 | 24.03 | 24.92 | 25.80 | 26.68 | 27.56 | 28.44 | 29.32 | 30.19 | 31.06 | 31.93 | 32.79 | 34.53 | 35.39 | 37.96 | 39.66 |
| 500 | 24.76 | 25.86 | 26.95 | 28.04 | 29.12 | 30.20 | 31.27 | 32.35 | 33.42 | 34.49 | 35.55 | 36.61 | 37.67 | 38.73 | 39.78 | 41.89 | 42.93 | 46.06 | 48.13 |
| 600 | 28.95 | 30.24 | 31.52 | 32.80 | 34.07 | 35.34 | 36.60 | 37.86 | 39.12 | 40.37 | 41.62 | 42.86 | 44.11 | 45.34 | 46.58 | 49.05 | 50.27 | 53.94 | 56.37 |
| 700 | 33.04 | 34.52 | 35.98 | 37.44 | 38.90 | 40.35 | 41.80 | 43.25 | 44.69 | 46.12 | 47.55 | 48.98 | 50.40 | 51.82 | 53.23 | 56.06 | 57.46 | 61.65 | 64.43 |
| 800 | 37.05 | 38.71 | 40.35 | 42.00 | 43.64 | 45.27 | 46.90 | 48.52 | 50.14 | 51.75 | 53.36 | 54.96 | 56.57 | 58.16 | 59.74 | 62.92 | 64.49 | 69.20 | 72.32 |
| 870 | 39.81 | 41.59 | 43.37 | 45.14 | 46.90 | 48.66 | 50.41 | 52.16 | 53.90 | 55.64 | 57.37 | 59.10 | 60.82 | 62.53 | 64.24 | 67.65 | 69.34 | 74.41 | 77.76 |
| 1000 | 44.84 | 46.86 | 48.86 | 50.86 | 52.85 | 54.84 | 56.82 | 58.79 | 60.76 | 62.72 | 64.68 | 66.62 | 68.57 | 70.50 | 72.42 | 76.28 | 78.18 | 83.90 | 87.67 |
| 1160 | 50.89 | 53.19 | 55.47 | 57.75 | 60.02 | 62.28 | 64.53 | 66.78 | 69.02 | 71.25 | 73.47 | 75.68 | 77.89 | 80.08 | 82.28 | 86.66 | 88.82 | 95.30 | 99.58 |
| 1200 | 52.38 | 54.75 | 57.10 | 59.44 | 61.78 | 64.11 | 66.43 | 68.74 | 71.05 | 73.34 | 75.63 | 77.91 | 80.19 | 82.44 | 84.70 | 89.21 | 91.43 | 98.11 | 102.52 |
| 1400 | 59.70 | 62.42 | 65.10 | 67.78 | 70.46 | 73.12 | 75.77 | 78.41 | 81.05 | 83.67 | 86.28 | 88.88 | 91.48 | 94.05 | 96.62 | 101.76 | 104.29 | 111.89 | 116.90 |
| 1600 | 66.84 | 69.89 | 72.91 | 75.92 | 78.91 | 81.89 | 84.87 | 87.83 | 90.78 | 93.72 | 96.65 | 99.55 | 102.46 | 105.33 | 108.21 | 113.97 | 116.79 | 125.28 | 130.87 |
| 1750 | 72.09 | 75.38 | 78.63 | 81.88 | 85.12 | 88.34 | 91.55 | 94.74 | 97.93 | 101.09 | 104.25 | 107.39 | 110.52 | 113.62 | 116.72 | 122.91 | 125.95 | 135.08 | 141.08 |
| 2000 | 80.63 | 84.32 | 87.96 | 91.60 | 95.23 | 98.83 | 102.43 | 105.99 | 109.55 | 113.08 | 116.61 | 120.11 | 123.61 | 127.06 | 130.51 | 137.41 | 140.79 | 150.94 | 157.60 |
| 2400 | 93.82 | 98.12 | 102.37 | 106.60 | 110.82 | 115.00 | 119.18 | 123.32 | 127.45 | 131.54 | 135.63 | 139.68 | 143.72 | 147.70 | 151.67 | 159.62 | 163.50 | 175.15 | 182.75 |
| 2800 | 106.48 | 111.36 | 116.18 | 120.97 | 125.75 | 130.48 | 135.20 | 139.87 | 144.53 | 149.14 | 153.74 | 158.28 | 162.83 | 167.27 | 171.72 | 180.63 | 184.95 | 197.93 | – |
| 3000 | 112.61 | 117.77 | 122.86 | 127.92 | 132.97 | 137.96 | 142.94 | 147.86 | 152.77 | 157.62 | 162.46 | 167.24 | 172.01 | 176.68 | 181.35 | 190.68 | – | – | – |
| 3500 | 127.41 | 133.22 | 138.96 | 144.65 | 150.32 | 155.91 | 161.49 | 166.98 | 172.47 | 177.87 | 183.26 | 188.56 | 193.86 | – | – | – | – | – | – |
| 4000 | 141.44 | 147.86 | 154.18 | 160.43 | 166.68 | 172.80 | 178.92 | 184.91 | 190.90 | – | – | – | – | – | – | – | – | – | – |

| 14M-20 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 52 | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to | 1.04 to | 1.11 to | 1.20 to | 1.31 to | 1.46 to | 1.68 to | 2.03 to | 2.70 to | 4.65 |
| Small Shaft | 9.123 | 9.299 | 9.825 | 10.527 | 11.053 | 11.229 | 11.755 | 12.457 | 12.632 | 13.158 | 14.036 | 1.03 | 1.10 | 1.19 | 1.30 | 1.45 | 1.67 | 2.02 | 2.69 | 4.64 | and over |
| 10 | 2.27 | 2.31 | 2.44 | 2.62 | 2.76 | 2.80 | 2.94 | 3.12 | 3.16 | 3.29 | 3.51 | – | – | – | – | – | – | – | – | – | – |
| 20 | 3.59 | 3.66 | 3.88 | 4.16 | 4.38 | 4.45 | 4.66 | 4.94 | 5.01 | 5.22 | 5.57 | – | – | – | – | – | – | – | – | – | – |
| 40 | 6.02 | 6.14 | 6.50 | 6.98 | 7.34 | 7.46 | 7.82 | 8.29 | 8.41 | 8.77 | 9.36 | – | – | – | – | – | – | – | – | – | – |
| 60 | 8.30 | 8.47 | 8.97 | 9.63 | 10.13 | 10.30 | 10.79 | 11.45 | 11.61 | 12.10 | 12.92 | – | – | – | – | – | – | – | – | – | – |
| 100 | 12.64 | 12.90 | 13.66 | 14.68 | 15.44 | 15.69 | 16.44 | 17.44 | 17.69 | 18.44 | 19.68 | – | – | – | – | – | – | – | – | – | – |
| 200 | 22.74 | 23.20 | 24.59 | 26.42 | 27.79 | 28.25 | 29.61 | 31.43 | 31.88 | 33.22 | 35.46 | – | – | – | – | – | – | – | – | – | – |
| 300 | 32.24 | 32.90 | 34.87 | 37.48 | 39.43 | 40.08 | 42.01 | 44.58 | 45.22 | 47.13 | 50.31 | 0.00 | 0.04 | 0.09 | 0.13 | 0.18 | 0.22 | 0.27 | 0.31 | 0.36 | 0.4 |
| 400 | 41.36 | 42.21 | 44.74 | 48.08 | 50.59 | 51.43 | 53.90 | 57.21 | 58.03 | 60.47 | 64.55 | 0.00 | 0.05 | 0.1 | 0.15 | 0.2 | 0.25 | 0.3 | 0.36 | 0.41 | 0.46 |
| 500 | 50.19 | 51.22 | 54.30 | 58.36 | 61.41 | 62.42 | 65.42 | 69.42 | 70.42 | 73.39 | 78.33 | 0.00 | 0.06 | 0.12 | 0.18 | 0.24 | 0.3 | 0.36 | 0.42 | 0.47 | 0.53 |
| 600 | 58.80 | 60.00 | 63.61 | 68.36 | 71.93 | 73.12 | 76.63 | 81.31 | 82.48 | 85.94 | 91.72 | 0.00 | 0.09 | 0.18 | 0.27 | 0.36 | 0.44 | 0.53 | 0.62 | 0.71 | 0.8 |
| 700 | 67.20 | 68.58 | 72.70 | 78.13 | 82.20 | 83.56 | 87.57 | 92.91 | 94.25 | 98.20 | 104.78 | 0.00 | 0.1 | 0.2 | 0.3 | 0.41 | 0.51 | 0.61 | 0.71 | 0.81 | 0.91 |
| 800 | 75.43 | 76.97 | 81.60 | 87.69 | 92.25 | 93.78 | 98.27 | 104.25 | 105.75 | 110.17 | 117.54 | 0.00 | 0.12 | 0.24 | 0.35 | 0.47 | 0.59 | 0.71 | 0.83 | 0.95 | 1.06 |
| 870 | 81.10 | 82.76 | 87.73 | 94.27 | 99.18 | 100.81 | 105.63 | 112.05 | 113.66 | 118.40 | 126.30 | 0.00 | 0.15 | 0.3 | 0.46 | 0.61 | 0.76 | 0.91 | 1.07 | 1.22 | 1.37 |
| 1000 | 91.44 | 93.31 | 98.91 | 106.26 | 111.78 | 113.62 | 119.03 | 126.25 | 128.05 | 133.36 | 142.21 | 0.00 | 0.18 | 0.36 | 0.53 | 0.71 | 0.89 | 1.07 | 1.24 | 1.42 | 1.6 |
| 1160 | 103.86 | 105.98 | 112.32 | 120.65 | 126.89 | 128.97 | 135.08 | 143.22 | 145.25 | 151.23 | 161.20 | 0.00 | 0.2 | 0.41 | 0.61 | 0.81 | 1.02 | 1.22 | 1.42 | 1.62 | 1.83 |
| 1200 | 106.92 | 109.10 | 115.62 | 124.18 | 130.60 | 132.74 | 139.01 | 147.38 | 149.47 | 155.61 | 165.85 | 0.00 | 0.25 | 0.51 | 0.76 | 1.02 | 1.27 | 1.52 | 1.78 | 2.03 | 2.28 |
| 1400 | 121.91 | 124.38 | 131.79 | 141.49 | 148.76 | 151.18 | 158.26 | 167.70 | 170.06 | 176.97 | 188.48 | 0.00 | 0.29 | 0.58 | 0.88 | 1.17 | 1.46 | 1.75 | 2.04 | 2.33 | 2.63 |
| 1600 | 136.45 | 139.20 | 147.45 | 158.21 | 166.28 | 168.98 | 176.80 | 187.24 | 189.85 | 197.44 | 210.10 | 0.00 | 0.3 | 0.61 | 0.91 | 1.22 | 1.52 | 1.83 | 2.13 | 2.44 | 2.74 |
| 1750 | 147.07 | 150.02 | 158.87 | 170.39 | 179.02 | 181.90 | 190.25 | 201.38 | 204.16 | 212.22 | 225.66 | 0.00 | 0.35 | 0.7 | 1.05 | 1.4 | 1.75 | 2.1 | 2.45 | 2.8 | 3.15 |
| 2000 | 164.24 | 167.51 | 177.29 | 189.97 | 199.47 | 202.65 | – | – | – | – | – | 0.00 | 0.36 | 0.71 | 1.07 | 1.42 | 1.78 | 2.13 | 2.49 | 2.84 | 3.2 |
| 2400 | 190.34 | 194.05 | 205.17 | – | – | – | – | – | – | – | – | 0.00 | 0.41 | 0.81 | 1.22 | 1.62 | 2.03 | 2.44 | 2.84 | 3.25 | 3.65 |
| 2800 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.44 | 0.88 | 1.32 | 1.77 | 2.21 | 2.65 | 3.09 | 3.53 | 3.97 |
| 3000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.46 | 0.91 | 1.37 | 1.83 | 2.28 | 2.74 | 3.2 | 3.65 | 4.11 |
| 3500 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.51 | 1.01 | 1.52 | 2.03 | 2.54 | 3.04 | 3.55 | 4.06 | 4.57 |
| 4000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.59 | 1.18 | 1.77 | 2.35 | 2.94 | 3.53 | 4.12 | 4.71 | 5.3 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.89 | 1.78 | 2.66 | 3.55 | 4.44 | 5.33 | 6.22 | 7.1 | 7.99 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.02 | 2.03 | 3.04 | 4.06 | 5.08 | 6.09 | 7.1 | 8.12 | 9.13 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.52 | 3.04 | 4.57 | 6.09 | 7.61 | 9.13 | 10.7 | 12.2 | 13.7 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.75 | 3.5 | 5.25 | 7 | 8.75 | 10.5 | 12.3 | 14 | 15.8 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.03 | 4.06 | 6.09 | 8.12 | 10.2 | 12.2 | 14.2 | 16.2 | 18.3 |

# Selection

## HT500 Basic HP Ratings - 14 mm

| 14M-37 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| | 4.912 | 5.088 | 5.263 | 5.439 | 5.614 | 5.790 | 5.965 | 6.141 | 6.316 | 6.492 | 6.667 | 6.842 | 7.018 | 7.193 | 7.369 | 7.720 | 7.895 | 8.421 | 8.772 |
| 10 | 2.16 | 2.26 | 2.35 | 2.43 | 2.52 | 2.60 | 2.68 | 2.77 | 2.85 | 2.93 | 3.02 | 3.10 | 3.18 | 3.27 | 3.36 | 3.53 | 3.62 | 3.87 | 4.03 |
| 20 | 3.40 | 3.55 | 3.68 | 3.82 | 3.96 | 4.09 | 4.22 | 4.36 | 4.50 | 4.63 | 4.77 | 4.90 | 5.03 | 5.17 | 5.30 | 5.57 | 5.70 | 6.11 | 6.37 |
| 40 | 5.66 | 5.88 | 6.12 | 6.35 | 6.59 | 6.82 | 7.05 | 7.28 | 7.51 | 7.74 | 7.97 | 8.20 | 8.42 | 8.64 | 8.87 | 9.32 | 9.55 | 10.23 | 10.68 |
| 60 | 7.77 | 8.08 | 8.42 | 8.73 | 9.05 | 9.37 | 9.69 | 10.02 | 10.34 | 10.66 | 10.97 | 11.28 | 11.60 | 11.91 | 12.23 | 12.86 | 13.17 | 14.12 | 14.74 |
| 100 | 11.75 | 12.25 | 12.73 | 13.23 | 13.73 | 14.22 | 14.71 | 15.20 | 15.69 | 16.18 | 16.67 | 17.15 | 17.63 | 18.11 | 18.59 | 19.55 | 20.04 | 21.48 | 22.43 |
| 200 | 20.96 | 21.87 | 22.77 | 23.67 | 24.57 | 25.46 | 26.34 | 27.23 | 28.12 | 29.01 | 29.90 | 30.77 | 31.65 | 32.53 | 33.40 | 35.15 | 36.02 | 38.63 | 40.35 |
| 300 | 29.58 | 30.88 | 32.17 | 33.45 | 34.72 | 36.00 | 37.28 | 38.54 | 39.81 | 41.07 | 42.33 | 43.58 | 44.83 | 46.07 | 47.32 | 49.82 | 51.05 | 54.74 | 57.19 |
| 400 | 37.85 | 39.52 | 41.16 | 42.81 | 44.46 | 46.09 | 47.73 | 49.36 | 50.99 | 52.61 | 54.24 | 55.85 | 57.46 | 59.06 | 60.67 | 63.88 | 65.47 | 70.23 | 73.37 |
| 500 | 45.81 | 47.84 | 49.86 | 51.86 | 53.87 | 55.86 | 57.85 | 59.84 | 61.83 | 63.80 | 65.77 | 67.73 | 69.69 | 71.64 | 73.59 | 77.50 | 79.43 | 85.21 | 89.03 |
| 600 | 53.56 | 55.94 | 58.31 | 60.68 | 63.03 | 65.37 | 67.71 | 70.04 | 72.37 | 74.68 | 77.00 | 79.30 | 81.60 | 83.89 | 86.17 | 90.74 | 93.00 | 99.79 | 104.29 |
| 700 | 61.12 | 63.86 | 66.56 | 69.26 | 71.97 | 74.65 | 77.33 | 80.00 | 82.68 | 85.32 | 87.97 | 90.60 | 93.24 | 95.86 | 98.48 | 103.71 | 106.30 | 114.05 | 119.19 |
| 800 | 68.54 | 71.61 | 74.65 | 77.70 | 80.73 | 83.75 | 86.77 | 89.76 | 92.76 | 95.74 | 98.72 | 101.68 | 104.65 | 107.59 | 110.52 | 116.40 | 119.30 | 128.02 | 133.79 |
| 870 | 73.65 | 76.94 | 80.23 | 83.50 | 86.77 | 90.01 | 93.26 | 96.49 | 99.72 | 102.92 | 106.13 | 109.33 | 112.52 | 115.68 | 118.83 | 125.15 | 128.28 | 137.66 | 143.85 |
| 1000 | 82.95 | 86.69 | 90.39 | 94.09 | 97.77 | 101.45 | 105.12 | 108.76 | 112.41 | 116.03 | 119.66 | 123.25 | 126.85 | 130.42 | 133.98 | 141.12 | 144.64 | 155.22 | 162.20 |
| 1160 | 94.15 | 98.40 | 102.62 | 106.83 | 111.04 | 115.21 | 119.38 | 123.53 | 127.69 | 131.80 | 135.92 | 140.01 | 144.10 | 148.15 | 152.21 | 160.32 | 164.32 | 176.31 | 184.22 |
| 1200 | 96.90 | 101.29 | 105.64 | 109.97 | 114.29 | 118.60 | 122.90 | 127.17 | 131.44 | 135.68 | 139.92 | 144.13 | 148.35 | 152.52 | 156.69 | 165.04 | 169.15 | 181.50 | 189.66 |
| 1400 | 110.45 | 115.48 | 120.44 | 125.39 | 130.35 | 135.26 | 140.17 | 145.06 | 149.94 | 154.78 | 159.62 | 164.43 | 169.24 | 173.99 | 178.75 | 188.26 | 192.94 | 207.00 | 216.27 |
| 1600 | 123.65 | 129.30 | 134.88 | 140.44 | 145.98 | 151.50 | 157.01 | 162.48 | 167.94 | 173.37 | 178.80 | 184.17 | 189.55 | 194.87 | 200.19 | 210.84 | 216.07 | 231.77 | 242.11 |
| 1750 | 133.37 | 139.45 | 145.47 | 151.47 | 157.47 | 163.42 | 169.37 | 175.27 | 181.17 | 187.02 | 192.86 | 198.66 | 204.46 | 210.19 | 215.92 | 227.38 | 233.01 | 249.90 | 260.99 |
| 2000 | 149.17 | 155.99 | 162.73 | 169.46 | 176.18 | 182.84 | 189.50 | 196.09 | 202.67 | 209.20 | 215.73 | 222.20 | 228.68 | 235.05 | 241.43 | 254.21 | 260.46 | 279.24 | 291.55 |
| 2400 | 173.57 | 181.52 | 189.38 | 197.20 | 205.02 | 212.75 | 220.48 | 228.13 | 235.78 | 243.35 | 250.92 | 258.40 | 265.88 | 273.24 | 280.59 | 295.30 | 302.48 | 324.03 | 338.08 |
| 2800 | 196.99 | 206.02 | 214.93 | 223.80 | 232.64 | 241.39 | 250.12 | 258.76 | 267.38 | 275.90 | 284.42 | 292.82 | 301.24 | 309.46 | 317.69 | 334.17 | 342.16 | 366.17 | – |
| 3000 | 208.33 | 217.87 | 227.29 | 236.64 | 245.99 | 255.22 | 264.44 | 273.53 | 282.62 | 291.59 | 300.55 | 309.38 | 318.22 | 326.85 | 335.49 | 352.76 | – | – | – |
| 3500 | 235.71 | 246.46 | 257.08 | 267.60 | 278.09 | 288.44 | 298.76 | 308.92 | 319.07 | 329.05 | 339.03 | 348.83 | 358.64 | – | – | – | – | – | – |
| 4000 | 261.66 | 273.54 | 285.23 | 296.80 | 308.36 | 319.68 | 331.00 | 342.08 | 353.17 | – | – | – | – | – | – | – | – | – | – |

| 14M-37 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 52 | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to 1.03 | 1.04 to 1.10 | 1.11 to 1.19 | 1.20 to 1.30 | 1.31 to 1.45 | 1.46 to 1.67 | 1.68 to 2.02 | 2.03 to 2.69 | 2.70 to 4.64 | 4.65 and over |
| | 9.123 | 9.299 | 9.825 | 10.527 | 11.053 | 11.229 | 11.755 | 12.457 | 12.632 | 13.158 | 14.036 | | | | | | | | | | |
| 10 | 4.20 | 4.28 | 4.51 | 4.85 | 5.10 | 5.18 | 5.43 | 5.76 | 5.85 | 6.09 | 6.49 | – | – | – | – | – | – | – | – | – | – |
| 20 | 6.64 | 6.78 | 7.18 | 7.71 | 8.10 | 8.23 | 8.62 | 9.14 | 9.27 | 9.66 | 10.30 | – | – | – | – | – | – | – | – | – | – |
| 40 | 11.14 | 11.36 | 12.03 | 12.91 | 13.58 | 13.80 | 14.46 | 15.34 | 15.56 | 16.22 | 17.32 | – | – | – | – | – | – | – | – | – | – |
| 60 | 15.36 | 15.67 | 16.59 | 17.82 | 18.75 | 19.06 | 19.96 | 21.18 | 21.48 | 22.39 | 23.90 | – | – | – | – | – | – | – | – | – | – |
| 100 | 23.38 | 23.86 | 25.27 | 27.15 | 28.56 | 29.03 | 30.41 | 32.26 | 32.73 | 34.11 | 36.41 | – | – | – | – | – | – | – | – | – | – |
| 200 | 42.07 | 42.93 | 45.49 | 48.88 | 51.41 | 52.26 | 54.78 | 58.14 | 58.98 | 61.46 | 65.60 | – | – | – | – | – | – | – | – | – | – |
| 300 | 59.64 | 60.86 | 64.51 | 69.33 | 72.94 | 74.15 | 77.71 | 82.47 | 83.66 | 87.19 | 93.07 | 0.00 | 0.08 | 0.17 | 0.25 | 0.33 | 0.41 | 0.5 | 0.58 | 0.66 | 0.74 |
| 400 | 76.52 | 78.08 | 82.77 | 88.96 | 93.60 | 95.15 | 99.72 | 105.83 | 107.36 | 111.88 | 119.42 | 0.00 | 0.09 | 0.19 | 0.28 | 0.38 | 0.47 | 0.56 | 0.66 | 0.75 | 0.84 |
| 500 | 92.85 | 94.75 | 100.46 | 107.97 | 113.60 | 115.48 | 121.03 | 128.43 | 130.28 | 135.76 | 144.91 | 0.00 | 0.11 | 0.22 | 0.33 | 0.44 | 0.55 | 0.66 | 0.77 | 0.88 | 0.99 |
| 600 | 108.78 | 111.01 | 117.68 | 126.47 | 133.07 | 135.27 | 141.76 | 150.42 | 152.59 | 159.00 | 169.68 | 0.00 | 0.16 | 0.33 | 0.49 | 0.66 | 0.82 | 0.99 | 1.15 | 1.31 | 1.48 |
| 700 | 124.32 | 126.86 | 134.50 | 144.54 | 152.07 | 154.59 | 162.00 | 171.89 | 174.36 | 181.67 | 193.84 | 0.00 | 0.19 | 0.38 | 0.56 | 0.75 | 0.94 | 1.13 | 1.31 | 1.5 | 1.69 |
| 800 | 139.55 | 142.40 | 150.96 | 162.22 | 170.67 | 173.49 | 181.79 | 192.87 | 195.64 | 203.82 | 217.45 | 0.00 | 0.22 | 0.44 | 0.66 | 0.88 | 1.09 | 1.31 | 1.53 | 1.75 | 1.97 |
| 870 | 150.04 | 153.10 | 162.30 | 174.40 | 183.47 | 186.50 | 195.41 | 207.30 | 210.27 | 219.04 | 233.66 | 0.00 | 0.28 | 0.56 | 0.84 | 1.13 | 1.41 | 1.69 | 1.97 | 2.25 | 2.53 |
| 1000 | 169.16 | 172.62 | 182.98 | 196.59 | 206.79 | 210.20 | 220.20 | 233.56 | 236.89 | 246.72 | 263.09 | 0.00 | 0.33 | 0.66 | 0.99 | 1.31 | 1.64 | 1.97 | 2.3 | 2.63 | 2.96 |
| 1160 | 192.14 | 196.05 | 207.79 | 223.19 | 234.74 | 238.59 | 249.89 | 264.95 | 268.71 | 279.78 | 298.22 | 0.00 | 0.38 | 0.75 | 1.13 | 1.5 | 1.88 | 2.25 | 2.63 | 3 | 3.38 |
| 1200 | 197.80 | 201.83 | 213.90 | 229.73 | 241.60 | 245.57 | 257.17 | 272.65 | 276.52 | 287.88 | 306.82 | 0.00 | 0.47 | 0.94 | 1.41 | 1.88 | 2.35 | 2.82 | 3.29 | 3.75 | 4.22 |
| 1400 | 225.53 | 230.10 | 243.81 | 261.75 | 275.20 | 279.68 | 292.78 | 310.25 | 314.61 | 327.39 | 348.69 | 0.00 | 0.54 | 1.08 | 1.62 | 2.16 | 2.7 | 3.24 | 3.78 | 4.32 | 4.86 |
| 1600 | 252.43 | 257.52 | 272.78 | 292.69 | 307.62 | 312.61 | 327.09 | 346.40 | 351.22 | 365.27 | 388.69 | 0.00 | 0.56 | 1.13 | 1.69 | 2.25 | 2.82 | 3.38 | 3.94 | 4.51 | 5.07 |
| 1750 | 272.08 | 277.54 | 293.91 | 315.21 | 331.19 | 336.52 | 351.96 | 372.55 | 377.70 | 392.61 | 417.47 | 0.00 | 0.65 | 1.3 | 1.94 | 2.59 | 3.24 | 3.89 | 4.53 | 5.18 | 5.83 |
| 2000 | 303.84 | 309.89 | 327.99 | 351.44 | 369.03 | 374.90 | – | – | – | – | – | 0.00 | 0.66 | 1.31 | 1.97 | 2.63 | 3.29 | 3.94 | 4.6 | 5.26 | 5.91 |
| 2400 | 352.13 | 358.99 | 379.56 | – | – | – | – | – | – | – | – | 0.00 | 0.75 | 1.5 | 2.25 | 3 | 3.76 | 4.51 | 5.26 | 6.01 | 6.76 |
| 2800 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.82 | 1.63 | 2.45 | 3.27 | 4.08 | 4.9 | 5.72 | 6.53 | 7.35 |
| 3200 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.85 | 1.69 | 2.53 | 3.38 | 4.23 | 5.07 | 5.91 | 6.76 | 7.6 |
| 3600 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 0.94 | 1.88 | 2.82 | 3.76 | 4.69 | 5.63 | 6.57 | 7.51 | 8.45 |
| 4000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.09 | 2.18 | 3.27 | 4.36 | 5.45 | 6.53 | 7.62 | 8.71 | 9.8 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.64 | 3.29 | 4.93 | 6.57 | 8.22 | 9.85 | 11.5 | 13.1 | 14.8 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.88 | 3.76 | 5.63 | 7.51 | 9.39 | 11.3 | 13.1 | 15 | 16.9 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.82 | 5.63 | 8.45 | 11.3 | 14.1 | 16.9 | 19.7 | 22.5 | 25.3 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 3.24 | 6.48 | 9.71 | 13 | 16.2 | 19.4 | 22.7 | 25.9 | 29.1 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 3.76 | 7.51 | 11.3 | 15 | 18.8 | 22.5 | 26.3 | 30 | 33.8 |

# Selection

## HT500 Basic HP Ratings - 14 mm

| 14M-68 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| | 4.912 | 5.088 | 5.263 | 5.439 | 5.614 | 5.790 | 5.965 | 6.141 | 6.316 | 6.492 | 6.667 | 6.842 | 7.018 | 7.193 | 7.369 | 7.720 | 7.895 | 8.421 | 8.772 |
| 10 | 3.98 | 4.15 | 4.32 | 4.47 | 4.62 | 4.78 | 4.93 | 5.08 | 5.24 | 5.39 | 5.54 | 5.70 | 5.85 | 6.01 | 6.17 | 6.49 | 6.65 | 7.11 | 7.41 |
| 20 | 6.26 | 6.53 | 6.77 | 7.02 | 7.28 | 7.51 | 7.75 | 8.01 | 8.26 | 8.52 | 8.77 | 9.01 | 9.25 | 9.49 | 9.74 | 10.23 | 10.48 | 11.22 | 11.71 |
| 40 | 10.40 | 10.81 | 11.25 | 11.68 | 12.10 | 12.53 | 12.95 | 13.38 | 13.80 | 14.23 | 14.65 | 15.06 | 15.47 | 15.89 | 16.30 | 17.14 | 17.55 | 18.80 | 19.64 |
| 60 | 14.28 | 14.86 | 15.47 | 16.05 | 16.63 | 17.22 | 17.82 | 18.41 | 19.01 | 19.58 | 20.16 | 20.74 | 21.32 | 21.90 | 22.47 | 23.63 | 24.21 | 25.94 | 27.08 |
| 100 | 21.59 | 22.51 | 23.39 | 24.31 | 25.23 | 26.13 | 27.03 | 27.93 | 28.83 | 29.73 | 30.63 | 31.52 | 32.40 | 33.29 | 34.17 | 35.94 | 36.82 | 39.47 | 41.23 |
| 200 | 38.52 | 40.19 | 41.85 | 43.51 | 45.15 | 46.79 | 48.42 | 50.05 | 51.68 | 53.31 | 54.94 | 56.56 | 58.17 | 59.78 | 61.38 | 64.60 | 66.20 | 70.99 | 74.16 |
| 300 | 54.37 | 56.75 | 59.13 | 61.47 | 63.82 | 66.16 | 68.51 | 70.84 | 73.17 | 75.48 | 77.79 | 80.09 | 82.38 | 84.68 | 86.97 | 91.56 | 93.82 | 100.61 | 105.11 |
| 400 | 69.56 | 72.62 | 75.65 | 78.68 | 81.70 | 84.71 | 87.72 | 90.71 | 93.70 | 96.70 | 99.69 | 102.64 | 105.60 | 108.55 | 111.50 | 117.40 | 120.31 | 129.06 | 134.85 |
| 500 | 84.18 | 87.92 | 91.63 | 95.32 | 99.01 | 102.66 | 106.32 | 109.97 | 113.63 | 117.25 | 120.87 | 124.47 | 128.08 | 131.67 | 135.25 | 142.43 | 145.97 | 156.60 | 163.63 |
| 600 | 98.43 | 102.82 | 107.17 | 111.51 | 115.84 | 120.14 | 124.44 | 128.73 | 133.01 | 137.26 | 141.51 | 145.74 | 149.97 | 154.17 | 158.37 | 166.77 | 170.92 | 183.40 | 191.67 |
| 700 | 112.34 | 117.37 | 122.33 | 127.30 | 132.26 | 137.19 | 142.12 | 147.03 | 151.95 | 156.81 | 161.67 | 166.52 | 171.36 | 176.17 | 180.98 | 190.60 | 195.36 | 209.61 | 219.05 |
| 800 | 125.97 | 131.61 | 137.19 | 142.79 | 148.38 | 153.93 | 159.46 | 164.97 | 170.48 | 175.95 | 181.42 | 186.88 | 192.34 | 197.73 | 203.13 | 213.93 | 219.26 | 235.28 | 245.88 |
| 870 | 135.35 | 141.41 | 147.46 | 153.46 | 159.46 | 165.43 | 171.39 | 177.33 | 183.26 | 189.16 | 195.06 | 200.92 | 206.79 | 212.59 | 218.40 | 230.01 | 235.76 | 252.99 | 264.37 |
| 1000 | 152.46 | 159.32 | 166.12 | 172.92 | 179.69 | 186.45 | 193.19 | 199.89 | 206.58 | 213.25 | 219.91 | 226.52 | 233.14 | 239.68 | 246.24 | 259.35 | 265.82 | 285.26 | 298.09 |
| 1160 | 173.03 | 180.85 | 188.60 | 196.33 | 204.07 | 211.74 | 219.40 | 227.04 | 234.67 | 242.23 | 249.80 | 257.31 | 264.83 | 272.28 | 279.74 | 294.64 | 301.99 | 324.02 | 338.57 |
| 1200 | 178.09 | 186.15 | 194.14 | 202.11 | 210.05 | 217.97 | 225.86 | 233.72 | 241.57 | 249.36 | 257.14 | 264.89 | 272.65 | 280.30 | 287.97 | 303.31 | 310.87 | 333.57 | 348.56 |
| 1400 | 202.98 | 212.23 | 221.34 | 230.45 | 239.56 | 248.59 | 257.62 | 266.59 | 275.57 | 284.46 | 293.35 | 302.19 | 311.03 | 319.77 | 328.51 | 345.98 | 354.59 | 380.43 | 397.46 |
| 1600 | 227.26 | 237.63 | 247.89 | 258.11 | 268.29 | 278.44 | 288.56 | 298.61 | 308.65 | 318.63 | 328.61 | 338.48 | 348.36 | 358.14 | 367.92 | 387.50 | 397.10 | 425.95 | 444.96 |
| 1750 | 245.11 | 256.29 | 267.34 | 278.38 | 289.41 | 300.34 | 311.27 | 322.12 | 332.96 | 343.71 | 354.45 | 365.11 | 375.77 | 386.30 | 396.83 | 417.89 | 428.24 | 459.27 | 479.66 |
| 2000 | 274.14 | 286.69 | 299.06 | 311.45 | 323.78 | 336.04 | 348.26 | 360.37 | 372.47 | 384.47 | 396.47 | 408.37 | 420.27 | 431.99 | 443.72 | 467.19 | 478.68 | 513.20 | 535.83 |
| 2400 | 318.99 | 333.61 | 348.06 | 362.42 | 376.79 | 391.00 | 405.21 | 419.27 | 433.33 | 447.24 | 461.14 | 474.90 | 488.65 | 502.16 | 515.68 | 542.71 | 555.91 | 595.51 | 621.33 |
| 2800 | 362.03 | 378.62 | 395.01 | 411.31 | 427.55 | 443.64 | 459.68 | 475.55 | 491.40 | 507.06 | 522.72 | 538.16 | 553.62 | 568.73 | 583.86 | 614.14 | 628.83 | 672.96 | – |
| 3000 | 382.87 | 400.42 | 417.72 | 434.91 | 452.10 | 469.05 | 486.00 | 502.71 | 519.42 | 535.89 | 552.36 | 568.60 | 584.83 | 600.70 | 616.57 | 648.31 | – | – | – |
| 3500 | 433.19 | 452.95 | 472.46 | 491.81 | 511.09 | 530.10 | 549.07 | 567.75 | 586.40 | 604.74 | 623.08 | 641.09 | 659.12 | 494.53 | 329.80 | – | – | – | – |
| 4000 | 480.90 | 502.72 | 524.21 | 545.46 | 566.71 | 587.52 | 608.33 | 628.69 | 649.06 | 324.53 | – | – | – | – | – | – | – | – | – |

| 14M-68 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 52 | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to 1.03 | 1.04 to 1.10 | 1.11 to 1.19 | 1.20 to 1.30 | 1.31 to 1.45 | 1.46 to 1.67 | 1.68 to 2.02 | 2.03 to 2.69 | 2.70 to 4.64 | 4.65 and over |
| | 9.123 | 9.299 | 9.825 | 10.527 | 11.053 | 11.229 | 11.755 | 12.457 | 12.632 | 13.158 | 14.036 | | | | | | | | | | |
| 10 | 7.72 | 7.86 | 8.30 | 8.91 | 9.37 | 9.52 | 9.98 | 10.59 | 10.74 | 11.19 | 11.93 | – | – | – | – | – | – | – | – | – | – |
| 20 | 12.21 | 12.45 | 13.19 | 14.16 | 14.89 | 15.13 | 15.84 | 16.80 | 17.03 | 17.75 | 18.94 | – | – | – | – | – | – | – | – | – | – |
| 40 | 20.47 | 20.88 | 22.10 | 23.73 | 24.96 | 25.36 | 26.58 | 28.19 | 28.59 | 29.81 | 31.82 | – | – | – | – | – | – | – | – | – | – |
| 60 | 28.22 | 28.79 | 30.50 | 32.76 | 34.45 | 35.02 | 36.69 | 38.92 | 39.47 | 41.14 | 43.93 | – | – | – | – | – | – | – | – | – | – |
| 100 | 42.98 | 43.84 | 46.44 | 49.90 | 52.48 | 53.35 | 55.90 | 59.30 | 60.15 | 62.68 | 66.91 | – | – | – | – | – | – | – | – | – | – |
| 200 | 77.32 | 78.89 | 83.61 | 89.83 | 94.49 | 96.05 | 100.68 | 106.85 | 108.39 | 112.96 | 120.56 | – | – | – | – | – | – | – | – | – | – |
| 300 | 109.62 | 111.85 | 118.56 | 127.42 | 134.06 | 136.27 | 142.83 | 151.56 | 153.75 | 160.24 | 171.05 | 0.00 | 0.15 | 0.3 | 0.46 | 0.61 | 0.76 | 0.91 | 1.06 | 1.21 | 1.37 |
| 400 | 140.62 | 143.50 | 152.12 | 163.49 | 172.01 | 174.86 | 183.27 | 194.50 | 197.30 | 205.61 | 219.47 | 0.00 | 0.17 | 0.35 | 0.52 | 0.69 | 0.86 | 1.03 | 1.21 | 1.38 | 1.55 |
| 500 | 170.65 | 174.14 | 184.62 | 198.42 | 208.78 | 212.23 | 222.43 | 236.03 | 239.43 | 249.51 | 266.32 | 0.00 | 0.2 | 0.4 | 0.61 | 0.81 | 1.01 | 1.21 | 1.41 | 1.61 | 1.82 |
| 600 | 199.92 | 204.01 | 216.27 | 232.44 | 244.56 | 248.61 | 260.54 | 276.46 | 280.43 | 292.21 | 311.85 | 0.00 | 0.3 | 0.6 | 0.91 | 1.21 | 1.51 | 1.81 | 2.11 | 2.42 | 2.72 |
| 700 | 228.48 | 233.16 | 247.18 | 265.64 | 279.49 | 284.10 | 297.73 | 315.91 | 320.45 | 333.88 | 356.25 | 0.00 | 0.35 | 0.69 | 1.03 | 1.38 | 1.73 | 2.07 | 2.42 | 2.76 | 3.11 |
| 800 | 256.46 | 261.71 | 277.44 | 298.14 | 313.66 | 318.85 | 334.11 | 354.46 | 359.55 | 374.58 | 399.64 | 0.00 | 0.4 | 0.8 | 1.21 | 1.61 | 2.01 | 2.41 | 2.81 | 3.22 | 3.62 |
| 870 | 275.74 | 281.38 | 298.28 | 320.52 | 337.20 | 342.75 | 359.14 | 380.98 | 386.44 | 402.56 | 429.42 | 0.00 | 0.52 | 1.04 | 1.55 | 2.07 | 2.59 | 3.1 | 3.62 | 4.14 | 4.66 |
| 1000 | 310.90 | 317.25 | 336.29 | 361.29 | 380.04 | 386.31 | 404.70 | 429.24 | 435.37 | 453.42 | 483.51 | 0.00 | 0.6 | 1.21 | 1.81 | 2.42 | 3.02 | 3.62 | 4.23 | 4.83 | 5.43 |
| 1160 | 353.12 | 360.32 | 381.89 | 410.19 | 431.42 | 438.50 | 459.26 | 486.93 | 493.85 | 514.19 | 548.08 | 0.00 | 0.69 | 1.38 | 2.07 | 2.76 | 3.45 | 4.14 | 4.83 | 5.52 | 6.21 |
| 1200 | 363.53 | 370.93 | 393.11 | 422.20 | 444.02 | 451.32 | 472.64 | 501.09 | 508.20 | 529.08 | 563.89 | 0.00 | 0.86 | 1.73 | 2.59 | 3.45 | 4.31 | 5.17 | 6.04 | 6.9 | 7.76 |
| 1400 | 414.49 | 422.89 | 448.09 | 481.05 | 505.77 | 514.01 | 538.08 | 570.18 | 578.20 | 601.69 | 640.83 | 0.00 | 0.99 | 1.98 | 2.98 | 3.97 | 4.96 | 5.95 | 6.94 | 7.94 | 8.93 |
| 1600 | 463.93 | 473.29 | 501.33 | 537.92 | 565.36 | 574.53 | 601.13 | 636.62 | 645.49 | 671.31 | 714.34 | 0.00 | 1.04 | 2.07 | 3.1 | 4.14 | 5.18 | 6.21 | 7.25 | 8.28 | 9.32 |
| 1750 | 500.04 | 510.07 | 540.16 | 579.31 | 608.67 | 618.46 | 646.84 | 684.68 | 694.14 | 721.56 | 767.24 | 0.00 | 1.19 | 2.38 | 3.57 | 4.76 | 5.95 | 7.14 | 8.33 | 9.52 | 10.7 |
| 2000 | 558.42 | 569.52 | 602.79 | 645.88 | 678.21 | 689.01 | – | – | – | – | – | 0.00 | 1.21 | 2.42 | 3.62 | 4.83 | 6.04 | 7.24 | 8.45 | 9.66 | 10.9 |
| 2400 | 647.16 | 659.76 | 697.58 | – | – | – | – | – | – | – | – | 0.00 | 1.38 | 2.76 | 4.14 | 5.52 | 6.9 | 8.28 | 9.66 | 11 | 12.4 |
| 2800 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.5 | 3 | 4.5 | 6 | 7.51 | 9 | 10.5 | 12 | 13.5 |
| 3000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.55 | 3.11 | 4.66 | 6.21 | 7.76 | 9.31 | 10.9 | 12.4 | 14 |
| 3500 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.73 | 3.45 | 5.17 | 6.9 | 8.63 | 10.3 | 12.1 | 13.8 | 15.5 |
| 4000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2 | 4 | 6 | 8.01 | 10 | 12 | 14 | 16 | 18 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 3.02 | 6.04 | 9.05 | 12.1 | 15.1 | 18.1 | 21.1 | 24.2 | 27.2 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 3.45 | 6.9 | 10.3 | 13.8 | 17.3 | 20.7 | 24.2 | 27.6 | 31.1 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 5.18 | 10.4 | 15.5 | 20.7 | 25.9 | 31 | 36.2 | 41.4 | 46.6 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 5.96 | 11.9 | 17.9 | 23.8 | 29.8 | 35.7 | 41.7 | 47.6 | 53.6 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 6.91 | 13.8 | 20.7 | 27.6 | 34.5 | 41.4 | 48.3 | 55.2 | 62.1 |

# Selection

## HT500 Basic HP Ratings - 14 mm

| 14M-90 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| | 4.912 | 5.088 | 5.263 | 5.439 | 5.614 | 5.790 | 5.965 | 6.141 | 6.316 | 6.492 | 6.667 | 6.842 | 7.018 | 7.193 | 7.369 | 7.720 | 7.895 | 8.421 | 8.772 |
| 10 | 5.27 | 5.49 | 5.72 | 5.92 | 6.12 | 6.32 | 6.53 | 6.73 | 6.93 | 7.13 | 7.34 | 7.54 | 7.74 | 7.95 | 8.17 | 8.60 | 8.80 | 9.41 | 9.81 |
| 20 | 8.28 | 8.64 | 8.96 | 9.29 | 9.63 | 9.95 | 10.26 | 10.60 | 10.94 | 11.27 | 11.61 | 11.92 | 12.24 | 12.57 | 12.89 | 13.55 | 13.87 | 14.85 | 15.50 |
| 40 | 13.77 | 14.31 | 14.90 | 15.46 | 16.02 | 16.58 | 17.15 | 17.71 | 18.27 | 18.83 | 19.40 | 19.94 | 20.48 | 21.03 | 21.58 | 22.68 | 23.23 | 24.89 | 25.99 |
| 60 | 18.90 | 19.67 | 20.48 | 21.24 | 22.01 | 22.79 | 23.58 | 24.37 | 25.16 | 25.92 | 26.69 | 27.45 | 28.22 | 28.98 | 29.74 | 31.28 | 32.04 | 34.34 | 35.84 |
| 100 | 28.58 | 29.79 | 30.96 | 32.18 | 33.39 | 34.58 | 35.78 | 36.97 | 38.16 | 39.35 | 40.55 | 41.72 | 42.89 | 44.06 | 45.23 | 47.57 | 48.74 | 52.25 | 54.56 |
| 200 | 50.99 | 53.19 | 55.40 | 57.58 | 59.76 | 61.92 | 64.08 | 66.24 | 68.40 | 70.56 | 72.72 | 74.86 | 77.00 | 79.12 | 81.24 | 85.50 | 87.61 | 93.96 | 98.15 |
| 300 | 71.96 | 75.11 | 78.26 | 81.36 | 84.47 | 87.57 | 90.68 | 93.76 | 96.84 | 99.90 | 102.96 | 106.00 | 109.04 | 112.07 | 115.11 | 121.19 | 124.18 | 133.16 | 139.12 |
| 400 | 92.07 | 96.12 | 100.13 | 104.14 | 108.14 | 112.12 | 116.10 | 120.06 | 124.02 | 127.98 | 131.94 | 135.85 | 139.77 | 143.67 | 147.57 | 155.39 | 159.24 | 170.82 | 178.48 |
| 500 | 111.42 | 116.37 | 121.28 | 126.16 | 131.04 | 135.88 | 140.72 | 145.55 | 150.39 | 155.18 | 159.98 | 164.75 | 169.52 | 174.26 | 179.01 | 188.51 | 193.20 | 207.27 | 216.56 |
| 600 | 130.28 | 136.08 | 141.84 | 147.59 | 153.32 | 159.01 | 164.70 | 170.37 | 176.04 | 181.67 | 187.29 | 192.89 | 198.50 | 204.05 | 209.60 | 220.73 | 226.22 | 242.73 | 253.67 |
| 700 | 148.68 | 155.34 | 161.91 | 168.48 | 175.05 | 181.58 | 188.10 | 194.60 | 201.11 | 207.54 | 213.98 | 220.39 | 226.80 | 233.17 | 239.54 | 252.27 | 258.56 | 277.43 | 289.91 |
| 800 | 166.73 | 174.20 | 181.58 | 188.99 | 196.38 | 203.72 | 211.05 | 218.35 | 225.63 | 232.88 | 240.12 | 247.34 | 254.57 | 261.70 | 268.84 | 283.14 | 290.20 | 311.40 | 325.43 |
| 870 | 179.15 | 187.16 | 195.17 | 203.11 | 211.05 | 218.95 | 226.85 | 234.70 | 242.55 | 250.36 | 258.17 | 265.93 | 273.69 | 281.37 | 289.06 | 304.43 | 312.03 | 334.85 | 349.90 |
| 1000 | 201.78 | 210.87 | 219.87 | 228.86 | 237.83 | 246.77 | 255.69 | 264.56 | 273.42 | 282.24 | 291.06 | 299.81 | 308.57 | 317.23 | 325.90 | 343.26 | 351.82 | 377.55 | 394.53 |
| 1160 | 229.01 | 239.36 | 249.62 | 259.85 | 270.09 | 280.24 | 290.39 | 300.49 | 310.59 | 320.60 | 330.62 | 340.56 | 350.51 | 360.37 | 370.24 | 389.97 | 399.69 | 428.85 | 448.11 |
| 1200 | 235.71 | 246.38 | 256.95 | 267.50 | 278.01 | 288.49 | 298.94 | 309.34 | 319.73 | 330.03 | 340.34 | 350.59 | 360.86 | 370.99 | 381.14 | 401.45 | 411.45 | 441.50 | 461.34 |
| 1400 | 268.65 | 280.89 | 292.95 | 305.01 | 317.07 | 329.02 | 340.97 | 352.85 | 364.73 | 376.49 | 388.26 | 399.96 | 411.66 | 423.23 | 434.79 | 457.92 | 469.32 | 503.51 | 526.05 |
| 1600 | 300.78 | 314.51 | 328.10 | 341.62 | 355.10 | 368.52 | 381.92 | 395.22 | 408.51 | 421.72 | 434.93 | 447.99 | 461.07 | 474.00 | 486.95 | 512.87 | 525.58 | 563.76 | 588.92 |
| 1750 | 324.41 | 339.21 | 353.84 | 368.44 | 383.04 | 397.51 | 411.98 | 426.33 | 440.69 | 454.91 | 469.13 | 483.23 | 497.34 | 511.28 | 525.22 | 553.10 | 566.79 | 607.86 | 634.84 |
| 2000 | 362.84 | 379.44 | 395.82 | 412.21 | 428.54 | 444.76 | 460.94 | 476.97 | 492.98 | 508.86 | 524.75 | 540.49 | 556.25 | 571.75 | 587.27 | 618.35 | 633.55 | 679.23 | 709.18 |
| 2400 | 422.19 | 441.54 | 460.67 | 479.68 | 498.69 | 517.50 | 536.31 | 554.92 | 573.53 | 591.93 | 610.34 | 628.54 | 646.74 | 664.63 | 682.52 | 718.29 | 735.76 | 788.18 | 822.35 |
| 2800 | 479.16 | 501.12 | 522.81 | 544.38 | 565.88 | 587.17 | 608.40 | 629.41 | 650.39 | 671.11 | 691.83 | 712.27 | 732.74 | 752.74 | 772.76 | 812.84 | 832.28 | 890.69 | – |
| 3000 | 506.75 | 529.97 | 552.87 | 575.62 | 598.37 | 620.80 | 643.23 | 665.35 | 687.47 | 709.27 | 731.07 | 752.56 | 774.05 | 795.05 | 816.05 | 858.06 | – | – | – |
| 3500 | 573.35 | 599.49 | 625.32 | 650.93 | 676.44 | 701.61 | 726.71 | 751.43 | 776.12 | 800.39 | 824.67 | 848.51 | 872.37 | – | – | – | – | – | – |
| 4000 | 636.48 | 665.37 | 693.81 | 721.94 | 750.06 | 777.60 | 805.14 | 832.10 | 859.05 | – | – | – | – | – | – | – | – | – | – |

| 14M-90 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 52 | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to 1.03 | 1.04 to 1.10 | 1.11 to 1.19 | 1.20 to 1.30 | 1.31 to 1.45 | 1.46 to 1.67 | 1.68 to 2.02 | 2.03 to 2.69 | 2.70 to 4.64 | 4.65 and over |
| | 9.123 | 9.299 | 9.825 | 10.527 | 11.053 | 11.229 | 11.755 | 12.457 | 12.632 | 13.158 | 14.036 | | | | | | | | | | |
| 10 | 10.22 | 10.41 | 10.98 | 11.79 | 12.40 | 12.60 | 13.21 | 14.02 | 14.22 | 14.81 | 15.80 | – | – | – | – | – | – | – | – | – | – |
| 20 | 16.16 | 16.48 | 17.46 | 18.74 | 19.70 | 20.03 | 20.97 | 22.23 | 22.55 | 23.49 | 25.07 | – | – | – | – | – | – | – | – | – | – |
| 40 | 27.09 | 27.63 | 29.25 | 31.41 | 33.03 | 33.57 | 35.17 | 37.31 | 37.85 | 39.45 | 42.12 | – | – | – | – | – | – | – | – | – | – |
| 60 | 37.35 | 38.10 | 40.37 | 43.36 | 45.60 | 46.35 | 48.56 | 51.51 | 52.25 | 54.46 | 58.14 | – | – | – | – | – | – | – | – | – | – |
| 100 | 56.88 | 58.03 | 61.47 | 66.04 | 69.46 | 70.61 | 73.98 | 78.48 | 79.61 | 82.96 | 88.56 | – | – | – | – | – | – | – | – | – | – |
| 200 | 102.33 | 104.41 | 110.66 | 118.89 | 125.06 | 127.13 | 133.25 | 141.42 | 143.46 | 149.50 | 159.57 | – | – | – | – | – | – | – | – | – | – |
| 300 | 145.08 | 148.04 | 156.92 | 168.64 | 177.43 | 180.36 | 189.03 | 200.60 | 203.49 | 212.08 | 226.40 | 0.00 | 0.2 | 0.4 | 0.6 | 0.8 | 1 | 1.21 | 1.41 | 1.61 | 1.81 |
| 400 | 186.12 | 189.93 | 201.33 | 216.38 | 227.66 | 231.44 | 242.57 | 257.42 | 261.14 | 272.14 | 290.48 | 0.00 | 0.23 | 0.46 | 0.68 | 0.91 | 1.14 | 1.37 | 1.6 | 1.83 | 2.05 |
| 500 | 225.86 | 230.48 | 244.35 | 262.62 | 276.32 | 280.89 | 294.39 | 312.39 | 316.89 | 330.24 | 352.49 | 0.00 | 0.27 | 0.53 | 0.8 | 1.07 | 1.34 | 1.6 | 1.87 | 2.14 | 2.4 |
| 600 | 264.60 | 270.02 | 286.25 | 307.64 | 323.68 | 329.04 | 344.83 | 365.90 | 371.16 | 386.75 | 412.74 | 0.00 | 0.4 | 0.8 | 1.2 | 1.6 | 2 | 2.4 | 2.8 | 3.2 | 3.6 |
| 700 | 302.40 | 308.59 | 327.15 | 351.59 | 369.91 | 376.02 | 394.06 | 418.11 | 424.13 | 441.89 | 471.51 | 0.00 | 0.46 | 0.91 | 1.37 | 1.83 | 2.28 | 2.74 | 3.2 | 3.65 | 4.11 |
| 800 | 339.44 | 346.38 | 367.20 | 394.60 | 415.14 | 422.01 | 442.20 | 469.14 | 475.88 | 495.77 | 528.93 | 0.00 | 0.53 | 1.06 | 1.6 | 2.13 | 2.66 | 3.19 | 3.72 | 4.26 | 4.79 |
| 870 | 364.95 | 372.41 | 394.79 | 424.22 | 446.29 | 453.65 | 475.33 | 504.24 | 511.47 | 532.80 | 568.35 | 0.00 | 0.69 | 1.37 | 2.05 | 2.74 | 3.43 | 4.11 | 4.79 | 5.48 | 6.16 |
| 1000 | 411.48 | 419.89 | 445.10 | 478.18 | 503.00 | 511.29 | 535.63 | 568.11 | 576.23 | 600.12 | 639.95 | 0.00 | 0.8 | 1.6 | 2.4 | 3.2 | 4 | 4.79 | 5.59 | 6.39 | 7.19 |
| 1160 | 467.37 | 476.89 | 505.44 | 542.90 | 571.00 | 580.37 | 607.84 | 644.47 | 653.63 | 680.54 | 725.40 | 0.00 | 0.91 | 1.83 | 2.74 | 3.65 | 4.57 | 5.48 | 6.39 | 7.31 | 8.22 |
| 1200 | 481.14 | 490.94 | 520.29 | 558.80 | 587.68 | 597.33 | 625.55 | 663.21 | 672.62 | 700.26 | 746.33 | 0.00 | 1.14 | 2.28 | 3.42 | 4.57 | 5.71 | 6.85 | 7.99 | 9.13 | 10.3 |
| 1400 | 548.60 | 559.71 | 593.06 | 636.68 | 669.40 | 680.31 | 712.17 | 754.65 | 765.27 | 796.35 | 848.16 | 0.00 | 1.31 | 2.63 | 3.94 | 5.25 | 6.57 | 7.88 | 9.19 | 10.5 | 11.8 |
| 1600 | 614.03 | 626.41 | 663.53 | 711.95 | 748.27 | 760.41 | 795.61 | 842.59 | 854.33 | 888.50 | 945.45 | 0.00 | 1.37 | 2.74 | 4.11 | 5.48 | 6.85 | 8.22 | 9.59 | 11 | 12.3 |
| 1750 | 661.82 | 675.09 | 714.92 | 766.73 | 805.60 | 818.55 | 856.11 | 906.20 | 918.72 | 955.00 | 1015.47 | 0.00 | 1.58 | 3.15 | 4.73 | 6.3 | 7.88 | 9.45 | 11 | 12.6 | 14.2 |
| 2000 | 739.08 | 753.77 | 797.81 | 854.85 | 897.63 | 911.93 | – | – | – | – | – | 0.00 | 1.6 | 3.2 | 4.79 | 6.39 | 7.99 | 9.59 | 11.2 | 12.8 | 14.4 |
| 2400 | 856.53 | 873.21 | 923.27 | – | – | – | – | – | – | – | – | 0.00 | 1.83 | 3.65 | 5.48 | 7.31 | 9.14 | 11 | 12.8 | 14.6 | 16.4 |
| 2800 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 1.99 | 3.97 | 5.96 | 7.95 | 9.93 | 11.9 | 13.9 | 15.9 | 17.9 |
| 3000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.06 | 4.11 | 6.16 | 8.22 | 10.3 | 12.3 | 14.4 | 16.4 | 18.5 |
| 3500 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.29 | 4.57 | 6.85 | 9.13 | 11.4 | 13.7 | 16 | 18.3 | 20.5 |
| 4000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.65 | 5.3 | 7.94 | 10.6 | 13.2 | 15.9 | 18.5 | 21.2 | 23.8 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 4 | 7.99 | 12 | 16 | 20 | 24 | 28 | 32 | 36 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 4.57 | 9.13 | 13.7 | 18.3 | 22.8 | 27.4 | 32 | 36.5 | 41.1 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 6.86 | 13.7 | 20.5 | 27.4 | 34.3 | 41.1 | 47.9 | 54.8 | 61.6 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 7.88 | 15.8 | 23.6 | 31.5 | 39.4 | 47.3 | 55.1 | 63 | 70.9 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 9.14 | 18.3 | 27.4 | 36.5 | 45.7 | 54.8 | 63.9 | 73.1 | 82.2 |

# Selection

## HT500 Basic HP Ratings - 14 mm

| 14M-125 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 44 | 45 | 48 | 50 |
| | 4.912 | 5.088 | 5.263 | 5.439 | 5.614 | 5.790 | 5.965 | 6.141 | 6.316 | 6.492 | 6.667 | 6.842 | 7.018 | 7.193 | 7.369 | 7.720 | 7.895 | 8.421 | 8.772 |
| 10 | 7.31 | 7.63 | 7.94 | 8.22 | 8.50 | 8.78 | 9.06 | 9.34 | 9.63 | 9.91 | 10.19 | 10.47 | 10.75 | 11.05 | 11.34 | 11.94 | 12.22 | 13.06 | 13.63 |
| 20 | 11.50 | 12.00 | 12.44 | 12.91 | 13.38 | 13.81 | 14.25 | 14.72 | 15.19 | 15.66 | 16.13 | 16.56 | 17.00 | 17.45 | 17.91 | 18.81 | 19.27 | 20.63 | 21.53 |
| 40 | 19.13 | 19.88 | 20.69 | 21.47 | 22.25 | 23.03 | 23.81 | 24.59 | 25.38 | 26.16 | 26.94 | 27.69 | 28.44 | 29.20 | 29.97 | 31.50 | 32.27 | 34.56 | 36.09 |
| 60 | 26.25 | 27.31 | 28.44 | 29.50 | 30.56 | 31.66 | 32.75 | 33.84 | 34.94 | 36.00 | 37.06 | 38.12 | 39.19 | 40.25 | 41.31 | 43.44 | 44.50 | 47.69 | 49.78 |
| 100 | 39.69 | 41.38 | 43.00 | 44.69 | 46.38 | 48.03 | 49.69 | 51.34 | 53.00 | 54.66 | 56.31 | 57.94 | 59.56 | 61.19 | 62.81 | 66.06 | 67.69 | 72.56 | 75.78 |
| 200 | 70.81 | 73.88 | 76.94 | 79.97 | 83.00 | 86.00 | 89.00 | 92.00 | 95.00 | 98.00 | 101.00 | 103.97 | 106.94 | 109.89 | 112.84 | 118.75 | 121.68 | 130.50 | 136.32 |
| 300 | 99.94 | 104.31 | 108.69 | 113.00 | 117.31 | 121.63 | 125.94 | 130.22 | 134.50 | 138.75 | 143.00 | 147.22 | 151.44 | 155.66 | 159.88 | 168.31 | 172.47 | 184.94 | 193.22 |
| 400 | 127.88 | 133.50 | 139.06 | 144.64 | 150.19 | 155.73 | 161.25 | 166.75 | 172.25 | 177.75 | 183.25 | 188.68 | 194.13 | 199.54 | 204.96 | 215.81 | 221.17 | 237.25 | 247.88 |
| 500 | 154.75 | 161.63 | 168.44 | 175.22 | 182.00 | 188.72 | 195.44 | 202.16 | 208.88 | 215.53 | 222.19 | 228.81 | 235.44 | 242.03 | 248.63 | 261.81 | 268.33 | 287.88 | 300.78 |
| 600 | 180.94 | 189.00 | 197.00 | 204.98 | 212.94 | 220.85 | 228.75 | 236.63 | 244.50 | 252.31 | 260.13 | 267.90 | 275.69 | 283.40 | 291.11 | 306.56 | 314.20 | 337.13 | 352.33 |
| 700 | 206.50 | 215.75 | 224.88 | 234.00 | 243.13 | 252.19 | 261.25 | 270.28 | 279.31 | 288.25 | 297.19 | 306.09 | 315.00 | 323.84 | 332.69 | 350.38 | 359.11 | 385.31 | 402.66 |
| 800 | 231.56 | 241.94 | 252.19 | 262.49 | 272.75 | 282.95 | 293.13 | 303.26 | 313.38 | 323.44 | 333.50 | 343.53 | 353.56 | 363.47 | 373.39 | 393.25 | 403.05 | 432.50 | 451.99 |
| 870 | 248.81 | 259.94 | 271.06 | 282.09 | 293.13 | 304.09 | 315.06 | 325.97 | 336.88 | 347.72 | 358.56 | 369.34 | 380.13 | 390.80 | 401.47 | 422.81 | 433.38 | 465.06 | 485.97 |
| 1000 | 280.25 | 292.88 | 305.38 | 317.87 | 330.31 | 342.74 | 355.13 | 367.45 | 379.75 | 392.00 | 404.25 | 416.40 | 428.56 | 440.60 | 452.64 | 476.75 | 488.65 | 524.38 | 547.96 |
| 1160 | 318.06 | 332.44 | 346.69 | 360.91 | 375.13 | 389.22 | 403.31 | 417.34 | 431.38 | 445.28 | 459.19 | 473.00 | 486.81 | 500.52 | 514.22 | 541.63 | 555.13 | 595.63 | 622.38 |
| 1200 | 327.38 | 342.19 | 356.88 | 371.53 | 386.13 | 400.68 | 415.19 | 429.64 | 444.06 | 458.38 | 472.69 | 486.93 | 501.19 | 515.27 | 529.35 | 557.56 | 571.46 | 613.19 | 640.74 |
| 1400 | 373.13 | 390.13 | 406.88 | 423.63 | 440.38 | 456.97 | 473.56 | 490.06 | 506.56 | 522.91 | 539.25 | 555.50 | 571.75 | 587.81 | 603.88 | 636.00 | 651.83 | 699.31 | 730.63 |
| 1600 | 417.75 | 436.81 | 455.69 | 474.47 | 493.19 | 511.84 | 530.44 | 548.92 | 567.38 | 585.72 | 604.06 | 622.21 | 640.38 | 658.34 | 676.32 | 712.31 | 729.97 | 783.00 | 817.94 |
| 1750 | 450.56 | 471.13 | 491.44 | 511.72 | 532.00 | 552.09 | 572.19 | 592.13 | 612.06 | 631.81 | 651.56 | 671.16 | 690.75 | 710.11 | 729.47 | 768.19 | 787.20 | 844.25 | 881.72 |
| 2000 | 503.94 | 527.00 | 549.75 | 572.51 | 595.19 | 617.72 | 640.19 | 662.45 | 684.69 | 706.75 | 728.81 | 750.68 | 772.56 | 794.10 | 815.66 | 858.81 | 879.93 | 943.38 | 984.98 |
| 2400 | 586.38 | 613.25 | 639.81 | 666.22 | 692.63 | 718.75 | 744.88 | 770.72 | 796.56 | 822.13 | 847.69 | 872.97 | 898.25 | 923.09 | 947.94 | 997.63 | 1021.89 | 1094.69 | 1142.16 |
| 2800 | 665.50 | 696.00 | 726.13 | 756.09 | 785.94 | 815.51 | 845.00 | 874.18 | 903.31 | 932.10 | 960.88 | 989.27 | 1017.69 | 1045.47 | 1073.27 | 1128.94 | 1155.94 | 1237.06 | – |
| 3000 | 703.81 | 736.06 | 767.88 | 799.47 | 831.06 | 862.22 | 893.38 | 924.09 | 954.81 | 985.09 | 1015.38 | 1045.22 | 1075.06 | 1104.23 | 1133.41 | 1191.75 | – | – | – |
| 3500 | 796.31 | 832.63 | 868.50 | 904.07 | 939.50 | 974.45 | 1009.31 | 1043.65 | 1077.94 | 1111.66 | 1145.38 | 1178.48 | 1211.63 | – | – | – | – | – | – |
| 4000 | 884.00 | 924.13 | 963.63 | 1002.69 | 1041.75 | 1080.00 | 1118.25 | 1155.69 | 1193.13 | 596.56 | – | – | – | – | – | – | – | – | – |

| 14M-125 | Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches) | | | | | | | | | | | Additional HP required per belt for speed ratio of speed down drive | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Shaft | 52 | 53 | 56 | 60 | 63 | 64 | 67 | 71 | 72 | 75 | 80 | 1.00 to 1.03 | 1.04 to 1.10 | 1.11 to 1.19 | 1.20 to 1.30 | 1.31 to 1.45 | 1.46 to 1.67 | 1.68 to 2.02 | 2.03 to 2.69 | 2.70 to 4.64 | 4.65 and over |
| | 9.123 | 9.299 | 9.825 | 10.527 | 11.053 | 11.229 | 11.755 | 12.457 | 12.632 | 13.158 | 14.036 | | | | | | | | | | |
| 10 | 14.19 | 14.45 | 15.25 | 16.38 | 17.22 | 17.50 | 18.34 | 19.47 | 19.75 | 20.57 | 21.94 | – | – | – | – | – | – | – | – | – | – |
| 20 | 22.44 | 22.89 | 24.25 | 26.03 | 27.37 | 27.81 | 29.12 | 30.88 | 31.31 | 32.62 | 34.81 | – | – | – | – | – | – | – | – | – | – |
| 40 | 37.63 | 38.38 | 40.63 | 43.63 | 45.88 | 46.63 | 48.85 | 51.82 | 52.56 | 54.79 | 58.50 | – | – | – | – | – | – | – | – | – | – |
| 60 | 51.88 | 52.92 | 56.06 | 60.22 | 63.33 | 64.38 | 67.44 | 71.54 | 72.56 | 75.63 | 80.75 | – | – | – | – | – | – | – | – | – | – |
| 100 | 79.00 | 80.59 | 85.38 | 91.72 | 96.48 | 98.06 | 102.75 | 109.00 | 110.56 | 115.23 | 123.00 | – | – | – | – | – | – | – | – | – | – |
| 200 | 142.13 | 145.02 | 153.69 | 165.12 | 173.70 | 176.56 | 185.07 | 196.42 | 199.25 | 207.64 | 221.63 | – | – | – | – | – | – | – | – | – | – |
| 300 | 201.50 | 205.61 | 217.94 | 234.22 | 246.43 | 250.50 | 262.55 | 278.61 | 282.63 | 294.55 | 314.44 | 0.00 | 0.28 | 0.56 | 0.84 | 1.12 | 1.4 | 1.67 | 1.95 | 2.23 | 2.51 |
| 400 | 258.50 | 263.79 | 279.63 | 300.52 | 316.20 | 321.44 | 336.90 | 357.53 | 362.69 | 377.97 | 403.44 | 0.00 | 0.32 | 0.63 | 0.95 | 1.27 | 1.59 | 1.9 | 2.22 | 2.54 | 2.85 |
| 500 | 313.69 | 320.11 | 339.38 | 364.75 | 383.78 | 390.13 | 408.88 | 433.88 | 440.13 | 458.66 | 489.56 | 0.00 | 0.37 | 0.74 | 1.11 | 1.48 | 1.86 | 2.23 | 2.6 | 2.97 | 3.34 |
| 600 | 367.50 | 375.02 | 397.56 | 427.27 | 449.55 | 457.00 | 478.93 | 508.19 | 515.50 | 537.16 | 573.25 | 0.00 | 0.56 | 1.11 | 1.66 | 2.22 | 2.78 | 3.33 | 3.88 | 4.44 | 4.99 |
| 700 | 420.00 | 428.59 | 454.38 | 488.31 | 513.77 | 522.25 | 547.30 | 580.71 | 589.06 | 613.74 | 654.88 | 0.00 | 0.63 | 1.27 | 1.9 | 2.54 | 3.17 | 3.81 | 4.44 | 5.07 | 5.71 |
| 800 | 471.44 | 481.09 | 510.00 | 548.05 | 576.59 | 586.13 | 614.17 | 651.59 | 660.94 | 688.57 | 734.63 | 0.00 | 0.74 | 1.48 | 2.22 | 2.96 | 3.7 | 4.43 | 5.17 | 5.91 | 6.65 |
| 870 | 506.88 | 517.23 | 548.31 | 589.19 | 619.84 | 630.06 | 660.18 | 700.34 | 710.38 | 740.00 | 789.38 | 0.00 | 0.95 | 1.9 | 2.85 | 3.81 | 4.76 | 5.71 | 6.66 | 7.61 | 8.56 |
| 1000 | 571.50 | 583.18 | 618.19 | 664.14 | 698.61 | 710.13 | 743.93 | 789.04 | 800.31 | 833.50 | 888.81 | 0.00 | 1.11 | 2.22 | 3.33 | 4.44 | 5.55 | 6.66 | 7.77 | 8.88 | 9.99 |
| 1160 | 649.13 | 662.34 | 702.00 | 754.03 | 793.05 | 806.06 | 844.22 | 895.09 | 907.81 | 945.20 | 1007.50 | 0.00 | 1.27 | 2.54 | 3.8 | 5.08 | 6.34 | 7.61 | 8.88 | 10.1 | 11.4 |
| 1200 | 668.25 | 681.86 | 722.63 | 776.11 | 816.22 | 829.63 | 868.82 | 921.12 | 934.19 | 972.58 | 1036.56 | 0.00 | 1.59 | 3.17 | 4.76 | 6.34 | 7.93 | 9.51 | 11.1 | 12.7 | 14.3 |
| 1400 | 761.94 | 777.38 | 823.69 | 884.28 | 929.73 | 944.88 | 989.13 | 1048.13 | 1062.88 | 1106.05 | 1178.00 | 0.00 | 1.82 | 3.65 | 5.47 | 7.3 | 9.12 | 10.9 | 12.8 | 14.6 | 16.4 |
| 1600 | 852.81 | 870.02 | 921.56 | 988.82 | 1039.27 | 1056.13 | 1105.02 | 1170.26 | 1186.56 | 1234.02 | 1313.13 | 0.00 | 1.9 | 3.81 | 5.71 | 7.61 | 9.52 | 11.4 | 13.3 | 15.2 | 17.1 |
| 1750 | 919.19 | 937.63 | 992.94 | 1064.91 | 1118.88 | 1136.88 | 1189.05 | 1258.61 | 1276.00 | 1326.39 | 1410.38 | 0.00 | 2.19 | 4.38 | 6.56 | 8.75 | 10.9 | 13.1 | 15.3 | 17.5 | 19.7 |
| 2000 | 1026.50 | 1046.91 | 1108.06 | 1187.29 | 1246.71 | 1266.56 | – | – | – | – | – | 0.00 | 2.22 | 4.44 | 6.66 | 8.88 | 11.1 | 13.3 | 15.5 | 17.8 | 20 |
| 2400 | 1189.63 | 1212.80 | 1282.31 | – | – | – | – | – | – | – | – | 0.00 | 2.54 | 5.07 | 7.61 | 10.2 | 12.7 | 15.2 | 17.8 | 20.3 | 22.8 |
| 2800 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.76 | 5.52 | 8.28 | 11 | 13.8 | 16.6 | 19.3 | 22.1 | 24.8 |
| 3000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 2.86 | 5.71 | 8.56 | 11.4 | 14.3 | 17.1 | 20 | 22.8 | 25.7 |
| 3500 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 3.17 | 6.34 | 9.51 | 12.7 | 15.9 | 19 | 22.2 | 25.4 | 28.5 |
| 4000 | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 3.68 | 7.36 | 11 | 14.7 | 18.4 | 22.1 | 25.8 | 29.4 | 33.1 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 5.55 | 11.1 | 16.6 | 22.2 | 27.8 | 33.3 | 38.8 | 44.4 | 49.9 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 6.35 | 12.7 | 19 | 25.4 | 31.7 | 38.1 | 44.4 | 50.7 | 57.1 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 9.52 | 19 | 28.5 | 38.1 | 47.6 | 57.1 | 66.6 | 76.1 | 85.6 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 10.9 | 21.9 | 32.8 | 43.8 | 54.7 | 65.6 | 76.6 | 87.5 | 98.5 |
| – | – | – | – | – | – | – | – | – | – | – | – | 0.00 | 12.7 | 25.4 | 38 | 50.8 | 63.4 | 76.1 | 88.8 | 101.5 | 114.2 |

# Selection

## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 640-8MX | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |
| 1.000 | 22 | 2.206 | 22 | 2.206 | 9.13 | 10.71 | 12.28 | 14.17 | 15.43 | 16.22 | 17.00 | 18.58 | 20.15 | 20.63 | 21.73 | 24.88 | 28.03 | 31.18 |
| 1.000 | 25 | 2.506 | 25 | 2.506 | 8.66 | 10.24 | 11.81 | 13.70 | 14.96 | 15.75 | 16.53 | 18.11 | 19.68 | 20.16 | 21.26 | 24.41 | 27.56 | 30.71 |
| 1.000 | 26 | 2.607 | 26 | 2.607 | 8.50 | 10.08 | 11.65 | 13.54 | 14.80 | 15.59 | 16.37 | 17.95 | 19.52 | 20.00 | 21.10 | 24.25 | 27.40 | 30.55 |
| 1.000 | 27 | 2.707 | 27 | 2.707 | 8.35 | 9.92 | 11.50 | 13.39 | 14.65 | 15.43 | 16.22 | 17.79 | 19.37 | 19.84 | 20.94 | 24.09 | 27.24 | 30.39 |
| 1.000 | 28 | 2.807 | 28 | 2.807 | 8.19 | 9.77 | 11.34 | 13.23 | 14.49 | 15.28 | 16.06 | 17.64 | 19.21 | 19.69 | 20.79 | 23.94 | 27.09 | 30.24 |
| 1.000 | 29 | 2.907 | 29 | 2.907 | 8.03 | 9.61 | 11.18 | 13.07 | 14.33 | 15.12 | 15.90 | 17.48 | 19.05 | 19.53 | 20.63 | 23.78 | 26.93 | 30.08 |
| 1.000 | 30 | 3.008 | 30 | 3.008 | 7.88 | 9.45 | 11.03 | 12.92 | 14.18 | 14.96 | 15.75 | 17.32 | 18.90 | 19.37 | 20.47 | 23.62 | 26.77 | 29.92 |
| 1.000 | 31 | 3.108 | 31 | 3.108 | 7.72 | 9.29 | 10.87 | 12.76 | 14.02 | 14.80 | 15.59 | 17.16 | 18.74 | 19.21 | 20.31 | 23.46 | 26.61 | 29.76 |
| 1.000 | 32 | 3.208 | 32 | 3.208 | 7.56 | 9.14 | 10.71 | 12.60 | 13.86 | 14.65 | 15.43 | 17.01 | 18.58 | 19.06 | 20.16 | 23.31 | 26.46 | 29.61 |
| 1.000 | 33 | 3.308 | 33 | 3.308 | 7.40 | 8.98 | 10.55 | 12.44 | 13.70 | 14.49 | 15.27 | 16.85 | 18.42 | 18.90 | 20.00 | 23.15 | 26.30 | 29.45 |
| 1.000 | 34 | 3.409 | 34 | 3.409 | 7.25 | 8.82 | 10.40 | 12.29 | 13.55 | 14.33 | 15.12 | 16.69 | 18.27 | 18.74 | 19.84 | 22.99 | 26.14 | 29.29 |
| 1.000 | 35 | 3.509 | 35 | 3.509 | 7.09 | 8.66 | 10.24 | 12.13 | 13.39 | 14.17 | 14.96 | 16.53 | 18.11 | 18.58 | 19.68 | 22.83 | 25.98 | 29.13 |
| 1.000 | 36 | 3.609 | 36 | 3.609 | 6.93 | 8.51 | 10.08 | 11.97 | 13.23 | 14.02 | 14.80 | 16.38 | 17.95 | 18.43 | 19.53 | 22.68 | 25.83 | 28.98 |
| 1.000 | 37 | 3.709 | 37 | 3.709 | 6.77 | 8.35 | 9.92 | 11.81 | 13.07 | 13.86 | 14.64 | 16.22 | 17.79 | 18.27 | 19.37 | 22.52 | 25.67 | 28.82 |
| 1.000 | 38 | 3.810 | 38 | 3.810 | 6.62 | 8.19 | 9.77 | 11.66 | 12.92 | 13.70 | 14.49 | 16.06 | 17.64 | 18.11 | 19.21 | 22.36 | 25.51 | 28.66 |
| 1.000 | 39 | 3.910 | 39 | 3.910 | 6.46 | 8.03 | 9.61 | 11.50 | 12.76 | 13.54 | 14.33 | 15.90 | 17.48 | 17.95 | 19.05 | 22.20 | 25.35 | 28.50 |
| 1.000 | 40 | 4.010 | 40 | 4.010 | 6.30 | 7.88 | 9.45 | 11.34 | 12.60 | 13.39 | 14.17 | 15.75 | 17.32 | 17.80 | 18.90 | 22.05 | 25.20 | 28.35 |
| 1.000 | 41 | 4.110 | 41 | 4.110 | 6.14 | 7.72 | 9.29 | 11.18 | 12.44 | 13.23 | 14.01 | 15.59 | 17.16 | 17.64 | 18.74 | 21.89 | 25.04 | 28.19 |
| 1.000 | 42 | 4.211 | 42 | 4.211 | 5.99 | 7.56 | 9.14 | 11.03 | 12.29 | 13.07 | 13.86 | 15.43 | 17.01 | 17.48 | 18.58 | 21.73 | 24.88 | 28.03 |
| 1.000 | 45 | 4.511 | 45 | 4.511 | 5.51 | 7.09 | 8.66 | 10.55 | 11.81 | 12.60 | 13.38 | 14.96 | 16.53 | 17.01 | 18.11 | 21.26 | 24.41 | 27.56 |
| 1.000 | 48 | 4.812 | 48 | 4.812 | – | 6.62 | 8.19 | 10.08 | 11.34 | 12.13 | 12.91 | 14.49 | 16.06 | 16.54 | 17.64 | 20.79 | 23.94 | 27.09 |
| 1.000 | 50 | 5.013 | 50 | 5.013 | – | 6.30 | 7.88 | 9.77 | 11.03 | 11.81 | 12.60 | 14.17 | 15.75 | 16.22 | 17.32 | 20.47 | 23.62 | 26.77 |
| 1.000 | 53 | 5.314 | 53 | 5.314 | – | 5.83 | 7.40 | 9.29 | 10.55 | 11.34 | 12.12 | 13.70 | 15.27 | 15.75 | 16.85 | 20.00 | 23.15 | 26.30 |
| 1.000 | 56 | 5.614 | 56 | 5.614 | – | – | 6.93 | 8.82 | 10.08 | 10.87 | 11.65 | 13.23 | 14.80 | 15.28 | 16.38 | 19.53 | 22.68 | 25.83 |
| 1.000 | 60 | 6.015 | 60 | 6.015 | – | – | – | 8.19 | 9.45 | 10.24 | 11.02 | 12.60 | 14.17 | 14.65 | 15.75 | 18.90 | 22.05 | 25.20 |
| 1.000 | 63 | 6.316 | 63 | 6.316 | – | – | – | 7.72 | 8.98 | 9.76 | 10.55 | 12.12 | 13.70 | 14.17 | 15.27 | 18.42 | 21.57 | 24.72 |
| 1.000 | 67 | 6.717 | 67 | 6.717 | – | – | – | – | 8.35 | 9.13 | 9.92 | 11.49 | 13.07 | 13.54 | 14.64 | 17.79 | 20.94 | 24.09 |
| 1.000 | 71 | 7.118 | 71 | 7.118 | – | – | – | – | 7.72 | 8.50 | 9.29 | 10.86 | 12.44 | 12.91 | 14.01 | 17.16 | 20.31 | 23.46 |
| 1.000 | 75 | 7.519 | 75 | 7.519 | – | – | – | – | – | – | 8.66 | 10.23 | 11.81 | 12.28 | 13.38 | 16.53 | 19.68 | 22.83 |
| 1.000 | 80 | 8.020 | 80 | 8.020 | – | – | – | – | – | – | – | 9.45 | 11.02 | 11.50 | 12.60 | 15.75 | 18.90 | 22.05 |
| 1.024 | 41 | 4.110 | 42 | 4.211 | 6.06 | 7.64 | 9.21 | 11.10 | 12.36 | 13.15 | 13.93 | 15.51 | 17.08 | 17.56 | 18.66 | 21.81 | 24.96 | 28.11 |
| 1.025 | 40 | 4.010 | 41 | 4.110 | 6.22 | 7.80 | 9.37 | 11.26 | 12.52 | 13.31 | 14.09 | 15.67 | 17.24 | 17.72 | 18.82 | 21.97 | 25.12 | 28.27 |
| 1.026 | 38 | 3.810 | 39 | 3.910 | 6.54 | 8.11 | 9.69 | 11.58 | 12.84 | 13.62 | 14.41 | 15.98 | 17.56 | 18.03 | 19.13 | 22.28 | 25.43 | 28.58 |
| 1.026 | 39 | 3.910 | 40 | 4.010 | 6.38 | 7.95 | 9.53 | 11.42 | 12.68 | 13.46 | 14.25 | 15.82 | 17.40 | 17.87 | 18.97 | 22.12 | 25.27 | 28.42 |
| 1.027 | 37 | 3.709 | 38 | 3.810 | 6.69 | 8.27 | 9.84 | 11.73 | 12.99 | 13.78 | 14.56 | 16.14 | 17.71 | 18.19 | 19.29 | 22.44 | 25.59 | 28.74 |
| 1.028 | 36 | 3.609 | 37 | 3.709 | 6.85 | 8.43 | 10.00 | 11.89 | 13.15 | 13.94 | 14.72 | 16.30 | 17.87 | 18.35 | 19.45 | 22.60 | 25.75 | 28.90 |
| 1.029 | 34 | 3.409 | 35 | 3.509 | 7.17 | 8.74 | 10.32 | 12.21 | 13.47 | 14.25 | 15.04 | 16.61 | 18.19 | 18.66 | 19.76 | 22.91 | 26.06 | 29.21 |
| 1.029 | 35 | 3.509 | 36 | 3.609 | 7.01 | 8.58 | 10.16 | 12.05 | 13.31 | 14.09 | 14.88 | 16.45 | 18.03 | 18.50 | 19.60 | 22.75 | 25.90 | 29.05 |
| 1.030 | 33 | 3.308 | 34 | 3.409 | 7.32 | 8.90 | 10.47 | 12.36 | 13.62 | 14.41 | 15.19 | 16.77 | 18.34 | 18.82 | 19.92 | 23.07 | 26.22 | 29.37 |
| 1.031 | 32 | 3.208 | 33 | 3.308 | 7.48 | 9.06 | 10.63 | 12.52 | 13.78 | 14.57 | 15.35 | 16.93 | 18.50 | 18.98 | 20.08 | 23.23 | 26.38 | 29.53 |
| 1.032 | 31 | 3.108 | 32 | 3.208 | 7.64 | 9.21 | 10.79 | 12.68 | 13.94 | 14.72 | 15.51 | 17.08 | 18.66 | 19.13 | 20.23 | 23.38 | 26.53 | 29.68 |
| 1.033 | 30 | 3.008 | 31 | 3.108 | 7.80 | 9.37 | 10.95 | 12.84 | 14.10 | 14.88 | 15.67 | 17.24 | 18.82 | 19.29 | 20.39 | 23.54 | 26.69 | 29.84 |
| 1.034 | 29 | 2.907 | 30 | 3.008 | 7.95 | 9.53 | 11.10 | 12.99 | 14.25 | 15.04 | 15.82 | 17.40 | 18.97 | 19.45 | 20.55 | 23.70 | 26.85 | 30.00 |
| 1.036 | 28 | 2.807 | 29 | 2.907 | 8.11 | 9.69 | 11.26 | 13.15 | 14.41 | 15.20 | 15.98 | 17.56 | 19.13 | 19.61 | 20.71 | 23.86 | 27.01 | 30.16 |
| 1.037 | 27 | 2.707 | 28 | 2.807 | 8.27 | 9.84 | 11.42 | 13.31 | 14.57 | 15.35 | 16.14 | 17.71 | 19.29 | 19.76 | 20.86 | 24.01 | 27.16 | 30.31 |
| 1.038 | 26 | 2.607 | 27 | 2.707 | 8.43 | 10.00 | 11.58 | 13.47 | 14.73 | 15.51 | 16.30 | 17.87 | 19.45 | 19.92 | 21.02 | 24.17 | 27.32 | 30.47 |
| 1.040 | 25 | 2.506 | 26 | 2.607 | 8.58 | 10.16 | 11.73 | 13.62 | 14.88 | 15.67 | 16.45 | 18.03 | 19.60 | 20.08 | 21.18 | 24.33 | 27.48 | 30.63 |
| 1.042 | 48 | 4.812 | 50 | 5.013 | – | 6.46 | 8.03 | 9.92 | 11.18 | 11.97 | 12.75 | 14.33 | 15.90 | 16.38 | 17.48 | 20.63 | 23.78 | 26.93 |
| 1.050 | 40 | 4.010 | 42 | 4.211 | 6.14 | 7.72 | 9.29 | 11.18 | 12.44 | 13.23 | 14.01 | 15.59 | 17.16 | 17.64 | 18.74 | 21.89 | 25.04 | 28.19 |
| 1.050 | 60 | 6.015 | 63 | 6.316 | – | – | – | 7.95 | 9.21 | 10.00 | 10.78 | 12.36 | 13.93 | 14.41 | 15.51 | 18.66 | 21.81 | 24.96 |
| 1.051 | 39 | 3.910 | 41 | 4.110 | 6.30 | 7.88 | 9.45 | 11.34 | 12.60 | 13.39 | 14.17 | 15.75 | 17.32 | 17.80 | 18.90 | 22.05 | 25.20 | 28.35 |
| 1.053 | 38 | 3.810 | 40 | 4.010 | 6.46 | 8.03 | 9.61 | 11.50 | 12.76 | 13.54 | 14.33 | 15.90 | 17.48 | 17.95 | 19.05 | 22.20 | 25.35 | 28.50 |
| 1.054 | 37 | 3.709 | 39 | 3.910 | 6.62 | 8.19 | 9.77 | 11.66 | 12.92 | 13.70 | 14.49 | 16.06 | 17.64 | 18.11 | 19.21 | 22.36 | 25.51 | 28.66 |
| 1.056 | 36 | 3.609 | 38 | 3.810 | 6.77 | 8.35 | 9.92 | 11.81 | 13.07 | 13.86 | 14.64 | 16.22 | 17.79 | 18.27 | 19.37 | 22.52 | 25.67 | 28.82 |
| 1.056 | 71 | 7.118 | 75 | 7.519 | – | – | – | – | – | 8.19 | 8.97 | 10.55 | 12.12 | 12.60 | 13.70 | 16.85 | 20.00 | 23.15 |
| 1.057 | 35 | 3.509 | 37 | 3.709 | 6.93 | 8.51 | 10.08 | 11.97 | 13.23 | 14.02 | 14.80 | 16.38 | 17.95 | 18.43 | 19.53 | 22.68 | 25.83 | 28.98 |
| 1.057 | 53 | 5.314 | 56 | 5.614 | – | – | 7.17 | 9.06 | 10.32 | 11.10 | 11.89 | 13.46 | 15.04 | 15.51 | 16.61 | 19.76 | 22.91 | 26.06 |
| 1.059 | 34 | 3.409 | 36 | 3.609 | 7.09 | 8.66 | 10.24 | 12.13 | 13.39 | 14.17 | 14.96 | 16.53 | 18.11 | 18.58 | 19.68 | 22.83 | 25.98 | 29.13 |
| 1.060 | 50 | 5.013 | 53 | 5.314 | – | 6.06 | 7.64 | 9.53 | 10.79 | 11.57 | 12.36 | 13.93 | 15.51 | 15.98 | 17.08 | 20.23 | 23.38 | 26.53 |
| 1.060 | 67 | 6.717 | 71 | 7.118 | – | – | – | – | 8.03 | 8.82 | 9.60 | 11.18 | 12.75 | 13.23 | 14.33 | 17.48 | 20.63 | 23.78 |
| 1.061 | 33 | 3.308 | 35 | 3.509 | 7.25 | 8.82 | 10.40 | 12.29 | 13.55 | 14.33 | 15.12 | 16.69 | 18.27 | 18.74 | 19.84 | 22.99 | 26.14 | 29.29 |
| 1.063 | 32 | 3.208 | 34 | 3.409 | 7.40 | 8.98 | 10.55 | 12.44 | 13.70 | 14.49 | 15.27 | 16.85 | 18.42 | 18.90 | 20.00 | 23.15 | 26.30 | 29.45 |
| 1.063 | 63 | 6.316 | 67 | 6.717 | – | – | – | 7.40 | 8.66 | 9.45 | 10.23 | 11.81 | 13.38 | 13.86 | 14.96 | 18.11 | 21.26 | 24.41 |
| 1.065 | 31 | 3.108 | 33 | 3.308 | 7.56 | 9.14 | 10.71 | 12.60 | 13.86 | 14.65 | 15.43 | 17.01 | 18.58 | 19.06 | 20.16 | 23.31 | 26.46 | 29.61 |
| 1.067 | 30 | 3.008 | 32 | 3.208 | 7.72 | 9.29 | 10.87 | 12.76 | 14.02 | 14.80 | 15.59 | 17.16 | 18.74 | 19.21 | 20.31 | 23.46 | 26.61 | 29.76 |
| 1.067 | 45 | 4.511 | 48 | 4.812 | 5.28 | 6.85 | 8.43 | 10.32 | 11.58 | 12.36 | 13.15 | 14.72 | 16.30 | 16.77 | 17.87 | 21.02 | 24.17 | 27.32 |
| 1.067 | 75 | 7.519 | 80 | 8.020 | – | – | – | – | – | – | – | 9.84 | 11.41 | 11.89 | 12.99 | 16.14 | 19.29 | 22.44 |
| 1.069 | 29 | 2.907 | 31 | 3.108 | 7.88 | 9.45 | 11.03 | 12.92 | 14.18 | 14.96 | 15.75 | 17.32 | 18.90 | 19.37 | 20.47 | 23.62 | 26.77 | 29.92 |
| 1.071 | 28 | 2.807 | 30 | 3.008 | 8.03 | 9.61 | 11.18 | 13.07 | 14.33 | 15.12 | 15.90 | 17.48 | 19.05 | 19.53 | 20.63 | 23.78 | 26.93 | 30.08 |
| 1.071 | 42 | 4.211 | 45 | 4.511 | 5.75 | 7.32 | 8.90 | 10.79 | 12.05 | 12.83 | 13.62 | 15.19 | 16.77 | 17.24 | 18.34 | 21.49 | 24.64 | 27.79 |
| 1.071 | 56 | 5.614 | 60 | 6.015 | – | – | 6.61 | 8.50 | 9.76 | 10.55 | 11.33 | 12.91 | 14.49 | 14.96 | 16.06 | 19.21 | 22.36 | 25.51 |
| 1.074 | 27 | 2.707 | 29 | 2.907 | 8.19 | 9.77 | 11.34 | 13.23 | 14.49 | 15.28 | 16.06 | 17.64 | 19.21 | 19.69 | 20.79 | 23.94 | 27.09 | 30.24 |
| 1.077 | 26 | 2.607 | 28 | 2.807 | 8.35 | 9.92 | 11.50 | 13.39 | 14.65 | 15.43 | 16.22 | 17.79 | 19.37 | 19.84 | 20.94 | 24.09 | 27.24 | 30.39 |
| 1.077 | 39 | 3.910 | 42 | 4.211 | 6.22 | 7.80 | 9.37 | 11.26 | 12.52 | 13.31 | 14.09 | 15.67 | 17.24 | 17.72 | 18.82 | 21.97 | 25.12 | 28.27 |
| 1.079 | 38 | 3.810 | 41 | 4.110 | 6.38 | 7.95 | 9.53 | 11.42 | 12.68 | 13.46 | 14.25 | 15.82 | 17.40 | 17.87 | 18.97 | 22.12 | 25.27 | 28.42 |
| 1.080 | 25 | 2.506 | 27 | 2.707 | 8.51 | 10.08 | 11.66 | 13.55 | 14.81 | 15.59 | 16.38 | 17.95 | 19.53 | 20.00 | 21.10 | 24.25 | 27.40 | 30.55 |
| 1.081 | 37 | 3.709 | 40 | 4.010 | 6.54 | 8.11 | 9.69 | 11.58 | 12.84 | 13.62 | 14.41 | 15.98 | 17.56 | 18.03 | 19.13 | 22.28 | 25.43 | 28.58 |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1792-8MX | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |
| 1.000 | 22 | 2.206 | 22 | 2.206 | 31.81 | 35.90 | 39.84 | 40.63 | 43.78 | 46.14 | 47.71 | 51.65 | 52.44 | 56.53 | 59.52 | 61.10 | 67.40 | 75.27 | 83.15 | 84.72 |
| 1.000 | 25 | 2.506 | 25 | 2.506 | 31.34 | 35.43 | 39.37 | 40.16 | 43.31 | 45.67 | 47.24 | 51.18 | 51.97 | 56.06 | 59.05 | 60.63 | 66.93 | 74.80 | 82.68 | 84.25 |
| 1.000 | 26 | 2.607 | 26 | 2.607 | 31.18 | 35.27 | 39.21 | 40.00 | 43.15 | 45.51 | 47.08 | 51.02 | 51.81 | 55.90 | 58.89 | 60.47 | 66.77 | 74.64 | 82.52 | 84.09 |
| 1.000 | 27 | 2.707 | 27 | 2.707 | 31.02 | 35.12 | 39.05 | 39.84 | 42.99 | 45.35 | 46.93 | 50.87 | 51.65 | 55.75 | 58.74 | 60.31 | 66.61 | 74.49 | 82.36 | 83.94 |
| 1.000 | 28 | 2.807 | 28 | 2.807 | 30.87 | 34.96 | 38.90 | 39.69 | 42.84 | 45.20 | 46.77 | 50.71 | 51.50 | 55.59 | 58.58 | 60.16 | 66.46 | 74.33 | 82.21 | 83.78 |
| 1.000 | 29 | 2.907 | 29 | 2.907 | 30.71 | 34.80 | 38.74 | 39.53 | 42.68 | 45.04 | 46.61 | 50.55 | 51.34 | 55.43 | 58.42 | 60.00 | 66.30 | 74.17 | 82.05 | 83.62 |
| 1.000 | 30 | 3.008 | 30 | 3.008 | 30.55 | 34.65 | 38.58 | 39.37 | 42.52 | 44.88 | 46.46 | 50.40 | 51.18 | 55.28 | 58.27 | 59.84 | 66.14 | 74.02 | 81.89 | 83.47 |
| 1.000 | 31 | 3.108 | 31 | 3.108 | 30.39 | 34.49 | 38.42 | 39.21 | 42.36 | 44.72 | 46.30 | 50.24 | 51.02 | 55.12 | 58.11 | 59.68 | 65.98 | 73.86 | 81.73 | 83.31 |
| 1.000 | 32 | 3.208 | 32 | 3.208 | 30.24 | 34.33 | 38.27 | 39.06 | 42.21 | 44.57 | 46.14 | 50.08 | 50.87 | 54.96 | 57.95 | 59.53 | 65.83 | 73.70 | 81.58 | 83.15 |
| 1.000 | 33 | 3.308 | 33 | 3.308 | 30.08 | 34.17 | 38.11 | 38.90 | 42.05 | 44.41 | 45.98 | 49.92 | 50.71 | 54.80 | 57.79 | 59.37 | 65.67 | 73.54 | 81.42 | 82.99 |
| 1.000 | 34 | 3.409 | 34 | 3.409 | 29.92 | 34.02 | 37.95 | 38.74 | 41.89 | 44.25 | 45.83 | 49.77 | 50.55 | 54.65 | 57.64 | 59.21 | 65.51 | 73.39 | 81.26 | 82.84 |
| 1.000 | 35 | 3.509 | 35 | 3.509 | 29.76 | 33.86 | 37.79 | 38.58 | 41.73 | 44.09 | 45.67 | 49.61 | 50.39 | 54.49 | 57.48 | 59.05 | 65.35 | 73.23 | 81.10 | 82.68 |
| 1.000 | 36 | 3.609 | 36 | 3.609 | 29.61 | 33.70 | 37.64 | 38.43 | 41.58 | 43.94 | 45.51 | 49.45 | 50.24 | 54.33 | 57.32 | 58.90 | 65.20 | 73.07 | 80.95 | 82.52 |
| 1.000 | 37 | 3.709 | 37 | 3.709 | 29.45 | 33.54 | 37.48 | 38.27 | 41.42 | 43.78 | 45.35 | 49.29 | 50.08 | 54.17 | 57.16 | 58.74 | 65.04 | 72.91 | 80.79 | 82.36 |
| 1.000 | 38 | 3.810 | 38 | 3.810 | 29.29 | 33.39 | 37.32 | 38.11 | 41.26 | 43.62 | 45.20 | 49.14 | 49.92 | 54.02 | 57.01 | 58.58 | 64.88 | 72.76 | 80.63 | 82.21 |
| 1.000 | 39 | 3.910 | 39 | 3.910 | 29.13 | 33.23 | 37.16 | 37.95 | 41.10 | 43.46 | 45.04 | 48.98 | 49.76 | 53.86 | 56.85 | 58.42 | 64.72 | 72.60 | 80.47 | 82.05 |
| 1.000 | 40 | 4.010 | 40 | 4.010 | 28.98 | 33.07 | 37.01 | 37.80 | 40.95 | 43.31 | 44.88 | 48.82 | 49.61 | 53.70 | 56.69 | 58.27 | 64.57 | 72.44 | 80.32 | 81.89 |
| 1.000 | 41 | 4.110 | 41 | 4.110 | 28.82 | 32.91 | 36.85 | 37.64 | 40.79 | 43.15 | 44.72 | 48.66 | 49.45 | 53.54 | 56.53 | 58.11 | 64.41 | 72.28 | 80.16 | 81.73 |
| 1.000 | 42 | 4.211 | 42 | 4.211 | 28.66 | 32.76 | 36.69 | 37.48 | 40.63 | 42.99 | 44.57 | 48.51 | 49.29 | 53.39 | 56.38 | 57.95 | 64.25 | 72.13 | 80.00 | 81.58 |
| 1.000 | 45 | 4.511 | 45 | 4.511 | 28.19 | 32.28 | 36.22 | 37.01 | 40.16 | 42.52 | 44.09 | 48.03 | 48.82 | 52.91 | 55.90 | 57.48 | 63.78 | 71.65 | 79.53 | 81.10 |
| 1.000 | 48 | 4.812 | 48 | 4.812 | 27.72 | 31.81 | 35.75 | 36.54 | 39.69 | 42.05 | 43.62 | 47.56 | 48.35 | 52.44 | 55.43 | 57.01 | 63.31 | 71.18 | 79.06 | 80.63 |
| 1.000 | 50 | 5.013 | 50 | 5.013 | 27.40 | 31.50 | 35.43 | 36.22 | 39.37 | 41.73 | 43.31 | 47.25 | 48.03 | 52.13 | 55.12 | 56.69 | 62.99 | 70.87 | 78.74 | 80.32 |
| 1.000 | 53 | 5.314 | 53 | 5.314 | 26.93 | 31.02 | 34.96 | 35.75 | 38.90 | 41.26 | 42.83 | 46.77 | 47.56 | 51.65 | 54.64 | 56.22 | 62.52 | 70.39 | 78.27 | 79.84 |
| 1.000 | 56 | 5.614 | 56 | 5.614 | 26.46 | 30.55 | 34.49 | 35.28 | 38.43 | 40.79 | 42.36 | 46.30 | 47.09 | 51.18 | 54.17 | 55.75 | 62.05 | 69.92 | 77.80 | 79.37 |
| 1.000 | 60 | 6.015 | 60 | 6.015 | 25.83 | 29.92 | 33.86 | 34.65 | 37.80 | 40.16 | 41.73 | 45.67 | 46.46 | 50.55 | 53.54 | 55.12 | 61.42 | 69.29 | 77.17 | 78.74 |
| 1.000 | 63 | 6.316 | 63 | 6.316 | 25.35 | 29.45 | 33.38 | 34.17 | 37.32 | 39.68 | 41.26 | 45.20 | 45.98 | 50.08 | 53.07 | 54.64 | 60.94 | 68.82 | 76.69 | 78.27 |
| 1.000 | 67 | 6.717 | 67 | 6.717 | 24.72 | 28.82 | 32.75 | 33.54 | 36.69 | 39.05 | 40.63 | 44.57 | 45.35 | 49.45 | 52.44 | 54.01 | 60.31 | 68.19 | 76.06 | 77.64 |
| 1.000 | 71 | 7.118 | 71 | 7.118 | 24.09 | 28.19 | 32.12 | 32.91 | 36.06 | 38.42 | 40.00 | 43.94 | 44.72 | 48.82 | 51.81 | 53.38 | 59.68 | 67.56 | 75.43 | 77.01 |
| 1.000 | 75 | 7.519 | 75 | 7.519 | 23.46 | 27.56 | 31.49 | 32.28 | 35.43 | 37.79 | 39.37 | 43.31 | 44.09 | 48.19 | 51.18 | 52.75 | 59.05 | 66.93 | 74.80 | 76.38 |
| 1.000 | 80 | 8.020 | 80 | 8.020 | 22.68 | 26.77 | 30.71 | 31.50 | 34.65 | 37.01 | 38.58 | 42.52 | 43.31 | 47.40 | 50.39 | 51.97 | 58.27 | 66.14 | 74.02 | 75.59 |
| 1.024 | 41 | 4.110 | 42 | 4.211 | 28.74 | 32.83 | 36.77 | 37.56 | 40.71 | 43.07 | 44.64 | 48.58 | 49.37 | 53.46 | 56.45 | 58.03 | 64.33 | 72.20 | 80.08 | 81.65 |
| 1.025 | 40 | 4.010 | 41 | 4.110 | 28.90 | 32.99 | 36.93 | 37.72 | 40.87 | 43.23 | 44.80 | 48.74 | 49.53 | 53.62 | 56.61 | 58.19 | 64.49 | 72.36 | 80.24 | 81.81 |
| 1.026 | 38 | 3.810 | 39 | 3.910 | 29.21 | 33.31 | 37.24 | 38.03 | 41.18 | 43.54 | 45.12 | 49.06 | 49.84 | 53.94 | 56.93 | 58.50 | 64.80 | 72.68 | 80.55 | 82.13 |
| 1.026 | 39 | 3.910 | 40 | 4.010 | 29.05 | 33.15 | 37.08 | 37.87 | 41.02 | 43.38 | 44.96 | 48.90 | 49.68 | 53.78 | 56.77 | 58.34 | 64.64 | 72.52 | 80.39 | 81.97 |
| 1.027 | 37 | 3.709 | 38 | 3.810 | 29.37 | 33.46 | 37.40 | 38.19 | 41.34 | 43.70 | 45.27 | 49.21 | 50.00 | 54.09 | 57.08 | 58.66 | 64.96 | 72.83 | 80.71 | 82.28 |
| 1.028 | 36 | 3.609 | 37 | 3.709 | 29.53 | 33.62 | 37.56 | 38.35 | 41.50 | 43.86 | 45.43 | 49.37 | 50.16 | 54.25 | 57.24 | 58.82 | 65.12 | 72.99 | 80.87 | 82.44 |
| 1.029 | 34 | 3.409 | 35 | 3.509 | 29.84 | 33.94 | 37.87 | 38.66 | 41.81 | 44.17 | 45.75 | 49.69 | 50.47 | 54.57 | 57.56 | 59.13 | 65.43 | 73.31 | 81.18 | 82.76 |
| 1.029 | 35 | 3.509 | 36 | 3.609 | 29.68 | 33.78 | 37.71 | 38.50 | 41.65 | 44.01 | 45.59 | 49.53 | 50.31 | 54.41 | 57.40 | 58.97 | 65.27 | 73.15 | 81.02 | 82.60 |
| 1.030 | 33 | 3.308 | 34 | 3.409 | 30.00 | 34.09 | 38.03 | 38.82 | 41.97 | 44.33 | 45.90 | 49.84 | 50.63 | 54.72 | 57.71 | 59.29 | 65.59 | 73.46 | 81.34 | 82.91 |
| 1.031 | 32 | 3.208 | 33 | 3.308 | 30.16 | 34.25 | 38.19 | 38.98 | 42.13 | 44.49 | 46.06 | 50.00 | 50.79 | 54.88 | 57.87 | 59.45 | 65.75 | 73.62 | 81.50 | 83.07 |
| 1.032 | 31 | 3.108 | 32 | 3.208 | 30.31 | 34.41 | 38.34 | 39.13 | 42.28 | 44.64 | 46.22 | 50.16 | 50.94 | 55.04 | 58.03 | 59.60 | 65.90 | 73.78 | 81.65 | 83.23 |
| 1.033 | 30 | 3.008 | 31 | 3.108 | 30.47 | 34.57 | 38.50 | 39.29 | 42.44 | 44.80 | 46.38 | 50.32 | 51.10 | 55.20 | 58.19 | 59.76 | 66.06 | 73.94 | 81.81 | 83.39 |
| 1.034 | 29 | 2.907 | 30 | 3.008 | 30.63 | 34.72 | 38.66 | 39.45 | 42.60 | 44.96 | 46.53 | 50.47 | 51.26 | 55.35 | 58.34 | 59.92 | 66.22 | 74.09 | 81.97 | 83.54 |
| 1.036 | 28 | 2.807 | 29 | 2.907 | 30.79 | 34.88 | 38.82 | 39.61 | 42.76 | 45.12 | 46.69 | 50.63 | 51.42 | 55.51 | 58.50 | 60.08 | 66.38 | 74.25 | 82.13 | 83.70 |
| 1.037 | 27 | 2.707 | 28 | 2.807 | 30.94 | 35.04 | 38.97 | 39.76 | 42.91 | 45.27 | 46.85 | 50.79 | 51.57 | 55.67 | 58.66 | 60.23 | 66.53 | 74.41 | 82.28 | 83.86 |
| 1.038 | 26 | 2.607 | 27 | 2.707 | 31.10 | 35.20 | 39.13 | 39.92 | 43.07 | 45.43 | 47.01 | 50.95 | 51.73 | 55.83 | 58.82 | 60.39 | 66.69 | 74.57 | 82.44 | 84.02 |
| 1.040 | 25 | 2.506 | 26 | 2.607 | 31.26 | 35.35 | 39.29 | 40.08 | 43.23 | 45.59 | 47.16 | 51.10 | 51.89 | 55.98 | 58.97 | 60.55 | 66.85 | 74.72 | 82.60 | 84.17 |
| 1.042 | 48 | 4.812 | 50 | 5.013 | 27.56 | 31.65 | 35.59 | 36.38 | 39.53 | 41.89 | 43.46 | 47.40 | 48.19 | 52.28 | 55.27 | 56.85 | 63.15 | 71.02 | 78.90 | 80.47 |
| 1.050 | 40 | 4.010 | 42 | 4.211 | 28.82 | 32.91 | 36.85 | 37.64 | 40.79 | 43.15 | 44.72 | 48.66 | 49.45 | 53.54 | 56.53 | 58.11 | 64.41 | 72.28 | 80.16 | 81.73 |
| 1.050 | 60 | 6.015 | 63 | 6.316 | 25.59 | 29.68 | 33.62 | 34.41 | 37.56 | 39.92 | 41.49 | 45.44 | 46.22 | 50.32 | 53.31 | 54.88 | 61.18 | 69.06 | 76.93 | 78.51 |
| 1.051 | 39 | 3.910 | 41 | 4.110 | 28.98 | 33.07 | 37.01 | 37.80 | 40.95 | 43.31 | 44.88 | 48.82 | 49.61 | 53.70 | 56.69 | 58.27 | 64.57 | 72.44 | 80.32 | 81.89 |
| 1.053 | 38 | 3.810 | 40 | 4.010 | 29.13 | 33.23 | 37.16 | 37.95 | 41.10 | 43.46 | 45.04 | 48.98 | 49.76 | 53.86 | 56.85 | 58.42 | 64.72 | 72.60 | 80.47 | 82.05 |
| 1.054 | 37 | 3.709 | 39 | 3.910 | 29.29 | 33.39 | 37.32 | 38.11 | 41.26 | 43.62 | 45.20 | 49.14 | 49.92 | 54.02 | 57.01 | 58.58 | 64.88 | 72.76 | 80.63 | 82.21 |
| 1.056 | 36 | 3.609 | 38 | 3.810 | 29.45 | 33.54 | 37.48 | 38.27 | 41.42 | 43.78 | 45.35 | 49.29 | 50.08 | 54.17 | 57.16 | 58.74 | 65.04 | 72.91 | 80.79 | 82.36 |
| 1.056 | 71 | 7.118 | 75 | 7.519 | 23.78 | 27.87 | 31.81 | 32.60 | 35.75 | 38.11 | 39.68 | 43.62 | 44.41 | 48.50 | 51.49 | 53.07 | 59.37 | 67.24 | 75.12 | 76.69 |
| 1.057 | 35 | 3.509 | 37 | 3.709 | 29.61 | 33.70 | 37.64 | 38.43 | 41.58 | 43.94 | 45.51 | 49.45 | 50.24 | 54.33 | 57.32 | 58.90 | 65.20 | 73.07 | 80.95 | 82.52 |
| 1.057 | 53 | 5.314 | 56 | 5.614 | 26.69 | 30.79 | 34.72 | 35.51 | 38.66 | 41.02 | 42.60 | 46.54 | 47.32 | 51.42 | 54.41 | 55.98 | 62.28 | 70.16 | 78.03 | 79.61 |
| 1.059 | 34 | 3.409 | 36 | 3.609 | 29.76 | 33.86 | 37.79 | 38.58 | 41.73 | 44.09 | 45.67 | 49.61 | 50.39 | 54.49 | 57.48 | 59.05 | 65.35 | 73.23 | 81.10 | 82.68 |
| 1.060 | 50 | 5.013 | 53 | 5.314 | 27.16 | 31.26 | 35.19 | 35.98 | 39.13 | 41.49 | 43.07 | 47.01 | 47.79 | 51.89 | 54.88 | 56.45 | 62.75 | 70.63 | 78.50 | 80.08 |
| 1.060 | 67 | 6.717 | 71 | 7.118 | 24.41 | 28.50 | 32.44 | 33.23 | 36.38 | 38.74 | 40.31 | 44.25 | 45.04 | 49.13 | 52.12 | 53.70 | 60.00 | 67.87 | 75.75 | 77.32 |
| 1.061 | 33 | 3.308 | 35 | 3.509 | 29.92 | 34.02 | 37.95 | 38.74 | 41.89 | 44.25 | 45.83 | 49.77 | 50.55 | 54.65 | 57.64 | 59.21 | 65.51 | 73.39 | 81.26 | 82.84 |
| 1.063 | 32 | 3.208 | 34 | 3.409 | 30.08 | 34.17 | 38.11 | 38.90 | 42.05 | 44.41 | 45.98 | 49.92 | 50.71 | 54.80 | 57.79 | 59.37 | 65.67 | 73.54 | 81.42 | 82.99 |
| 1.063 | 63 | 6.316 | 67 | 6.717 | 25.04 | 29.13 | 33.07 | 33.86 | 37.01 | 39.37 | 40.94 | 44.88 | 45.67 | 49.76 | 52.75 | 54.33 | 60.63 | 68.50 | 76.38 | 77.95 |
| 1.065 | 31 | 3.108 | 33 | 3.308 | 30.24 | 34.33 | 38.27 | 39.06 | 42.21 | 44.57 | 46.14 | 50.08 | 50.87 | 54.96 | 57.95 | 59.53 | 65.83 | 73.70 | 81.58 | 83.15 |
| 1.067 | 30 | 3.008 | 32 | 3.208 | 30.39 | 34.49 | 38.42 | 39.21 | 42.36 | 44.72 | 46.30 | 50.24 | 51.02 | 55.12 | 58.11 | 59.68 | 65.98 | 73.86 | 81.73 | 83.31 |
| 1.067 | 45 | 4.511 | 48 | 4.812 | 27.95 | 32.05 | 35.98 | 36.77 | 39.92 | 42.28 | 43.86 | 47.80 | 48.58 | 52.68 | 55.67 | 57.24 | 63.54 | 71.42 | 79.29 | 80.87 |
| 1.067 | 75 | 7.519 | 80 | 8.020 | 23.07 | 27.16 | 31.10 | 31.89 | 35.04 | 37.40 | 38.97 | 42.91 | 43.70 | 47.80 | 50.79 | 52.36 | 58.66 | 66.54 | 74.41 | 75.99 |
| 1.069 | 29 | 2.907 | 31 | 3.108 | 30.55 | 34.65 | 38.58 | 39.37 | 42.52 | 44.88 | 46.46 | 50.40 | 51.18 | 55.28 | 58.27 | 59.84 | 66.14 | 74.02 | 81.89 | 83.47 |
| 1.071 | 28 | 2.807 | 30 | 3.008 | 30.71 | 34.80 | 38.74 | 39.53 | 42.68 | 45.04 | 46.61 | 50.55 | 51.34 | 55.43 | 58.42 | 60.00 | 66.30 | 74.17 | 82.05 | 83.62 |
| 1.071 | 42 | 4.211 | 45 | 4.511 | 28.42 | 32.52 | 36.45 | 37.24 | 40.39 | 42.75 | 44.33 | 48.27 | 49.05 | 53.15 | 56.14 | 57.71 | 64.01 | 71.89 | 79.76 | 81.34 |
| 1.071 | 56 | 5.614 | 60 | 6.015 | 26.14 | 30.24 | 34.17 | 34.96 | 38.11 | 40.47 | 42.05 | 45.99 | 46.77 | 50.87 | 53.86 | 55.43 | 61.73 | 69.61 | 77.48 | 79.06 |
| 1.074 | 27 | 2.707 | 29 | 2.907 | 30.87 | 34.96 | 38.90 | 39.69 | 42.84 | 45.20 | 46.77 | 50.71 | 51.50 | 55.59 | 58.58 | 60.16 | 66.46 | 74.33 | 82.21 | 83.78 |
| 1.077 | 26 | 2.607 | 28 | 2.807 | 31.02 | 35.12 | 39.05 | 39.84 | 42.99 | 45.35 | 46.93 | 50.87 | 51.65 | 55.75 | 58.74 | 60.31 | 66.61 | 74.49 | 82.36 | 83.94 |
| 1.077 | 39 | 3.910 | 42 | 4.211 | 28.90 | 32.99 | 36.93 | 37.72 | 40.87 | 43.23 | 44.80 | 48.74 | 49.53 | 53.62 | 56.61 | 58.19 | 64.49 | 72.36 | 80.24 | 81.81 |
| 1.079 | 38 | 3.810 | 41 | 4.110 | 29.05 | 33.15 | 37.08 | 37.87 | 41.02 | 43.38 | 44.96 | 48.90 | 49.68 | 53.78 | 56.77 | 58.34 | 64.64 | 72.52 | 80.39 | 81.97 |
| 1.080 | 25 | 2.506 | 27 | 2.707 | 31.18 | 35.28 | 39.21 | 40.00 | 43.15 | 45.51 | 47.09 | 51.03 | 51.81 | 55.91 | 58.90 | 60.47 | 66.77 | 74.65 | 82.52 | 84.10 |
| 1.081 | 37 | 3.709 | 40 | 4.010 | 29.21 | 33.31 | 37.24 | 38.03 | 41.18 | 43.54 | 45.12 | 49.06 | 49.84 | 53.94 | 56.93 | 58.50 | 64.80 | 72.68 | 80.55 | 82.13 |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 640-8MX | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |
| 1.083 | 36 | 3.609 | 39 | 3.910 | 6.69 | 8.27 | 9.84 | 11.73 | 12.99 | 13.78 | 14.56 | 16.14 | 17.71 | 18.19 | 19.29 | 22.44 | 25.59 | 28.74 |
| 1.086 | 35 | 3.509 | 38 | 3.810 | 6.85 | 8.43 | 10.00 | 11.89 | 13.15 | 13.94 | 14.72 | 16.30 | 17.87 | 18.35 | 19.45 | 22.60 | 25.75 | 28.90 |
| 1.088 | 34 | 3.409 | 37 | 3.709 | 7.01 | 8.58 | 10.16 | 12.05 | 13.31 | 14.09 | 14.88 | 16.45 | 18.03 | 18.50 | 19.60 | 22.75 | 25.90 | 29.05 |
| 1.091 | 33 | 3.308 | 36 | 3.609 | 7.17 | 8.74 | 10.32 | 12.21 | 13.47 | 14.25 | 15.04 | 16.61 | 18.19 | 18.66 | 19.76 | 22.91 | 26.06 | 29.21 |
| 1.094 | 32 | 3.208 | 35 | 3.509 | 7.32 | 8.90 | 10.47 | 12.36 | 13.62 | 14.41 | 15.19 | 16.77 | 18.34 | 18.82 | 19.92 | 23.07 | 26.22 | 29.37 |
| 1.097 | 31 | 3.108 | 34 | 3.409 | 7.48 | 9.06 | 10.63 | 12.52 | 13.78 | 14.57 | 15.35 | 16.93 | 18.50 | 18.98 | 20.08 | 23.23 | 26.38 | 29.53 |
| 1.098 | 41 | 4.110 | 45 | 4.511 | 5.83 | 7.40 | 8.98 | 10.87 | 12.13 | 12.91 | 13.70 | 15.27 | 16.85 | 17.32 | 18.42 | 21.57 | 24.72 | 27.87 |
| 1.100 | 30 | 3.008 | 33 | 3.308 | 7.64 | 9.21 | 10.79 | 12.68 | 13.94 | 14.72 | 15.51 | 17.08 | 18.66 | 19.13 | 20.23 | 23.38 | 26.53 | 29.68 |
| 1.103 | 29 | 2.907 | 32 | 3.208 | 7.80 | 9.37 | 10.95 | 12.84 | 14.10 | 14.88 | 15.67 | 17.24 | 18.82 | 19.29 | 20.39 | 23.54 | 26.69 | 29.84 |
| 1.104 | 48 | 4.812 | 53 | 5.314 | – | 6.22 | 7.79 | 9.68 | 10.94 | 11.73 | 12.51 | 14.09 | 15.67 | 16.14 | 17.24 | 20.39 | 23.54 | 26.69 |
| 1.105 | 38 | 3.810 | 42 | 4.211 | 6.30 | 7.87 | 9.45 | 11.34 | 12.60 | 13.38 | 14.17 | 15.74 | 17.32 | 17.79 | 18.89 | 22.04 | 25.19 | 28.34 |
| 1.107 | 28 | 2.807 | 31 | 3.108 | 7.95 | 9.53 | 11.10 | 12.99 | 14.25 | 15.04 | 15.82 | 17.40 | 18.97 | 19.45 | 20.55 | 23.70 | 26.85 | 30.00 |
| 1.108 | 37 | 3.709 | 41 | 4.110 | 6.46 | 8.03 | 9.61 | 11.50 | 12.76 | 13.54 | 14.33 | 15.90 | 17.48 | 17.95 | 19.05 | 22.20 | 25.35 | 28.50 |
| 1.111 | 27 | 2.707 | 30 | 3.008 | 8.11 | 9.69 | 11.26 | 13.15 | 14.41 | 15.20 | 15.98 | 17.56 | 19.13 | 19.61 | 20.71 | 23.86 | 27.01 | 30.16 |
| 1.111 | 36 | 3.609 | 40 | 4.010 | 6.61 | 8.19 | 9.76 | 11.65 | 12.91 | 13.70 | 14.48 | 16.06 | 17.63 | 18.11 | 19.21 | 22.36 | 25.51 | 28.66 |
| 1.111 | 45 | 4.511 | 50 | 5.013 | – | 6.69 | 8.27 | 10.16 | 11.42 | 12.20 | 12.99 | 14.56 | 16.14 | 16.61 | 17.71 | 20.86 | 24.01 | 27.16 |
| 1.114 | 35 | 3.509 | 39 | 3.910 | 6.77 | 8.35 | 9.92 | 11.81 | 13.07 | 13.86 | 14.64 | 16.22 | 17.79 | 18.27 | 19.37 | 22.52 | 25.67 | 28.82 |
| 1.115 | 26 | 2.607 | 29 | 2.907 | 8.27 | 9.84 | 11.42 | 13.31 | 14.57 | 15.35 | 16.14 | 17.71 | 19.29 | 19.76 | 20.86 | 24.01 | 27.16 | 30.31 |
| 1.117 | 60 | 6.015 | 67 | 6.717 | – | – | – | 7.63 | 8.89 | 9.68 | 10.46 | 12.04 | 13.62 | 14.09 | 15.19 | 18.34 | 21.49 | 24.64 |
| 1.118 | 34 | 3.409 | 38 | 3.810 | 6.93 | 8.50 | 10.08 | 11.97 | 13.23 | 14.01 | 14.80 | 16.37 | 17.95 | 18.42 | 19.52 | 22.67 | 25.82 | 28.97 |
| 1.119 | 67 | 6.717 | 75 | 7.519 | – | – | – | – | 7.71 | 8.49 | 9.28 | 10.86 | 12.43 | 12.91 | 14.01 | 17.16 | 20.31 | 23.46 |
| 1.120 | 25 | 2.506 | 28 | 2.807 | 8.43 | 10.00 | 11.58 | 13.47 | 14.73 | 15.51 | 16.30 | 17.87 | 19.45 | 19.92 | 21.02 | 24.17 | 27.32 | 30.47 |
| 1.120 | 50 | 5.013 | 56 | 5.614 | | 5.82 | 7.40 | 9.29 | 10.55 | 11.33 | 12.12 | 13.70 | 15.27 | 15.75 | 16.85 | 20.00 | 23.15 | 26.30 |
| 1.121 | 33 | 3.308 | 37 | 3.709 | 7.09 | 8.66 | 10.24 | 12.13 | 13.39 | 14.17 | 14.96 | 16.53 | 18.11 | 18.58 | 19.68 | 22.83 | 25.98 | 29.13 |
| 1.125 | 32 | 3.208 | 36 | 3.609 | 7.24 | 8.82 | 10.39 | 12.28 | 13.54 | 14.33 | 15.11 | 16.69 | 18.26 | 18.74 | 19.84 | 22.99 | 26.14 | 29.29 |
| 1.125 | 40 | 4.010 | 45 | 4.511 | 5.90 | 7.48 | 9.05 | 10.94 | 12.21 | 12.99 | 13.78 | 15.35 | 16.93 | 17.40 | 18.50 | 21.65 | 24.80 | 27.95 |
| 1.125 | 56 | 5.614 | 63 | 6.316 | – | – | – | 8.26 | 9.52 | 10.31 | 11.09 | 12.67 | 14.25 | 14.72 | 15.82 | 18.97 | 22.12 | 25.27 |
| 1.125 | 80 | 8.020 | 90 | 9.023 | – | – | – | – | – | – | – | – | 10.22 | 10.70 | 11.80 | 14.95 | 18.10 | 21.25 |
| 1.127 | 63 | 6.316 | 71 | 7.118 | – | – | – | – | 8.34 | 9.13 | 9.91 | 11.49 | 13.06 | 13.54 | 14.64 | 17.79 | 20.94 | 24.09 |
| 1.127 | 71 | 7.118 | 80 | 8.020 | – | – | – | – | – | – | 8.57 | 10.15 | 11.72 | 12.20 | 13.30 | 16.45 | 19.60 | 22.75 |
| 1.129 | 31 | 3.108 | 35 | 3.509 | 7.40 | 8.98 | 10.55 | 12.44 | 13.70 | 14.49 | 15.27 | 16.85 | 18.42 | 18.90 | 20.00 | 23.15 | 26.30 | 29.45 |
| 1.132 | 53 | 5.314 | 60 | 6.015 | | | 6.84 | 8.74 | 10.00 | 10.78 | 11.57 | 13.14 | 14.72 | 15.19 | 16.29 | 19.44 | 22.59 | 25.74 |
| 1.133 | 30 | 3.008 | 34 | 3.409 | 7.56 | 9.13 | 10.71 | 12.60 | 13.86 | 14.64 | 15.43 | 17.00 | 18.58 | 19.05 | 20.15 | 23.30 | 26.45 | 29.60 |
| 1.135 | 37 | 3.709 | 42 | 4.211 | 6.37 | 7.95 | 9.53 | 11.42 | 12.68 | 13.46 | 14.25 | 15.82 | 17.40 | 17.87 | 18.97 | 22.12 | 25.27 | 28.42 |
| 1.136 | 22 | 2.206 | 25 | 2.506 | 8.90 | 10.47 | 12.05 | 13.94 | 15.20 | 15.98 | 16.77 | 18.34 | 19.92 | 20.39 | 21.49 | 24.64 | 27.79 | 30.94 |
| 1.138 | 29 | 2.907 | 33 | 3.308 | 7.72 | 9.29 | 10.87 | 12.76 | 14.02 | 14.80 | 15.59 | 17.16 | 18.74 | 19.21 | 20.31 | 23.46 | 26.61 | 29.76 |
| 1.139 | 36 | 3.609 | 41 | 4.110 | 6.53 | 8.11 | 9.68 | 11.57 | 12.84 | 13.62 | 14.41 | 15.98 | 17.56 | 18.03 | 19.13 | 22.28 | 25.43 | 28.58 |
| 1.143 | 28 | 2.807 | 32 | 3.208 | 7.87 | 9.45 | 11.02 | 12.91 | 14.17 | 14.96 | 15.74 | 17.32 | 18.89 | 19.37 | 20.47 | 23.62 | 26.77 | 29.92 |
| 1.143 | 35 | 3.509 | 40 | 4.010 | 6.69 | 8.27 | 9.84 | 11.73 | 12.99 | 13.78 | 14.56 | 16.14 | 17.71 | 18.19 | 19.29 | 22.44 | 25.59 | 28.74 |
| 1.143 | 42 | 4.211 | 48 | 4.812 | 5.51 | 7.08 | 8.66 | 10.55 | 11.81 | 12.59 | 13.38 | 14.96 | 16.53 | 17.01 | 18.11 | 21.26 | 24.41 | 27.56 |
| 1.147 | 34 | 3.409 | 39 | 3.910 | 6.85 | 8.42 | 10.00 | 11.89 | 13.15 | 13.93 | 14.72 | 16.29 | 17.87 | 18.34 | 19.45 | 22.60 | 25.75 | 28.90 |
| 1.148 | 27 | 2.707 | 31 | 3.108 | 8.03 | 9.61 | 11.18 | 13.07 | 14.33 | 15.12 | 15.90 | 17.48 | 19.05 | 19.53 | 20.63 | 23.78 | 26.93 | 30.08 |
| 1.152 | 33 | 3.308 | 38 | 3.810 | 7.01 | 8.58 | 10.16 | 12.05 | 13.31 | 14.09 | 14.88 | 16.45 | 18.03 | 18.50 | 19.60 | 22.75 | 25.90 | 29.05 |
| 1.154 | 26 | 2.607 | 30 | 3.008 | 8.19 | 9.76 | 11.34 | 13.23 | 14.49 | 15.27 | 16.06 | 17.63 | 19.21 | 19.68 | 20.78 | 23.93 | 27.08 | 30.23 |
| 1.154 | 39 | 3.910 | 45 | 4.511 | 5.98 | 7.56 | 9.13 | 11.02 | 12.28 | 13.07 | 13.85 | 15.43 | 17.00 | 17.48 | 18.58 | 21.73 | 24.88 | 28.03 |
| 1.156 | 32 | 3.208 | 37 | 3.709 | 7.16 | 8.74 | 10.31 | 12.20 | 13.47 | 14.25 | 15.04 | 16.61 | 18.19 | 18.66 | 19.76 | 22.91 | 26.06 | 29.21 |
| 1.160 | 25 | 2.506 | 29 | 2.907 | 8.35 | 9.92 | 11.50 | 13.39 | 14.65 | 15.43 | 16.22 | 17.79 | 19.37 | 19.84 | 20.94 | 24.09 | 27.24 | 30.39 |
| 1.161 | 31 | 3.108 | 36 | 3.609 | 7.32 | 8.90 | 10.47 | 12.36 | 13.62 | 14.41 | 15.19 | 16.77 | 18.34 | 18.82 | 19.92 | 23.07 | 26.22 | 29.37 |
| 1.167 | 30 | 3.008 | 35 | 3.509 | 7.48 | 9.05 | 10.63 | 12.52 | 13.78 | 14.56 | 15.35 | 16.92 | 18.50 | 18.97 | 20.07 | 23.23 | 26.38 | 29.53 |
| 1.167 | 36 | 3.609 | 42 | 4.211 | 6.45 | 8.03 | 9.60 | 11.49 | 12.75 | 13.54 | 14.33 | 15.90 | 17.48 | 17.95 | 19.05 | 22.20 | 25.35 | 28.50 |
| 1.167 | 48 | 4.812 | 56 | 5.614 | – | 5.97 | 7.55 | 9.44 | 10.70 | 11.49 | 12.27 | 13.85 | 15.43 | 15.90 | 17.00 | 20.15 | 23.30 | 26.45 |
| 1.171 | 35 | 3.509 | 41 | 4.110 | 6.61 | 8.19 | 9.76 | 11.65 | 12.91 | 13.70 | 14.48 | 16.06 | 17.63 | 18.11 | 19.21 | 22.36 | 25.51 | 28.66 |
| 1.171 | 41 | 4.110 | 48 | 4.812 | 5.58 | 7.16 | 8.74 | 10.63 | 11.89 | 12.67 | 13.46 | 15.03 | 16.61 | 17.08 | 18.18 | 21.33 | 24.49 | 27.64 |
| 1.172 | 29 | 2.907 | 34 | 3.409 | 7.64 | 9.21 | 10.79 | 12.68 | 13.94 | 14.72 | 15.51 | 17.08 | 18.66 | 19.13 | 20.23 | 23.38 | 26.53 | 29.68 |
| 1.176 | 34 | 3.409 | 40 | 4.010 | 6.77 | 8.34 | 9.92 | 11.81 | 13.07 | 13.85 | 14.64 | 16.22 | 17.79 | 18.27 | 19.37 | 22.52 | 25.67 | 28.82 |
| 1.178 | 45 | 4.511 | 53 | 5.314 | – | 6.45 | 8.02 | 9.92 | 11.18 | 11.96 | 12.75 | 14.32 | 15.90 | 16.37 | 17.47 | 20.62 | 23.78 | 26.93 |
| 1.179 | 28 | 2.807 | 33 | 3.308 | 7.79 | 9.37 | 10.94 | 12.83 | 14.10 | 14.88 | 15.67 | 17.24 | 18.82 | 19.29 | 20.39 | 23.54 | 26.69 | 29.84 |
| 1.182 | 22 | 2.206 | 26 | 2.607 | 8.82 | 10.39 | 11.97 | 13.86 | 15.12 | 15.90 | 16.69 | 18.26 | 19.84 | 20.31 | 21.41 | 24.56 | 27.71 | 30.86 |
| 1.182 | 33 | 3.308 | 39 | 3.910 | 6.92 | 8.50 | 10.08 | 11.97 | 13.23 | 14.01 | 14.80 | 16.37 | 17.95 | 18.42 | 19.52 | 22.67 | 25.82 | 28.97 |
| 1.183 | 60 | 6.015 | 71 | 7.118 | – | – | – | 7.30 | 8.57 | 9.35 | 10.14 | 11.72 | 13.29 | 13.77 | 14.87 | 18.02 | 21.17 | 24.32 |
| 1.184 | 38 | 3.810 | 45 | 4.511 | 6.05 | 7.63 | 9.21 | 11.10 | 12.36 | 13.15 | 13.93 | 15.51 | 17.08 | 17.56 | 18.66 | 21.81 | 24.96 | 28.11 |
| 1.185 | 27 | 2.707 | 32 | 3.208 | 7.95 | 9.53 | 11.10 | 12.99 | 14.25 | 15.04 | 15.82 | 17.40 | 18.97 | 19.45 | 20.55 | 23.70 | 26.85 | 30.00 |
| 1.188 | 32 | 3.208 | 38 | 3.810 | 7.08 | 8.66 | 10.23 | 12.12 | 13.38 | 14.17 | 14.96 | 16.53 | 18.11 | 18.58 | 19.68 | 22.83 | 25.98 | 29.13 |
| 1.189 | 53 | 5.314 | 63 | 6.316 | – | – | 6.60 | 8.49 | 9.75 | 10.54 | 11.32 | 12.90 | 14.48 | 14.95 | 16.05 | 19.20 | 22.36 | 25.51 |
| 1.190 | 42 | 4.211 | 50 | 5.013 | 5.34 | 6.92 | 8.50 | 10.39 | 11.65 | 12.43 | 13.22 | 14.80 | 16.37 | 16.85 | 17.95 | 21.10 | 24.25 | 27.40 |
| 1.190 | 63 | 6.316 | 75 | 7.519 | – | – | – | – | 8.01 | 8.80 | 9.59 | 11.16 | 12.74 | 13.22 | 14.32 | 17.47 | 20.62 | 23.77 |
| 1.192 | 26 | 2.607 | 31 | 3.108 | 8.11 | 9.68 | 11.26 | 13.15 | 14.41 | 15.19 | 15.98 | 17.55 | 19.13 | 19.60 | 20.70 | 23.86 | 27.01 | 30.16 |
| 1.194 | 31 | 3.108 | 37 | 3.709 | 7.24 | 8.82 | 10.39 | 12.28 | 13.54 | 14.33 | 15.11 | 16.69 | 18.26 | 18.74 | 19.84 | 22.99 | 26.14 | 29.29 |
| 1.194 | 67 | 6.717 | 80 | 8.020 | – | – | – | – | – | 8.08 | 8.87 | 10.45 | 12.03 | 12.50 | 13.60 | 16.76 | 19.91 | 23.06 |
| 1.196 | 56 | 5.614 | 67 | 6.717 | – | – | – | 7.94 | 9.20 | 9.99 | 10.77 | 12.35 | 13.92 | 14.40 | 15.50 | 18.65 | 21.80 | 24.95 |
| 1.200 | 25 | 2.506 | 30 | 3.008 | 8.27 | 9.84 | 11.42 | 13.31 | 14.57 | 15.35 | 16.14 | 17.71 | 19.29 | 19.76 | 20.86 | 24.01 | 27.16 | 30.31 |
| 1.200 | 30 | 3.008 | 36 | 3.609 | 7.40 | 8.97 | 10.55 | 12.44 | 13.70 | 14.48 | 15.27 | 16.85 | 18.42 | 18.90 | 20.00 | 23.15 | 26.30 | 29.45 |
| 1.200 | 35 | 3.509 | 42 | 4.211 | 6.53 | 8.10 | 9.68 | 11.57 | 12.83 | 13.62 | 14.40 | 15.98 | 17.55 | 18.03 | 19.13 | 22.28 | 25.43 | 28.58 |
| 1.200 | 40 | 4.010 | 48 | 4.812 | 5.66 | 7.24 | 8.81 | 10.70 | 11.96 | 12.75 | 13.54 | 15.11 | 16.69 | 17.16 | 18.26 | 21.41 | 24.56 | 27.71 |
| 1.200 | 50 | 5.013 | 60 | 6.015 | – | – | 7.07 | 8.96 | 10.23 | 11.01 | 11.80 | 13.37 | 14.95 | 15.43 | 16.53 | 19.68 | 22.83 | 25.98 |
| 1.200 | 75 | 7.519 | 90 | 9.023 | – | – | – | – | – | – | – | 9.02 | 10.60 | 11.08 | 12.18 | 15.33 | 18.49 | 21.64 |
| 1.206 | 34 | 3.409 | 41 | 4.110 | 6.69 | 8.26 | 9.84 | 11.73 | 12.99 | 13.78 | 14.56 | 16.14 | 17.71 | 18.19 | 19.29 | 22.44 | 25.59 | 28.74 |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1792-8MX | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |
| 1.000 | 22 | 2.206 | 22 | 2.206 | 29.37 | 33.46 | 37.40 | 38.19 | 41.34 | 43.70 | 45.27 | 49.21 | 50.00 | 54.09 | 57.08 | 58.66 | 64.96 | 72.83 | 80.71 | 82.28 |
| 1.000 | 25 | 2.506 | 25 | 2.506 | 29.53 | 33.62 | 37.56 | 38.35 | 41.50 | 43.86 | 45.43 | 49.37 | 50.16 | 54.25 | 57.24 | 58.82 | 65.12 | 72.99 | 80.87 | 82.44 |
| 1.000 | 26 | 2.607 | 26 | 2.607 | 29.68 | 33.78 | 37.71 | 38.50 | 41.65 | 44.01 | 45.59 | 49.53 | 50.31 | 54.41 | 57.40 | 58.97 | 65.27 | 73.15 | 81.02 | 82.60 |
| 1.000 | 27 | 2.707 | 27 | 2.707 | 29.84 | 33.94 | 37.87 | 38.66 | 41.81 | 44.17 | 45.75 | 49.69 | 50.47 | 54.57 | 57.56 | 59.13 | 65.43 | 73.31 | 81.18 | 82.76 |
| 1.000 | 28 | 2.807 | 28 | 2.807 | 30.00 | 34.09 | 38.03 | 38.82 | 41.97 | 44.33 | 45.90 | 49.84 | 50.63 | 54.72 | 57.71 | 59.29 | 65.59 | 73.46 | 81.34 | 82.91 |
| 1.000 | 29 | 2.907 | 29 | 2.907 | 30.16 | 34.25 | 38.19 | 38.98 | 42.13 | 44.49 | 46.06 | 50.00 | 50.79 | 54.88 | 57.87 | 59.45 | 65.75 | 73.62 | 81.50 | 83.07 |
| 1.000 | 30 | 3.008 | 30 | 3.008 | 28.50 | 32.60 | 36.53 | 37.32 | 40.47 | 42.83 | 44.41 | 48.35 | 49.13 | 53.23 | 56.22 | 57.79 | 64.09 | 71.97 | 79.84 | 81.42 |
| 1.000 | 31 | 3.108 | 31 | 3.108 | 30.31 | 34.41 | 38.34 | 39.13 | 42.28 | 44.64 | 46.22 | 50.16 | 50.94 | 55.04 | 58.03 | 59.60 | 65.90 | 73.78 | 81.65 | 83.23 |
| 1.000 | 32 | 3.208 | 32 | 3.208 | 30.47 | 34.57 | 38.50 | 39.29 | 42.44 | 44.80 | 46.38 | 50.32 | 51.10 | 55.20 | 58.19 | 59.76 | 66.06 | 73.94 | 81.81 | 83.39 |
| 1.000 | 33 | 3.308 | 33 | 3.308 | 27.32 | 31.42 | 35.35 | 36.14 | 39.29 | 41.65 | 43.23 | 47.17 | 47.95 | 52.05 | 55.04 | 56.61 | 62.91 | 70.79 | 78.66 | 80.24 |
| 1.000 | 34 | 3.409 | 34 | 3.409 | 28.97 | 33.07 | 37.00 | 37.79 | 40.94 | 43.30 | 44.88 | 48.82 | 49.60 | 53.70 | 56.69 | 58.26 | 64.57 | 72.44 | 80.32 | 81.89 |
| 1.000 | 35 | 3.509 | 35 | 3.509 | 30.63 | 34.72 | 38.66 | 39.45 | 42.60 | 44.96 | 46.53 | 50.47 | 51.26 | 55.35 | 58.34 | 59.92 | 66.22 | 74.09 | 81.97 | 83.54 |
| 1.000 | 36 | 3.609 | 36 | 3.609 | 29.13 | 33.23 | 37.16 | 37.95 | 41.10 | 43.46 | 45.04 | 48.98 | 49.76 | 53.86 | 56.85 | 58.42 | 64.72 | 72.60 | 80.47 | 82.05 |
| 1.000 | 37 | 3.709 | 37 | 3.709 | 30.79 | 34.88 | 38.82 | 39.61 | 42.76 | 45.12 | 46.69 | 50.63 | 51.42 | 55.51 | 58.50 | 60.08 | 66.38 | 74.25 | 82.13 | 83.70 |
| 1.000 | 38 | 3.810 | 38 | 3.810 | 29.29 | 33.39 | 37.32 | 38.11 | 41.26 | 43.62 | 45.20 | 49.14 | 49.92 | 54.02 | 57.01 | 58.58 | 64.88 | 72.76 | 80.63 | 82.21 |
| 1.000 | 39 | 3.910 | 39 | 3.910 | 27.79 | 31.89 | 35.82 | 36.61 | 39.76 | 42.12 | 43.70 | 47.64 | 48.42 | 52.52 | 55.51 | 57.08 | 63.38 | 71.26 | 79.13 | 80.71 |
| 1.000 | 40 | 4.010 | 40 | 4.010 | 29.45 | 33.54 | 37.48 | 38.27 | 41.42 | 43.78 | 45.35 | 49.29 | 50.08 | 54.17 | 57.16 | 58.74 | 65.04 | 72.91 | 80.79 | 82.36 |
| 1.000 | 41 | 4.110 | 41 | 4.110 | 30.94 | 35.04 | 38.97 | 39.76 | 42.91 | 45.27 | 46.85 | 50.79 | 51.57 | 55.67 | 58.66 | 60.23 | 66.53 | 74.41 | 82.28 | 83.86 |
| 1.000 | 42 | 4.211 | 42 | 4.211 | 25.27 | 29.37 | 33.30 | 34.09 | 37.24 | 39.60 | 41.18 | 45.12 | 45.90 | 50.00 | 52.99 | 54.56 | 60.86 | 68.74 | 76.61 | 78.19 |
| 1.000 | 45 | 4.511 | 45 | 4.511 | 29.60 | 33.70 | 37.63 | 38.42 | 41.57 | 43.93 | 45.51 | 49.45 | 50.23 | 54.33 | 57.32 | 58.89 | 65.19 | 73.07 | 80.94 | 82.52 |
| 1.000 | 48 | 4.812 | 48 | 4.812 | 24.09 | 28.19 | 32.12 | 32.91 | 36.06 | 38.42 | 40.00 | 43.94 | 44.72 | 48.82 | 51.81 | 53.38 | 59.68 | 67.56 | 75.43 | 77.01 |
| 1.000 | 50 | 5.013 | 50 | 5.013 | 31.10 | 35.20 | 39.13 | 39.92 | 43.07 | 45.43 | 47.01 | 50.95 | 51.73 | 55.83 | 58.82 | 60.39 | 66.69 | 74.57 | 82.44 | 84.02 |
| 1.000 | 53 | 5.314 | 53 | 5.314 | 26.93 | 31.02 | 34.96 | 35.75 | 38.90 | 41.26 | 42.83 | 46.77 | 47.56 | 51.65 | 54.64 | 56.22 | 62.52 | 70.39 | 78.27 | 79.84 |
| 1.000 | 56 | 5.614 | 56 | 5.614 | 29.76 | 33.86 | 37.79 | 38.58 | 41.73 | 44.09 | 45.67 | 49.61 | 50.39 | 54.49 | 57.48 | 59.05 | 65.35 | 73.23 | 81.10 | 82.68 |
| 1.000 | 60 | 6.015 | 60 | 6.015 | 29.92 | 34.02 | 37.95 | 38.74 | 41.89 | 44.25 | 45.83 | 49.77 | 50.55 | 54.65 | 57.64 | 59.21 | 65.51 | 73.39 | 81.26 | 82.84 |
| 1.000 | 63 | 6.316 | 63 | 6.316 | 28.58 | 32.68 | 36.61 | 37.40 | 40.55 | 42.91 | 44.49 | 48.43 | 49.21 | 53.31 | 56.30 | 57.87 | 64.17 | 72.05 | 79.92 | 81.50 |
| 1.000 | 67 | 6.717 | 67 | 6.717 | 25.90 | 30.00 | 33.93 | 34.72 | 37.87 | 40.23 | 41.81 | 45.75 | 46.53 | 50.63 | 53.62 | 55.19 | 61.49 | 69.37 | 77.24 | 78.82 |
| 1.000 | 71 | 7.118 | 71 | 7.118 | 21.88 | 25.98 | 29.92 | 30.71 | 33.86 | 36.22 | 37.79 | 41.73 | 42.52 | 46.61 | 49.60 | 51.18 | 57.48 | 65.35 | 73.23 | 74.80 |
| 1.000 | 75 | 7.519 | 75 | 7.519 | 24.72 | 28.82 | 32.75 | 33.54 | 36.69 | 39.05 | 40.63 | 44.57 | 45.35 | 49.45 | 52.44 | 54.01 | 60.31 | 68.19 | 76.06 | 77.64 |
| 1.000 | 80 | 8.020 | 80 | 8.020 | 23.38 | 27.48 | 31.41 | 32.20 | 35.35 | 37.71 | 39.29 | 43.23 | 44.01 | 48.11 | 51.10 | 52.67 | 58.97 | 66.85 | 74.72 | 76.30 |
| 1.024 | 41 | 4.110 | 42 | 4.211 | 30.08 | 34.17 | 38.11 | 38.90 | 42.05 | 44.41 | 45.98 | 49.92 | 50.71 | 54.80 | 57.79 | 59.37 | 65.67 | 73.54 | 81.42 | 82.99 |
| 1.025 | 40 | 4.010 | 41 | 4.110 | 26.37 | 30.47 | 34.41 | 35.20 | 38.35 | 40.71 | 42.28 | 46.22 | 47.01 | 51.10 | 54.09 | 55.67 | 61.97 | 69.84 | 77.72 | 79.29 |
| 1.026 | 38 | 3.810 | 39 | 3.910 | 30.23 | 34.33 | 38.26 | 39.05 | 42.20 | 44.56 | 46.14 | 50.08 | 50.86 | 54.96 | 57.95 | 59.52 | 65.82 | 73.70 | 81.57 | 83.15 |
| 1.026 | 39 | 3.910 | 40 | 4.010 | 29.05 | 33.15 | 37.08 | 37.87 | 41.02 | 43.38 | 44.96 | 48.90 | 49.68 | 53.78 | 56.77 | 58.34 | 64.64 | 72.52 | 80.39 | 81.97 |
| 1.027 | 37 | 3.709 | 38 | 3.810 | 31.57 | 35.67 | 39.60 | 40.39 | 43.54 | 45.90 | 47.48 | 51.42 | 52.20 | 56.30 | 59.29 | 60.86 | 67.16 | 75.04 | 82.91 | 84.49 |
| 1.028 | 36 | 3.609 | 37 | 3.709 | 30.39 | 34.49 | 38.42 | 39.21 | 42.36 | 44.72 | 46.30 | 50.24 | 51.02 | 55.12 | 58.11 | 59.68 | 65.98 | 73.86 | 81.73 | 83.31 |
| 1.029 | 34 | 3.409 | 35 | 3.509 | 29.21 | 33.31 | 37.24 | 38.03 | 41.18 | 43.54 | 45.12 | 49.06 | 49.84 | 53.94 | 56.93 | 58.50 | 64.80 | 72.68 | 80.55 | 82.13 |
| 1.029 | 35 | 3.509 | 36 | 3.609 | 30.55 | 34.65 | 38.58 | 39.37 | 42.52 | 44.88 | 46.46 | 50.40 | 51.18 | 55.28 | 58.27 | 59.84 | 66.14 | 74.02 | 81.89 | 83.47 |
| 1.030 | 33 | 3.308 | 34 | 3.409 | 29.37 | 33.46 | 37.40 | 38.19 | 41.34 | 43.70 | 45.27 | 49.21 | 50.00 | 54.09 | 57.08 | 58.66 | 64.96 | 72.83 | 80.71 | 82.28 |
| 1.031 | 32 | 3.208 | 33 | 3.308 | 28.19 | 32.28 | 36.22 | 37.01 | 40.16 | 42.52 | 44.09 | 48.03 | 48.82 | 52.91 | 55.90 | 57.48 | 63.78 | 71.65 | 79.53 | 81.10 |
| 1.032 | 31 | 3.108 | 32 | 3.208 | 29.53 | 33.62 | 37.56 | 38.35 | 41.50 | 43.86 | 45.43 | 49.37 | 50.16 | 54.25 | 57.24 | 58.82 | 65.12 | 72.99 | 80.87 | 82.44 |
| 1.033 | 30 | 3.008 | 31 | 3.108 | 30.71 | 34.80 | 38.74 | 39.53 | 42.68 | 45.04 | 46.61 | 50.55 | 51.34 | 55.43 | 58.42 | 60.00 | 66.30 | 74.17 | 82.05 | 83.62 |
| 1.034 | 29 | 2.907 | 30 | 3.008 | 29.68 | 33.78 | 37.71 | 38.50 | 41.65 | 44.01 | 45.59 | 49.53 | 50.31 | 54.41 | 57.40 | 58.97 | 65.27 | 73.15 | 81.02 | 82.60 |
| 1.036 | 28 | 2.807 | 29 | 2.907 | 30.86 | 34.96 | 38.89 | 39.68 | 42.83 | 45.19 | 46.77 | 50.71 | 51.49 | 55.59 | 58.58 | 60.15 | 66.45 | 74.33 | 82.20 | 83.78 |
| 1.037 | 27 | 2.707 | 28 | 2.807 | 28.66 | 32.75 | 36.69 | 37.48 | 40.63 | 42.99 | 44.57 | 48.51 | 49.29 | 53.39 | 56.38 | 57.95 | 64.25 | 72.13 | 80.00 | 81.58 |
| 1.038 | 26 | 2.607 | 27 | 2.707 | 29.84 | 33.94 | 37.87 | 38.66 | 41.81 | 44.17 | 45.75 | 49.69 | 50.47 | 54.57 | 57.56 | 59.13 | 65.43 | 73.31 | 81.18 | 82.76 |
| 1.040 | 25 | 2.506 | 26 | 2.607 | 31.02 | 35.12 | 39.05 | 39.84 | 42.99 | 45.35 | 46.93 | 50.87 | 51.65 | 55.75 | 58.74 | 60.31 | 66.61 | 74.49 | 82.36 | 83.94 |
| 1.042 | 48 | 4.812 | 50 | 5.013 | 30.00 | 34.09 | 38.03 | 38.82 | 41.97 | 44.33 | 45.90 | 49.84 | 50.63 | 54.72 | 57.71 | 59.29 | 65.59 | 73.46 | 81.34 | 82.91 |
| 1.050 | 40 | 4.010 | 42 | 4.211 | 30.16 | 34.25 | 38.19 | 38.98 | 42.13 | 44.49 | 46.06 | 50.00 | 50.79 | 54.88 | 57.87 | 59.45 | 65.75 | 73.62 | 81.50 | 83.07 |
| 1.050 | 60 | 6.015 | 63 | 6.316 | 29.13 | 33.23 | 37.16 | 37.95 | 41.10 | 43.46 | 45.04 | 48.98 | 49.76 | 53.86 | 56.85 | 58.42 | 64.72 | 72.60 | 80.47 | 82.05 |
| 1.051 | 39 | 3.910 | 41 | 4.110 | 27.08 | 31.18 | 35.11 | 35.90 | 39.05 | 41.41 | 42.99 | 46.93 | 47.71 | 51.81 | 54.80 | 56.38 | 62.68 | 70.55 | 78.43 | 80.00 |
| 1.053 | 38 | 3.810 | 40 | 4.010 | 29.29 | 33.38 | 37.32 | 38.11 | 41.26 | 43.62 | 45.20 | 49.14 | 49.92 | 54.02 | 57.01 | 58.58 | 64.88 | 72.76 | 80.63 | 82.21 |
| 1.054 | 37 | 3.709 | 39 | 3.910 | 28.27 | 32.36 | 36.30 | 37.09 | 40.24 | 42.60 | 44.17 | 48.11 | 48.90 | 52.99 | 55.98 | 57.56 | 63.86 | 71.73 | 79.61 | 81.18 |
| 1.056 | 36 | 3.609 | 38 | 3.810 | 30.31 | 34.41 | 38.34 | 39.13 | 42.28 | 44.64 | 46.22 | 50.16 | 50.94 | 55.04 | 58.03 | 59.60 | 65.90 | 73.78 | 81.65 | 83.23 |
| 1.056 | 71 | 7.118 | 75 | 7.519 | 29.45 | 33.54 | 37.48 | 38.27 | 41.42 | 43.78 | 45.35 | 49.29 | 50.08 | 54.17 | 57.16 | 58.74 | 65.04 | 72.91 | 80.79 | 82.36 |
| 1.057 | 35 | 3.509 | 37 | 3.709 | 27.56 | 31.65 | 35.59 | 36.38 | 39.53 | 41.89 | 43.46 | 47.40 | 48.19 | 52.28 | 55.27 | 56.85 | 63.15 | 71.02 | 78.90 | 80.47 |
| 1.057 | 53 | 5.314 | 56 | 5.614 | 30.47 | 34.57 | 38.50 | 39.29 | 42.44 | 44.80 | 46.38 | 50.32 | 51.10 | 55.20 | 58.19 | 59.76 | 66.06 | 73.94 | 81.81 | 83.39 |
| 1.059 | 34 | 3.409 | 36 | 3.609 | 31.49 | 35.59 | 39.52 | 40.31 | 43.46 | 45.82 | 47.40 | 51.34 | 52.12 | 56.22 | 59.21 | 60.78 | 67.08 | 74.96 | 82.83 | 84.41 |
| 1.060 | 50 | 5.013 | 53 | 5.314 | 29.60 | 33.70 | 37.63 | 38.42 | 41.57 | 43.93 | 45.51 | 49.45 | 50.24 | 54.33 | 57.32 | 58.90 | 65.20 | 73.07 | 80.95 | 82.52 |
| 1.060 | 67 | 6.717 | 71 | 7.118 | 24.95 | 29.05 | 32.99 | 33.78 | 36.93 | 39.29 | 40.86 | 44.80 | 45.59 | 49.68 | 52.67 | 54.25 | 60.55 | 68.42 | 76.30 | 77.87 |
| 1.061 | 33 | 3.308 | 35 | 3.509 | 28.74 | 32.83 | 36.77 | 37.56 | 40.71 | 43.07 | 44.64 | 48.58 | 49.37 | 53.46 | 56.45 | 58.03 | 64.33 | 72.20 | 80.08 | 81.65 |
| 1.063 | 32 | 3.208 | 34 | 3.409 | 30.63 | 34.72 | 38.66 | 39.45 | 42.60 | 44.96 | 46.53 | 50.47 | 51.26 | 55.35 | 58.34 | 59.92 | 66.22 | 74.09 | 81.97 | 83.54 |
| 1.063 | 63 | 6.316 | 67 | 6.717 | 29.76 | 33.86 | 37.79 | 38.58 | 41.73 | 44.09 | 45.67 | 49.61 | 50.39 | 54.49 | 57.48 | 59.05 | 65.35 | 73.23 | 81.10 | 82.68 |
| 1.065 | 31 | 3.108 | 33 | 3.308 | 26.14 | 30.23 | 34.17 | 34.96 | 38.11 | 40.47 | 42.04 | 45.98 | 46.77 | 50.86 | 53.85 | 55.43 | 61.73 | 69.60 | 77.48 | 79.05 |
| 1.067 | 30 | 3.008 | 32 | 3.208 | 28.03 | 32.12 | 36.06 | 36.85 | 40.00 | 42.36 | 43.93 | 47.87 | 48.66 | 52.75 | 55.74 | 57.32 | 63.62 | 71.49 | 79.37 | 80.94 |
| 1.067 | 45 | 4.511 | 48 | 4.812 | 24.40 | 28.50 | 32.43 | 33.22 | 36.37 | 38.73 | 40.31 | 44.25 | 45.03 | 49.13 | 52.12 | 53.70 | 60.00 | 67.87 | 75.75 | 77.32 |
| 1.067 | 75 | 7.519 | 80 | 8.020 | 30.79 | 34.88 | 38.82 | 39.61 | 42.76 | 45.12 | 46.69 | 50.63 | 51.42 | 55.51 | 58.50 | 60.08 | 66.38 | 74.25 | 82.13 | 83.70 |
| 1.069 | 29 | 2.907 | 31 | 3.108 | 29.92 | 34.01 | 37.95 | 38.74 | 41.89 | 44.25 | 45.82 | 49.77 | 50.55 | 54.65 | 57.64 | 59.21 | 65.51 | 73.39 | 81.26 | 82.84 |
| 1.071 | 28 | 2.807 | 30 | 3.008 | 23.69 | 27.79 | 31.72 | 32.51 | 35.66 | 38.03 | 39.60 | 43.54 | 44.33 | 48.42 | 51.41 | 52.99 | 59.29 | 67.16 | 75.04 | 76.61 |
| 1.071 | 42 | 4.211 | 45 | 4.511 | 25.58 | 29.68 | 33.62 | 34.41 | 37.56 | 39.92 | 41.49 | 45.43 | 46.22 | 50.31 | 53.30 | 54.88 | 61.18 | 69.05 | 76.93 | 78.50 |
| 1.071 | 56 | 5.614 | 60 | 6.015 | 30.94 | 35.04 | 38.97 | 39.76 | 42.91 | 45.27 | 46.85 | 50.79 | 51.57 | 55.67 | 58.66 | 60.23 | 66.53 | 74.41 | 82.28 | 83.86 |
| 1.074 | 27 | 2.707 | 29 | 2.907 | 30.08 | 34.17 | 38.11 | 38.90 | 42.05 | 44.41 | 45.98 | 49.92 | 50.71 | 54.80 | 57.79 | 59.37 | 65.67 | 73.54 | 81.42 | 82.99 |
| 1.077 | 26 | 2.607 | 28 | 2.807 | 29.21 | 33.30 | 37.24 | 38.03 | 41.18 | 43.54 | 45.12 | 49.06 | 49.84 | 53.94 | 56.93 | 58.50 | 64.80 | 72.68 | 80.55 | 82.13 |
| 1.077 | 39 | 3.910 | 42 | 4.211 | 28.34 | 32.44 | 36.37 | 37.16 | 40.31 | 42.67 | 44.25 | 48.19 | 48.97 | 53.07 | 56.06 | 57.63 | 63.93 | 71.81 | 79.69 | 81.26 |
| 1.079 | 38 | 3.810 | 41 | 4.110 | 26.61 | 30.70 | 34.64 | 35.43 | 38.58 | 40.94 | 42.52 | 46.46 | 47.24 | 51.34 | 54.33 | 55.90 | 62.20 | 70.08 | 77.95 | 79.53 |
| 1.080 | 25 | 2.506 | 27 | 2.707 | 22.27 | 26.37 | 30.30 | 31.09 | 34.24 | 36.61 | 38.18 | 42.12 | 42.91 | 47.00 | 49.99 | 51.57 | 57.87 | 65.74 | 73.62 | 75.19 |
| 1.081 | 37 | 3.709 | 40 | 4.010 | 29.37 | 33.46 | 37.40 | 38.19 | 41.34 | 43.70 | 45.27 | 49.21 | 50.00 | 54.09 | 57.08 | 58.66 | 64.96 | 72.83 | 80.71 | 82.28 |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 640-8MX | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |
| 1.207 | 29 | 2.907 | 35 | 3.509 | 7.55 | 9.13 | 10.71 | 12.60 | 13.86 | 14.64 | 15.43 | 17.00 | 18.58 | 19.05 | 20.15 | 23.30 | 26.45 | 29.60 |
| 1.212 | 33 | 3.308 | 40 | 4.010 | 6.84 | 8.42 | 10.00 | 11.89 | 13.15 | 13.93 | 14.72 | 16.29 | 17.87 | 18.34 | 19.44 | 22.59 | 25.75 | 28.90 |
| 1.214 | 28 | 2.807 | 34 | 3.409 | 7.71 | 9.29 | 10.86 | 12.75 | 14.01 | 14.80 | 15.59 | 17.16 | 18.74 | 19.21 | 20.31 | 23.46 | 26.61 | 29.76 |
| 1.216 | 37 | 3.709 | 45 | 4.511 | 6.13 | 7.71 | 9.29 | 11.18 | 12.44 | 13.22 | 14.01 | 15.58 | 17.16 | 17.63 | 18.73 | 21.89 | 25.04 | 28.19 |
| 1.219 | 32 | 3.208 | 39 | 3.910 | 7.00 | 8.58 | 10.15 | 12.04 | 13.30 | 14.09 | 14.88 | 16.45 | 18.03 | 18.50 | 19.60 | 22.75 | 25.90 | 29.05 |
| 1.220 | 41 | 4.110 | 50 | 5.013 | 5.42 | 7.00 | 8.57 | 10.47 | 11.73 | 12.51 | 13.30 | 14.87 | 16.45 | 16.92 | 18.02 | 21.17 | 24.33 | 27.48 |
| 1.222 | 27 | 2.707 | 33 | 3.308 | 7.87 | 9.45 | 11.02 | 12.91 | 14.17 | 14.96 | 15.74 | 17.32 | 18.89 | 19.37 | 20.47 | 23.62 | 26.77 | 29.92 |
| 1.226 | 31 | 3.108 | 38 | 3.810 | 7.16 | 8.73 | 10.31 | 12.20 | 13.46 | 14.25 | 15.03 | 16.61 | 18.18 | 18.66 | 19.76 | 22.91 | 26.06 | 29.21 |
| 1.227 | 22 | 2.206 | 27 | 2.707 | 8.74 | 10.31 | 11.89 | 13.78 | 15.04 | 15.82 | 16.61 | 18.18 | 19.76 | 20.23 | 21.33 | 24.49 | 27.64 | 30.79 |
| 1.231 | 26 | 2.607 | 32 | 3.208 | 8.03 | 9.60 | 11.18 | 13.07 | 14.33 | 15.11 | 15.90 | 17.48 | 19.05 | 19.53 | 20.63 | 23.78 | 26.93 | 30.08 |
| 1.231 | 39 | 3.910 | 48 | 4.812 | 5.73 | 7.31 | 8.89 | 10.78 | 12.04 | 12.83 | 13.61 | 15.19 | 16.76 | 17.24 | 18.34 | 21.49 | 24.64 | 27.79 |
| 1.233 | 30 | 3.008 | 37 | 3.709 | 7.32 | 8.89 | 10.47 | 12.36 | 13.62 | 14.41 | 15.19 | 16.77 | 18.34 | 18.82 | 19.92 | 23.07 | 26.22 | 29.37 |
| 1.235 | 34 | 3.409 | 42 | 4.211 | 6.60 | 8.18 | 9.76 | 11.65 | 12.91 | 13.69 | 14.48 | 16.06 | 17.63 | 18.11 | 19.21 | 22.36 | 25.51 | 28.66 |
| 1.240 | 25 | 2.506 | 31 | 3.108 | 8.19 | 9.76 | 11.34 | 13.23 | 14.49 | 15.27 | 16.06 | 17.63 | 19.21 | 19.68 | 20.78 | 23.93 | 27.08 | 30.23 |
| 1.241 | 29 | 2.907 | 36 | 3.609 | 7.47 | 9.05 | 10.63 | 12.52 | 13.78 | 14.56 | 15.35 | 16.92 | 18.50 | 18.97 | 20.07 | 23.22 | 26.38 | 29.53 |
| 1.242 | 33 | 3.308 | 41 | 4.110 | 6.76 | 8.34 | 9.92 | 11.81 | 13.07 | 13.85 | 14.64 | 16.21 | 17.79 | 18.26 | 19.36 | 22.52 | 25.67 | 28.82 |
| 1.244 | 45 | 4.511 | 56 | 5.614 | – | 6.20 | 7.78 | 9.67 | 10.93 | 11.72 | 12.51 | 14.08 | 15.66 | 16.13 | 17.23 | 20.39 | 23.54 | 26.69 |
| 1.250 | 28 | 2.807 | 35 | 3.509 | 7.63 | 9.21 | 10.78 | 12.67 | 13.94 | 14.72 | 15.51 | 17.08 | 18.66 | 19.13 | 20.23 | 23.38 | 26.53 | 29.68 |
| 1.250 | 32 | 3.208 | 40 | 4.010 | 6.92 | 8.50 | 10.07 | 11.96 | 13.22 | 14.01 | 14.80 | 16.37 | 17.95 | 18.42 | 19.52 | 22.67 | 25.82 | 28.97 |
| 1.250 | 36 | 3.609 | 45 | 4.511 | 6.21 | 7.78 | 9.36 | 11.25 | 12.51 | 13.30 | 14.09 | 15.66 | 17.24 | 17.71 | 18.81 | 21.96 | 25.11 | 28.26 |
| 1.250 | 40 | 4.010 | 50 | 5.013 | 5.49 | 7.07 | 8.65 | 10.54 | 11.80 | 12.59 | 13.37 | 14.95 | 16.53 | 17.00 | 18.10 | 21.25 | 24.40 | 27.55 |
| 1.250 | 48 | 4.812 | 60 | 6.015 | – | – | 7.22 | 9.12 | 10.38 | 11.17 | 11.95 | 13.53 | 15.10 | 15.58 | 16.68 | 19.83 | 22.98 | 26.13 |
| 1.250 | 60 | 6.015 | 75 | 7.519 | – | – | – | – | 8.24 | 9.02 | 9.81 | 11.39 | 12.97 | 13.44 | 14.55 | 17.70 | 20.85 | 24.00 |
| 1.258 | 31 | 3.108 | 39 | 3.910 | 7.08 | 8.65 | 10.23 | 12.12 | 13.38 | 14.17 | 14.95 | 16.53 | 18.10 | 18.58 | 19.68 | 22.83 | 25.98 | 29.13 |
| 1.259 | 27 | 2.707 | 34 | 3.409 | 7.79 | 9.36 | 10.94 | 12.83 | 14.09 | 14.88 | 15.66 | 17.24 | 18.81 | 19.29 | 20.39 | 23.54 | 26.69 | 29.84 |
| 1.260 | 50 | 5.013 | 63 | 6.316 | – | – | 6.82 | 8.72 | 9.98 | 10.77 | 11.55 | 13.13 | 14.71 | 15.18 | 16.28 | 19.44 | 22.59 | 25.74 |
| 1.262 | 42 | 4.211 | 53 | 5.314 | – | 6.67 | 8.25 | 10.14 | 11.41 | 12.19 | 12.98 | 14.55 | 16.13 | 16.60 | 17.71 | 20.86 | 24.01 | 27.16 |
| 1.263 | 38 | 3.810 | 48 | 4.812 | 5.81 | 7.39 | 8.96 | 10.86 | 12.12 | 12.90 | 13.69 | 15.27 | 16.84 | 17.32 | 18.42 | 21.57 | 24.72 | 27.87 |
| 1.264 | 53 | 5.314 | 67 | 6.717 | – | – | – | 8.16 | 9.42 | 10.21 | 11.00 | 12.58 | 14.15 | 14.63 | 15.73 | 18.88 | 22.03 | 25.19 |
| 1.267 | 30 | 3.008 | 38 | 3.810 | 7.23 | 8.81 | 10.39 | 12.28 | 13.54 | 14.32 | 15.11 | 16.69 | 18.26 | 18.74 | 19.84 | 22.99 | 26.14 | 29.29 |
| 1.268 | 56 | 5.614 | 71 | 7.118 | – | – | – | 7.60 | 8.87 | 9.66 | 10.44 | 12.02 | 13.60 | 14.08 | 15.18 | 18.33 | 21.48 | 24.63 |
| 1.268 | 71 | 7.118 | 90 | 9.023 | – | – | – | – | – | – | – | 9.32 | 10.90 | 11.38 | 12.48 | 15.64 | 18.79 | 21.95 |
| 1.269 | 26 | 2.607 | 33 | 3.308 | 7.95 | 9.52 | 11.10 | 12.99 | 14.25 | 15.04 | 15.82 | 17.40 | 18.97 | 19.45 | 20.55 | 23.70 | 26.85 | 30.00 |
| 1.270 | 63 | 6.316 | 80 | 8.020 | – | – | – | – | – | 8.38 | 9.17 | 10.75 | 12.33 | 12.81 | 13.91 | 17.06 | 20.22 | 23.37 |
| 1.273 | 22 | 2.206 | 28 | 2.807 | 8.66 | 10.23 | 11.81 | 13.70 | 14.96 | 15.74 | 16.53 | 18.11 | 19.68 | 20.16 | 21.26 | 24.41 | 27.56 | 30.71 |
| 1.273 | 33 | 3.308 | 42 | 4.211 | 6.68 | 8.26 | 9.83 | 11.73 | 12.99 | 13.77 | 14.56 | 16.13 | 17.71 | 18.18 | 19.28 | 22.44 | 25.59 | 28.74 |
| 1.276 | 29 | 2.907 | 37 | 3.709 | 7.39 | 8.97 | 10.55 | 12.44 | 13.70 | 14.48 | 15.27 | 16.84 | 18.42 | 18.89 | 19.99 | 23.15 | 26.30 | 29.45 |
| 1.280 | 25 | 2.506 | 32 | 3.208 | 8.10 | 9.68 | 11.26 | 13.15 | 14.41 | 15.19 | 15.98 | 17.55 | 19.13 | 19.60 | 20.70 | 23.85 | 27.00 | 30.16 |
| 1.281 | 32 | 3.208 | 41 | 4.110 | 6.84 | 8.42 | 9.99 | 11.88 | 13.14 | 13.93 | 14.72 | 16.29 | 17.87 | 18.34 | 19.44 | 22.59 | 25.74 | 28.89 |
| 1.282 | 39 | 3.910 | 50 | 5.013 | 5.56 | 7.15 | 8.72 | 10.62 | 11.88 | 12.66 | 13.45 | 15.03 | 16.60 | 17.08 | 18.18 | 21.33 | 24.48 | 27.63 |
| 1.286 | 28 | 2.807 | 36 | 3.609 | 7.55 | 9.13 | 10.70 | 12.59 | 13.86 | 14.64 | 15.43 | 17.00 | 18.58 | 19.05 | 20.15 | 23.30 | 26.45 | 29.60 |
| 1.286 | 35 | 3.509 | 45 | 4.511 | 6.28 | 7.86 | 9.44 | 11.33 | 12.59 | 13.38 | 14.16 | 15.74 | 17.31 | 17.79 | 18.89 | 22.04 | 25.19 | 28.34 |
| 1.290 | 31 | 3.108 | 40 | 4.010 | 6.99 | 8.57 | 10.15 | 12.04 | 13.30 | 14.09 | 14.87 | 16.45 | 18.02 | 18.50 | 19.60 | 22.75 | 25.90 | 29.05 |
| 1.293 | 41 | 4.110 | 53 | 5.314 | – | 6.75 | 8.33 | 10.22 | 11.48 | 12.27 | 13.05 | 14.63 | 16.21 | 16.68 | 17.78 | 20.93 | 24.09 | 27.24 |
| 1.296 | 27 | 2.707 | 35 | 3.509 | 7.71 | 9.28 | 10.86 | 12.75 | 14.01 | 14.80 | 15.58 | 17.16 | 18.73 | 19.21 | 20.31 | 23.46 | 26.61 | 29.76 |
| 1.297 | 37 | 3.709 | 48 | 4.812 | 5.88 | 7.46 | 9.04 | 10.93 | 12.20 | 12.98 | 13.77 | 15.34 | 16.92 | 17.39 | 18.49 | 21.65 | 24.80 | 27.95 |
| 1.300 | 30 | 3.008 | 39 | 3.910 | 7.15 | 8.73 | 10.31 | 12.20 | 13.46 | 14.24 | 15.03 | 16.61 | 18.18 | 18.66 | 19.76 | 22.91 | 26.06 | 29.21 |
| 1.308 | 26 | 2.607 | 34 | 3.409 | 7.86 | 9.44 | 11.02 | 12.91 | 14.17 | 14.95 | 15.74 | 17.32 | 18.89 | 19.37 | 20.47 | 23.62 | 26.77 | 29.92 |
| 1.310 | 29 | 2.907 | 38 | 3.810 | 7.31 | 8.89 | 10.46 | 12.36 | 13.62 | 14.40 | 15.19 | 16.76 | 18.34 | 18.81 | 19.91 | 23.07 | 26.22 | 29.37 |
| 1.313 | 32 | 3.208 | 42 | 4.211 | 6.75 | 8.33 | 9.91 | 11.80 | 13.06 | 13.85 | 14.63 | 16.21 | 17.79 | 18.26 | 19.36 | 22.51 | 25.66 | 28.81 |
| 1.313 | 48 | 4.812 | 63 | 6.316 | – | – | 6.97 | 8.87 | 10.13 | 10.92 | 11.71 | 13.28 | 14.86 | 15.34 | 16.44 | 19.59 | 22.74 | 25.89 |
| 1.316 | 38 | 3.810 | 50 | 5.013 | 5.64 | 7.22 | 8.80 | 10.69 | 11.96 | 12.74 | 13.53 | 15.10 | 16.68 | 17.15 | 18.26 | 21.41 | 24.56 | 27.71 |
| 1.318 | 22 | 2.206 | 29 | 2.907 | 8.58 | 10.15 | 11.73 | 13.62 | 14.88 | 15.67 | 16.45 | 18.03 | 19.60 | 20.08 | 21.18 | 24.33 | 27.48 | 30.63 |
| 1.320 | 25 | 2.506 | 33 | 3.308 | 8.02 | 9.60 | 11.18 | 13.07 | 14.33 | 15.11 | 15.90 | 17.47 | 19.05 | 19.52 | 20.62 | 23.78 | 26.93 | 30.08 |
| 1.321 | 28 | 2.807 | 37 | 3.709 | 7.47 | 9.05 | 10.62 | 12.51 | 13.77 | 14.56 | 15.35 | 16.92 | 18.50 | 18.97 | 20.07 | 23.22 | 26.37 | 29.52 |
| 1.323 | 31 | 3.108 | 41 | 4.110 | 6.91 | 8.49 | 10.07 | 11.96 | 13.22 | 14.01 | 14.79 | 16.37 | 17.94 | 18.42 | 19.52 | 22.67 | 25.82 | 28.97 |
| 1.324 | 34 | 3.409 | 45 | 4.511 | 6.36 | 7.94 | 9.51 | 11.41 | 12.67 | 13.45 | 14.24 | 15.82 | 17.39 | 17.87 | 18.97 | 22.12 | 25.27 | 28.42 |
| 1.325 | 40 | 4.010 | 53 | 5.314 | 5.24 | 6.82 | 8.40 | 10.30 | 11.56 | 12.34 | 13.13 | 14.71 | 16.28 | 16.76 | 17.86 | 21.01 | 24.16 | 27.31 |
| 1.333 | 27 | 2.707 | 36 | 3.609 | 7.63 | 9.20 | 10.78 | 12.67 | 13.93 | 14.72 | 15.50 | 17.08 | 18.65 | 19.13 | 20.23 | 23.38 | 26.53 | 29.68 |
| 1.333 | 30 | 3.008 | 40 | 4.010 | 7.07 | 8.65 | 10.23 | 12.12 | 13.38 | 14.16 | 14.95 | 16.53 | 18.10 | 18.58 | 19.68 | 22.83 | 25.98 | 29.13 |
| 1.333 | 36 | 3.609 | 48 | 4.812 | 5.96 | 7.54 | 9.12 | 11.01 | 12.27 | 13.06 | 13.84 | 15.42 | 17.00 | 17.47 | 18.57 | 21.72 | 24.87 | 28.02 |
| 1.333 | 42 | 4.211 | 56 | 5.614 | – | 6.42 | 8.00 | 9.90 | 11.16 | 11.95 | 12.73 | 14.31 | 15.89 | 16.36 | 17.46 | 20.62 | 23.77 | 26.92 |
| 1.333 | 45 | 4.511 | 60 | 6.015 | – | 5.86 | 7.44 | 9.34 | 10.61 | 11.39 | 12.18 | 13.76 | 15.33 | 15.81 | 16.91 | 20.06 | 23.22 | 26.37 |
| 1.333 | 60 | 6.015 | 80 | 8.020 | – | – | – | – | 7.81 | 8.60 | 9.39 | 10.98 | 12.56 | 13.03 | 14.14 | 17.29 | 20.45 | 23.60 |
| 1.339 | 56 | 5.614 | 75 | 7.519 | – | – | – | 7.26 | 8.53 | 9.32 | 10.11 | 11.69 | 13.27 | 13.75 | 14.85 | 18.01 | 21.16 | 24.31 |
| 1.340 | 50 | 5.013 | 67 | 6.717 | – | – | 6.48 | 8.38 | 9.65 | 10.44 | 11.22 | 12.80 | 14.38 | 14.86 | 15.96 | 19.11 | 22.27 | 25.42 |
| 1.340 | 53 | 5.314 | 71 | 7.118 | – | – | – | 7.82 | 9.09 | 9.88 | 10.67 | 12.25 | 13.83 | 14.30 | 15.40 | 18.56 | 21.71 | 24.86 |
| 1.343 | 67 | 6.717 | 90 | 9.023 | – | – | – | – | – | – | – | 9.61 | 11.20 | 11.68 | 12.78 | 15.94 | 19.10 | 22.25 |
| 1.345 | 29 | 2.907 | 39 | 3.910 | 7.23 | 8.81 | 10.38 | 12.28 | 13.54 | 14.32 | 15.11 | 16.68 | 18.26 | 18.73 | 19.83 | 22.99 | 26.14 | 29.29 |
| 1.346 | 26 | 2.607 | 35 | 3.509 | 7.78 | 9.36 | 10.94 | 12.83 | 14.09 | 14.87 | 15.66 | 17.24 | 18.81 | 19.29 | 20.39 | 23.54 | 26.69 | 29.84 |
| 1.351 | 37 | 3.709 | 50 | 5.013 | 5.71 | 7.30 | 8.88 | 10.77 | 12.03 | 12.82 | 13.60 | 15.18 | 16.76 | 17.23 | 18.33 | 21.48 | 24.64 | 27.79 |
| 1.355 | 31 | 3.108 | 42 | 4.211 | 6.83 | 8.41 | 9.99 | 11.88 | 13.14 | 13.93 | 14.71 | 16.29 | 17.86 | 18.34 | 19.44 | 22.59 | 25.74 | 28.89 |
| 1.357 | 28 | 2.807 | 38 | 3.810 | 7.39 | 8.96 | 10.54 | 12.43 | 13.69 | 14.48 | 15.26 | 16.84 | 18.42 | 18.89 | 19.99 | 23.14 | 26.29 | 29.44 |
| 1.359 | 39 | 3.910 | 53 | 5.314 | 5.31 | 6.89 | 8.48 | 10.37 | 11.63 | 12.42 | 13.21 | 14.78 | 16.36 | 16.84 | 17.94 | 21.09 | 24.24 | 27.39 |
| 1.360 | 25 | 2.506 | 34 | 3.409 | 7.94 | 9.52 | 11.10 | 12.99 | 14.25 | 15.03 | 15.82 | 17.39 | 18.97 | 19.44 | 20.54 | 23.70 | 26.85 | 30.00 |
| 1.364 | 22 | 2.206 | 30 | 3.008 | 8.50 | 10.07 | 11.65 | 13.54 | 14.80 | 15.58 | 16.37 | 17.95 | 19.52 | 20.00 | 21.10 | 24.25 | 27.40 | 30.55 |
| 1.364 | 33 | 3.308 | 45 | 4.511 | 6.43 | 8.01 | 9.59 | 11.48 | 12.74 | 13.53 | 14.32 | 15.89 | 17.47 | 17.94 | 19.04 | 22.20 | 25.35 | 28.50 |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1792-8MX | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **1.18** | **1.22** | **1.26** | **1.26** | **1.29** | **1.31** | **1.32** | **1.35** | **1.36** | **1.38** | **1.40** | **1.41** | **1.45** | **1.49** | **1.52** | **1.53** |
| 1.207 | 29 | 2.907 | 35 | 3.509 | 30.23 | 34.33 | 38.26 | 39.05 | 42.20 | 44.56 | 46.14 | 50.08 | 50.86 | 54.96 | 57.95 | 59.53 | 65.83 | 73.70 | 81.58 | 83.15 |
| 1.212 | 33 | 3.308 | 40 | 4.010 | 29.53 | 33.62 | 37.56 | 38.35 | 41.50 | 43.86 | 45.43 | 49.37 | 50.16 | 54.25 | 57.24 | 58.82 | 65.12 | 72.99 | 80.87 | 82.44 |
| 1.214 | 28 | 2.807 | 34 | 3.409 | 30.39 | 34.49 | 38.42 | 39.21 | 42.36 | 44.72 | 46.30 | 50.24 | 51.02 | 55.12 | 58.11 | 59.68 | 65.98 | 73.86 | 81.73 | 83.31 |
| 1.216 | 37 | 3.709 | 45 | 4.511 | 28.82 | 32.91 | 36.85 | 37.64 | 40.79 | 43.15 | 44.72 | 48.66 | 49.45 | 53.54 | 56.53 | 58.11 | 64.41 | 72.28 | 80.16 | 81.73 |
| 1.219 | 32 | 3.208 | 39 | 3.910 | 29.68 | 33.78 | 37.71 | 38.50 | 41.65 | 44.01 | 45.59 | 49.53 | 50.31 | 54.41 | 57.40 | 58.97 | 65.27 | 73.15 | 81.02 | 82.60 |
| 1.220 | 41 | 4.110 | 50 | 5.013 | 28.11 | 32.20 | 36.14 | 36.93 | 40.08 | 42.44 | 44.01 | 47.95 | 48.74 | 52.83 | 55.82 | 57.40 | 63.70 | 71.57 | 79.45 | 81.02 |
| 1.222 | 27 | 2.707 | 33 | 3.308 | 30.55 | 34.64 | 38.58 | 39.37 | 42.52 | 44.88 | 46.45 | 50.39 | 51.18 | 55.28 | 58.27 | 59.84 | 66.14 | 74.02 | 81.89 | 83.47 |
| 1.226 | 31 | 3.108 | 38 | 3.810 | 29.84 | 33.93 | 37.87 | 38.66 | 41.81 | 44.17 | 45.75 | 49.69 | 50.47 | 54.57 | 57.56 | 59.13 | 65.43 | 73.31 | 81.18 | 82.76 |
| 1.227 | 22 | 2.206 | 27 | 2.707 | 31.42 | 35.51 | 39.45 | 40.24 | 43.39 | 45.75 | 47.32 | 51.26 | 52.05 | 56.14 | 59.13 | 60.71 | 67.01 | 74.88 | 82.76 | 84.33 |
| 1.231 | 26 | 2.607 | 32 | 3.208 | 30.71 | 34.80 | 38.74 | 39.53 | 42.68 | 45.04 | 46.61 | 50.55 | 51.34 | 55.43 | 58.42 | 60.00 | 66.30 | 74.17 | 82.05 | 83.62 |
| 1.231 | 39 | 3.910 | 48 | 4.812 | 28.42 | 32.52 | 36.45 | 37.24 | 40.39 | 42.75 | 44.33 | 48.27 | 49.05 | 53.15 | 56.14 | 57.71 | 64.01 | 71.89 | 79.76 | 81.34 |
| 1.233 | 30 | 3.008 | 37 | 3.709 | 30.00 | 34.09 | 38.03 | 38.82 | 41.97 | 44.33 | 45.90 | 49.84 | 50.63 | 54.72 | 57.71 | 59.29 | 65.59 | 73.46 | 81.34 | 82.91 |
| 1.235 | 34 | 3.409 | 42 | 4.211 | 29.29 | 33.38 | 37.32 | 38.11 | 41.26 | 43.62 | 45.19 | 49.13 | 49.92 | 54.01 | 57.00 | 58.58 | 64.88 | 72.75 | 80.63 | 82.20 |
| 1.240 | 25 | 2.506 | 31 | 3.108 | 30.86 | 34.96 | 38.89 | 39.68 | 42.83 | 45.19 | 46.77 | 50.71 | 51.49 | 55.59 | 58.58 | 60.16 | 66.46 | 74.33 | 82.21 | 83.78 |
| 1.241 | 29 | 2.907 | 36 | 3.609 | 30.16 | 34.25 | 38.19 | 38.98 | 42.13 | 44.49 | 46.06 | 50.00 | 50.79 | 54.88 | 57.87 | 59.45 | 65.75 | 73.62 | 81.50 | 83.07 |
| 1.242 | 33 | 3.308 | 41 | 4.110 | 29.45 | 33.54 | 37.48 | 38.27 | 41.42 | 43.78 | 45.35 | 49.29 | 50.08 | 54.17 | 57.16 | 58.74 | 65.04 | 72.91 | 80.79 | 82.36 |
| 1.244 | 45 | 4.511 | 56 | 5.614 | 27.32 | 31.41 | 35.35 | 36.14 | 39.29 | 41.65 | 43.22 | 47.16 | 47.95 | 52.04 | 55.04 | 56.61 | 62.91 | 70.79 | 78.66 | 80.24 |
| 1.250 | 28 | 2.807 | 35 | 3.509 | 30.31 | 34.41 | 38.34 | 39.13 | 42.28 | 44.64 | 46.22 | 50.16 | 50.94 | 55.04 | 58.03 | 59.60 | 65.90 | 73.78 | 81.65 | 83.23 |
| 1.250 | 32 | 3.208 | 40 | 4.010 | 29.60 | 33.70 | 37.63 | 38.42 | 41.57 | 43.93 | 45.51 | 49.45 | 50.23 | 54.33 | 57.32 | 58.89 | 65.19 | 73.07 | 80.95 | 82.52 |
| 1.250 | 36 | 3.609 | 45 | 4.511 | 28.89 | 32.99 | 36.92 | 37.71 | 40.87 | 43.23 | 44.80 | 48.74 | 49.53 | 53.62 | 56.61 | 58.19 | 64.49 | 72.36 | 80.24 | 81.81 |
| 1.250 | 40 | 4.010 | 50 | 5.013 | 28.18 | 32.28 | 36.21 | 37.00 | 40.16 | 42.52 | 44.09 | 48.03 | 48.82 | 52.91 | 55.90 | 57.48 | 63.78 | 71.65 | 79.53 | 81.10 |
| 1.250 | 48 | 4.812 | 60 | 6.015 | 26.76 | 30.86 | 34.80 | 35.59 | 38.74 | 41.10 | 42.67 | 46.61 | 47.40 | 51.49 | 54.48 | 56.06 | 62.36 | 70.23 | 78.11 | 79.68 |
| 1.250 | 60 | 6.015 | 75 | 7.519 | 24.63 | 28.73 | 32.67 | 33.46 | 36.61 | 38.97 | 40.54 | 44.48 | 45.27 | 49.36 | 52.36 | 53.93 | 60.23 | 68.11 | 75.98 | 77.56 |
| 1.258 | 31 | 3.108 | 39 | 3.910 | 29.76 | 33.86 | 37.79 | 38.58 | 41.73 | 44.09 | 45.67 | 49.61 | 50.39 | 54.49 | 57.48 | 59.05 | 65.35 | 73.23 | 81.10 | 82.68 |
| 1.259 | 27 | 2.707 | 34 | 3.409 | 30.47 | 34.56 | 38.50 | 39.29 | 42.44 | 44.80 | 46.38 | 50.32 | 51.10 | 55.20 | 58.19 | 59.76 | 66.06 | 73.94 | 81.81 | 83.39 |
| 1.260 | 50 | 5.013 | 63 | 6.316 | 26.37 | 30.47 | 34.40 | 35.19 | 38.34 | 40.70 | 42.28 | 46.22 | 47.00 | 51.10 | 54.09 | 55.66 | 61.96 | 69.84 | 77.71 | 79.29 |
| 1.262 | 42 | 4.211 | 53 | 5.314 | 27.79 | 31.88 | 35.82 | 36.61 | 39.76 | 42.12 | 43.70 | 47.64 | 48.42 | 52.52 | 55.51 | 57.08 | 63.38 | 71.26 | 79.13 | 80.71 |
| 1.263 | 38 | 3.810 | 48 | 4.812 | 28.50 | 32.59 | 36.53 | 37.32 | 40.47 | 42.83 | 44.41 | 48.35 | 49.13 | 53.23 | 56.22 | 57.79 | 64.09 | 71.97 | 79.84 | 81.42 |
| 1.264 | 53 | 5.314 | 67 | 6.717 | 25.82 | 29.91 | 33.85 | 34.64 | 37.79 | 40.15 | 41.72 | 45.67 | 46.45 | 50.55 | 53.54 | 55.11 | 61.41 | 69.29 | 77.16 | 78.74 |
| 1.267 | 30 | 3.008 | 38 | 3.810 | 29.92 | 34.01 | 37.95 | 38.74 | 41.89 | 44.25 | 45.82 | 49.76 | 50.55 | 54.64 | 57.63 | 59.21 | 65.51 | 73.38 | 81.26 | 82.83 |
| 1.268 | 56 | 5.614 | 71 | 7.118 | 25.26 | 29.36 | 33.30 | 34.09 | 37.24 | 39.60 | 41.17 | 45.11 | 45.90 | 49.99 | 52.98 | 54.56 | 60.86 | 68.74 | 76.61 | 78.19 |
| 1.268 | 71 | 7.118 | 90 | 9.023 | 22.58 | 26.68 | 30.61 | 31.40 | 34.55 | 36.92 | 38.49 | 42.43 | 43.22 | 47.31 | 50.30 | 51.88 | 58.18 | 66.06 | 73.93 | 75.51 |
| 1.269 | 26 | 2.607 | 33 | 3.308 | 30.63 | 34.72 | 38.66 | 39.45 | 42.60 | 44.96 | 46.53 | 50.47 | 51.26 | 55.35 | 58.34 | 59.92 | 66.22 | 74.09 | 81.97 | 83.54 |
| 1.270 | 63 | 6.316 | 80 | 8.020 | 24.00 | 28.10 | 32.03 | 32.82 | 35.98 | 38.34 | 39.91 | 43.85 | 44.64 | 48.73 | 51.72 | 53.30 | 59.60 | 67.48 | 75.35 | 76.93 |
| 1.273 | 22 | 2.206 | 28 | 2.807 | 31.34 | 35.43 | 39.37 | 40.16 | 43.31 | 45.67 | 47.24 | 51.18 | 51.97 | 56.06 | 59.05 | 60.63 | 66.93 | 74.80 | 82.68 | 84.25 |
| 1.273 | 33 | 3.308 | 42 | 4.211 | 29.37 | 33.46 | 37.40 | 38.19 | 41.34 | 43.70 | 45.27 | 49.21 | 50.00 | 54.09 | 57.08 | 58.66 | 64.96 | 72.83 | 80.71 | 82.28 |
| 1.276 | 29 | 2.907 | 37 | 3.709 | 30.08 | 34.17 | 38.11 | 38.90 | 42.05 | 44.41 | 45.98 | 49.92 | 50.71 | 54.80 | 57.79 | 59.37 | 65.67 | 73.54 | 81.42 | 82.99 |
| 1.280 | 25 | 2.506 | 32 | 3.208 | 30.79 | 34.88 | 38.82 | 39.61 | 42.76 | 45.12 | 46.69 | 50.63 | 51.42 | 55.51 | 58.50 | 60.08 | 66.38 | 74.25 | 82.13 | 83.70 |
| 1.281 | 32 | 3.208 | 41 | 4.110 | 29.52 | 33.62 | 37.55 | 38.34 | 41.50 | 43.86 | 45.43 | 49.37 | 50.16 | 54.25 | 57.24 | 58.82 | 65.12 | 72.99 | 80.87 | 82.44 |
| 1.282 | 39 | 3.910 | 50 | 5.013 | 28.26 | 32.36 | 36.29 | 37.08 | 40.23 | 42.59 | 44.17 | 48.11 | 48.89 | 52.99 | 55.98 | 57.55 | 63.85 | 71.73 | 79.60 | 81.18 |
| 1.286 | 28 | 2.807 | 36 | 3.609 | 30.23 | 34.33 | 38.26 | 39.05 | 42.20 | 44.56 | 46.14 | 50.08 | 50.86 | 54.96 | 57.95 | 59.52 | 65.82 | 73.70 | 81.57 | 83.15 |
| 1.286 | 35 | 3.509 | 45 | 4.511 | 28.97 | 33.07 | 37.00 | 37.79 | 40.94 | 43.30 | 44.88 | 48.82 | 49.60 | 53.70 | 56.69 | 58.26 | 64.56 | 72.44 | 80.31 | 81.89 |
| 1.290 | 31 | 3.108 | 40 | 4.010 | 29.68 | 33.78 | 37.71 | 38.50 | 41.65 | 44.01 | 45.59 | 49.53 | 50.31 | 54.41 | 57.40 | 58.97 | 65.27 | 73.15 | 81.02 | 82.60 |
| 1.293 | 41 | 4.110 | 53 | 5.314 | 27.87 | 31.96 | 35.90 | 36.69 | 39.84 | 42.20 | 43.77 | 47.71 | 48.50 | 52.59 | 55.59 | 57.16 | 63.46 | 71.34 | 79.21 | 80.79 |
| 1.296 | 27 | 2.707 | 35 | 3.509 | 30.39 | 34.49 | 38.42 | 39.21 | 42.36 | 44.72 | 46.30 | 50.24 | 51.02 | 55.12 | 58.11 | 59.68 | 65.98 | 73.86 | 81.73 | 83.31 |
| 1.297 | 37 | 3.709 | 48 | 4.812 | 28.58 | 32.67 | 36.61 | 37.40 | 40.55 | 42.91 | 44.48 | 48.42 | 49.21 | 53.30 | 56.29 | 57.87 | 64.17 | 72.05 | 79.92 | 81.50 |
| 1.300 | 30 | 3.008 | 39 | 3.910 | 29.84 | 33.93 | 37.87 | 38.66 | 41.81 | 44.17 | 45.74 | 49.68 | 50.47 | 54.56 | 57.55 | 59.13 | 65.43 | 73.31 | 81.18 | 82.76 |
| 1.308 | 26 | 2.607 | 34 | 3.409 | 30.55 | 34.64 | 38.58 | 39.37 | 42.52 | 44.88 | 46.45 | 50.39 | 51.18 | 55.27 | 58.26 | 59.84 | 66.14 | 74.01 | 81.89 | 83.46 |
| 1.310 | 29 | 2.907 | 38 | 3.810 | 30.00 | 34.09 | 38.03 | 38.82 | 41.97 | 44.33 | 45.90 | 49.84 | 50.63 | 54.72 | 57.71 | 59.29 | 65.59 | 73.46 | 81.34 | 82.91 |
| 1.313 | 32 | 3.208 | 42 | 4.211 | 29.44 | 33.54 | 37.47 | 38.26 | 41.42 | 43.78 | 45.35 | 49.29 | 50.08 | 54.17 | 57.16 | 58.74 | 65.04 | 72.91 | 80.79 | 82.36 |
| 1.313 | 48 | 4.812 | 63 | 6.316 | 26.52 | 30.62 | 34.56 | 35.35 | 38.50 | 40.86 | 42.43 | 46.37 | 47.16 | 51.25 | 54.24 | 55.82 | 62.12 | 70.00 | 77.87 | 79.45 |
| 1.316 | 38 | 3.810 | 50 | 5.013 | 28.34 | 32.43 | 36.37 | 37.16 | 40.31 | 42.67 | 44.25 | 48.19 | 48.97 | 53.07 | 56.06 | 57.63 | 63.93 | 71.81 | 79.68 | 81.26 |
| 1.318 | 22 | 2.206 | 29 | 2.907 | 31.26 | 35.35 | 39.29 | 40.08 | 43.23 | 45.59 | 47.16 | 51.10 | 51.89 | 55.98 | 58.97 | 60.55 | 66.85 | 74.72 | 82.60 | 84.17 |
| 1.320 | 25 | 2.506 | 33 | 3.308 | 30.71 | 34.80 | 38.74 | 39.53 | 42.68 | 45.04 | 46.61 | 50.55 | 51.34 | 55.43 | 58.42 | 60.00 | 66.30 | 74.17 | 82.05 | 83.62 |
| 1.321 | 28 | 2.807 | 37 | 3.709 | 30.15 | 34.25 | 38.18 | 38.97 | 42.12 | 44.49 | 46.06 | 50.00 | 50.79 | 54.88 | 57.87 | 59.45 | 65.75 | 73.62 | 81.50 | 83.07 |
| 1.323 | 31 | 3.108 | 41 | 4.110 | 29.60 | 33.70 | 37.63 | 38.42 | 41.57 | 43.93 | 45.51 | 49.45 | 50.23 | 54.33 | 57.32 | 58.89 | 65.19 | 73.07 | 80.94 | 82.52 |
| 1.324 | 34 | 3.409 | 45 | 4.511 | 29.05 | 33.15 | 37.08 | 37.87 | 41.02 | 43.38 | 44.96 | 48.90 | 49.68 | 53.78 | 56.77 | 58.34 | 64.64 | 72.52 | 80.39 | 81.97 |
| 1.325 | 40 | 4.010 | 53 | 5.314 | 27.94 | 32.04 | 35.98 | 36.77 | 39.92 | 42.28 | 43.85 | 47.79 | 48.58 | 52.67 | 55.66 | 57.24 | 63.54 | 71.41 | 79.29 | 80.86 |
| 1.333 | 27 | 2.707 | 36 | 3.609 | 30.31 | 34.41 | 38.34 | 39.13 | 42.28 | 44.64 | 46.22 | 50.16 | 50.94 | 55.04 | 58.03 | 59.60 | 65.90 | 73.78 | 81.65 | 83.23 |
| 1.333 | 30 | 3.008 | 40 | 4.010 | 29.76 | 33.85 | 37.79 | 38.58 | 41.73 | 44.09 | 45.67 | 49.61 | 50.39 | 54.49 | 57.48 | 59.05 | 65.35 | 73.23 | 81.10 | 82.68 |
| 1.333 | 36 | 3.609 | 48 | 4.812 | 28.65 | 32.75 | 36.69 | 37.48 | 40.63 | 42.99 | 44.56 | 48.50 | 49.29 | 53.38 | 56.37 | 57.95 | 64.25 | 72.12 | 80.00 | 81.57 |
| 1.333 | 42 | 4.211 | 56 | 5.614 | 27.55 | 31.65 | 35.58 | 36.37 | 39.52 | 41.88 | 43.46 | 47.40 | 48.18 | 52.28 | 55.27 | 56.84 | 63.14 | 71.02 | 78.90 | 80.47 |
| 1.333 | 45 | 4.511 | 60 | 6.015 | 27.00 | 31.09 | 35.03 | 35.82 | 38.97 | 41.33 | 42.91 | 46.85 | 47.63 | 51.73 | 54.72 | 56.29 | 62.59 | 70.47 | 78.34 | 79.92 |
| 1.333 | 60 | 6.015 | 80 | 8.020 | 24.23 | 28.33 | 32.27 | 33.06 | 36.21 | 38.57 | 40.14 | 44.09 | 44.87 | 48.97 | 51.96 | 53.53 | 59.83 | 67.71 | 75.59 | 77.16 |
| 1.339 | 56 | 5.614 | 75 | 7.519 | 24.94 | 29.04 | 32.98 | 33.77 | 36.92 | 39.28 | 40.85 | 44.80 | 45.58 | 49.68 | 52.67 | 54.24 | 60.54 | 68.42 | 76.29 | 77.87 |
| 1.340 | 50 | 5.013 | 67 | 6.717 | 26.05 | 30.15 | 34.08 | 34.87 | 38.02 | 40.38 | 41.96 | 45.90 | 46.68 | 50.78 | 53.77 | 55.35 | 61.65 | 69.52 | 77.40 | 78.97 |
| 1.340 | 53 | 5.314 | 71 | 7.118 | 25.49 | 29.59 | 33.53 | 34.32 | 37.47 | 39.83 | 41.41 | 45.35 | 46.13 | 50.23 | 53.22 | 54.79 | 61.09 | 68.97 | 76.85 | 78.42 |
| 1.343 | 67 | 6.717 | 90 | 9.023 | 22.88 | 26.98 | 30.92 | 31.71 | 34.86 | 37.22 | 38.80 | 42.74 | 43.53 | 47.62 | 50.61 | 52.19 | 58.49 | 66.37 | 74.24 | 75.82 |
| 1.345 | 29 | 2.907 | 39 | 3.910 | 29.92 | 34.01 | 37.95 | 38.74 | 41.89 | 44.25 | 45.82 | 49.76 | 50.55 | 54.64 | 57.63 | 59.21 | 65.51 | 73.38 | 81.26 | 82.83 |
| 1.346 | 26 | 2.607 | 35 | 3.509 | 30.47 | 34.56 | 38.50 | 39.29 | 42.44 | 44.80 | 46.37 | 50.31 | 51.10 | 55.19 | 58.18 | 59.76 | 66.06 | 73.94 | 81.81 | 83.39 |
| 1.351 | 37 | 3.709 | 50 | 5.013 | 28.42 | 32.51 | 36.45 | 37.24 | 40.39 | 42.75 | 44.32 | 48.27 | 49.05 | 53.15 | 56.14 | 57.71 | 64.01 | 71.89 | 79.76 | 81.34 |
| 1.355 | 31 | 3.108 | 42 | 4.211 | 29.52 | 33.62 | 37.55 | 38.34 | 41.49 | 43.85 | 45.43 | 49.37 | 50.15 | 54.25 | 57.24 | 58.81 | 65.11 | 72.99 | 80.86 | 82.44 |
| 1.357 | 28 | 2.807 | 38 | 3.810 | 30.07 | 34.17 | 38.10 | 38.89 | 42.05 | 44.41 | 45.98 | 49.92 | 50.71 | 54.80 | 57.79 | 59.37 | 65.67 | 73.54 | 81.42 | 82.99 |
| 1.359 | 39 | 3.910 | 53 | 5.314 | 28.02 | 32.12 | 36.05 | 36.84 | 39.99 | 42.35 | 43.93 | 47.87 | 48.66 | 52.75 | 55.74 | 57.32 | 63.62 | 71.49 | 79.37 | 80.94 |
| 1.360 | 25 | 2.506 | 34 | 3.409 | 30.63 | 34.72 | 38.66 | 39.45 | 42.60 | 44.96 | 46.53 | 50.47 | 51.26 | 55.35 | 58.34 | 59.92 | 66.22 | 74.09 | 81.97 | 83.54 |
| 1.364 | 22 | 2.206 | 30 | 3.008 | 31.18 | 35.27 | 39.21 | 40.00 | 43.15 | 45.51 | 47.08 | 51.02 | 51.81 | 55.90 | 58.89 | 60.47 | 66.77 | 74.64 | 82.52 | 84.09 |
| 1.364 | 33 | 3.308 | 45 | 4.511 | 29.13 | 33.22 | 37.16 | 37.95 | 41.10 | 43.46 | 45.03 | 48.98 | 49.76 | 53.86 | 56.85 | 58.42 | 64.72 | 72.60 | 80.47 | 82.05 |
| **Length Factor*** | | | | | **1.18** | **1.22** | **1.26** | **1.26** | **1.29** | **1.31** | **1.32** | **1.35** | **1.36** | **1.38** | **1.40** | **1.41** | **1.45** | **1.49** | **1.52** | **1.53** |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 640-8MX | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |
| 1.366 | 41 | 4.110 | 56 | 5.614 | – | 6.49 | 8.08 | 9.97 | 11.24 | 12.02 | 12.81 | 14.39 | 15.97 | 16.44 | 17.54 | 20.69 | 23.85 | 27.00 |
| 1.367 | 30 | 3.008 | 41 | 4.110 | 6.99 | 8.57 | 10.14 | 12.04 | 13.30 | 14.08 | 14.87 | 16.45 | 18.02 | 18.50 | 19.60 | 22.75 | 25.90 | 29.05 |
| 1.370 | 27 | 2.707 | 37 | 3.709 | 7.54 | 9.12 | 10.70 | 12.59 | 13.85 | 14.64 | 15.42 | 17.00 | 18.57 | 19.05 | 20.15 | 23.30 | 26.45 | 29.60 |
| 1.371 | 35 | 3.509 | 48 | 4.812 | 6.03 | 7.61 | 9.19 | 11.09 | 12.35 | 13.13 | 13.92 | 15.50 | 17.07 | 17.55 | 18.65 | 21.80 | 24.95 | 28.10 |
| 1.379 | 29 | 2.907 | 40 | 4.010 | 7.15 | 8.72 | 10.30 | 12.19 | 13.46 | 14.24 | 15.03 | 16.60 | 18.18 | 18.65 | 19.75 | 22.91 | 26.06 | 29.21 |
| 1.385 | 26 | 2.607 | 36 | 3.609 | 7.70 | 9.28 | 10.86 | 12.75 | 14.01 | 14.79 | 15.58 | 17.16 | 18.73 | 19.21 | 20.31 | 23.46 | 26.61 | 29.76 |
| 1.389 | 36 | 3.609 | 50 | 5.013 | 5.79 | 7.37 | 8.95 | 10.85 | 12.11 | 12.89 | 13.68 | 15.26 | 16.83 | 17.31 | 18.41 | 21.56 | 24.71 | 27.86 |
| 1.393 | 28 | 2.807 | 39 | 3.910 | 7.30 | 8.88 | 10.46 | 12.35 | 13.61 | 14.40 | 15.18 | 16.76 | 18.34 | 18.81 | 19.91 | 23.06 | 26.21 | 29.36 |
| 1.395 | 38 | 3.810 | 53 | 5.314 | 5.38 | 6.97 | 8.55 | 10.45 | 11.71 | 12.50 | 13.28 | 14.86 | 16.44 | 16.91 | 18.01 | 21.17 | 24.32 | 27.47 |
| 1.396 | 48 | 4.812 | 67 | 6.717 | – | – | 6.63 | 8.53 | 9.80 | 10.59 | 11.38 | 12.96 | 14.53 | 15.01 | 16.11 | 19.27 | 22.42 | 25.57 |
| 1.400 | 25 | 2.506 | 35 | 3.509 | 7.86 | 9.44 | 11.01 | 12.91 | 14.17 | 14.95 | 15.74 | 17.31 | 18.89 | 19.36 | 20.46 | 23.62 | 26.77 | 29.92 |
| 1.400 | 30 | 3.008 | 42 | 4.211 | 6.90 | 8.48 | 10.06 | 11.96 | 13.22 | 14.00 | 14.79 | 16.36 | 17.94 | 18.42 | 19.52 | 22.67 | 25.82 | 28.97 |
| 1.400 | 40 | 4.010 | 56 | 5.614 | – | 6.57 | 8.15 | 10.05 | 11.31 | 12.10 | 12.89 | 14.46 | 16.04 | 16.52 | 17.62 | 20.77 | 23.92 | 27.07 |
| 1.400 | 45 | 4.511 | 63 | 6.316 | – | – | 7.19 | 9.09 | 10.36 | 11.14 | 11.93 | 13.51 | 15.09 | 15.57 | 16.67 | 19.82 | 22.97 | 26.13 |
| 1.400 | 80 | 8.020 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | 9.95 | 13.13 | 16.30 | 19.46 |
| 1.406 | 32 | 3.208 | 45 | 4.511 | 6.50 | 8.09 | 9.67 | 11.56 | 12.82 | 13.61 | 14.39 | 15.97 | 17.55 | 18.02 | 19.12 | 22.27 | 25.42 | 28.58 |
| 1.407 | 27 | 2.707 | 38 | 3.810 | 7.46 | 9.04 | 10.62 | 12.51 | 13.77 | 14.56 | 15.34 | 16.92 | 18.49 | 18.97 | 20.07 | 23.22 | 26.37 | 29.52 |
| 1.409 | 22 | 2.206 | 31 | 3.108 | 8.41 | 9.99 | 11.57 | 13.46 | 14.72 | 15.50 | 16.29 | 17.87 | 19.44 | 19.92 | 21.02 | 24.17 | 27.32 | 30.47 |
| 1.412 | 34 | 3.409 | 48 | 4.812 | 6.10 | 7.69 | 9.27 | 11.16 | 12.42 | 13.21 | 14.00 | 15.57 | 17.15 | 17.62 | 18.73 | 21.88 | 25.03 | 28.18 |
| 1.414 | 29 | 2.907 | 41 | 4.110 | 7.06 | 8.64 | 10.22 | 12.11 | 13.38 | 14.16 | 14.95 | 16.52 | 18.10 | 18.57 | 19.67 | 22.83 | 25.98 | 29.13 |
| 1.415 | 53 | 5.314 | 75 | 7.519 | – | – | – | 7.48 | 8.75 | 9.54 | 10.33 | 11.91 | 13.50 | 13.97 | 15.08 | 18.23 | 21.39 | 24.54 |
| 1.420 | 50 | 5.013 | 71 | 7.118 | – | – | – | 8.04 | 9.31 | 10.10 | 10.89 | 12.47 | 14.05 | 14.53 | 15.63 | 18.79 | 21.94 | 25.10 |
| 1.423 | 26 | 2.607 | 37 | 3.709 | 7.62 | 9.20 | 10.78 | 12.67 | 13.93 | 14.71 | 15.50 | 17.08 | 18.65 | 19.13 | 20.23 | 23.38 | 26.53 | 29.68 |
| 1.429 | 28 | 2.807 | 40 | 4.010 | 7.22 | 8.80 | 10.38 | 12.27 | 13.53 | 14.32 | 15.10 | 16.68 | 18.26 | 18.73 | 19.83 | 22.98 | 26.13 | 29.28 |
| 1.429 | 35 | 3.509 | 50 | 5.013 | 5.86 | 7.44 | 9.03 | 10.92 | 12.18 | 12.97 | 13.76 | 15.33 | 16.91 | 17.39 | 18.49 | 21.64 | 24.79 | 27.94 |
| 1.429 | 42 | 4.211 | 60 | 6.015 | – | 6.08 | 7.67 | 9.57 | 10.83 | 11.62 | 12.41 | 13.98 | 15.56 | 16.04 | 17.14 | 20.29 | 23.45 | 26.60 |
| 1.429 | 56 | 5.614 | 80 | 8.020 | – | – | – | – | 8.10 | 8.90 | 9.69 | 11.27 | 12.86 | 13.33 | 14.44 | 17.60 | 20.75 | 23.91 |
| 1.429 | 63 | 6.316 | 90 | 9.023 | – | – | – | – | – | – | 8.31 | 9.91 | 11.49 | 11.97 | 13.08 | 16.24 | 19.40 | 22.56 |
| 1.432 | 37 | 3.709 | 53 | 5.314 | 5.45 | 7.04 | 8.63 | 10.52 | 11.79 | 12.57 | 13.36 | 14.94 | 16.51 | 16.99 | 18.09 | 21.24 | 24.40 | 27.55 |
| 1.436 | 39 | 3.910 | 56 | 5.614 | – | 6.64 | 8.23 | 10.12 | 11.39 | 12.18 | 12.96 | 14.54 | 16.12 | 16.59 | 17.69 | 20.85 | 24.00 | 27.15 |
| 1.440 | 25 | 2.506 | 36 | 3.609 | 7.78 | 9.36 | 10.93 | 12.83 | 14.09 | 14.87 | 15.66 | 17.23 | 18.81 | 19.28 | 20.38 | 23.54 | 26.69 | 29.84 |
| 1.444 | 27 | 2.707 | 39 | 3.910 | 7.38 | 8.96 | 10.54 | 12.43 | 13.69 | 14.48 | 15.26 | 16.84 | 18.41 | 18.89 | 19.99 | 23.14 | 26.29 | 29.44 |
| 1.448 | 29 | 2.907 | 42 | 4.211 | 6.98 | 8.56 | 10.14 | 12.03 | 13.29 | 14.08 | 14.87 | 16.44 | 18.02 | 18.49 | 19.59 | 22.75 | 25.90 | 29.05 |
| 1.452 | 31 | 3.108 | 45 | 4.511 | 6.58 | 8.16 | 9.74 | 11.63 | 12.90 | 13.68 | 14.47 | 16.05 | 17.62 | 18.10 | 19.20 | 22.35 | 25.50 | 28.65 |
| 1.455 | 22 | 2.206 | 32 | 3.208 | 8.33 | 9.91 | 11.49 | 13.38 | 14.64 | 15.42 | 16.21 | 17.79 | 19.36 | 19.84 | 20.94 | 24.09 | 27.24 | 30.39 |
| 1.455 | 33 | 3.308 | 48 | 4.812 | 6.18 | 7.76 | 9.34 | 11.24 | 12.50 | 13.29 | 14.07 | 15.65 | 17.23 | 17.70 | 18.80 | 21.95 | 25.11 | 28.26 |
| 1.462 | 26 | 2.607 | 38 | 3.810 | 7.54 | 9.12 | 10.69 | 12.59 | 13.85 | 14.63 | 15.42 | 16.99 | 18.57 | 19.05 | 20.15 | 23.30 | 26.45 | 29.60 |
| 1.463 | 41 | 4.110 | 60 | 6.015 | – | 6.15 | 7.74 | 9.64 | 10.91 | 11.69 | 12.48 | 14.06 | 15.64 | 16.11 | 17.22 | 20.37 | 23.52 | 26.68 |
| 1.464 | 28 | 2.807 | 41 | 4.110 | 7.14 | 8.72 | 10.30 | 12.19 | 13.45 | 14.24 | 15.02 | 16.60 | 18.18 | 18.65 | 19.75 | 22.90 | 26.05 | 29.21 |
| 1.471 | 34 | 3.409 | 50 | 5.013 | 5.93 | 7.52 | 9.10 | 11.00 | 12.26 | 13.05 | 13.83 | 15.41 | 16.99 | 17.46 | 18.56 | 21.72 | 24.87 | 28.02 |
| 1.472 | 36 | 3.609 | 53 | 5.314 | 5.53 | 7.12 | 8.70 | 10.60 | 11.86 | 12.65 | 13.43 | 15.01 | 16.59 | 17.07 | 18.17 | 21.32 | 24.47 | 27.62 |
| 1.474 | 38 | 3.810 | 56 | 5.614 | – | 6.71 | 8.30 | 10.20 | 11.46 | 12.25 | 13.04 | 14.62 | 16.19 | 16.67 | 17.77 | 20.92 | 24.08 | 27.23 |
| 1.479 | 48 | 4.812 | 71 | 7.118 | – | – | – | 8.19 | 9.46 | 10.25 | 11.04 | 12.62 | 14.20 | 14.68 | 15.78 | 18.94 | 22.10 | 25.25 |
| 1.480 | 25 | 2.506 | 37 | 3.709 | 7.70 | 9.27 | 10.85 | 12.74 | 14.01 | 14.79 | 15.58 | 17.15 | 18.73 | 19.20 | 20.30 | 23.46 | 26.61 | 29.76 |
| 1.481 | 27 | 2.707 | 40 | 4.010 | 7.30 | 8.88 | 10.45 | 12.35 | 13.61 | 14.39 | 15.18 | 16.76 | 18.33 | 18.81 | 19.91 | 23.06 | 26.21 | 29.36 |
| 1.489 | 45 | 4.511 | 67 | 6.717 | – | – | 6.84 | 8.75 | 10.02 | 10.81 | 11.60 | 13.18 | 14.76 | 15.24 | 16.34 | 19.50 | 22.65 | 25.80 |
| 1.493 | 75 | 7.519 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | 10.30 | 13.49 | 16.67 | 19.83 |
| 1.500 | 22 | 2.206 | 33 | 3.308 | 8.25 | 9.83 | 11.41 | 13.30 | 14.56 | 15.34 | 16.13 | 17.71 | 19.28 | 19.76 | 20.86 | 24.01 | 27.16 | 30.31 |
| 1.500 | 26 | 2.607 | 39 | 3.910 | 7.45 | 9.03 | 10.61 | 12.50 | 13.77 | 14.55 | 15.34 | 16.91 | 18.49 | 18.97 | 20.07 | 23.22 | 26.37 | 29.52 |
| 1.500 | 28 | 2.807 | 42 | 4.211 | 7.05 | 8.63 | 10.21 | 12.11 | 13.37 | 14.16 | 14.94 | 16.52 | 18.09 | 18.57 | 19.67 | 22.82 | 25.97 | 29.12 |
| 1.500 | 30 | 3.008 | 45 | 4.511 | 6.65 | 8.24 | 9.82 | 11.71 | 12.97 | 13.76 | 14.55 | 16.12 | 17.70 | 18.17 | 19.27 | 22.43 | 25.58 | 28.73 |
| 1.500 | 32 | 3.208 | 48 | 4.812 | 6.25 | 7.84 | 9.42 | 11.31 | 12.58 | 13.36 | 14.15 | 15.73 | 17.30 | 17.78 | 18.88 | 22.03 | 25.18 | 28.33 |
| 1.500 | 40 | 4.010 | 60 | 6.015 | – | 6.22 | 7.81 | 9.71 | 10.98 | 11.77 | 12.56 | 14.14 | 15.71 | 16.19 | 17.29 | 20.45 | 23.60 | 26.75 |
| 1.500 | 42 | 4.211 | 63 | 6.316 | – | 5.81 | 7.41 | 9.31 | 10.58 | 11.37 | 12.16 | 13.74 | 15.32 | 15.79 | 16.89 | 20.05 | 23.20 | 26.36 |
| 1.500 | 50 | 5.013 | 75 | 7.519 | – | – | – | 7.70 | 8.97 | 9.76 | 10.55 | 12.14 | 13.72 | 14.20 | 15.30 | 18.46 | 21.62 | 24.77 |
| 1.500 | 60 | 6.015 | 90 | 9.023 | – | – | – | – | – | – | 8.53 | 10.12 | 11.71 | 12.19 | 13.30 | 16.47 | 19.63 | 22.78 |
| 1.509 | 53 | 5.314 | 80 | 8.020 | – | – | – | – | 8.32 | 9.11 | 9.90 | 11.49 | 13.08 | 13.55 | 14.66 | 17.82 | 20.98 | 24.13 |
| 1.514 | 35 | 3.509 | 53 | 5.314 | 5.60 | 7.19 | 8.77 | 10.67 | 11.94 | 12.72 | 13.51 | 15.09 | 16.67 | 17.14 | 18.24 | 21.40 | 24.55 | 27.70 |
| 1.514 | 37 | 3.709 | 56 | 5.614 | 5.19 | 6.79 | 8.37 | 10.27 | 11.54 | 12.33 | 13.11 | 14.69 | 16.27 | 16.75 | 17.85 | 21.00 | 24.15 | 27.31 |
| 1.515 | 33 | 3.308 | 50 | 5.013 | 6.00 | 7.59 | 9.18 | 11.07 | 12.34 | 13.12 | 13.91 | 15.49 | 17.06 | 17.54 | 18.64 | 21.79 | 24.95 | 28.10 |
| 1.519 | 27 | 2.707 | 41 | 4.110 | 7.21 | 8.79 | 10.37 | 12.27 | 13.53 | 14.31 | 15.10 | 16.68 | 18.25 | 18.73 | 19.83 | 22.98 | 26.13 | 29.28 |
| 1.520 | 25 | 2.506 | 38 | 3.810 | 7.61 | 9.19 | 10.77 | 12.66 | 13.92 | 14.71 | 15.50 | 17.07 | 18.65 | 19.12 | 20.22 | 23.38 | 26.53 | 29.68 |
| 1.537 | 41 | 4.110 | 63 | 6.316 | – | 5.88 | 7.48 | 9.39 | 10.65 | 11.44 | 12.23 | 13.81 | 15.39 | 15.87 | 16.97 | 20.13 | 23.28 | 26.43 |
| 1.538 | 26 | 2.607 | 40 | 4.010 | 7.37 | 8.95 | 10.53 | 12.42 | 13.69 | 14.47 | 15.26 | 16.83 | 18.41 | 18.88 | 19.99 | 23.14 | 26.29 | 29.44 |
| 1.538 | 39 | 3.910 | 60 | 6.015 | – | 6.29 | 7.88 | 9.79 | 11.05 | 11.84 | 12.63 | 14.21 | 15.79 | 16.27 | 17.37 | 20.52 | 23.68 | 26.83 |
| 1.545 | 22 | 2.206 | 34 | 3.409 | 8.17 | 9.75 | 11.32 | 13.22 | 14.48 | 15.26 | 16.05 | 17.62 | 19.20 | 19.68 | 20.78 | 23.93 | 27.08 | 30.23 |
| 1.548 | 31 | 3.108 | 48 | 4.812 | 6.32 | 7.91 | 9.49 | 11.39 | 12.65 | 13.44 | 14.22 | 15.80 | 17.38 | 17.85 | 18.96 | 22.11 | 25.26 | 28.41 |
| 1.552 | 29 | 2.907 | 45 | 4.511 | 6.73 | 8.31 | 9.89 | 11.79 | 13.05 | 13.84 | 14.62 | 16.20 | 17.78 | 18.25 | 19.35 | 22.50 | 25.66 | 28.81 |
| 1.556 | 27 | 2.707 | 42 | 4.211 | 7.13 | 8.71 | 10.29 | 12.18 | 13.45 | 14.23 | 15.02 | 16.59 | 18.17 | 18.65 | 19.75 | 22.90 | 26.05 | 29.20 |
| 1.556 | 36 | 3.609 | 56 | 5.614 | 5.26 | 6.86 | 8.45 | 10.35 | 11.61 | 12.40 | 13.19 | 14.77 | 16.35 | 16.82 | 17.92 | 21.08 | 24.23 | 27.38 |
| 1.559 | 34 | 3.409 | 53 | 5.314 | 5.67 | 7.26 | 8.85 | 10.75 | 12.01 | 12.80 | 13.59 | 15.16 | 16.74 | 17.22 | 18.32 | 21.47 | 24.63 | 27.78 |
| 1.560 | 25 | 2.506 | 39 | 3.910 | 7.53 | 9.11 | 10.69 | 12.58 | 13.84 | 14.63 | 15.41 | 16.99 | 18.57 | 19.04 | 20.14 | 23.30 | 26.45 | 29.60 |
| 1.563 | 32 | 3.208 | 50 | 5.013 | 6.08 | 7.67 | 9.25 | 11.15 | 12.41 | 13.20 | 13.98 | 15.56 | 17.14 | 17.62 | 18.72 | 21.87 | 25.02 | 28.17 |
| 1.563 | 48 | 4.812 | 75 | 7.519 | – | – | – | 7.84 | 9.11 | 9.91 | 10.70 | 12.29 | 13.87 | 14.35 | 15.45 | 18.61 | 21.77 | 24.92 |
| 1.575 | 40 | 4.010 | 63 | 6.316 | – | 5.95 | 7.55 | 9.46 | 10.73 | 11.52 | 12.31 | 13.89 | 15.47 | 15.94 | 17.05 | 20.20 | 23.36 | 26.51 |
| 1.577 | 26 | 2.607 | 41 | 4.110 | 7.29 | 8.87 | 10.45 | 12.34 | 13.60 | 14.39 | 15.18 | 16.75 | 18.33 | 18.80 | 19.91 | 23.06 | 26.21 | 29.36 |
| 1.577 | 71 | 7.118 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | 9.46 | 10.59 | 13.78 | 16.96 | 20.13 |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1792-8MX | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **1.18** | **1.22** | **1.26** | **1.26** | **1.29** | **1.31** | **1.32** | **1.35** | **1.36** | **1.38** | **1.40** | **1.41** | **1.45** | **1.49** | **1.52** | **1.53** |
| 1.366 | 41 | 4.110 | 56 | 5.614 | 27.63 | 31.72 | 35.66 | 36.45 | 39.60 | 41.96 | 43.54 | 47.48 | 48.26 | 52.20 | 55.35 | 56.92 | 63.22 | 71.10 | 78.97 | 80.55 |
| 1.367 | 30 | 3.008 | 41 | 4.110 | 29.68 | 33.78 | 37.71 | 38.50 | 41.65 | 44.01 | 45.59 | 49.53 | 50.31 | 54.25 | 57.40 | 58.97 | 65.27 | 73.15 | 81.02 | 82.60 |
| 1.370 | 27 | 2.707 | 37 | 3.709 | 30.23 | 34.33 | 38.26 | 39.05 | 42.20 | 44.56 | 46.14 | 50.08 | 50.86 | 54.80 | 57.95 | 59.52 | 65.82 | 73.70 | 81.57 | 83.15 |
| 1.371 | 35 | 3.509 | 48 | 4.812 | 28.73 | 32.83 | 36.76 | 37.55 | 40.70 | 43.06 | 44.64 | 48.58 | 49.37 | 53.30 | 56.45 | 58.03 | 64.33 | 72.20 | 80.08 | 81.65 |
| 1.379 | 29 | 2.907 | 40 | 4.010 | 29.84 | 33.93 | 37.87 | 38.66 | 41.81 | 44.17 | 45.74 | 49.68 | 50.47 | 54.40 | 57.55 | 59.13 | 65.43 | 73.31 | 81.18 | 82.76 |
| 1.385 | 26 | 2.607 | 36 | 3.609 | 30.39 | 34.48 | 38.42 | 39.21 | 42.36 | 44.72 | 46.30 | 50.24 | 51.02 | 54.96 | 58.11 | 59.68 | 65.98 | 73.86 | 81.73 | 83.31 |
| 1.389 | 36 | 3.609 | 50 | 5.013 | 28.49 | 32.59 | 36.53 | 37.32 | 40.47 | 42.83 | 44.40 | 48.34 | 49.13 | 53.06 | 56.21 | 57.79 | 64.09 | 71.96 | 79.84 | 81.42 |
| 1.393 | 28 | 2.807 | 39 | 3.910 | 29.99 | 34.09 | 38.03 | 38.82 | 41.97 | 44.33 | 45.90 | 49.84 | 50.63 | 54.56 | 57.71 | 59.29 | 65.59 | 73.46 | 81.34 | 82.91 |
| 1.395 | 38 | 3.810 | 53 | 5.314 | 28.10 | 32.20 | 36.13 | 36.92 | 40.07 | 42.43 | 44.01 | 47.95 | 48.73 | 52.67 | 55.82 | 57.39 | 63.69 | 71.57 | 79.45 | 81.02 |
| 1.396 | 48 | 4.812 | 67 | 6.717 | 26.20 | 30.30 | 34.24 | 35.03 | 38.18 | 40.54 | 42.11 | 46.06 | 46.84 | 50.78 | 53.93 | 55.50 | 61.80 | 69.68 | 77.55 | 79.13 |
| 1.400 | 25 | 2.506 | 35 | 3.509 | 30.55 | 34.64 | 38.58 | 39.37 | 42.52 | 44.88 | 46.45 | 50.39 | 51.18 | 55.11 | 58.26 | 59.84 | 66.14 | 74.01 | 81.89 | 83.46 |
| 1.400 | 30 | 3.008 | 42 | 4.211 | 29.60 | 33.69 | 37.63 | 38.42 | 41.57 | 43.93 | 45.51 | 49.45 | 50.23 | 54.17 | 57.32 | 58.89 | 65.19 | 73.07 | 80.94 | 82.52 |
| 1.400 | 40 | 4.010 | 56 | 5.614 | 27.70 | 31.80 | 35.74 | 36.53 | 39.68 | 42.04 | 43.61 | 47.55 | 48.34 | 52.28 | 55.43 | 57.00 | 63.30 | 71.18 | 79.05 | 80.63 |
| 1.400 | 45 | 4.511 | 63 | 6.316 | 26.76 | 30.85 | 34.79 | 35.58 | 38.73 | 41.09 | 42.67 | 46.61 | 47.39 | 51.33 | 54.48 | 56.05 | 62.35 | 70.23 | 78.11 | 79.68 |
| 1.400 | 80 | 8.020 | 112 | 11.229 | 20.09 | 24.20 | 28.14 | 28.93 | 32.09 | 34.45 | 36.03 | 39.97 | 40.76 | 44.69 | 47.84 | 49.42 | 55.72 | 63.60 | 71.48 | 73.05 |
| 1.406 | 32 | 3.208 | 45 | 4.511 | 29.21 | 33.30 | 37.24 | 38.03 | 41.18 | 43.54 | 45.11 | 49.05 | 49.84 | 53.77 | 56.92 | 58.50 | 64.80 | 72.67 | 80.55 | 82.12 |
| 1.407 | 27 | 2.707 | 38 | 3.810 | 30.15 | 34.25 | 38.18 | 38.97 | 42.12 | 44.48 | 46.06 | 50.00 | 50.78 | 54.72 | 57.87 | 59.44 | 65.74 | 73.62 | 81.49 | 83.07 |
| 1.409 | 22 | 2.206 | 31 | 3.108 | 31.10 | 35.19 | 39.13 | 39.92 | 43.07 | 45.43 | 47.00 | 50.94 | 51.73 | 55.66 | 58.81 | 60.39 | 66.69 | 74.57 | 82.44 | 84.02 |
| 1.412 | 34 | 3.409 | 48 | 4.812 | 28.81 | 32.91 | 36.84 | 37.63 | 40.78 | 43.14 | 44.72 | 48.66 | 49.44 | 53.38 | 56.53 | 58.10 | 64.40 | 72.28 | 80.16 | 81.73 |
| 1.414 | 29 | 2.907 | 41 | 4.110 | 29.76 | 33.85 | 37.79 | 38.58 | 41.73 | 44.09 | 45.66 | 49.61 | 50.39 | 54.33 | 57.48 | 59.05 | 65.35 | 73.23 | 81.10 | 82.68 |
| 1.415 | 53 | 5.314 | 75 | 7.519 | 25.17 | 29.27 | 33.21 | 34.00 | 37.15 | 39.51 | 41.09 | 45.03 | 45.81 | 49.75 | 52.90 | 54.47 | 60.78 | 68.65 | 76.53 | 78.10 |
| 1.420 | 50 | 5.013 | 71 | 7.118 | 25.73 | 29.82 | 33.76 | 34.55 | 37.70 | 40.06 | 41.64 | 45.58 | 46.37 | 50.30 | 53.45 | 55.03 | 61.33 | 69.20 | 77.08 | 78.66 |
| 1.423 | 26 | 2.607 | 37 | 3.709 | 30.31 | 34.41 | 38.34 | 39.13 | 42.28 | 44.64 | 46.22 | 50.16 | 50.94 | 54.88 | 58.03 | 59.60 | 65.90 | 73.78 | 81.65 | 83.23 |
| 1.429 | 28 | 2.807 | 40 | 4.010 | 29.91 | 34.01 | 37.95 | 38.74 | 41.89 | 44.25 | 45.82 | 49.76 | 50.55 | 54.48 | 57.63 | 59.21 | 65.51 | 73.38 | 81.26 | 82.83 |
| 1.429 | 35 | 3.509 | 50 | 5.013 | 28.57 | 32.67 | 36.60 | 37.39 | 40.54 | 42.91 | 44.48 | 48.42 | 49.21 | 53.14 | 56.29 | 57.87 | 64.17 | 72.04 | 79.92 | 81.49 |
| 1.429 | 42 | 4.211 | 60 | 6.015 | 27.23 | 31.33 | 35.26 | 36.05 | 39.20 | 41.56 | 43.14 | 47.08 | 47.87 | 51.80 | 54.95 | 56.53 | 62.83 | 70.70 | 78.58 | 80.15 |
| 1.429 | 56 | 5.614 | 80 | 8.020 | 24.54 | 28.64 | 32.57 | 33.37 | 36.52 | 38.88 | 40.45 | 44.40 | 45.18 | 49.12 | 52.27 | 53.84 | 60.14 | 68.02 | 75.90 | 77.47 |
| 1.429 | 63 | 6.316 | 90 | 9.023 | 23.19 | 27.29 | 31.23 | 32.02 | 35.17 | 37.53 | 39.11 | 43.05 | 43.84 | 47.77 | 50.92 | 52.50 | 58.80 | 66.68 | 74.56 | 76.13 |
| 1.432 | 37 | 3.709 | 53 | 5.314 | 28.18 | 32.27 | 36.21 | 37.00 | 40.15 | 42.51 | 44.09 | 48.03 | 48.81 | 52.75 | 55.90 | 57.47 | 63.77 | 71.65 | 79.52 | 81.10 |
| 1.436 | 39 | 3.910 | 56 | 5.614 | 27.78 | 31.88 | 35.81 | 36.60 | 39.76 | 42.12 | 43.69 | 47.63 | 48.42 | 52.35 | 55.50 | 57.08 | 63.38 | 71.25 | 79.13 | 80.71 |
| 1.440 | 25 | 2.506 | 36 | 3.609 | 30.47 | 34.56 | 38.50 | 39.29 | 42.44 | 44.80 | 46.37 | 50.31 | 51.10 | 55.03 | 58.18 | 59.76 | 66.06 | 73.94 | 81.81 | 83.39 |
| 1.444 | 27 | 2.707 | 39 | 3.910 | 30.07 | 34.17 | 38.10 | 38.89 | 42.04 | 44.40 | 45.98 | 49.92 | 50.70 | 54.64 | 57.79 | 59.36 | 65.67 | 73.54 | 81.42 | 82.99 |
| 1.448 | 29 | 2.907 | 42 | 4.211 | 29.68 | 33.77 | 37.71 | 38.50 | 41.65 | 44.01 | 45.58 | 49.53 | 50.31 | 54.25 | 57.40 | 58.97 | 65.27 | 73.15 | 81.02 | 82.60 |
| 1.452 | 31 | 3.108 | 45 | 4.511 | 29.28 | 33.38 | 37.31 | 38.10 | 41.26 | 43.62 | 45.19 | 49.13 | 49.92 | 53.85 | 57.00 | 58.58 | 64.88 | 72.75 | 80.63 | 82.20 |
| 1.455 | 22 | 2.206 | 32 | 3.208 | 31.02 | 35.11 | 39.05 | 39.84 | 42.99 | 45.35 | 46.93 | 50.87 | 51.65 | 55.59 | 58.74 | 60.31 | 66.61 | 74.49 | 82.36 | 83.94 |
| 1.455 | 33 | 3.308 | 48 | 4.812 | 28.89 | 32.98 | 36.92 | 37.71 | 40.86 | 43.22 | 44.80 | 48.74 | 49.52 | 53.46 | 56.61 | 58.18 | 64.48 | 72.36 | 80.23 | 81.81 |
| 1.462 | 26 | 2.607 | 38 | 3.810 | 30.23 | 34.32 | 38.26 | 39.05 | 42.20 | 44.56 | 46.14 | 50.08 | 50.86 | 54.80 | 57.95 | 59.52 | 65.82 | 73.70 | 81.57 | 83.15 |
| 1.463 | 41 | 4.110 | 60 | 6.015 | 27.31 | 31.40 | 35.34 | 36.13 | 39.28 | 41.64 | 43.22 | 47.16 | 47.94 | 51.88 | 55.03 | 56.60 | 62.91 | 70.78 | 78.66 | 80.23 |
| 1.464 | 28 | 2.807 | 41 | 4.110 | 29.84 | 33.93 | 37.87 | 38.66 | 41.81 | 44.17 | 45.74 | 49.68 | 50.47 | 54.40 | 57.55 | 59.13 | 65.43 | 73.30 | 81.18 | 82.75 |
| 1.471 | 34 | 3.409 | 50 | 5.013 | 28.65 | 32.75 | 36.68 | 37.47 | 40.62 | 42.98 | 44.56 | 48.50 | 49.28 | 53.22 | 56.37 | 57.94 | 64.25 | 72.12 | 80.00 | 81.57 |
| 1.472 | 36 | 3.609 | 53 | 5.314 | 28.25 | 32.35 | 36.29 | 37.08 | 40.23 | 42.59 | 44.16 | 48.10 | 48.89 | 52.83 | 55.98 | 57.55 | 63.85 | 71.73 | 79.60 | 81.18 |
| 1.474 | 38 | 3.810 | 56 | 5.614 | 27.86 | 31.96 | 35.89 | 36.68 | 39.83 | 42.19 | 43.77 | 47.71 | 48.50 | 52.43 | 55.58 | 57.16 | 63.46 | 71.33 | 79.21 | 80.78 |
| 1.479 | 48 | 4.812 | 71 | 7.118 | 25.88 | 29.98 | 33.92 | 34.71 | 37.86 | 40.22 | 41.79 | 45.74 | 46.52 | 50.46 | 53.61 | 55.18 | 61.48 | 69.36 | 77.24 | 78.81 |
| 1.480 | 25 | 2.506 | 37 | 3.709 | 30.39 | 34.48 | 38.42 | 39.21 | 42.36 | 44.72 | 46.29 | 50.24 | 51.02 | 54.96 | 58.11 | 59.68 | 65.98 | 73.86 | 81.73 | 83.31 |
| 1.481 | 27 | 2.707 | 40 | 4.010 | 29.99 | 34.09 | 38.02 | 38.81 | 41.96 | 44.32 | 45.90 | 49.84 | 50.63 | 54.56 | 57.71 | 59.29 | 65.59 | 73.46 | 81.34 | 82.91 |
| 1.489 | 45 | 4.511 | 67 | 6.717 | 26.43 | 30.53 | 34.47 | 35.26 | 38.41 | 40.77 | 42.35 | 46.29 | 47.07 | 51.01 | 54.16 | 55.74 | 62.04 | 69.91 | 77.79 | 79.36 |
| 1.493 | 75 | 7.519 | 112 | 11.229 | 20.47 | 24.58 | 28.52 | 29.31 | 32.47 | 34.83 | 36.41 | 40.35 | 41.14 | 45.08 | 48.23 | 49.81 | 56.11 | 63.99 | 71.87 | 73.44 |
| 1.500 | 22 | 2.206 | 33 | 3.308 | 30.94 | 35.03 | 38.97 | 39.76 | 42.91 | 45.27 | 46.85 | 50.79 | 51.57 | 55.51 | 58.66 | 60.23 | 66.53 | 74.41 | 82.28 | 83.86 |
| 1.500 | 26 | 2.607 | 39 | 3.910 | 30.15 | 34.25 | 38.18 | 38.97 | 42.12 | 44.48 | 46.06 | 50.00 | 50.78 | 54.72 | 57.87 | 59.44 | 65.74 | 73.62 | 81.49 | 83.07 |
| 1.500 | 28 | 2.807 | 42 | 4.211 | 29.75 | 33.85 | 37.79 | 38.58 | 41.73 | 44.09 | 45.66 | 49.60 | 50.39 | 54.32 | 57.47 | 59.05 | 65.35 | 73.22 | 81.10 | 82.68 |
| 1.500 | 30 | 3.008 | 45 | 4.511 | 29.36 | 33.46 | 37.39 | 38.18 | 41.33 | 43.69 | 45.27 | 49.21 | 49.99 | 53.93 | 57.08 | 58.65 | 64.96 | 72.83 | 80.71 | 82.28 |
| 1.500 | 32 | 3.208 | 48 | 4.812 | 28.97 | 33.06 | 37.00 | 37.79 | 40.94 | 43.30 | 44.87 | 48.81 | 49.60 | 53.54 | 56.69 | 58.26 | 64.56 | 72.44 | 80.31 | 81.89 |
| 1.500 | 40 | 4.010 | 60 | 6.015 | 27.38 | 31.48 | 35.42 | 36.21 | 39.36 | 41.72 | 43.29 | 47.24 | 48.02 | 51.96 | 55.11 | 56.68 | 62.98 | 70.86 | 78.74 | 80.31 |
| 1.500 | 42 | 4.211 | 63 | 6.316 | 26.99 | 31.08 | 35.02 | 35.81 | 38.96 | 41.32 | 42.90 | 46.84 | 47.63 | 51.56 | 54.71 | 56.29 | 62.59 | 70.46 | 78.34 | 79.92 |
| 1.500 | 50 | 5.013 | 75 | 7.519 | 25.40 | 29.50 | 33.44 | 34.23 | 37.38 | 39.74 | 41.32 | 45.26 | 46.05 | 49.98 | 53.13 | 54.71 | 61.01 | 68.89 | 76.76 | 78.34 |
| 1.500 | 60 | 6.015 | 90 | 9.023 | 23.42 | 27.52 | 31.46 | 32.25 | 35.40 | 37.76 | 39.34 | 43.28 | 44.07 | 48.01 | 51.16 | 52.73 | 59.04 | 66.91 | 74.79 | 76.36 |
| 1.509 | 53 | 5.314 | 80 | 8.020 | 24.77 | 28.87 | 32.80 | 33.60 | 36.75 | 39.11 | 40.69 | 44.63 | 45.41 | 49.35 | 52.50 | 54.08 | 60.38 | 68.25 | 76.13 | 77.71 |
| 1.514 | 35 | 3.509 | 53 | 5.314 | 28.33 | 32.43 | 36.36 | 37.15 | 40.31 | 42.67 | 44.24 | 48.18 | 48.97 | 52.90 | 56.05 | 57.63 | 63.93 | 71.80 | 79.68 | 81.26 |
| 1.514 | 37 | 3.709 | 56 | 5.614 | 27.94 | 32.03 | 35.97 | 36.76 | 39.91 | 42.27 | 43.85 | 47.79 | 48.57 | 52.51 | 55.66 | 57.23 | 63.54 | 71.41 | 79.29 | 80.86 |
| 1.515 | 33 | 3.308 | 50 | 5.013 | 28.73 | 32.82 | 36.76 | 37.55 | 40.70 | 43.06 | 44.64 | 48.58 | 49.36 | 53.30 | 56.45 | 58.02 | 64.32 | 72.20 | 80.08 | 81.65 |
| 1.519 | 27 | 2.707 | 41 | 4.110 | 29.91 | 34.01 | 37.94 | 38.73 | 41.89 | 44.25 | 45.82 | 49.76 | 50.55 | 54.48 | 57.63 | 59.21 | 65.51 | 73.38 | 81.26 | 82.83 |
| 1.520 | 25 | 2.506 | 38 | 3.810 | 30.31 | 34.40 | 38.34 | 39.13 | 42.28 | 44.64 | 46.21 | 50.16 | 50.94 | 54.88 | 58.03 | 59.60 | 65.90 | 73.78 | 81.65 | 83.23 |
| 1.537 | 41 | 4.110 | 63 | 6.316 | 27.06 | 31.16 | 35.10 | 35.89 | 39.04 | 41.40 | 42.98 | 46.92 | 47.70 | 51.64 | 54.79 | 56.37 | 62.67 | 70.54 | 78.42 | 79.99 |
| 1.538 | 26 | 2.607 | 40 | 4.010 | 30.07 | 34.17 | 38.10 | 38.89 | 42.04 | 44.40 | 45.98 | 49.92 | 50.70 | 54.64 | 57.79 | 59.36 | 65.66 | 73.54 | 81.41 | 82.99 |
| 1.538 | 39 | 3.910 | 60 | 6.015 | 27.46 | 31.56 | 35.49 | 36.28 | 39.44 | 41.80 | 43.37 | 47.31 | 48.10 | 52.03 | 55.18 | 56.76 | 63.06 | 70.94 | 78.81 | 80.39 |
| 1.545 | 22 | 2.206 | 34 | 3.409 | 30.86 | 34.95 | 38.89 | 39.68 | 42.83 | 45.19 | 46.77 | 50.71 | 51.49 | 55.43 | 58.58 | 60.15 | 66.45 | 74.33 | 82.20 | 83.78 |
| 1.548 | 31 | 3.108 | 48 | 4.812 | 29.04 | 33.14 | 37.07 | 37.87 | 41.02 | 43.38 | 44.95 | 48.89 | 49.68 | 53.61 | 56.76 | 58.34 | 64.64 | 72.51 | 80.39 | 81.97 |
| 1.552 | 29 | 2.907 | 45 | 4.511 | 29.44 | 33.53 | 37.47 | 38.26 | 41.41 | 43.77 | 45.35 | 49.29 | 50.07 | 54.01 | 57.16 | 58.73 | 65.03 | 72.91 | 80.78 | 82.36 |
| 1.556 | 27 | 2.707 | 42 | 4.211 | 29.83 | 33.93 | 37.86 | 38.65 | 41.80 | 44.17 | 45.74 | 49.68 | 50.47 | 54.40 | 57.55 | 59.13 | 65.43 | 73.30 | 81.18 | 82.75 |
| 1.556 | 36 | 3.609 | 56 | 5.614 | 28.01 | 32.11 | 36.05 | 36.84 | 39.99 | 42.35 | 43.92 | 47.87 | 48.65 | 52.59 | 55.74 | 57.31 | 63.61 | 71.49 | 79.36 | 80.94 |
| 1.559 | 34 | 3.409 | 53 | 5.314 | 28.41 | 32.51 | 36.44 | 37.23 | 40.38 | 42.74 | 44.32 | 48.26 | 49.04 | 52.98 | 56.13 | 57.71 | 64.01 | 71.88 | 79.76 | 81.33 |
| 1.560 | 25 | 2.506 | 39 | 3.910 | 30.23 | 34.32 | 38.26 | 39.05 | 42.20 | 44.56 | 46.14 | 50.08 | 50.86 | 54.80 | 57.95 | 59.52 | 65.82 | 73.70 | 81.57 | 83.15 |
| 1.563 | 32 | 3.208 | 50 | 5.013 | 28.80 | 32.90 | 36.84 | 37.63 | 40.78 | 43.14 | 44.71 | 48.65 | 49.44 | 53.38 | 56.53 | 58.10 | 64.40 | 72.28 | 80.15 | 81.73 |
| 1.563 | 48 | 4.812 | 75 | 7.519 | 25.55 | 29.65 | 33.59 | 34.38 | 37.54 | 39.90 | 41.47 | 45.42 | 46.20 | 50.14 | 53.29 | 54.86 | 61.17 | 69.04 | 76.92 | 78.49 |
| 1.575 | 40 | 4.010 | 63 | 6.316 | 27.14 | 31.24 | 35.18 | 35.97 | 39.12 | 41.48 | 43.05 | 47.00 | 47.78 | 51.72 | 54.87 | 56.44 | 62.74 | 70.62 | 78.50 | 80.07 |
| 1.577 | 26 | 2.607 | 41 | 4.110 | 29.99 | 34.09 | 38.02 | 38.81 | 41.96 | 44.32 | 45.90 | 49.84 | 50.62 | 54.56 | 57.71 | 59.28 | 65.59 | 73.46 | 81.34 | 82.91 |
| 1.577 | 71 | 7.118 | 112 | 11.229 | 20.76 | 24.88 | 28.82 | 29.61 | 32.77 | 35.14 | 36.71 | 40.66 | 41.44 | 45.38 | 48.54 | 50.11 | 56.42 | 64.30 | 72.18 | 73.75 |
| **Length Factor*** | | | | | **1.18** | **1.22** | **1.26** | **1.26** | **1.29** | **1.31** | **1.32** | **1.35** | **1.36** | **1.38** | **1.40** | **1.41** | **1.45** | **1.49** | **1.52** | **1.53** |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 640-8MX | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |
| 1.578 | 45 | 4.511 | 71 | 7.118 | – | – | 6.49 | 8.41 | 9.68 | 10.47 | 11.26 | 12.85 | 14.43 | 14.90 | 16.01 | 19.17 | 22.32 | 25.48 |
| 1.579 | 38 | 3.810 | 60 | 6.015 | – | 6.36 | 7.96 | 9.86 | 11.13 | 11.92 | 12.71 | 14.29 | 15.87 | 16.34 | 17.44 | 20.60 | 23.75 | 26.91 |
| 1.591 | 22 | 2.206 | 35 | 3.509 | 8.09 | 9.66 | 11.24 | 13.14 | 14.40 | 15.18 | 15.97 | 17.54 | 19.12 | 19.60 | 20.70 | 23.85 | 27.00 | 30.15 |
| 1.595 | 42 | 4.211 | 67 | 6.717 | – | – | 7.06 | 8.97 | 10.24 | 11.03 | 11.82 | 13.40 | 14.98 | 15.46 | 16.56 | 19.72 | 22.88 | 26.03 |
| 1.600 | 25 | 2.506 | 40 | 4.010 | 7.44 | 9.03 | 10.61 | 12.50 | 13.76 | 14.55 | 15.33 | 16.91 | 18.49 | 18.96 | 20.06 | 23.22 | 26.37 | 29.52 |
| 1.600 | 30 | 3.008 | 48 | 4.812 | 6.39 | 7.98 | 9.57 | 11.46 | 12.73 | 13.51 | 14.30 | 15.88 | 17.45 | 17.93 | 19.03 | 22.18 | 25.34 | 28.49 |
| 1.600 | 35 | 3.509 | 56 | 5.614 | 5.33 | 6.93 | 8.52 | 10.42 | 11.69 | 12.48 | 13.26 | 14.84 | 16.42 | 16.90 | 18.00 | 21.15 | 24.31 | 27.46 |
| 1.600 | 50 | 5.013 | 80 | 8.020 | – | – | – | 7.25 | 8.53 | 9.33 | 10.12 | 11.71 | 13.30 | 13.78 | 14.88 | 18.05 | 21.21 | 24.36 |
| 1.606 | 33 | 3.308 | 53 | 5.314 | 5.74 | 7.33 | 8.92 | 10.82 | 12.09 | 12.87 | 13.66 | 15.24 | 16.82 | 17.29 | 18.40 | 21.55 | 24.70 | 27.86 |
| 1.607 | 28 | 2.807 | 45 | 4.511 | 6.80 | 8.38 | 9.97 | 11.86 | 13.12 | 13.91 | 14.70 | 16.28 | 17.85 | 18.33 | 19.43 | 22.58 | 25.73 | 28.88 |
| 1.607 | 56 | 5.614 | 90 | 9.023 | – | – | – | – | – | 8.01 | 8.81 | 10.41 | 12.00 | 12.48 | 13.59 | 16.76 | 19.93 | 23.09 |
| 1.613 | 31 | 3.108 | 50 | 5.013 | 6.15 | 7.74 | 9.32 | 11.22 | 12.49 | 13.27 | 14.06 | 15.64 | 17.22 | 17.69 | 18.79 | 21.95 | 25.10 | 28.25 |
| 1.615 | 26 | 2.607 | 42 | 4.211 | 7.20 | 8.78 | 10.36 | 12.26 | 13.52 | 14.31 | 15.09 | 16.67 | 18.25 | 18.72 | 19.82 | 22.98 | 26.13 | 29.28 |
| 1.615 | 39 | 3.910 | 63 | 6.316 | – | 6.02 | 7.62 | 9.53 | 10.80 | 11.59 | 12.38 | 13.96 | 15.54 | 16.02 | 17.12 | 20.28 | 23.43 | 26.59 |
| 1.622 | 37 | 3.709 | 60 | 6.015 | – | 6.43 | 8.03 | 9.94 | 11.20 | 11.99 | 12.78 | 14.36 | 15.94 | 16.42 | 17.52 | 20.68 | 23.83 | 26.98 |
| 1.634 | 41 | 4.110 | 67 | 6.717 | – | – | 7.13 | 9.04 | 10.31 | 11.10 | 11.90 | 13.48 | 15.06 | 15.54 | 16.64 | 19.80 | 22.95 | 26.11 |
| 1.636 | 22 | 2.206 | 36 | 3.609 | 8.00 | 9.58 | 11.16 | 13.05 | 14.32 | 15.10 | 15.89 | 17.46 | 19.04 | 19.52 | 20.62 | 23.77 | 26.92 | 30.07 |
| 1.640 | 25 | 2.506 | 41 | 4.110 | 7.36 | 8.94 | 10.52 | 12.42 | 13.68 | 14.47 | 15.25 | 16.83 | 18.41 | 18.88 | 19.98 | 23.13 | 26.29 | 29.44 |
| 1.647 | 34 | 3.409 | 56 | 5.614 | 5.40 | 7.00 | 8.59 | 10.50 | 11.76 | 12.55 | 13.34 | 14.92 | 16.50 | 16.97 | 18.07 | 21.23 | 24.38 | 27.54 |
| 1.655 | 29 | 2.907 | 48 | 4.812 | 6.47 | 8.06 | 9.64 | 11.54 | 12.80 | 13.59 | 14.38 | 15.95 | 17.53 | 18.01 | 19.11 | 22.26 | 25.41 | 28.57 |
| 1.656 | 32 | 3.208 | 53 | 5.314 | 5.81 | 7.41 | 9.00 | 10.90 | 12.16 | 12.95 | 13.74 | 15.32 | 16.89 | 17.37 | 18.47 | 21.63 | 24.78 | 27.93 |
| 1.658 | 38 | 3.810 | 63 | 6.316 | – | 6.09 | 7.69 | 9.61 | 10.87 | 11.66 | 12.45 | 14.04 | 15.62 | 16.09 | 17.20 | 20.35 | 23.51 | 26.66 |
| 1.667 | 27 | 2.707 | 45 | 4.511 | 6.87 | 8.46 | 10.04 | 11.94 | 13.20 | 13.99 | 14.77 | 16.35 | 17.93 | 18.40 | 19.51 | 22.66 | 25.81 | 28.96 |
| 1.667 | 30 | 3.008 | 50 | 5.013 | 6.22 | 7.81 | 9.40 | 11.30 | 12.56 | 13.35 | 14.13 | 15.71 | 17.29 | 17.77 | 18.87 | 22.02 | 25.18 | 28.33 |
| 1.667 | 36 | 3.609 | 60 | 6.015 | – | 6.50 | 8.10 | 10.01 | 11.28 | 12.07 | 12.85 | 14.44 | 16.02 | 16.49 | 17.60 | 20.75 | 23.91 | 27.06 |
| 1.667 | 45 | 4.511 | 75 | 7.519 | – | – | – | 8.05 | 9.33 | 10.12 | 10.92 | 12.51 | 14.09 | 14.57 | 15.67 | 18.84 | 22.00 | 25.15 |
| 1.667 | 48 | 4.812 | 80 | 8.020 | – | – | – | 7.39 | 8.67 | 9.47 | 10.27 | 11.86 | 13.45 | 13.92 | 15.03 | 18.20 | 21.36 | 24.51 |
| 1.672 | 67 | 6.717 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | 9.74 | 10.87 | 14.07 | 17.25 | 20.43 |
| 1.675 | 40 | 4.010 | 67 | 6.717 | – | – | 7.20 | 9.11 | 10.39 | 11.18 | 11.97 | 13.55 | 15.13 | 15.61 | 16.72 | 19.87 | 23.03 | 26.19 |
| 1.680 | 25 | 2.506 | 42 | 4.211 | 7.27 | 8.86 | 10.44 | 12.34 | 13.60 | 14.38 | 15.17 | 16.75 | 18.32 | 18.80 | 19.90 | 23.05 | 26.21 | 29.36 |
| 1.682 | 22 | 2.206 | 37 | 3.709 | 7.92 | 9.50 | 11.08 | 12.97 | 14.23 | 15.02 | 15.81 | 17.38 | 18.96 | 19.43 | 20.54 | 23.69 | 26.84 | 29.99 |
| 1.690 | 42 | 4.211 | 71 | 7.118 | – | – | 6.69 | 8.62 | 9.90 | 10.69 | 11.48 | 13.07 | 14.65 | 15.13 | 16.23 | 19.39 | 22.55 | 25.71 |
| 1.697 | 33 | 3.308 | 56 | 5.614 | 5.47 | 7.07 | 8.67 | 10.57 | 11.84 | 12.62 | 13.41 | 14.99 | 16.57 | 17.05 | 18.15 | 21.31 | 24.46 | 27.61 |
| 1.698 | 53 | 5.314 | 90 | 9.023 | – | – | – | – | 7.41 | 8.21 | 9.02 | 10.62 | 12.22 | 12.70 | 13.81 | 16.98 | 20.15 | 23.31 |
| 1.703 | 37 | 3.709 | 63 | 6.316 | – | 6.16 | 7.77 | 9.68 | 10.95 | 11.74 | 12.53 | 14.11 | 15.69 | 16.17 | 17.27 | 20.43 | 23.59 | 26.74 |
| 1.710 | 31 | 3.108 | 53 | 5.314 | 5.88 | 7.48 | 9.07 | 10.97 | 12.24 | 13.02 | 13.81 | 15.39 | 16.97 | 17.45 | 18.55 | 21.70 | 24.86 | 28.01 |
| 1.714 | 28 | 2.807 | 48 | 4.812 | 6.54 | 8.13 | 9.71 | 11.61 | 12.88 | 13.66 | 14.45 | 16.03 | 17.61 | 18.08 | 19.18 | 22.34 | 25.49 | 28.64 |
| 1.714 | 35 | 3.509 | 60 | 6.015 | – | 6.58 | 8.17 | 10.08 | 11.35 | 12.14 | 12.93 | 14.51 | 16.09 | 16.57 | 17.67 | 20.83 | 23.98 | 27.14 |
| 1.718 | 39 | 3.910 | 67 | 6.717 | – | – | 7.27 | 9.19 | 10.46 | 11.25 | 12.04 | 13.63 | 15.21 | 15.69 | 16.79 | 19.95 | 23.11 | 26.26 |
| 1.724 | 29 | 2.907 | 50 | 5.013 | 6.29 | 7.88 | 9.47 | 11.37 | 12.64 | 13.42 | 14.21 | 15.79 | 17.37 | 17.84 | 18.95 | 22.10 | 25.25 | 28.41 |
| 1.727 | 22 | 2.206 | 38 | 3.810 | 7.83 | 9.42 | 11.00 | 12.89 | 14.15 | 14.94 | 15.72 | 17.30 | 18.88 | 19.35 | 20.45 | 23.61 | 26.76 | 29.91 |
| 1.731 | 26 | 2.607 | 45 | 4.511 | 6.94 | 8.53 | 10.11 | 12.01 | 13.28 | 14.06 | 14.85 | 16.43 | 18.00 | 18.48 | 19.58 | 22.73 | 25.89 | 29.04 |
| 1.732 | 41 | 4.110 | 71 | 7.118 | – | – | 6.76 | 8.69 | 9.97 | 10.76 | 11.55 | 13.14 | 14.72 | 15.20 | 16.31 | 19.47 | 22.63 | 25.78 |
| 1.750 | 32 | 3.208 | 56 | 5.614 | 5.54 | 7.14 | 8.74 | 10.64 | 11.91 | 12.70 | 13.49 | 15.07 | 16.65 | 17.12 | 18.23 | 21.38 | 24.54 | 27.69 |
| 1.750 | 36 | 3.609 | 63 | 6.316 | – | 6.23 | 7.84 | 9.75 | 11.02 | 11.81 | 12.60 | 14.19 | 15.77 | 16.24 | 17.35 | 20.51 | 23.66 | 26.82 |
| 1.750 | 80 | 8.020 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | – | 13.84 | 17.06 |
| 1.763 | 38 | 3.810 | 67 | 6.717 | – | – | 7.34 | 9.26 | 10.53 | 11.32 | 12.11 | 13.70 | 15.28 | 15.76 | 16.86 | 20.02 | 23.18 | 26.34 |
| 1.765 | 34 | 3.409 | 60 | 6.015 | – | 6.65 | 8.25 | 10.15 | 11.42 | 12.21 | 13.00 | 14.59 | 16.17 | 16.64 | 17.75 | 20.90 | 24.06 | 27.21 |
| 1.767 | 30 | 3.008 | 53 | 5.314 | 5.95 | 7.55 | 9.14 | 11.04 | 12.31 | 13.10 | 13.89 | 15.47 | 17.04 | 17.52 | 18.62 | 21.78 | 24.93 | 28.09 |
| 1.773 | 22 | 2.206 | 39 | 3.910 | 7.75 | 9.33 | 10.91 | 12.81 | 14.07 | 14.86 | 15.64 | 17.22 | 18.80 | 19.27 | 20.37 | 23.53 | 26.68 | 29.83 |
| 1.775 | 40 | 4.010 | 71 | 7.118 | – | – | 6.83 | 8.76 | 10.04 | 10.83 | 11.63 | 13.21 | 14.80 | 15.28 | 16.38 | 19.54 | 22.70 | 25.86 |
| 1.778 | 27 | 2.707 | 48 | 4.812 | 6.61 | 8.20 | 9.79 | 11.69 | 12.95 | 13.74 | 14.53 | 16.11 | 17.68 | 18.16 | 19.26 | 22.41 | 25.57 | 28.72 |
| 1.778 | 45 | 4.511 | 80 | 8.020 | – | – | – | 7.59 | 8.88 | 9.68 | 10.48 | 12.08 | 13.67 | 14.14 | 15.25 | 18.42 | 21.58 | 24.74 |
| 1.778 | 63 | 6.316 | 112 | 11.229 | – | – | – | – | – | – | – | – | 9.52 | 10.01 | 11.14 | 14.35 | 17.54 | 20.72 |
| 1.786 | 28 | 2.807 | 50 | 5.013 | 6.36 | 7.96 | 9.54 | 11.44 | 12.71 | 13.50 | 14.29 | 15.86 | 17.44 | 17.92 | 19.02 | 22.18 | 25.33 | 28.48 |
| 1.786 | 42 | 4.211 | 75 | 7.519 | – | – | – | 8.26 | 9.54 | 10.34 | 11.13 | 12.72 | 14.31 | 14.79 | 15.90 | 19.06 | 22.22 | 25.38 |
| 1.800 | 25 | 2.506 | 45 | 4.511 | 7.02 | 8.61 | 10.19 | 12.09 | 13.35 | 14.14 | 14.93 | 16.50 | 18.08 | 18.56 | 19.66 | 22.81 | 25.96 | 29.12 |
| 1.800 | 35 | 3.509 | 63 | 6.316 | – | 6.30 | 7.91 | 9.82 | 11.09 | 11.89 | 12.68 | 14.26 | 15.84 | 16.32 | 17.42 | 20.58 | 23.74 | 26.89 |
| 1.800 | 50 | 5.013 | 90 | 9.023 | – | – | – | – | 7.61 | 8.42 | 9.23 | 10.84 | 12.43 | 12.92 | 14.03 | 17.20 | 20.37 | 23.54 |
| 1.806 | 31 | 3.108 | 56 | 5.614 | 5.61 | 7.22 | 8.81 | 10.72 | 11.98 | 12.77 | 13.56 | 15.14 | 16.72 | 17.20 | 18.30 | 21.46 | 24.61 | 27.77 |
| 1.811 | 37 | 3.709 | 67 | 6.717 | – | 5.79 | 7.41 | 9.33 | 10.60 | 11.40 | 12.19 | 13.77 | 15.36 | 15.83 | 16.94 | 20.10 | 23.26 | 26.41 |
| 1.818 | 22 | 2.206 | 40 | 4.010 | 7.66 | 9.25 | 10.83 | 12.73 | 13.99 | 14.78 | 15.56 | 17.14 | 18.72 | 19.19 | 20.29 | 23.45 | 26.60 | 29.75 |
| 1.818 | 33 | 3.308 | 60 | 6.015 | – | 6.72 | 8.32 | 10.23 | 11.50 | 12.29 | 13.08 | 14.66 | 16.24 | 16.72 | 17.82 | 20.98 | 24.13 | 27.29 |
| 1.821 | 39 | 3.910 | 71 | 7.118 | – | – | 6.90 | 8.83 | 10.11 | 10.91 | 11.70 | 13.29 | 14.87 | 15.35 | 16.46 | 19.62 | 22.78 | 25.93 |
| 1.828 | 29 | 2.907 | 53 | 5.314 | 6.02 | 7.62 | 9.21 | 11.12 | 12.38 | 13.17 | 13.96 | 15.54 | 17.12 | 17.60 | 18.70 | 21.86 | 25.01 | 28.16 |
| 1.829 | 41 | 4.110 | 75 | 7.519 | – | – | 6.39 | 8.33 | 9.62 | 10.41 | 11.21 | 12.80 | 14.39 | 14.86 | 15.97 | 19.14 | 22.30 | 25.45 |
| 1.846 | 26 | 2.607 | 48 | 4.812 | 6.68 | 8.27 | 9.86 | 11.76 | 13.03 | 13.81 | 14.60 | 16.18 | 17.76 | 18.23 | 19.34 | 22.49 | 25.64 | 28.80 |
| 1.852 | 27 | 2.707 | 50 | 5.013 | 6.43 | 8.03 | 9.62 | 11.52 | 12.78 | 13.57 | 14.36 | 15.94 | 17.52 | 17.99 | 19.10 | 22.25 | 25.41 | 28.56 |
| 1.853 | 34 | 3.409 | 63 | 6.316 | – | 6.37 | 7.98 | 9.90 | 11.17 | 11.96 | 12.75 | 14.33 | 15.92 | 16.39 | 17.50 | 20.66 | 23.81 | 26.97 |
| 1.861 | 36 | 3.609 | 67 | 6.717 | – | 5.86 | 7.48 | 9.40 | 10.68 | 11.47 | 12.26 | 13.85 | 15.43 | 15.91 | 17.01 | 20.18 | 23.33 | 26.49 |
| 1.864 | 22 | 2.206 | 41 | 4.110 | 7.58 | 9.16 | 10.75 | 12.64 | 13.91 | 14.69 | 15.48 | 17.06 | 18.64 | 19.11 | 20.21 | 23.37 | 26.52 | 29.67 |
| 1.867 | 30 | 3.008 | 56 | 5.614 | 5.68 | 7.29 | 8.88 | 10.79 | 12.06 | 12.85 | 13.64 | 15.22 | 16.80 | 17.27 | 18.38 | 21.53 | 24.69 | 27.84 |
| 1.867 | 60 | 6.015 | 112 | 11.229 | – | – | – | – | – | – | – | – | 9.73 | 10.22 | 11.35 | 14.57 | 17.76 | 20.94 |
| 1.867 | 75 | 7.519 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | – | 14.19 | 17.41 |
| 1.868 | 38 | 3.810 | 71 | 7.118 | – | – | 6.97 | 8.90 | 10.18 | 10.98 | 11.77 | 13.36 | 14.95 | 15.42 | 16.53 | 19.69 | 22.85 | 26.01 |
| 1.875 | 32 | 3.208 | 60 | 6.015 | 5.16 | 6.79 | 8.39 | 10.30 | 11.57 | 12.36 | 13.15 | 14.73 | 16.32 | 16.79 | 17.90 | 21.05 | 24.21 | 27.37 |
| 1.875 | 40 | 4.010 | 75 | 7.519 | – | – | 6.46 | 8.40 | 9.69 | 10.48 | 11.28 | 12.87 | 14.46 | 14.94 | 16.04 | 19.21 | 22.37 | 25.53 |
| 1.875 | 48 | 4.812 | 90 | 9.023 | – | – | – | – | 7.75 | 8.56 | 9.37 | 10.98 | 12.58 | 13.06 | 14.17 | 17.35 | 20.52 | 23.69 |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1792-8MX | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **1.18** | **1.22** | **1.26** | **1.26** | **1.29** | **1.31** | **1.32** | **1.35** | **1.36** | **1.38** | **1.40** | **1.41** | **1.45** | **1.49** | **1.52** | **1.53** |
| 1.578 | 45 | 4.511 | 71 | 7.118 | 26.11 | 30.21 | 34.15 | 34.94 | 38.09 | 40.45 | 42.03 | 45.97 | 46.75 | 50.85 | 53.84 | 55.42 | 61.72 | 69.59 | 77.47 | 79.05 |
| 1.579 | 38 | 3.810 | 60 | 6.015 | 27.54 | 31.63 | 35.57 | 36.36 | 39.51 | 41.87 | 43.45 | 47.39 | 48.18 | 52.27 | 55.26 | 56.84 | 63.14 | 71.01 | 78.89 | 80.47 |
| 1.591 | 22 | 2.206 | 35 | 3.509 | 30.78 | 34.88 | 38.81 | 39.60 | 42.75 | 45.11 | 46.69 | 50.63 | 51.41 | 55.51 | 58.50 | 60.07 | 66.37 | 74.25 | 82.12 | 83.70 |
| 1.595 | 42 | 4.211 | 67 | 6.717 | 26.66 | 30.76 | 34.70 | 35.49 | 38.64 | 41.00 | 42.58 | 46.52 | 47.31 | 51.40 | 54.39 | 55.97 | 62.27 | 70.15 | 78.02 | 79.60 |
| 1.600 | 25 | 2.506 | 40 | 4.010 | 30.15 | 34.24 | 38.18 | 38.97 | 42.12 | 44.48 | 46.06 | 50.00 | 50.78 | 54.88 | 57.87 | 59.44 | 65.74 | 73.62 | 81.49 | 83.07 |
| 1.600 | 30 | 3.008 | 48 | 4.812 | 29.12 | 33.22 | 37.15 | 37.94 | 41.09 | 43.45 | 45.03 | 48.97 | 49.76 | 53.85 | 56.84 | 58.42 | 64.72 | 72.59 | 80.47 | 82.04 |
| 1.600 | 35 | 3.509 | 56 | 5.614 | 28.09 | 32.19 | 36.12 | 36.91 | 40.07 | 42.43 | 44.00 | 47.94 | 48.73 | 52.82 | 55.81 | 57.39 | 63.69 | 71.57 | 79.44 | 81.02 |
| 1.600 | 50 | 5.013 | 80 | 8.020 | 24.99 | 29.10 | 33.03 | 33.83 | 36.98 | 39.34 | 40.92 | 44.86 | 45.64 | 49.74 | 52.73 | 54.31 | 60.61 | 68.49 | 76.36 | 77.94 |
| 1.606 | 33 | 3.308 | 53 | 5.314 | 28.49 | 32.58 | 36.52 | 37.31 | 40.46 | 42.82 | 44.40 | 48.34 | 49.12 | 53.22 | 56.21 | 57.78 | 64.09 | 71.96 | 79.84 | 81.41 |
| 1.607 | 28 | 2.807 | 45 | 4.511 | 29.52 | 33.61 | 37.55 | 38.34 | 41.49 | 43.85 | 45.42 | 49.37 | 50.15 | 54.25 | 57.24 | 58.81 | 65.11 | 72.99 | 80.86 | 82.44 |
| 1.607 | 56 | 5.614 | 90 | 9.023 | 23.72 | 27.82 | 31.76 | 32.55 | 35.71 | 38.07 | 39.65 | 43.59 | 44.38 | 48.47 | 51.47 | 53.04 | 59.34 | 67.22 | 75.10 | 76.68 |
| 1.613 | 31 | 3.108 | 50 | 5.013 | 28.88 | 32.98 | 36.91 | 37.70 | 40.86 | 43.22 | 44.79 | 48.73 | 49.52 | 53.61 | 56.60 | 58.18 | 64.48 | 72.36 | 80.23 | 81.81 |
| 1.615 | 26 | 2.607 | 42 | 4.211 | 29.91 | 34.01 | 37.94 | 38.73 | 41.88 | 44.24 | 45.82 | 49.76 | 50.54 | 54.64 | 57.63 | 59.20 | 65.51 | 73.38 | 81.26 | 82.83 |
| 1.615 | 39 | 3.910 | 63 | 6.316 | 27.22 | 31.32 | 35.25 | 36.04 | 39.20 | 41.56 | 43.13 | 47.07 | 47.86 | 51.95 | 54.95 | 56.52 | 62.82 | 70.70 | 78.57 | 80.15 |
| 1.622 | 37 | 3.709 | 60 | 6.015 | 27.61 | 31.71 | 35.65 | 36.44 | 39.59 | 41.95 | 43.53 | 47.47 | 48.25 | 52.35 | 55.34 | 56.92 | 63.22 | 71.09 | 78.97 | 80.54 |
| 1.634 | 41 | 4.110 | 67 | 6.717 | 26.74 | 30.84 | 34.78 | 35.57 | 38.72 | 41.08 | 42.66 | 46.60 | 47.38 | 51.48 | 54.47 | 56.05 | 62.35 | 70.22 | 78.10 | 79.68 |
| 1.636 | 22 | 2.206 | 36 | 3.609 | 30.70 | 34.80 | 38.73 | 39.52 | 42.67 | 45.03 | 46.61 | 50.55 | 51.33 | 55.43 | 58.42 | 59.99 | 66.29 | 74.17 | 82.04 | 83.62 |
| 1.640 | 25 | 2.506 | 41 | 4.110 | 30.07 | 34.16 | 38.10 | 38.89 | 42.04 | 44.40 | 45.98 | 49.92 | 50.70 | 54.80 | 57.79 | 59.36 | 65.66 | 73.54 | 81.41 | 82.99 |
| 1.647 | 34 | 3.409 | 56 | 5.614 | 28.17 | 32.26 | 36.20 | 36.99 | 40.14 | 42.50 | 44.08 | 48.02 | 48.81 | 52.90 | 55.89 | 57.47 | 63.77 | 71.64 | 79.52 | 81.10 |
| 1.655 | 29 | 2.907 | 48 | 4.812 | 29.20 | 33.29 | 37.23 | 38.02 | 41.17 | 43.53 | 45.11 | 49.05 | 49.83 | 53.93 | 56.92 | 58.49 | 64.80 | 72.67 | 80.55 | 82.12 |
| 1.656 | 32 | 3.208 | 53 | 5.314 | 28.56 | 32.66 | 36.60 | 37.39 | 40.54 | 42.90 | 44.47 | 48.42 | 49.20 | 53.30 | 56.29 | 57.86 | 64.16 | 72.04 | 79.91 | 81.49 |
| 1.658 | 38 | 3.810 | 63 | 6.316 | 27.29 | 31.39 | 35.33 | 36.12 | 39.27 | 41.63 | 43.21 | 47.15 | 47.94 | 52.03 | 55.02 | 56.60 | 62.90 | 70.78 | 78.65 | 80.23 |
| 1.667 | 27 | 2.707 | 45 | 4.511 | 29.59 | 33.69 | 37.63 | 38.42 | 41.57 | 43.93 | 45.50 | 49.44 | 50.23 | 54.32 | 57.31 | 58.89 | 65.19 | 73.07 | 80.94 | 82.52 |
| 1.667 | 30 | 3.008 | 50 | 5.013 | 28.96 | 33.06 | 36.99 | 37.78 | 40.93 | 43.29 | 44.87 | 48.81 | 49.60 | 53.69 | 56.68 | 58.26 | 64.56 | 72.43 | 80.31 | 81.88 |
| 1.667 | 36 | 3.609 | 60 | 6.015 | 27.69 | 31.79 | 35.73 | 36.52 | 39.67 | 42.03 | 43.60 | 47.55 | 48.33 | 52.43 | 55.42 | 56.99 | 63.29 | 71.17 | 79.05 | 80.62 |
| 1.667 | 45 | 4.511 | 75 | 7.519 | 25.78 | 29.88 | 33.82 | 34.61 | 37.77 | 40.13 | 41.70 | 45.65 | 46.43 | 50.53 | 53.52 | 55.10 | 61.40 | 69.28 | 77.15 | 78.73 |
| 1.667 | 48 | 4.812 | 80 | 8.020 | 25.15 | 29.25 | 33.19 | 33.98 | 37.13 | 39.49 | 41.07 | 45.01 | 45.80 | 49.90 | 52.89 | 54.46 | 60.77 | 68.64 | 76.52 | 78.10 |
| 1.672 | 67 | 6.717 | 112 | 11.229 | 21.06 | 25.17 | 29.12 | 29.92 | 33.07 | 35.44 | 37.02 | 40.96 | 41.75 | 45.85 | 48.84 | 50.42 | 56.73 | 64.61 | 72.49 | 74.06 |
| 1.675 | 40 | 4.010 | 67 | 6.717 | 26.82 | 30.92 | 34.85 | 35.64 | 38.80 | 41.16 | 42.73 | 46.68 | 47.46 | 51.56 | 54.55 | 56.12 | 62.43 | 70.30 | 78.18 | 79.75 |
| 1.680 | 25 | 2.506 | 42 | 4.211 | 29.99 | 34.08 | 38.02 | 38.81 | 41.96 | 44.32 | 45.90 | 49.84 | 50.62 | 54.72 | 57.71 | 59.28 | 65.58 | 73.46 | 81.34 | 82.91 |
| 1.682 | 22 | 2.206 | 37 | 3.709 | 30.62 | 34.72 | 38.65 | 39.44 | 42.59 | 44.95 | 46.53 | 50.47 | 51.25 | 55.35 | 58.34 | 59.91 | 66.22 | 74.09 | 81.97 | 83.54 |
| 1.690 | 42 | 4.211 | 71 | 7.118 | 26.34 | 30.44 | 34.38 | 35.17 | 38.32 | 40.68 | 42.26 | 46.20 | 46.98 | 51.08 | 54.07 | 55.65 | 61.95 | 69.83 | 77.70 | 79.28 |
| 1.697 | 33 | 3.308 | 56 | 5.614 | 28.24 | 32.34 | 36.28 | 37.07 | 40.22 | 42.58 | 44.16 | 48.10 | 48.88 | 52.98 | 55.97 | 57.55 | 63.85 | 71.72 | 79.60 | 81.17 |
| 1.698 | 53 | 5.314 | 90 | 9.023 | 23.94 | 28.05 | 31.99 | 32.78 | 35.94 | 38.30 | 39.88 | 43.82 | 44.61 | 48.70 | 51.70 | 53.27 | 59.58 | 67.45 | 75.33 | 76.91 |
| 1.703 | 37 | 3.709 | 63 | 6.316 | 27.37 | 31.47 | 35.41 | 36.20 | 39.35 | 41.71 | 43.29 | 47.23 | 48.01 | 52.11 | 55.10 | 56.68 | 62.98 | 70.85 | 78.73 | 80.31 |
| 1.710 | 31 | 3.108 | 53 | 5.314 | 28.64 | 32.74 | 36.67 | 37.46 | 40.62 | 42.98 | 44.55 | 48.49 | 49.28 | 53.37 | 56.36 | 57.94 | 64.24 | 72.12 | 79.99 | 81.57 |
| 1.714 | 28 | 2.807 | 48 | 4.812 | 29.27 | 33.37 | 37.31 | 38.10 | 41.25 | 43.61 | 45.18 | 49.13 | 49.91 | 54.01 | 57.00 | 58.57 | 64.87 | 72.75 | 80.62 | 82.20 |
| 1.714 | 35 | 3.509 | 60 | 6.015 | 27.77 | 31.87 | 35.80 | 36.59 | 39.75 | 42.11 | 43.68 | 47.62 | 48.41 | 52.50 | 55.50 | 57.07 | 63.37 | 71.25 | 79.12 | 80.70 |
| 1.718 | 39 | 3.910 | 67 | 6.717 | 26.89 | 30.99 | 34.93 | 35.72 | 38.87 | 41.23 | 42.81 | 46.75 | 47.54 | 51.63 | 54.63 | 56.20 | 62.50 | 70.38 | 78.26 | 79.83 |
| 1.724 | 29 | 2.907 | 50 | 5.013 | 29.04 | 33.13 | 37.07 | 37.86 | 41.01 | 43.37 | 44.95 | 48.89 | 49.67 | 53.77 | 56.76 | 58.34 | 64.64 | 72.51 | 80.39 | 81.96 |
| 1.727 | 22 | 2.206 | 38 | 3.810 | 30.54 | 34.64 | 38.57 | 39.36 | 42.51 | 44.87 | 46.45 | 50.39 | 51.17 | 55.27 | 58.26 | 59.83 | 66.14 | 74.01 | 81.89 | 83.46 |
| 1.731 | 26 | 2.607 | 45 | 4.511 | 29.67 | 33.77 | 37.70 | 38.49 | 41.64 | 44.00 | 45.58 | 49.52 | 50.31 | 54.40 | 57.39 | 58.97 | 65.27 | 73.14 | 81.02 | 82.59 |
| 1.732 | 41 | 4.110 | 71 | 7.118 | 26.41 | 30.51 | 34.45 | 35.24 | 38.40 | 40.76 | 42.33 | 46.28 | 47.06 | 51.16 | 54.15 | 55.73 | 62.03 | 69.91 | 77.78 | 79.36 |
| 1.750 | 32 | 3.208 | 56 | 5.614 | 28.32 | 32.42 | 36.36 | 37.15 | 40.30 | 42.66 | 44.23 | 48.18 | 48.96 | 53.06 | 56.05 | 57.62 | 63.92 | 71.80 | 79.68 | 81.25 |
| 1.750 | 36 | 3.609 | 63 | 6.316 | 27.45 | 31.55 | 35.48 | 36.27 | 39.43 | 41.79 | 43.36 | 47.31 | 48.09 | 52.19 | 55.18 | 56.75 | 63.06 | 70.93 | 78.81 | 80.38 |
| 1.750 | 80 | 8.020 | 140 | 14.036 | 17.70 | 21.84 | 25.81 | 26.60 | 29.77 | 32.14 | 33.72 | 37.68 | 38.46 | 42.57 | 45.57 | 47.15 | 53.46 | 61.34 | 69.23 | 70.80 |
| 1.763 | 38 | 3.810 | 67 | 6.717 | 26.97 | 31.07 | 35.01 | 35.80 | 38.95 | 41.31 | 42.89 | 46.83 | 47.61 | 51.71 | 54.70 | 56.28 | 62.58 | 70.46 | 78.33 | 79.91 |
| 1.765 | 34 | 3.409 | 60 | 6.015 | 27.84 | 31.94 | 35.88 | 36.67 | 39.82 | 42.18 | 43.76 | 47.70 | 48.49 | 52.58 | 55.57 | 57.15 | 63.45 | 71.33 | 79.20 | 80.78 |
| 1.767 | 30 | 3.008 | 53 | 5.314 | 28.72 | 32.81 | 36.75 | 37.54 | 40.69 | 43.05 | 44.63 | 48.57 | 49.36 | 53.45 | 56.44 | 58.02 | 64.32 | 72.19 | 80.07 | 81.65 |
| 1.773 | 22 | 2.206 | 39 | 3.910 | 30.46 | 34.56 | 38.49 | 39.28 | 42.43 | 44.79 | 46.37 | 50.31 | 51.09 | 55.19 | 58.18 | 59.76 | 66.06 | 73.93 | 81.81 | 83.38 |
| 1.775 | 40 | 4.010 | 71 | 7.118 | 26.49 | 30.59 | 34.53 | 35.32 | 38.47 | 40.84 | 42.41 | 46.35 | 47.14 | 51.24 | 54.23 | 55.80 | 62.11 | 69.98 | 77.86 | 79.43 |
| 1.778 | 27 | 2.707 | 48 | 4.812 | 29.35 | 33.45 | 37.38 | 38.18 | 41.33 | 43.69 | 45.26 | 49.20 | 49.99 | 54.08 | 57.07 | 58.65 | 64.95 | 72.83 | 80.70 | 82.28 |
| 1.778 | 45 | 4.511 | 80 | 8.020 | 25.37 | 29.48 | 33.42 | 34.21 | 37.36 | 39.72 | 41.30 | 45.24 | 46.03 | 50.13 | 53.12 | 54.70 | 61.00 | 68.88 | 76.75 | 78.33 |
| 1.778 | 63 | 6.316 | 112 | 11.229 | 21.35 | 25.47 | 29.42 | 30.22 | 33.37 | 35.74 | 37.32 | 41.27 | 42.05 | 46.15 | 49.15 | 50.73 | 57.03 | 64.91 | 72.79 | 74.37 |
| 1.786 | 28 | 2.807 | 50 | 5.013 | 29.11 | 33.21 | 37.15 | 37.94 | 41.09 | 43.45 | 45.02 | 48.97 | 49.75 | 53.85 | 56.84 | 58.41 | 64.71 | 72.59 | 80.47 | 82.04 |
| 1.786 | 42 | 4.211 | 75 | 7.519 | 26.01 | 30.11 | 34.05 | 34.84 | 38.00 | 40.36 | 41.93 | 45.88 | 46.66 | 50.76 | 53.75 | 55.33 | 61.63 | 69.51 | 77.38 | 78.96 |
| 1.800 | 25 | 2.506 | 45 | 4.511 | 29.75 | 33.84 | 37.78 | 38.57 | 41.72 | 44.08 | 45.66 | 49.60 | 50.38 | 54.48 | 57.47 | 59.05 | 65.35 | 73.22 | 81.10 | 82.67 |
| 1.800 | 35 | 3.509 | 63 | 6.316 | 27.52 | 31.62 | 35.56 | 36.35 | 39.50 | 41.86 | 43.44 | 47.38 | 48.17 | 52.26 | 55.26 | 56.83 | 63.13 | 71.01 | 78.89 | 80.46 |
| 1.800 | 50 | 5.013 | 90 | 9.023 | 24.17 | 28.28 | 32.22 | 33.01 | 36.17 | 38.53 | 40.11 | 44.05 | 44.84 | 48.94 | 51.93 | 53.50 | 59.81 | 67.69 | 75.56 | 77.14 |
| 1.806 | 31 | 3.108 | 56 | 5.614 | 28.40 | 32.50 | 36.43 | 37.22 | 40.38 | 42.74 | 44.31 | 48.25 | 49.04 | 53.13 | 56.13 | 57.70 | 64.00 | 71.88 | 79.75 | 81.33 |
| 1.811 | 37 | 3.709 | 67 | 6.717 | 27.04 | 31.15 | 35.08 | 35.87 | 39.03 | 41.39 | 42.97 | 46.91 | 47.69 | 51.79 | 54.78 | 56.36 | 62.66 | 70.54 | 78.41 | 79.99 |
| 1.818 | 22 | 2.206 | 40 | 4.010 | 30.38 | 34.48 | 38.41 | 39.20 | 42.35 | 44.71 | 46.29 | 50.23 | 51.01 | 55.11 | 58.10 | 59.68 | 65.98 | 73.85 | 81.73 | 83.30 |
| 1.818 | 33 | 3.308 | 60 | 6.015 | 27.92 | 32.02 | 35.96 | 36.75 | 39.90 | 42.26 | 43.84 | 47.78 | 48.56 | 52.66 | 55.65 | 57.23 | 63.53 | 71.40 | 79.28 | 80.86 |
| 1.821 | 39 | 3.910 | 71 | 7.118 | 26.57 | 30.67 | 34.61 | 35.40 | 38.55 | 40.91 | 42.49 | 46.43 | 47.22 | 51.31 | 54.30 | 55.88 | 62.18 | 70.06 | 77.94 | 79.51 |
| 1.828 | 29 | 2.907 | 53 | 5.314 | 28.79 | 32.89 | 36.83 | 37.62 | 40.77 | 43.13 | 44.71 | 48.65 | 49.43 | 53.53 | 56.52 | 58.10 | 64.40 | 72.27 | 80.15 | 81.72 |
| 1.829 | 41 | 4.110 | 75 | 7.519 | 26.09 | 30.19 | 34.13 | 34.92 | 38.07 | 40.44 | 42.01 | 45.95 | 46.74 | 50.84 | 53.83 | 55.41 | 61.71 | 69.59 | 77.46 | 79.04 |
| 1.846 | 26 | 2.607 | 48 | 4.812 | 29.43 | 33.53 | 37.46 | 38.25 | 41.40 | 43.76 | 45.34 | 49.28 | 50.07 | 54.16 | 57.15 | 58.73 | 65.03 | 72.90 | 80.78 | 82.36 |
| 1.852 | 27 | 2.707 | 50 | 5.013 | 29.19 | 33.29 | 37.22 | 38.01 | 41.17 | 43.53 | 45.10 | 49.04 | 49.83 | 53.92 | 56.92 | 58.49 | 64.79 | 72.67 | 80.54 | 82.12 |
| 1.853 | 34 | 3.409 | 63 | 6.316 | 27.60 | 31.70 | 35.64 | 36.43 | 39.58 | 41.94 | 43.52 | 47.46 | 48.25 | 52.34 | 55.33 | 56.91 | 63.21 | 71.09 | 78.96 | 80.54 |
| 1.861 | 36 | 3.609 | 67 | 6.717 | 27.12 | 31.22 | 35.16 | 35.95 | 39.10 | 41.47 | 43.04 | 46.98 | 47.77 | 51.87 | 54.86 | 56.43 | 62.74 | 70.61 | 78.49 | 80.06 |
| 1.864 | 22 | 2.206 | 41 | 4.110 | 30.30 | 34.40 | 38.33 | 39.12 | 42.27 | 44.63 | 46.21 | 50.15 | 50.94 | 55.03 | 58.02 | 59.60 | 65.90 | 73.77 | 81.65 | 83.22 |
| 1.867 | 30 | 3.008 | 56 | 5.614 | 28.47 | 32.57 | 36.51 | 37.30 | 40.45 | 42.81 | 44.39 | 48.33 | 49.12 | 53.21 | 56.20 | 57.78 | 64.08 | 71.96 | 79.83 | 81.41 |
| 1.867 | 60 | 6.015 | 112 | 11.229 | 21.57 | 25.69 | 29.65 | 30.44 | 33.60 | 35.97 | 37.55 | 41.49 | 42.28 | 46.38 | 49.38 | 50.95 | 57.26 | 65.14 | 73.03 | 74.60 |
| 1.867 | 75 | 7.519 | 140 | 14.036 | 18.05 | 22.20 | 26.17 | 26.97 | 30.14 | 32.51 | 34.09 | 38.05 | 38.84 | 42.95 | 45.95 | 47.52 | 53.84 | 61.72 | 69.61 | 71.19 |
| 1.868 | 38 | 3.810 | 71 | 7.118 | 26.64 | 30.74 | 34.68 | 35.47 | 38.63 | 40.99 | 42.57 | 46.51 | 47.29 | 51.39 | 54.38 | 55.96 | 62.26 | 70.14 | 78.01 | 79.59 |
| 1.875 | 32 | 3.208 | 60 | 6.015 | 28.00 | 32.10 | 36.03 | 36.82 | 39.98 | 42.34 | 43.91 | 47.86 | 48.64 | 52.74 | 55.73 | 57.30 | 63.61 | 71.48 | 79.36 | 80.93 |
| 1.875 | 40 | 4.010 | 75 | 7.519 | 26.16 | 30.26 | 34.21 | 35.00 | 38.15 | 40.51 | 42.09 | 46.03 | 46.82 | 50.91 | 53.91 | 55.48 | 61.79 | 69.66 | 77.54 | 79.12 |
| 1.875 | 48 | 4.812 | 90 | 9.023 | 24.32 | 28.43 | 32.37 | 33.16 | 36.32 | 38.68 | 40.26 | 44.20 | 44.99 | 49.09 | 52.08 | 53.66 | 59.96 | 67.84 | 75.72 | 77.30 |
| **Length Factor*** | | | | | **1.18** | **1.22** | **1.26** | **1.26** | **1.29** | **1.31** | **1.32** | **1.35** | **1.36** | **1.38** | **1.40** | **1.41** | **1.45** | **1.49** | **1.52** | **1.53** |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 640-8MX | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |
| 1.893 | 28 | 2.807 | 53 | 5.314 | 6.09 | 7.69 | 9.29 | 11.19 | 12.46 | 13.25 | 14.04 | 15.62 | 17.20 | 17.67 | 18.77 | 21.93 | 25.09 | 28.24 |
| 1.905 | 42 | 4.211 | 80 | 8.020 | – | – | – | 7.80 | 9.09 | 9.89 | 10.69 | 12.29 | 13.88 | 14.36 | 15.47 | 18.64 | 21.81 | 24.97 |
| 1.909 | 22 | 2.206 | 42 | 4.211 | 7.49 | 9.08 | 10.66 | 12.56 | 13.82 | 14.61 | 15.40 | 16.98 | 18.55 | 19.03 | 20.13 | 23.28 | 26.44 | 29.59 |
| 1.909 | 33 | 3.308 | 63 | 6.316 | – | 6.44 | 8.05 | 9.97 | 11.24 | 12.03 | 12.82 | 14.41 | 15.99 | 16.47 | 17.57 | 20.73 | 23.89 | 27.04 |
| 1.914 | 35 | 3.509 | 67 | 6.717 | – | 5.93 | 7.55 | 9.47 | 10.75 | 11.54 | 12.33 | 13.92 | 15.51 | 15.98 | 17.09 | 20.25 | 23.41 | 26.57 |
| 1.919 | 37 | 3.709 | 71 | 7.118 | – | – | 7.04 | 8.97 | 10.25 | 11.05 | 11.84 | 13.43 | 15.02 | 15.50 | 16.60 | 19.77 | 22.93 | 26.09 |
| 1.920 | 25 | 2.506 | 48 | 4.812 | 6.75 | 8.35 | 9.94 | 11.84 | 13.10 | 13.89 | 14.68 | 16.26 | 17.84 | 18.31 | 19.41 | 22.57 | 25.72 | 28.87 |
| 1.923 | 26 | 2.607 | 50 | 5.013 | 6.50 | 8.10 | 9.69 | 11.59 | 12.86 | 13.65 | 14.44 | 16.02 | 17.59 | 18.07 | 19.17 | 22.33 | 25.48 | 28.63 |
| 1.923 | 39 | 3.910 | 75 | 7.519 | – | – | 6.52 | 8.47 | 9.76 | 10.55 | 11.35 | 12.94 | 14.53 | 15.01 | 16.12 | 19.28 | 22.45 | 25.61 |
| 1.931 | 29 | 2.907 | 56 | 5.614 | 5.75 | 7.36 | 8.96 | 10.86 | 12.13 | 12.92 | 13.71 | 15.29 | 16.87 | 17.35 | 18.45 | 21.61 | 24.77 | 27.92 |
| 1.935 | 31 | 3.108 | 60 | 6.015 | 5.23 | 6.86 | 8.46 | 10.37 | 11.64 | 12.43 | 13.22 | 14.81 | 16.39 | 16.87 | 17.97 | 21.13 | 24.29 | 27.44 |
| 1.951 | 41 | 4.110 | 80 | 8.020 | – | – | – | 7.87 | 9.16 | 9.97 | 10.77 | 12.36 | 13.96 | 14.44 | 15.55 | 18.72 | 21.88 | 25.04 |
| 1.963 | 27 | 2.707 | 53 | 5.314 | 6.16 | 7.77 | 9.36 | 11.26 | 12.53 | 13.32 | 14.11 | 15.69 | 17.27 | 17.75 | 18.85 | 22.01 | 25.16 | 28.32 |
| 1.969 | 32 | 3.208 | 63 | 6.316 | – | 6.51 | 8.12 | 10.04 | 11.31 | 12.10 | 12.90 | 14.48 | 16.06 | 16.54 | 17.65 | 20.81 | 23.96 | 27.12 |
| 1.971 | 34 | 3.409 | 67 | 6.717 | – | 5.99 | 7.62 | 9.54 | 10.82 | 11.61 | 12.41 | 13.99 | 15.58 | 16.06 | 17.16 | 20.32 | 23.48 | 26.64 |
| 1.972 | 36 | 3.609 | 71 | 7.118 | – | – | 7.11 | 9.04 | 10.33 | 11.12 | 11.92 | 13.51 | 15.09 | 15.57 | 16.68 | 19.84 | 23.00 | 26.16 |
| 1.972 | 71 | 7.118 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 11.19 | 14.47 | 17.69 |
| 1.974 | 38 | 3.810 | 75 | 7.519 | – | – | 6.59 | 8.54 | 9.83 | 10.62 | 11.42 | 13.01 | 14.60 | 15.08 | 16.19 | 19.36 | 22.52 | 25.68 |
| 2.000 | 25 | 2.506 | 50 | 5.013 | 6.57 | 8.17 | 9.76 | 11.67 | 12.93 | 13.72 | 14.51 | 16.09 | 17.67 | 18.15 | 19.25 | 22.40 | 25.56 | 28.71 |
| 2.000 | 28 | 2.807 | 56 | 5.614 | 5.82 | 7.43 | 9.03 | 10.94 | 12.21 | 13.00 | 13.78 | 15.37 | 16.95 | 17.42 | 18.53 | 21.69 | 24.84 | 28.00 |
| 2.000 | 30 | 3.008 | 60 | 6.015 | 5.30 | 6.92 | 8.53 | 10.44 | 11.72 | 12.51 | 13.30 | 14.88 | 16.46 | 16.94 | 18.05 | 21.21 | 24.36 | 27.52 |
| 2.000 | 40 | 4.010 | 80 | 8.020 | – | – | – | 7.94 | 9.23 | 10.04 | 10.84 | 12.43 | 14.03 | 14.51 | 15.62 | 18.79 | 21.96 | 25.12 |
| 2.000 | 45 | 4.511 | 90 | 9.023 | – | – | – | – | 7.95 | 8.76 | 9.57 | 11.19 | 12.79 | 13.27 | 14.39 | 17.57 | 20.74 | 23.91 |
| 2.000 | 56 | 5.614 | 112 | 11.229 | – | – | – | – | – | – | – | – | 9.99 | 10.49 | 11.63 | 14.85 | 18.05 | 21.23 |
| 2.027 | 37 | 3.709 | 75 | 7.519 | – | – | 6.66 | 8.61 | 9.90 | 10.70 | 11.49 | 13.09 | 14.68 | 15.16 | 16.26 | 19.43 | 22.60 | 25.76 |
| 2.029 | 35 | 3.509 | 71 | 7.118 | – | – | 7.18 | 9.11 | 10.40 | 11.19 | 11.99 | 13.58 | 15.17 | 15.64 | 16.75 | 19.92 | 23.08 | 26.24 |
| 2.030 | 33 | 3.308 | 67 | 6.717 | – | 6.06 | 7.69 | 9.61 | 10.89 | 11.69 | 12.48 | 14.07 | 15.65 | 16.13 | 17.24 | 20.40 | 23.56 | 26.72 |
| 2.032 | 31 | 3.108 | 63 | 6.316 | – | 6.58 | 8.19 | 10.11 | 11.39 | 12.18 | 12.97 | 14.55 | 16.14 | 16.62 | 17.72 | 20.88 | 24.04 | 27.20 |
| 2.038 | 26 | 2.607 | 53 | 5.314 | 6.23 | 7.84 | 9.43 | 11.34 | 12.61 | 13.40 | 14.18 | 15.77 | 17.35 | 17.82 | 18.93 | 22.08 | 25.24 | 28.39 |
| 2.045 | 22 | 2.206 | 45 | 4.511 | 7.23 | 8.82 | 10.41 | 12.31 | 13.58 | 14.36 | 15.15 | 16.73 | 18.31 | 18.78 | 19.89 | 23.04 | 26.19 | 29.35 |
| 2.051 | 39 | 3.910 | 80 | 8.020 | – | – | – | 8.00 | 9.30 | 10.11 | 10.91 | 12.51 | 14.10 | 14.58 | 15.69 | 18.86 | 22.03 | 25.19 |
| 2.069 | 29 | 2.907 | 60 | 6.015 | 5.37 | 6.99 | 8.60 | 10.52 | 11.79 | 12.58 | 13.37 | 14.96 | 16.54 | 17.02 | 18.12 | 21.28 | 24.44 | 27.59 |
| 2.074 | 27 | 2.707 | 56 | 5.614 | 5.88 | 7.50 | 9.10 | 11.01 | 12.28 | 13.07 | 13.86 | 15.44 | 17.02 | 17.50 | 18.60 | 21.76 | 24.92 | 28.07 |
| 2.083 | 36 | 3.609 | 75 | 7.519 | – | – | 6.72 | 8.68 | 9.97 | 10.77 | 11.56 | 13.16 | 14.75 | 15.23 | 16.34 | 19.51 | 22.67 | 25.83 |
| 2.088 | 34 | 3.409 | 71 | 7.118 | – | – | 7.24 | 9.18 | 10.47 | 11.26 | 12.06 | 13.65 | 15.24 | 15.72 | 16.82 | 19.99 | 23.15 | 26.31 |
| 2.090 | 67 | 6.717 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 11.46 | 14.74 | 17.97 |
| 2.094 | 32 | 3.208 | 67 | 6.717 | – | 6.13 | 7.76 | 9.69 | 10.96 | 11.76 | 12.55 | 14.14 | 15.73 | 16.20 | 17.31 | 20.47 | 23.63 | 26.79 |
| 2.100 | 30 | 3.008 | 63 | 6.316 | – | 6.65 | 8.26 | 10.18 | 11.46 | 12.25 | 13.04 | 14.63 | 16.21 | 16.69 | 17.80 | 20.96 | 24.12 | 27.27 |
| 2.105 | 38 | 3.810 | 80 | 8.020 | – | – | – | 8.07 | 9.37 | 10.18 | 10.98 | 12.58 | 14.17 | 14.65 | 15.76 | 18.94 | 22.10 | 25.27 |
| 2.113 | 53 | 5.314 | 112 | 11.229 | – | – | – | – | – | – | – | – | 10.20 | 10.69 | 11.83 | 15.06 | 18.26 | 21.45 |
| 2.120 | 25 | 2.506 | 53 | 5.314 | 6.30 | 7.91 | 9.50 | 11.41 | 12.68 | 13.47 | 14.26 | 15.84 | 17.42 | 17.90 | 19.00 | 22.16 | 25.31 | 28.47 |
| 2.143 | 28 | 2.807 | 60 | 6.015 | 5.43 | 7.06 | 8.67 | 10.59 | 11.86 | 12.65 | 13.45 | 15.03 | 16.61 | 17.09 | 18.20 | 21.36 | 24.51 | 27.67 |
| 2.143 | 35 | 3.509 | 75 | 7.519 | – | – | 6.79 | 8.75 | 10.04 | 10.84 | 11.64 | 13.23 | 14.82 | 15.30 | 16.41 | 19.58 | 22.75 | 25.91 |
| 2.143 | 42 | 4.211 | 90 | 9.023 | – | – | – | – | 8.15 | 8.97 | 9.78 | 11.40 | 13.00 | 13.49 | 14.60 | 17.79 | 20.96 | 24.13 |
| 2.152 | 33 | 3.308 | 71 | 7.118 | – | – | 7.31 | 9.25 | 10.54 | 11.34 | 12.13 | 13.72 | 15.31 | 15.79 | 16.90 | 20.07 | 23.23 | 26.39 |
| 2.154 | 26 | 2.607 | 56 | 5.614 | 5.95 | 7.57 | 9.17 | 11.08 | 12.35 | 13.14 | 13.93 | 15.52 | 17.10 | 17.57 | 18.68 | 21.84 | 24.99 | 28.15 |
| 2.161 | 31 | 3.108 | 67 | 6.717 | – | 6.19 | 7.82 | 9.76 | 11.04 | 11.83 | 12.62 | 14.21 | 15.80 | 16.28 | 17.38 | 20.55 | 23.71 | 26.87 |
| 2.162 | 37 | 3.709 | 80 | 8.020 | – | – | – | 8.14 | 9.44 | 10.25 | 11.05 | 12.65 | 14.24 | 14.73 | 15.84 | 19.01 | 22.18 | 25.34 |
| 2.172 | 29 | 2.907 | 63 | 6.316 | – | 6.71 | 8.33 | 10.25 | 11.53 | 12.32 | 13.12 | 14.70 | 16.29 | 16.76 | 17.87 | 21.03 | 24.19 | 27.35 |
| 2.182 | 22 | 2.206 | 48 | 4.812 | 6.97 | 8.56 | 10.15 | 12.06 | 13.32 | 14.11 | 14.90 | 16.48 | 18.06 | 18.54 | 19.64 | 22.80 | 25.95 | 29.10 |
| 2.195 | 41 | 4.110 | 90 | 9.023 | – | – | – | 6.88 | 8.22 | 9.03 | 9.85 | 11.47 | 13.07 | 13.56 | 14.67 | 17.86 | 21.04 | 24.21 |
| 2.206 | 34 | 3.409 | 75 | 7.519 | – | – | 6.86 | 8.82 | 10.11 | 10.91 | 11.71 | 13.30 | 14.90 | 15.37 | 16.48 | 19.65 | 22.82 | 25.98 |
| 2.219 | 32 | 3.208 | 71 | 7.118 | – | 5.73 | 7.38 | 9.32 | 10.61 | 11.41 | 12.20 | 13.80 | 15.39 | 15.86 | 16.97 | 20.14 | 23.30 | 26.46 |
| 2.222 | 27 | 2.707 | 60 | 6.015 | 5.50 | 7.13 | 8.74 | 10.66 | 11.93 | 12.73 | 13.52 | 15.10 | 16.69 | 17.17 | 18.27 | 21.43 | 24.59 | 27.75 |
| 2.222 | 36 | 3.609 | 80 | 8.020 | – | – | – | 8.21 | 9.51 | 10.31 | 11.12 | 12.72 | 14.32 | 14.80 | 15.91 | 19.08 | 22.25 | 25.42 |
| 2.222 | 63 | 6.316 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 11.72 | 15.01 | 18.25 |
| 2.233 | 30 | 3.008 | 67 | 6.717 | – | 6.26 | 7.89 | 9.83 | 11.11 | 11.90 | 12.70 | 14.29 | 15.87 | 16.35 | 17.46 | 20.62 | 23.78 | 26.94 |
| 2.240 | 25 | 2.506 | 56 | 5.614 | 6.02 | 7.64 | 9.24 | 11.15 | 12.43 | 13.22 | 14.01 | 15.59 | 17.17 | 17.65 | 18.75 | 21.91 | 25.07 | 28.22 |
| 2.240 | 50 | 5.013 | 112 | 11.229 | – | – | – | – | – | – | – | 8.73 | 10.40 | 10.89 | 12.03 | 15.27 | 18.48 | 21.67 |
| 2.250 | 28 | 2.807 | 63 | 6.316 | 5.13 | 6.78 | 8.40 | 10.33 | 11.60 | 12.40 | 13.19 | 14.78 | 16.36 | 16.84 | 17.94 | 21.11 | 24.27 | 27.42 |
| 2.250 | 40 | 4.010 | 90 | 9.023 | – | – | – | 6.95 | 8.28 | 9.10 | 9.92 | 11.54 | 13.14 | 13.63 | 14.75 | 17.93 | 21.11 | 24.28 |
| 2.250 | 80 | 8.020 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.273 | 22 | 2.206 | 50 | 5.013 | 6.78 | 8.39 | 9.98 | 11.89 | 13.16 | 13.94 | 14.73 | 16.31 | 17.90 | 18.37 | 19.47 | 22.63 | 25.79 | 28.94 |
| 2.273 | 33 | 3.308 | 75 | 7.519 | – | – | 6.92 | 8.89 | 10.18 | 10.98 | 11.78 | 13.38 | 14.97 | 15.45 | 16.56 | 19.73 | 22.89 | 26.06 |
| 2.286 | 35 | 3.509 | 80 | 8.020 | – | – | 6.29 | 8.28 | 9.58 | 10.38 | 11.19 | 12.79 | 14.39 | 14.87 | 15.98 | 19.16 | 22.33 | 25.49 |
| 2.290 | 31 | 3.108 | 71 | 7.118 | – | 5.79 | 7.45 | 9.39 | 10.68 | 11.48 | 12.27 | 13.87 | 15.46 | 15.94 | 17.05 | 20.21 | 23.38 | 26.54 |
| 2.308 | 26 | 2.607 | 60 | 6.015 | 5.57 | 7.20 | 8.81 | 10.73 | 12.01 | 12.80 | 13.59 | 15.18 | 16.76 | 17.24 | 18.34 | 21.51 | 24.66 | 27.82 |
| 2.308 | 39 | 3.910 | 90 | 9.023 | – | – | – | 7.01 | 8.35 | 9.17 | 9.98 | 11.60 | 13.21 | 13.70 | 14.82 | 18.01 | 21.18 | 24.35 |
| 2.310 | 29 | 2.907 | 67 | 6.717 | – | 6.33 | 7.96 | 9.90 | 11.18 | 11.97 | 12.77 | 14.36 | 15.95 | 16.43 | 17.53 | 20.70 | 23.86 | 27.02 |
| 2.333 | 27 | 2.707 | 63 | 6.316 | 5.20 | 6.85 | 8.47 | 10.40 | 11.67 | 12.47 | 13.26 | 14.85 | 16.43 | 16.91 | 18.02 | 21.18 | 24.34 | 27.50 |
| 2.333 | 48 | 4.812 | 112 | 11.229 | – | – | – | – | – | – | – | 8.86 | 10.53 | 11.03 | 12.17 | 15.41 | 18.62 | 21.81 |
| 2.333 | 60 | 6.015 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 11.92 | 15.22 | 18.46 |
| 2.344 | 32 | 3.208 | 75 | 7.519 | – | – | 6.99 | 8.95 | 10.25 | 11.05 | 11.85 | 13.45 | 15.04 | 15.52 | 16.63 | 19.80 | 22.97 | 26.13 |
| 2.353 | 34 | 3.409 | 80 | 8.020 | – | – | 6.35 | 8.34 | 9.65 | 10.45 | 11.26 | 12.86 | 14.46 | 14.94 | 16.05 | 19.23 | 22.40 | 25.56 |
| 2.367 | 30 | 3.008 | 71 | 7.118 | – | 5.86 | 7.51 | 9.46 | 10.75 | 11.55 | 12.35 | 13.94 | 15.53 | 16.01 | 17.12 | 20.29 | 23.45 | 26.61 |
| 2.368 | 38 | 3.810 | 90 | 9.023 | – | – | – | 7.08 | 8.41 | 9.24 | 10.05 | 11.67 | 13.28 | 13.77 | 14.89 | 18.08 | 21.26 | 24.43 |
| 2.393 | 28 | 2.807 | 67 | 6.717 | – | 6.39 | 8.03 | 9.97 | 11.25 | 12.05 | 12.84 | 14.43 | 16.02 | 16.50 | 17.61 | 20.77 | 23.93 | 27.09 |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1792-8MX | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |
| 1.893 | 28 | 2.807 | 53 | 5.314 | 28.87 | 32.97 | 36.91 | 37.70 | 40.85 | 43.21 | 44.78 | 48.73 | 49.51 | 53.61 | 56.60 | 58.17 | 64.47 | 72.35 | 80.23 | 81.80 |
| 1.905 | 42 | 4.211 | 80 | 8.020 | 25.60 | 29.70 | 33.64 | 34.44 | 37.59 | 39.95 | 41.53 | 45.47 | 46.26 | 50.36 | 53.35 | 54.93 | 61.23 | 69.11 | 76.99 | 78.56 |
| 1.909 | 22 | 2.206 | 42 | 4.211 | 30.22 | 34.32 | 38.25 | 39.04 | 42.19 | 44.55 | 46.13 | 50.07 | 50.86 | 54.95 | 57.94 | 59.52 | 65.82 | 73.69 | 81.57 | 83.14 |
| 1.909 | 33 | 3.308 | 63 | 6.316 | 27.68 | 31.78 | 35.71 | 36.51 | 39.66 | 42.02 | 43.60 | 47.54 | 48.32 | 52.42 | 55.41 | 56.99 | 63.29 | 71.17 | 79.04 | 80.62 |
| 1.914 | 35 | 3.509 | 67 | 6.717 | 27.20 | 31.30 | 35.24 | 36.03 | 39.18 | 41.54 | 43.12 | 47.06 | 47.85 | 51.94 | 54.94 | 56.51 | 62.81 | 70.69 | 78.57 | 80.14 |
| 1.919 | 37 | 3.709 | 71 | 7.118 | 26.72 | 30.82 | 34.76 | 35.55 | 38.70 | 41.07 | 42.64 | 46.59 | 47.37 | 51.47 | 54.46 | 56.04 | 62.34 | 70.22 | 78.09 | 79.67 |
| 1.920 | 25 | 2.506 | 48 | 4.812 | 29.50 | 33.60 | 37.54 | 38.33 | 41.48 | 43.84 | 45.42 | 49.36 | 50.14 | 54.24 | 57.23 | 58.81 | 65.11 | 72.98 | 80.86 | 82.43 |
| 1.923 | 26 | 2.607 | 50 | 5.013 | 29.27 | 33.36 | 37.30 | 38.09 | 41.24 | 43.60 | 45.18 | 49.12 | 49.91 | 54.00 | 56.99 | 58.57 | 64.87 | 72.75 | 80.62 | 82.20 |
| 1.923 | 39 | 3.910 | 75 | 7.519 | 26.24 | 30.34 | 34.28 | 35.07 | 38.23 | 40.59 | 42.17 | 46.11 | 46.89 | 50.99 | 53.98 | 55.56 | 61.86 | 69.74 | 77.62 | 79.19 |
| 1.931 | 29 | 2.907 | 56 | 5.614 | 28.55 | 32.65 | 36.59 | 37.38 | 40.53 | 42.89 | 44.47 | 48.41 | 49.19 | 53.29 | 56.28 | 57.86 | 64.16 | 72.03 | 79.91 | 81.49 |
| 1.935 | 31 | 3.108 | 60 | 6.015 | 28.07 | 32.17 | 36.11 | 36.90 | 40.05 | 42.41 | 43.99 | 47.93 | 48.72 | 52.81 | 55.81 | 57.38 | 63.68 | 71.56 | 79.44 | 81.01 |
| 1.951 | 41 | 4.110 | 80 | 8.020 | 25.67 | 29.78 | 33.72 | 34.51 | 37.67 | 40.03 | 41.61 | 45.55 | 46.34 | 50.44 | 53.43 | 55.00 | 61.31 | 69.19 | 77.06 | 78.64 |
| 1.963 | 27 | 2.707 | 53 | 5.314 | 28.95 | 33.04 | 36.98 | 37.77 | 40.92 | 43.29 | 44.86 | 48.80 | 49.59 | 53.68 | 56.68 | 58.25 | 64.55 | 72.43 | 80.30 | 81.88 |
| 1.969 | 32 | 3.208 | 63 | 6.316 | 27.75 | 31.85 | 35.79 | 36.58 | 39.73 | 42.10 | 43.67 | 47.61 | 48.40 | 52.50 | 55.49 | 57.06 | 63.37 | 71.24 | 79.12 | 80.69 |
| 1.971 | 34 | 3.409 | 67 | 6.717 | 27.27 | 31.37 | 35.31 | 36.10 | 39.26 | 41.62 | 43.20 | 47.14 | 47.92 | 52.02 | 55.01 | 56.59 | 62.89 | 70.77 | 78.64 | 80.22 |
| 1.972 | 36 | 3.609 | 71 | 7.118 | 26.79 | 30.90 | 34.84 | 35.63 | 38.78 | 41.14 | 42.72 | 46.66 | 47.45 | 51.55 | 54.54 | 56.11 | 62.42 | 70.29 | 78.17 | 79.75 |
| 1.972 | 71 | 7.118 | 140 | 14.036 | 18.33 | 22.49 | 26.46 | 27.26 | 30.43 | 32.81 | 34.39 | 38.35 | 39.14 | 43.25 | 46.25 | 47.83 | 54.14 | 62.03 | 69.92 | 71.49 |
| 1.974 | 38 | 3.810 | 75 | 7.519 | 26.31 | 30.42 | 34.36 | 35.15 | 38.30 | 40.66 | 42.24 | 46.18 | 46.97 | 51.07 | 54.06 | 55.64 | 61.94 | 69.82 | 77.70 | 79.27 |
| 2.000 | 25 | 2.506 | 50 | 5.013 | 29.34 | 33.44 | 37.38 | 38.17 | 41.32 | 43.68 | 45.26 | 49.20 | 49.98 | 54.08 | 57.07 | 58.65 | 64.95 | 72.82 | 80.70 | 82.28 |
| 2.000 | 28 | 2.807 | 56 | 5.614 | 28.63 | 32.73 | 36.66 | 37.45 | 40.61 | 42.97 | 44.54 | 48.49 | 49.27 | 53.37 | 56.36 | 57.93 | 64.24 | 72.11 | 79.99 | 81.56 |
| 2.000 | 30 | 3.008 | 60 | 6.015 | 28.15 | 32.25 | 36.19 | 36.98 | 40.13 | 42.49 | 44.07 | 48.01 | 48.80 | 52.89 | 55.88 | 57.46 | 63.76 | 71.64 | 79.51 | 81.09 |
| 2.000 | 40 | 4.010 | 80 | 8.020 | 25.75 | 29.85 | 33.80 | 34.59 | 37.74 | 40.11 | 41.68 | 45.63 | 46.41 | 50.51 | 53.50 | 55.08 | 61.38 | 69.26 | 77.14 | 78.72 |
| 2.000 | 45 | 4.511 | 90 | 9.023 | 24.54 | 28.65 | 32.60 | 33.39 | 36.55 | 38.91 | 40.49 | 44.43 | 45.22 | 49.32 | 52.31 | 53.89 | 60.19 | 68.07 | 75.95 | 77.53 |
| 2.000 | 56 | 5.614 | 112 | 11.229 | 21.87 | 25.99 | 29.94 | 30.74 | 33.90 | 36.27 | 37.85 | 41.80 | 42.58 | 46.69 | 49.68 | 51.26 | 57.57 | 65.45 | 73.33 | 74.91 |
| 2.027 | 37 | 3.709 | 75 | 7.519 | 26.39 | 30.49 | 34.43 | 35.23 | 38.38 | 40.74 | 42.32 | 46.26 | 47.05 | 51.15 | 54.14 | 55.71 | 62.02 | 69.90 | 77.77 | 79.35 |
| 2.029 | 35 | 3.509 | 71 | 7.118 | 26.87 | 30.97 | 34.91 | 35.70 | 38.86 | 41.22 | 42.80 | 46.74 | 47.52 | 51.62 | 54.61 | 56.19 | 62.49 | 70.37 | 78.25 | 79.82 |
| 2.030 | 33 | 3.308 | 67 | 6.717 | 27.35 | 31.45 | 35.39 | 36.18 | 39.33 | 41.70 | 43.27 | 47.22 | 48.00 | 52.10 | 55.09 | 56.67 | 62.97 | 70.85 | 78.72 | 80.30 |
| 2.032 | 31 | 3.108 | 63 | 6.316 | 27.83 | 31.93 | 35.87 | 36.66 | 39.81 | 42.17 | 43.75 | 47.69 | 48.48 | 52.57 | 55.57 | 57.14 | 63.44 | 71.32 | 79.20 | 80.77 |
| 2.038 | 26 | 2.607 | 53 | 5.314 | 29.02 | 33.12 | 37.06 | 37.85 | 41.00 | 43.36 | 44.94 | 48.88 | 49.67 | 53.76 | 56.75 | 58.33 | 64.63 | 72.51 | 80.38 | 81.96 |
| 2.045 | 22 | 2.206 | 45 | 4.511 | 29.98 | 34.07 | 38.01 | 38.80 | 41.95 | 44.31 | 45.89 | 49.83 | 50.62 | 54.71 | 57.70 | 59.28 | 65.58 | 73.46 | 81.33 | 82.91 |
| 2.051 | 39 | 3.910 | 80 | 8.020 | 25.82 | 29.93 | 33.87 | 34.66 | 37.82 | 40.18 | 41.76 | 45.70 | 46.49 | 50.59 | 53.58 | 55.16 | 61.46 | 69.34 | 77.22 | 78.79 |
| 2.069 | 29 | 2.907 | 60 | 6.015 | 28.22 | 32.33 | 36.26 | 37.06 | 40.21 | 42.57 | 44.15 | 48.09 | 48.87 | 52.97 | 55.96 | 57.54 | 63.84 | 71.72 | 79.59 | 81.17 |
| 2.074 | 27 | 2.707 | 56 | 5.614 | 28.70 | 32.80 | 36.74 | 37.53 | 40.68 | 43.05 | 44.62 | 48.56 | 49.35 | 53.44 | 56.44 | 58.01 | 64.31 | 72.19 | 80.07 | 81.64 |
| 2.083 | 36 | 3.609 | 75 | 7.519 | 26.46 | 30.57 | 34.51 | 35.30 | 38.46 | 40.82 | 42.40 | 46.34 | 47.12 | 51.22 | 54.21 | 55.79 | 62.09 | 69.97 | 77.85 | 79.43 |
| 2.088 | 34 | 3.409 | 71 | 7.118 | 26.94 | 31.05 | 34.99 | 35.78 | 38.93 | 41.30 | 42.87 | 46.82 | 47.60 | 51.70 | 54.69 | 56.27 | 62.57 | 70.45 | 78.33 | 79.90 |
| 2.090 | 67 | 6.717 | 140 | 14.036 | 18.61 | 22.78 | 26.75 | 27.55 | 30.73 | 33.10 | 34.69 | 38.65 | 39.44 | 43.55 | 46.55 | 48.13 | 54.44 | 62.33 | 70.22 | 71.80 |
| 2.094 | 32 | 3.208 | 67 | 6.717 | 27.42 | 31.53 | 35.47 | 36.26 | 39.41 | 41.77 | 43.35 | 47.29 | 48.08 | 52.18 | 55.17 | 56.74 | 63.05 | 70.92 | 78.80 | 80.38 |
| 2.100 | 30 | 3.008 | 63 | 6.316 | 27.90 | 32.00 | 35.94 | 36.73 | 39.89 | 42.25 | 43.83 | 47.77 | 48.55 | 52.65 | 55.64 | 57.22 | 63.52 | 71.40 | 79.27 | 80.85 |
| 2.105 | 38 | 3.810 | 80 | 8.020 | 25.90 | 30.00 | 33.95 | 34.74 | 37.90 | 40.26 | 41.84 | 45.78 | 46.57 | 50.67 | 53.66 | 55.23 | 61.54 | 69.42 | 77.30 | 78.87 |
| 2.113 | 53 | 5.314 | 112 | 11.229 | 22.08 | 26.21 | 30.17 | 30.96 | 34.12 | 36.49 | 38.07 | 42.02 | 42.81 | 46.91 | 49.91 | 51.49 | 57.80 | 65.68 | 73.56 | 75.14 |
| 2.120 | 25 | 2.506 | 53 | 5.314 | 29.10 | 33.20 | 37.14 | 37.93 | 41.08 | 43.44 | 45.02 | 48.96 | 49.74 | 53.84 | 56.83 | 58.41 | 64.71 | 72.58 | 80.46 | 82.04 |
| 2.143 | 28 | 2.807 | 60 | 6.015 | 28.30 | 32.40 | 36.34 | 37.13 | 40.28 | 42.65 | 44.22 | 48.16 | 48.95 | 53.05 | 56.04 | 57.61 | 63.92 | 71.79 | 79.67 | 81.25 |
| 2.143 | 35 | 3.509 | 75 | 7.519 | 26.54 | 30.64 | 34.59 | 35.38 | 38.53 | 40.89 | 42.47 | 46.42 | 47.20 | 51.30 | 54.29 | 55.87 | 62.17 | 70.05 | 77.93 | 79.50 |
| 2.143 | 42 | 4.211 | 90 | 9.023 | 24.76 | 28.88 | 32.82 | 33.61 | 36.77 | 39.14 | 40.71 | 44.66 | 45.45 | 49.55 | 52.54 | 54.12 | 60.42 | 68.30 | 76.18 | 77.76 |
| 2.152 | 33 | 3.308 | 71 | 7.118 | 27.02 | 31.12 | 35.06 | 35.86 | 39.01 | 41.37 | 42.95 | 46.89 | 47.68 | 51.78 | 54.77 | 56.34 | 62.65 | 70.53 | 78.40 | 79.98 |
| 2.154 | 26 | 2.607 | 56 | 5.614 | 28.78 | 32.88 | 36.82 | 37.61 | 40.76 | 43.12 | 44.70 | 48.64 | 49.43 | 53.52 | 56.51 | 58.09 | 64.39 | 72.27 | 80.14 | 81.72 |
| 2.161 | 31 | 3.108 | 67 | 6.717 | 27.50 | 31.60 | 35.54 | 36.33 | 39.49 | 41.85 | 43.43 | 47.37 | 48.15 | 52.25 | 55.24 | 56.82 | 63.12 | 71.00 | 78.88 | 80.45 |
| 2.162 | 37 | 3.709 | 80 | 8.020 | 25.97 | 30.08 | 34.02 | 34.82 | 37.97 | 40.34 | 41.91 | 45.86 | 46.64 | 50.74 | 53.73 | 55.31 | 61.62 | 69.49 | 77.37 | 78.95 |
| 2.172 | 29 | 2.907 | 63 | 6.316 | 27.98 | 32.08 | 36.02 | 36.81 | 39.96 | 42.33 | 43.90 | 47.85 | 48.63 | 52.73 | 55.72 | 57.30 | 63.60 | 71.48 | 79.35 | 80.93 |
| 2.182 | 22 | 2.206 | 48 | 4.812 | 29.73 | 33.83 | 37.77 | 38.56 | 41.71 | 44.07 | 45.65 | 49.59 | 50.38 | 54.47 | 57.46 | 59.04 | 65.34 | 73.22 | 81.09 | 82.67 |
| 2.195 | 41 | 4.110 | 90 | 9.023 | 24.84 | 28.95 | 32.90 | 33.69 | 36.85 | 39.21 | 40.79 | 44.74 | 45.52 | 49.62 | 52.62 | 54.19 | 60.50 | 68.38 | 76.26 | 77.84 |
| 2.206 | 34 | 3.409 | 75 | 7.519 | 26.61 | 30.72 | 34.66 | 35.45 | 38.61 | 40.97 | 42.55 | 46.49 | 47.28 | 51.38 | 54.37 | 55.94 | 62.25 | 70.13 | 78.01 | 79.58 |
| 2.219 | 32 | 3.208 | 71 | 7.118 | 27.09 | 31.20 | 35.14 | 35.93 | 39.09 | 41.45 | 43.03 | 46.97 | 47.75 | 51.85 | 54.85 | 56.42 | 62.72 | 70.60 | 78.48 | 80.06 |
| 2.222 | 27 | 2.707 | 60 | 6.015 | 28.38 | 32.48 | 36.42 | 37.21 | 40.36 | 42.72 | 44.30 | 48.24 | 49.03 | 53.12 | 56.12 | 57.69 | 63.99 | 71.87 | 79.75 | 81.32 |
| 2.222 | 36 | 3.609 | 80 | 8.020 | 26.05 | 30.16 | 34.10 | 34.89 | 38.05 | 40.41 | 41.99 | 45.93 | 46.72 | 50.82 | 53.81 | 55.39 | 61.69 | 69.57 | 77.45 | 79.03 |
| 2.222 | 63 | 6.316 | 140 | 14.036 | 18.89 | 23.06 | 27.04 | 27.84 | 31.02 | 33.40 | 34.98 | 38.94 | 39.73 | 43.85 | 46.85 | 48.43 | 54.74 | 62.64 | 70.52 | 72.10 |
| 2.233 | 30 | 3.008 | 67 | 6.717 | 27.57 | 31.68 | 35.62 | 36.41 | 39.56 | 41.93 | 43.50 | 47.45 | 48.23 | 52.33 | 55.32 | 56.90 | 63.20 | 71.08 | 78.96 | 80.53 |
| 2.240 | 25 | 2.506 | 56 | 5.614 | 28.86 | 32.96 | 36.89 | 37.69 | 40.84 | 43.20 | 44.78 | 48.72 | 49.50 | 53.60 | 56.59 | 58.17 | 64.47 | 72.35 | 80.22 | 81.80 |
| 2.240 | 50 | 5.013 | 112 | 11.229 | 22.30 | 26.43 | 30.39 | 31.18 | 34.35 | 36.72 | 38.30 | 42.25 | 43.04 | 47.14 | 50.14 | 51.72 | 58.03 | 65.91 | 73.79 | 75.37 |
| 2.250 | 28 | 2.807 | 63 | 6.316 | 28.05 | 32.16 | 36.10 | 36.89 | 40.04 | 42.40 | 43.98 | 47.92 | 48.71 | 52.81 | 55.80 | 57.37 | 63.68 | 71.55 | 79.43 | 81.01 |
| 2.250 | 40 | 4.010 | 90 | 9.023 | 24.91 | 29.03 | 32.97 | 33.77 | 36.92 | 39.29 | 40.87 | 44.81 | 45.60 | 49.70 | 52.69 | 54.27 | 60.58 | 68.46 | 76.34 | 77.91 |
| 2.250 | 80 | 8.020 | 180 | 18.046 | 13.89 | 18.20 | 22.27 | 23.08 | 26.29 | 28.69 | 30.29 | 34.28 | 35.07 | 39.21 | 42.22 | 43.81 | 50.14 | 58.05 | 65.95 | 67.53 |
| 2.273 | 22 | 2.206 | 50 | 5.013 | 29.57 | 33.67 | 37.61 | 38.40 | 41.55 | 43.91 | 45.49 | 49.43 | 50.22 | 54.31 | 57.30 | 58.88 | 65.18 | 73.06 | 80.93 | 82.51 |
| 2.273 | 33 | 3.308 | 75 | 7.519 | 26.69 | 30.79 | 34.74 | 35.53 | 38.68 | 41.05 | 42.62 | 46.57 | 47.35 | 51.45 | 54.45 | 56.02 | 62.33 | 70.20 | 78.08 | 79.66 |
| 2.286 | 35 | 3.509 | 80 | 8.020 | 26.12 | 30.23 | 34.18 | 34.97 | 38.12 | 40.49 | 42.06 | 46.01 | 46.80 | 50.90 | 53.89 | 55.46 | 61.77 | 69.65 | 77.53 | 79.10 |
| 2.290 | 31 | 3.108 | 71 | 7.118 | 27.17 | 31.27 | 35.22 | 36.01 | 39.16 | 41.53 | 43.10 | 47.05 | 47.83 | 51.93 | 54.92 | 56.50 | 62.80 | 70.68 | 78.56 | 80.13 |
| 2.308 | 26 | 2.607 | 60 | 6.015 | 28.45 | 32.55 | 36.49 | 37.28 | 40.44 | 42.80 | 44.38 | 48.32 | 49.10 | 53.20 | 56.19 | 57.77 | 64.07 | 71.95 | 79.83 | 81.40 |
| 2.308 | 39 | 3.910 | 90 | 9.023 | 24.99 | 29.10 | 33.05 | 33.84 | 37.00 | 39.36 | 40.94 | 44.89 | 45.68 | 49.78 | 52.77 | 54.35 | 60.65 | 68.53 | 76.41 | 77.99 |
| 2.310 | 29 | 2.907 | 67 | 6.717 | 27.65 | 31.75 | 35.70 | 36.49 | 39.64 | 42.00 | 43.58 | 47.52 | 48.31 | 52.41 | 55.40 | 56.97 | 63.28 | 71.16 | 79.03 | 80.61 |
| 2.333 | 27 | 2.707 | 63 | 6.316 | 28.13 | 32.23 | 36.17 | 36.96 | 40.12 | 42.48 | 44.06 | 48.00 | 48.78 | 52.88 | 55.87 | 57.45 | 63.75 | 71.63 | 79.51 | 81.08 |
| 2.333 | 48 | 4.812 | 112 | 11.229 | 22.45 | 26.58 | 30.54 | 31.33 | 34.50 | 36.87 | 38.45 | 42.40 | 43.19 | 47.29 | 50.29 | 51.87 | 58.18 | 66.06 | 73.95 | 75.52 |
| 2.333 | 60 | 6.015 | 140 | 14.036 | 19.10 | 23.28 | 27.26 | 28.06 | 31.24 | 33.62 | 35.20 | 39.17 | 39.96 | 44.07 | 47.07 | 48.65 | 54.97 | 62.86 | 70.75 | 72.33 |
| 2.344 | 32 | 3.208 | 75 | 7.519 | 26.76 | 30.87 | 34.81 | 35.60 | 38.76 | 41.12 | 42.70 | 46.65 | 47.43 | 51.53 | 54.52 | 56.10 | 62.40 | 70.28 | 78.16 | 79.74 |
| 2.353 | 34 | 3.409 | 80 | 8.020 | 26.20 | 30.31 | 34.25 | 35.04 | 38.20 | 40.56 | 42.14 | 46.09 | 46.87 | 50.97 | 53.96 | 55.54 | 61.85 | 69.73 | 77.60 | 79.18 |
| 2.367 | 30 | 3.008 | 71 | 7.118 | 27.24 | 31.35 | 35.29 | 36.08 | 39.24 | 41.60 | 43.18 | 47.12 | 47.91 | 52.01 | 55.00 | 56.57 | 62.88 | 70.76 | 78.64 | 80.21 |
| 2.368 | 38 | 3.810 | 90 | 9.023 | 25.06 | 29.17 | 33.12 | 33.92 | 37.07 | 39.44 | 41.02 | 44.97 | 45.75 | 49.85 | 52.85 | 54.42 | 60.73 | 68.61 | 76.49 | 78.07 |
| 2.393 | 28 | 2.807 | 67 | 6.717 | 27.73 | 31.83 | 35.77 | 36.56 | 39.72 | 42.08 | 43.66 | 47.60 | 48.39 | 52.48 | 55.48 | 57.05 | 63.35 | 71.23 | 79.11 | 80.69 |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 640-8MX | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |
| 2.400 | 25 | 2.506 | 60 | 6.015 | 5.63 | 7.27 | 8.88 | 10.80 | 12.08 | 12.87 | 13.66 | 15.25 | 16.84 | 17.31 | 18.42 | 21.58 | 24.74 | 27.90 |
| 2.400 | 75 | 7.519 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 13.53 |
| 2.409 | 22 | 2.206 | 53 | 5.314 | 6.51 | 8.12 | 9.72 | 11.63 | 12.90 | 13.69 | 14.48 | 16.06 | 17.65 | 18.12 | 19.23 | 22.38 | 25.54 | 28.70 |
| 2.419 | 31 | 3.108 | 75 | 7.519 | – | – | 7.06 | 9.02 | 10.32 | 11.12 | 11.92 | 13.52 | 15.11 | 15.59 | 16.70 | 19.88 | 23.04 | 26.21 |
| 2.423 | 26 | 2.607 | 63 | 6.316 | 5.26 | 6.92 | 8.54 | 10.47 | 11.75 | 12.54 | 13.33 | 14.92 | 16.51 | 16.99 | 18.09 | 21.26 | 24.42 | 27.57 |
| 2.424 | 33 | 3.308 | 80 | 8.020 | – | – | 6.42 | 8.41 | 9.72 | 10.52 | 11.33 | 12.93 | 14.53 | 15.01 | 16.13 | 19.30 | 22.47 | 25.64 |
| 2.432 | 37 | 3.709 | 90 | 9.023 | – | – | – | 7.14 | 8.48 | 9.30 | 10.12 | 11.74 | 13.36 | 13.84 | 14.96 | 18.15 | 21.33 | 24.50 |
| 2.448 | 29 | 2.907 | 71 | 7.118 | – | 5.92 | 7.58 | 9.53 | 10.82 | 11.62 | 12.42 | 14.01 | 15.60 | 16.08 | 17.19 | 20.36 | 23.53 | 26.69 |
| 2.481 | 27 | 2.707 | 67 | 6.717 | – | 6.46 | 8.10 | 10.04 | 11.32 | 12.12 | 12.91 | 14.50 | 16.09 | 16.57 | 17.68 | 20.85 | 24.01 | 27.17 |
| 2.489 | 45 | 4.511 | 112 | 11.229 | – | – | – | – | – | – | – | 9.05 | 10.73 | 11.23 | 12.37 | 15.62 | 18.83 | 22.03 |
| 2.500 | 30 | 3.008 | 75 | 7.519 | – | – | 7.12 | 9.09 | 10.39 | 11.19 | 11.99 | 13.59 | 15.18 | 15.66 | 16.78 | 19.95 | 23.12 | 26.28 |
| 2.500 | 32 | 3.208 | 80 | 8.020 | – | – | 6.48 | 8.48 | 9.78 | 10.59 | 11.40 | 13.00 | 14.60 | 15.08 | 16.20 | 19.38 | 22.55 | 25.71 |
| 2.500 | 36 | 3.609 | 90 | 9.023 | – | – | – | 7.20 | 8.55 | 9.37 | 10.19 | 11.81 | 13.43 | 13.91 | 15.03 | 18.22 | 21.40 | 24.57 |
| 2.500 | 56 | 5.614 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 12.18 | 15.49 | 18.74 |
| 2.520 | 25 | 2.506 | 63 | 6.316 | 5.33 | 6.98 | 8.61 | 10.54 | 11.82 | 12.61 | 13.41 | 15.00 | 16.58 | 17.06 | 18.17 | 21.33 | 24.49 | 27.65 |
| 2.535 | 71 | 7.118 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 13.78 |
| 2.536 | 28 | 2.807 | 71 | 7.118 | | 5.99 | 7.65 | 9.60 | 10.89 | 11.69 | 12.49 | 14.08 | 15.68 | 16.16 | 17.27 | 20.44 | 23.60 | 26.76 |
| 2.545 | 22 | 2.206 | 56 | 5.614 | 6.22 | 7.85 | 9.45 | 11.37 | 12.64 | 13.43 | 14.23 | 15.81 | 17.39 | 17.87 | 18.98 | 22.14 | 25.30 | 28.45 |
| 2.571 | 35 | 3.509 | 90 | 9.023 | – | – | – | 7.27 | 8.61 | 9.44 | 10.25 | 11.88 | 13.49 | 13.98 | 15.10 | 18.29 | 21.48 | 24.65 |
| 2.577 | 26 | 2.607 | 67 | 6.717 | – | 6.53 | 8.17 | 10.11 | 11.39 | 12.19 | 12.98 | 14.58 | 16.17 | 16.64 | 17.75 | 20.92 | 24.08 | 27.24 |
| 2.581 | 31 | 3.108 | 80 | 8.020 | – | – | 6.54 | 8.54 | 9.85 | 10.66 | 11.47 | 13.07 | 14.67 | 15.16 | 16.27 | 19.45 | 22.62 | 25.79 |
| 2.586 | 29 | 2.907 | 75 | 7.519 | – | – | 7.19 | 9.16 | 10.46 | 11.26 | 12.06 | 13.66 | 15.26 | 15.74 | 16.85 | 20.02 | 23.19 | 26.36 |
| 2.630 | 27 | 2.707 | 71 | 7.118 | – | 6.05 | 7.72 | 9.67 | 10.96 | 11.76 | 12.56 | 14.16 | 15.75 | 16.23 | 17.34 | 20.51 | 23.68 | 26.84 |
| 2.642 | 53 | 5.314 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 12.37 | 15.69 | 18.94 |
| 2.647 | 34 | 3.409 | 90 | 9.023 | – | – | – | 7.33 | 8.68 | 9.50 | 10.32 | 11.95 | 13.56 | 14.05 | 15.17 | 18.37 | 21.55 | 24.72 |
| 2.667 | 30 | 3.008 | 80 | 8.020 | – | – | 6.61 | 8.61 | 9.92 | 10.73 | 11.54 | 13.14 | 14.75 | 15.23 | 16.34 | 19.52 | 22.70 | 25.86 |
| 2.667 | 42 | 4.211 | 112 | 11.229 | – | – | – | – | – | – | – | 9.24 | 10.92 | 11.43 | 12.58 | 15.83 | 19.04 | 22.24 |
| 2.679 | 28 | 2.807 | 75 | 7.519 | – | – | 7.25 | 9.23 | 10.53 | 11.33 | 12.13 | 13.73 | 15.33 | 15.81 | 16.92 | 20.10 | 23.27 | 26.43 |
| 2.680 | 25 | 2.506 | 67 | 6.717 | – | 6.59 | 8.24 | 10.18 | 11.46 | 12.26 | 13.06 | 14.65 | 16.24 | 16.72 | 17.83 | 21.00 | 24.16 | 27.32 |
| 2.687 | 67 | 6.717 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 14.04 |
| 2.727 | 22 | 2.206 | 60 | 6.015 | 5.83 | 7.47 | 9.09 | 11.02 | 12.30 | 13.09 | 13.88 | 15.47 | 17.06 | 17.53 | 18.64 | 21.81 | 24.97 | 28.12 |
| 2.727 | 33 | 3.308 | 90 | 9.023 | – | – | – | 7.40 | 8.74 | 9.57 | 10.39 | 12.02 | 13.63 | 14.12 | 15.24 | 18.44 | 21.62 | 24.80 |
| 2.731 | 26 | 2.607 | 71 | 7.118 | – | 6.12 | 7.78 | 9.74 | 11.03 | 11.83 | 12.63 | 14.23 | 15.82 | 16.30 | 17.41 | 20.58 | 23.75 | 26.91 |
| 2.732 | 41 | 4.110 | 112 | 11.229 | – | – | – | – | – | – | – | 9.31 | 10.99 | 11.49 | 12.64 | 15.90 | 19.12 | 22.31 |
| 2.759 | 29 | 2.907 | 80 | 8.020 | – | – | 6.67 | 8.68 | 9.99 | 10.80 | 11.61 | 13.21 | 14.82 | 15.30 | 16.41 | 19.60 | 22.77 | 25.94 |
| 2.778 | 27 | 2.707 | 75 | 7.519 | – | 5.62 | 7.32 | 9.30 | 10.59 | 11.40 | 12.20 | 13.80 | 15.40 | 15.88 | 16.99 | 20.17 | 23.34 | 26.50 |
| 2.800 | 40 | 4.010 | 112 | 11.229 | – | – | – | – | – | – | – | 9.37 | 11.06 | 11.56 | 12.71 | 15.97 | 19.19 | 22.38 |
| 2.800 | 50 | 5.013 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 12.56 | 15.89 | 19.15 |
| 2.800 | 80 | 8.020 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.813 | 32 | 3.208 | 90 | 9.023 | – | – | – | 7.46 | 8.81 | 9.64 | 10.46 | 12.09 | 13.70 | 14.19 | 15.31 | 18.51 | 21.69 | 24.87 |
| 2.840 | 25 | 2.506 | 71 | 7.118 | – | 6.18 | 7.85 | 9.81 | 11.10 | 11.90 | 12.70 | 14.30 | 15.89 | 16.37 | 17.48 | 20.66 | 23.82 | 26.99 |
| 2.857 | 28 | 2.807 | 80 | 8.020 | – | – | 6.74 | 8.75 | 10.06 | 10.87 | 11.67 | 13.28 | 14.89 | 15.37 | 16.49 | 19.67 | 22.84 | 26.01 |
| 2.857 | 63 | 6.316 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 14.29 |
| 2.864 | 22 | 2.206 | 63 | 6.316 | 5.52 | 7.19 | 8.82 | 10.75 | 12.03 | 12.83 | 13.62 | 15.21 | 16.80 | 17.28 | 18.39 | 21.55 | 24.72 | 27.88 |
| 2.872 | 39 | 3.910 | 112 | 11.229 | – | – | – | – | – | – | – | 9.44 | 11.12 | 11.62 | 12.78 | 16.04 | 19.26 | 22.46 |
| 2.885 | 26 | 2.607 | 75 | 7.519 | – | 5.68 | 7.38 | 9.36 | 10.66 | 11.47 | 12.27 | 13.87 | 15.47 | 15.95 | 17.07 | 20.24 | 23.41 | 26.58 |
| 2.903 | 31 | 3.108 | 90 | 9.023 | – | – | – | 7.52 | 8.87 | 9.70 | 10.52 | 12.16 | 13.77 | 14.26 | 15.38 | 18.58 | 21.77 | 24.94 |
| 2.917 | 48 | 4.812 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 12.69 | 16.02 | 19.29 |
| 2.947 | 38 | 3.810 | 112 | 11.229 | – | – | – | – | – | – | – | 9.50 | 11.19 | 11.69 | 12.84 | 16.10 | 19.33 | 22.53 |
| 2.963 | 27 | 2.707 | 80 | 8.020 | – | – | 6.80 | 8.81 | 10.12 | 10.94 | 11.74 | 13.35 | 14.96 | 15.44 | 16.56 | 19.74 | 22.92 | 26.08 |
| 2.987 | 75 | 7.519 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.000 | 25 | 2.506 | 75 | 7.519 | – | 5.75 | 7.45 | 9.43 | 10.73 | 11.54 | 12.34 | 13.95 | 15.54 | 16.02 | 17.14 | 20.32 | 23.49 | 26.65 |
| 3.000 | 30 | 3.008 | 90 | 9.023 | – | – | – | 7.59 | 8.94 | 9.77 | 10.59 | 12.22 | 13.84 | 14.33 | 15.45 | 18.65 | 21.84 | 25.01 |
| 3.000 | 60 | 6.015 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 14.48 |
| 3.027 | 37 | 3.709 | 112 | 11.229 | – | – | – | – | – | – | 7.81 | 9.56 | 11.25 | 11.76 | 12.91 | 16.17 | 19.40 | 22.60 |
| 3.045 | 22 | 2.206 | 67 | 6.717 | 5.08 | 6.79 | 8.44 | 10.39 | 11.67 | 12.47 | 13.27 | 14.87 | 16.46 | 16.94 | 18.05 | 21.22 | 24.38 | 27.54 |
| 3.077 | 26 | 2.607 | 80 | 8.020 | – | – | 6.86 | 8.88 | 10.19 | 11.00 | 11.81 | 13.42 | 15.03 | 15.51 | 16.63 | 19.81 | 22.99 | 26.16 |
| 3.103 | 29 | 2.907 | 90 | 9.023 | – | – | – | 7.65 | 9.01 | 9.84 | 10.66 | 12.29 | 13.91 | 14.40 | 15.52 | 18.72 | 21.91 | 25.09 |
| 3.111 | 36 | 3.609 | 112 | 11.229 | – | – | – | – | – | – | 7.88 | 9.63 | 11.32 | 11.82 | 12.98 | 16.24 | 19.47 | 22.67 |
| 3.111 | 45 | 4.511 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | – | 12.89 | 16.22 | 19.49 |
| 3.155 | 71 | 7.118 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.200 | 25 | 2.506 | 80 | 8.020 | – | – | 6.93 | 8.94 | 10.26 | 11.07 | 11.88 | 13.50 | 15.10 | 15.58 | 16.70 | 19.89 | 23.06 | 26.23 |
| 3.200 | 35 | 3.509 | 112 | 11.229 | – | – | – | – | – | – | 7.94 | 9.69 | 11.38 | 11.89 | 13.04 | 16.31 | 19.54 | 22.74 |
| 3.214 | 28 | 2.807 | 90 | 9.023 | – | – | – | 7.71 | 9.07 | 9.90 | 10.73 | 12.36 | 13.98 | 14.47 | 15.59 | 18.80 | 21.98 | 25.16 |
| 3.214 | 56 | 5.614 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 14.73 |
| 3.227 | 22 | 2.206 | 71 | 7.118 | – | 6.37 | 8.05 | 10.01 | 11.31 | 12.11 | 12.91 | 14.51 | 16.11 | 16.59 | 17.70 | 20.88 | 24.05 | 27.21 |
| 3.294 | 34 | 3.409 | 112 | 11.229 | – | – | – | – | – | – | 8.00 | 9.75 | 11.45 | 11.95 | 13.11 | 16.38 | 19.61 | 22.81 |
| 3.333 | 27 | 2.707 | 90 | 9.023 | – | – | – | 7.78 | 9.14 | 9.97 | 10.79 | 12.43 | 14.05 | 14.54 | 15.66 | 18.87 | 22.06 | 25.23 |
| 3.333 | 42 | 4.211 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 9.57 | 13.08 | 16.42 | 19.70 |
| 3.343 | 67 | 6.717 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.394 | 33 | 3.308 | 112 | 11.229 | – | – | – | – | – | – | 8.06 | 9.82 | 11.51 | 12.02 | 13.18 | 16.45 | 19.68 | 22.88 |
| 3.396 | 53 | 5.314 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 14.92 |
| 3.409 | 22 | 2.206 | 75 | 7.519 | – | 5.93 | 7.65 | 9.63 | 10.94 | 11.75 | 12.55 | 14.16 | 15.76 | 16.24 | 17.35 | 20.53 | 23.71 | 26.88 |
| 3.415 | 41 | 4.110 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 9.63 | 13.14 | 16.49 | 19.77 |
| 3.462 | 26 | 2.607 | 90 | 9.023 | – | – | – | 7.84 | 9.20 | 10.03 | 10.86 | 12.50 | 14.12 | 14.61 | 15.73 | 18.94 | 22.13 | 25.31 |
| 3.500 | 32 | 3.208 | 112 | 11.229 | – | – | – | – | – | – | 8.12 | 9.88 | 11.58 | 12.08 | 13.24 | 16.52 | 19.75 | 22.95 |
| 3.500 | 40 | 4.010 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 9.69 | 13.21 | 16.56 | 19.83 |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table (Continued)



| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1792-8MX | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |
| 2.400 | 25 | 2.506 | 60 | 6.015 | 28.53 | 32.63 | 36.57 | 37.36 | 40.51 | 42.88 | 44.45 | 48.40 | 49.18 | 53.28 | 56.27 | 57.85 | 64.15 | 72.03 | 79.90 | 81.48 |
| 2.400 | 75 | 7.519 | 180 | 18.046 | 14.21 | 18.54 | 22.61 | 23.42 | 26.64 | 29.05 | 30.65 | 34.64 | 35.43 | 39.57 | 42.59 | 44.17 | 50.51 | 58.42 | 66.33 | 67.91 |
| 2.409 | 22 | 2.206 | 53 | 5.314 | 29.33 | 33.43 | 37.37 | 38.16 | 41.31 | 43.67 | 45.25 | 49.19 | 49.97 | 54.07 | 57.06 | 58.64 | 64.94 | 72.82 | 80.69 | 82.27 |
| 2.419 | 31 | 3.108 | 75 | 7.519 | 26.84 | 30.94 | 34.89 | 35.68 | 38.84 | 41.20 | 42.78 | 46.72 | 47.51 | 51.61 | 54.60 | 56.18 | 62.48 | 70.36 | 78.24 | 79.81 |
| 2.423 | 26 | 2.607 | 63 | 6.316 | 28.21 | 32.31 | 36.25 | 37.04 | 40.19 | 42.56 | 44.13 | 48.08 | 48.86 | 52.96 | 55.95 | 57.53 | 63.83 | 71.71 | 79.59 | 81.16 |
| 2.424 | 33 | 3.308 | 80 | 8.020 | 26.27 | 30.38 | 34.33 | 35.12 | 38.28 | 40.64 | 42.22 | 46.16 | 46.95 | 51.05 | 54.04 | 55.62 | 61.92 | 69.80 | 77.68 | 79.26 |
| 2.432 | 37 | 3.709 | 90 | 9.023 | 25.13 | 29.25 | 33.20 | 33.99 | 37.15 | 39.52 | 41.09 | 45.04 | 45.83 | 49.93 | 52.92 | 54.50 | 60.81 | 68.69 | 76.57 | 78.15 |
| 2.448 | 29 | 2.907 | 71 | 7.118 | 27.32 | 31.43 | 35.37 | 36.16 | 39.32 | 41.68 | 43.26 | 47.20 | 47.99 | 52.08 | 55.08 | 56.65 | 62.96 | 70.84 | 78.71 | 80.29 |
| 2.481 | 27 | 2.707 | 67 | 6.717 | 27.80 | 31.91 | 35.85 | 36.64 | 39.79 | 42.16 | 43.73 | 47.68 | 48.46 | 52.56 | 55.55 | 57.13 | 63.43 | 71.31 | 79.19 | 80.76 |
| 2.489 | 45 | 4.511 | 112 | 11.229 | 22.66 | 26.80 | 30.76 | 31.55 | 34.72 | 37.09 | 38.67 | 42.63 | 43.41 | 47.52 | 50.52 | 52.09 | 58.41 | 66.29 | 74.18 | 75.75 |
| 2.500 | 30 | 3.008 | 75 | 7.519 | 26.91 | 31.02 | 34.96 | 35.76 | 38.91 | 41.28 | 42.85 | 46.80 | 47.58 | 51.68 | 54.68 | 56.25 | 62.56 | 70.44 | 78.31 | 79.89 |
| 2.500 | 32 | 3.208 | 80 | 8.020 | 26.35 | 30.46 | 34.40 | 35.19 | 38.35 | 40.72 | 42.29 | 46.24 | 47.02 | 51.12 | 54.12 | 55.69 | 62.00 | 69.88 | 77.76 | 79.34 |
| 2.500 | 36 | 3.609 | 90 | 9.023 | 25.21 | 29.32 | 33.27 | 34.07 | 37.23 | 39.59 | 41.17 | 45.12 | 45.90 | 50.01 | 53.00 | 54.58 | 60.88 | 68.77 | 76.65 | 78.22 |
| 2.500 | 56 | 5.614 | 140 | 14.036 | 19.38 | 23.56 | 27.55 | 28.35 | 31.53 | 33.91 | 35.50 | 39.46 | 40.25 | 44.37 | 47.37 | 48.95 | 55.27 | 63.17 | 71.06 | 72.63 |
| 2.520 | 25 | 2.506 | 63 | 6.316 | 28.28 | 32.39 | 36.33 | 37.12 | 40.27 | 42.63 | 44.21 | 48.15 | 48.94 | 53.04 | 56.03 | 57.60 | 63.91 | 71.79 | 79.66 | 81.24 |
| 2.535 | 71 | 7.118 | 180 | 18.046 | 14.47 | 18.81 | 22.89 | 23.70 | 26.92 | 29.33 | 30.93 | 34.93 | 35.72 | 39.86 | 42.88 | 44.47 | 50.81 | 58.72 | 66.63 | 68.21 |
| 2.536 | 28 | 2.807 | 71 | 7.118 | 27.40 | 31.50 | 35.44 | 36.24 | 39.39 | 41.75 | 43.33 | 47.28 | 48.06 | 52.16 | 55.15 | 56.73 | 63.03 | 70.91 | 78.79 | 80.37 |
| 2.545 | 22 | 2.206 | 56 | 5.614 | 29.08 | 33.18 | 37.12 | 37.91 | 41.07 | 43.43 | 45.01 | 48.95 | 49.73 | 53.83 | 56.82 | 58.40 | 64.70 | 72.58 | 80.46 | 82.03 |
| 2.571 | 35 | 3.509 | 90 | 9.023 | 25.28 | 29.40 | 33.35 | 34.14 | 37.30 | 39.67 | 41.25 | 45.19 | 45.98 | 50.08 | 53.08 | 54.65 | 60.96 | 68.84 | 76.72 | 78.30 |
| 2.577 | 26 | 2.607 | 67 | 6.717 | 27.88 | 31.98 | 35.92 | 36.71 | 39.87 | 42.23 | 43.81 | 47.75 | 48.54 | 52.64 | 55.63 | 57.21 | 63.51 | 71.39 | 79.27 | 80.84 |
| 2.581 | 31 | 3.108 | 80 | 8.020 | 26.42 | 30.53 | 34.48 | 35.27 | 38.43 | 40.79 | 42.37 | 46.31 | 47.10 | 51.20 | 54.19 | 55.77 | 62.08 | 69.96 | 77.84 | 79.41 |
| 2.586 | 29 | 2.907 | 75 | 7.519 | 26.99 | 31.10 | 35.04 | 35.83 | 38.99 | 41.35 | 42.93 | 46.87 | 47.66 | 51.76 | 54.75 | 56.33 | 62.63 | 70.51 | 78.39 | 79.97 |
| 2.630 | 27 | 2.707 | 71 | 7.118 | 27.47 | 31.58 | 35.52 | 36.31 | 39.47 | 41.83 | 43.41 | 47.35 | 48.14 | 52.24 | 55.23 | 56.81 | 63.11 | 70.99 | 78.87 | 80.44 |
| 2.642 | 53 | 5.314 | 140 | 14.036 | 19.59 | 23.77 | 27.76 | 28.56 | 31.75 | 34.13 | 35.72 | 39.68 | 40.47 | 44.59 | 47.59 | 49.17 | 55.50 | 63.39 | 71.28 | 72.86 |
| 2.647 | 34 | 3.409 | 90 | 9.023 | 25.36 | 29.47 | 33.42 | 34.22 | 37.38 | 39.74 | 41.32 | 45.27 | 46.06 | 50.16 | 53.15 | 54.73 | 61.04 | 68.92 | 76.80 | 78.38 |
| 2.667 | 30 | 3.008 | 80 | 8.020 | 26.50 | 30.61 | 34.55 | 35.34 | 38.50 | 40.87 | 42.44 | 46.39 | 47.18 | 51.28 | 54.27 | 55.85 | 62.15 | 70.03 | 77.91 | 79.49 |
| 2.667 | 42 | 4.211 | 112 | 11.229 | 22.88 | 27.02 | 30.98 | 31.77 | 34.94 | 37.31 | 38.90 | 42.85 | 43.64 | 47.74 | 50.74 | 52.32 | 58.63 | 66.52 | 74.41 | 75.98 |
| 2.679 | 28 | 2.807 | 75 | 7.519 | 27.06 | 31.17 | 35.12 | 35.91 | 39.06 | 41.43 | 43.01 | 46.95 | 47.74 | 51.84 | 54.83 | 56.41 | 62.71 | 70.59 | 78.47 | 80.05 |
| 2.680 | 25 | 2.506 | 67 | 6.717 | 27.95 | 32.06 | 36.00 | 36.79 | 39.95 | 42.31 | 43.89 | 47.83 | 48.62 | 52.71 | 55.71 | 57.28 | 63.59 | 71.47 | 79.34 | 80.92 |
| 2.687 | 67 | 6.717 | 180 | 18.046 | 14.72 | 19.07 | 23.16 | 23.97 | 27.20 | 29.61 | 31.22 | 35.21 | 36.01 | 40.15 | 43.17 | 44.76 | 51.10 | 59.02 | 66.93 | 68.51 |
| 2.727 | 22 | 2.206 | 60 | 6.015 | 28.76 | 32.86 | 36.80 | 37.59 | 40.74 | 43.11 | 44.68 | 48.63 | 49.41 | 53.51 | 56.50 | 58.08 | 64.38 | 72.26 | 80.14 | 81.71 |
| 2.727 | 33 | 3.308 | 90 | 9.023 | 25.43 | 29.55 | 33.50 | 34.29 | 37.45 | 39.82 | 41.40 | 45.35 | 46.13 | 50.23 | 53.23 | 54.81 | 61.11 | 69.00 | 76.88 | 78.45 |
| 2.731 | 26 | 2.607 | 71 | 7.118 | 27.54 | 31.65 | 35.60 | 36.39 | 39.54 | 41.91 | 43.48 | 47.43 | 48.21 | 52.31 | 55.31 | 56.88 | 63.19 | 71.07 | 78.94 | 80.52 |
| 2.732 | 41 | 4.110 | 112 | 11.229 | 22.95 | 27.09 | 31.05 | 31.85 | 35.02 | 37.39 | 38.97 | 42.93 | 43.71 | 47.82 | 50.82 | 52.40 | 58.71 | 66.60 | 74.48 | 76.06 |
| 2.759 | 29 | 2.907 | 80 | 8.020 | 26.57 | 30.68 | 34.63 | 35.42 | 38.58 | 40.94 | 42.52 | 46.47 | 47.25 | 51.35 | 54.35 | 55.92 | 62.23 | 70.11 | 77.99 | 79.57 |
| 2.778 | 27 | 2.707 | 75 | 7.519 | 27.14 | 31.25 | 35.19 | 35.98 | 39.14 | 41.50 | 43.08 | 47.03 | 47.81 | 51.91 | 54.91 | 56.48 | 62.79 | 70.67 | 78.55 | 80.12 |
| 2.800 | 40 | 4.010 | 112 | 11.229 | 23.02 | 27.16 | 31.13 | 31.92 | 35.09 | 37.46 | 39.04 | 43.00 | 43.79 | 47.90 | 50.89 | 52.47 | 58.79 | 66.67 | 74.56 | 76.14 |
| 2.800 | 50 | 5.013 | 140 | 14.036 | 19.80 | 23.98 | 27.98 | 28.78 | 31.97 | 34.35 | 35.94 | 39.90 | 40.69 | 44.81 | 47.82 | 49.40 | 55.72 | 63.62 | 71.51 | 73.09 |
| 2.800 | 80 | 8.020 | 224 | 22.457 | – | – | 17.89 | 18.75 | 22.12 | 24.60 | 26.24 | 30.32 | 31.13 | 35.32 | 38.37 | 39.97 | 46.37 | 54.32 | 62.26 | 63.84 |
| 2.813 | 32 | 3.208 | 90 | 9.023 | 25.50 | 29.62 | 33.57 | 34.37 | 37.53 | 39.89 | 41.47 | 45.42 | 46.21 | 50.31 | 53.30 | 54.88 | 61.19 | 69.07 | 76.95 | 78.53 |
| 2.840 | 25 | 2.506 | 71 | 7.118 | 27.62 | 31.73 | 35.67 | 36.46 | 39.62 | 41.98 | 43.56 | 47.51 | 48.29 | 52.39 | 55.38 | 56.96 | 63.26 | 71.14 | 79.02 | 80.60 |
| 2.857 | 28 | 2.807 | 80 | 8.020 | 26.64 | 30.76 | 34.70 | 35.50 | 38.65 | 41.02 | 42.60 | 46.54 | 47.33 | 51.43 | 54.42 | 56.00 | 62.31 | 70.19 | 78.07 | 79.64 |
| 2.857 | 63 | 6.316 | 180 | 18.046 | 14.98 | 19.34 | 23.43 | 24.25 | 27.48 | 29.89 | 31.50 | 35.50 | 36.30 | 40.44 | 43.46 | 45.05 | 51.40 | 59.32 | 67.23 | 68.81 |
| 2.864 | 22 | 2.206 | 63 | 6.316 | 28.51 | 32.61 | 36.55 | 37.35 | 40.50 | 42.86 | 44.44 | 48.38 | 49.17 | 53.27 | 56.26 | 57.84 | 64.14 | 72.02 | 79.90 | 81.47 |
| 2.872 | 39 | 3.910 | 112 | 11.229 | 23.09 | 27.23 | 31.20 | 32.00 | 35.16 | 37.54 | 39.12 | 43.07 | 43.86 | 47.97 | 50.97 | 52.55 | 58.86 | 66.75 | 74.64 | 76.21 |
| 2.885 | 26 | 2.607 | 75 | 7.519 | 27.21 | 31.32 | 35.27 | 36.06 | 39.22 | 41.58 | 43.16 | 47.10 | 47.89 | 51.99 | 54.98 | 56.56 | 62.86 | 70.74 | 78.62 | 80.20 |
| 2.903 | 31 | 3.108 | 90 | 9.023 | 25.58 | 29.69 | 33.65 | 34.44 | 37.60 | 39.97 | 41.55 | 45.50 | 46.28 | 50.39 | 53.38 | 54.96 | 61.27 | 69.15 | 77.03 | 78.61 |
| 2.917 | 48 | 4.812 | 140 | 14.036 | 19.94 | 24.12 | 28.12 | 28.92 | 32.11 | 34.49 | 36.08 | 40.05 | 40.84 | 44.96 | 47.96 | 49.55 | 55.87 | 63.77 | 71.66 | 73.24 |
| 2.947 | 38 | 3.810 | 112 | 11.229 | 23.17 | 27.31 | 31.27 | 32.07 | 35.24 | 37.61 | 39.19 | 43.15 | 43.94 | 48.05 | 51.04 | 52.62 | 58.94 | 66.83 | 74.71 | 76.29 |
| 2.963 | 27 | 2.707 | 80 | 8.020 | 26.72 | 30.83 | 34.78 | 35.57 | 38.73 | 41.09 | 42.67 | 46.62 | 47.41 | 51.51 | 54.50 | 56.08 | 62.38 | 70.26 | 78.14 | 79.72 |
| 2.987 | 75 | 7.519 | 224 | 22.457 | – | – | 18.21 | 19.07 | 22.45 | 24.93 | 26.58 | 30.66 | 31.47 | 35.67 | 38.72 | 40.33 | 46.72 | 54.69 | 62.63 | 64.21 |
| 3.000 | 25 | 2.506 | 75 | 7.519 | 27.29 | 31.40 | 35.34 | 36.13 | 39.29 | 41.66 | 43.23 | 47.18 | 47.97 | 52.07 | 55.06 | 56.64 | 62.94 | 70.82 | 78.70 | 80.28 |
| 3.000 | 30 | 3.008 | 90 | 9.023 | 25.65 | 29.77 | 33.72 | 34.51 | 37.68 | 40.04 | 41.62 | 45.57 | 46.36 | 50.46 | 53.46 | 55.03 | 61.34 | 69.23 | 77.11 | 78.68 |
| 3.000 | 60 | 6.015 | 180 | 18.046 | 15.17 | 19.54 | 23.64 | 24.45 | 27.69 | 30.10 | 31.71 | 35.71 | 36.51 | 40.66 | 43.68 | 45.27 | 51.62 | 59.54 | 67.45 | 69.03 |
| 3.027 | 37 | 3.709 | 112 | 11.229 | 23.24 | 27.38 | 31.35 | 32.14 | 35.31 | 37.68 | 39.27 | 43.22 | 44.01 | 48.12 | 51.12 | 52.70 | 59.01 | 66.90 | 74.79 | 76.37 |
| 3.045 | 22 | 2.206 | 67 | 6.717 | 28.18 | 32.28 | 36.23 | 37.02 | 40.17 | 42.54 | 44.11 | 48.06 | 48.84 | 52.94 | 55.94 | 57.51 | 63.82 | 71.70 | 79.57 | 81.15 |
| 3.077 | 26 | 2.607 | 80 | 8.020 | 26.79 | 30.90 | 34.85 | 35.65 | 38.80 | 41.17 | 42.75 | 46.70 | 47.48 | 51.58 | 54.58 | 56.15 | 62.46 | 70.34 | 78.22 | 79.80 |
| 3.103 | 29 | 2.907 | 90 | 9.023 | 25.72 | 29.84 | 33.80 | 34.59 | 37.75 | 40.12 | 41.70 | 45.65 | 46.43 | 50.54 | 53.53 | 55.11 | 61.42 | 69.30 | 77.18 | 78.76 |
| 3.111 | 36 | 3.609 | 112 | 11.229 | 23.31 | 27.45 | 31.42 | 32.22 | 35.39 | 37.76 | 39.34 | 43.30 | 44.09 | 48.20 | 51.19 | 52.77 | 59.09 | 66.98 | 74.86 | 76.44 |
| 3.111 | 45 | 4.511 | 140 | 14.036 | 20.14 | 24.34 | 28.34 | 29.14 | 32.33 | 34.71 | 36.30 | 40.27 | 41.06 | 45.18 | 48.19 | 49.77 | 56.10 | 64.00 | 71.89 | 73.47 |
| 3.155 | 71 | 7.118 | 224 | 22.457 | – | – | 18.46 | 19.32 | 22.71 | 25.20 | 26.85 | 30.94 | 31.75 | 35.95 | 39.01 | 40.61 | 47.01 | 54.98 | 62.92 | 64.51 |
| 3.200 | 25 | 2.506 | 80 | 8.020 | 26.87 | 30.98 | 34.93 | 35.72 | 38.88 | 41.25 | 42.82 | 46.77 | 47.56 | 51.66 | 54.65 | 56.23 | 62.54 | 70.42 | 78.30 | 79.88 |
| 3.200 | 35 | 3.509 | 112 | 11.229 | 23.38 | 27.52 | 31.49 | 32.29 | 35.46 | 37.83 | 39.42 | 43.37 | 44.16 | 48.27 | 51.27 | 52.85 | 59.16 | 67.05 | 74.94 | 76.52 |
| 3.214 | 28 | 2.807 | 90 | 9.023 | 25.80 | 29.92 | 33.87 | 34.66 | 37.83 | 40.19 | 41.77 | 45.72 | 46.51 | 50.61 | 53.61 | 55.19 | 61.50 | 69.38 | 77.26 | 78.84 |
| 3.214 | 56 | 5.614 | 180 | 18.046 | 15.42 | 19.80 | 23.91 | 24.73 | 27.97 | 30.38 | 31.99 | 36.00 | 36.80 | 40.94 | 43.97 | 45.56 | 51.91 | 59.83 | 67.75 | 69.33 |
| 3.227 | 22 | 2.206 | 71 | 7.118 | 27.84 | 31.95 | 35.90 | 36.69 | 39.85 | 42.21 | 43.79 | 47.73 | 48.52 | 52.62 | 55.61 | 57.19 | 63.49 | 71.37 | 79.25 | 80.83 |
| 3.294 | 34 | 3.409 | 112 | 11.229 | 23.45 | 27.60 | 31.57 | 32.36 | 35.53 | 37.91 | 39.49 | 43.45 | 44.24 | 48.35 | 51.34 | 52.92 | 59.24 | 67.13 | 75.02 | 76.59 |
| 3.333 | 27 | 2.707 | 90 | 9.023 | 25.87 | 29.99 | 33.95 | 34.74 | 37.90 | 40.27 | 41.85 | 45.80 | 46.59 | 50.69 | 53.68 | 55.26 | 61.57 | 69.46 | 77.34 | 78.91 |
| 3.333 | 42 | 4.211 | 140 | 14.036 | 20.35 | 24.55 | 28.55 | 29.35 | 32.54 | 34.93 | 36.52 | 40.49 | 41.28 | 45.40 | 48.41 | 49.99 | 56.32 | 64.22 | 72.12 | 73.70 |
| 3.343 | 67 | 6.717 | 224 | 22.457 | – | – | 18.71 | 19.58 | 22.97 | 25.47 | 27.12 | 31.21 | 32.02 | 36.23 | 39.29 | 40.89 | 47.30 | 55.27 | 63.21 | 64.80 |
| 3.394 | 33 | 3.308 | 112 | 11.229 | 23.52 | 27.67 | 31.64 | 32.44 | 35.61 | 37.98 | 39.56 | 43.52 | 44.31 | 48.42 | 51.42 | 53.00 | 59.32 | 67.21 | 75.09 | 76.67 |
| 3.396 | 53 | 5.314 | 180 | 18.046 | 15.61 | 20.00 | 24.11 | 24.93 | 28.18 | 30.59 | 32.20 | 36.21 | 37.01 | 41.16 | 44.18 | 45.77 | 52.13 | 60.06 | 67.97 | 69.55 |
| 3.409 | 22 | 2.206 | 75 | 7.519 | 27.51 | 31.62 | 35.57 | 36.36 | 39.52 | 41.88 | 43.46 | 47.41 | 48.19 | 52.29 | 55.29 | 56.86 | 63.17 | 71.05 | 78.93 | 80.51 |
| 3.415 | 41 | 4.110 | 140 | 14.036 | 20.42 | 24.62 | 28.62 | 29.42 | 32.61 | 35.00 | 36.59 | 40.56 | 41.36 | 45.48 | 48.48 | 50.07 | 56.39 | 64.30 | 72.19 | 73.77 |
| 3.462 | 26 | 2.607 | 90 | 9.023 | 25.94 | 30.06 | 34.02 | 34.81 | 37.98 | 40.34 | 41.92 | 45.87 | 46.66 | 50.76 | 53.76 | 55.34 | 61.65 | 69.53 | 77.41 | 78.99 |
| 3.500 | 32 | 3.208 | 112 | 11.229 | 23.59 | 27.74 | 31.71 | 32.51 | 35.68 | 38.05 | 39.64 | 43.60 | 44.38 | 48.50 | 51.49 | 53.07 | 59.39 | 67.28 | 75.17 | 76.75 |
| 3.500 | 40 | 4.010 | 140 | 14.036 | 20.49 | 24.69 | 28.69 | 29.49 | 32.69 | 35.07 | 36.66 | 40.64 | 41.43 | 45.55 | 48.56 | 50.14 | 56.47 | 64.37 | 72.27 | 73.85 |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 640-8MX | 720-8MX | 800-8MX | 896-8MX | 960-8MX | 1000-8MX | 1040-8MX | 1120-8MX | 1200-8MX | 1224-8MX | 1280-8MX | 1440-8MX | 1600-8MX | 1760-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |
| 3.556 | 63 | 6.316 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.590 | 39 | 3.910 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 9.75 | 13.27 | 16.62 | 19.90 |
| 3.600 | 25 | 2.506 | 90 | 9.023 | – | – | – | 7.90 | 9.27 | 10.10 | 10.93 | 12.57 | 14.19 | 14.68 | 15.80 | 19.01 | 22.20 | 25.38 |
| 3.600 | 50 | 5.013 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 15.11 |
| 3.613 | 31 | 3.108 | 112 | 11.229 | – | – | – | – | – | – | 8.18 | 9.94 | 11.64 | 12.15 | 13.31 | 16.59 | 19.82 | 23.03 |
| 3.636 | 22 | 2.206 | 80 | 8.020 | – | – | 7.12 | 9.14 | 10.46 | 11.28 | 12.09 | 13.70 | 15.31 | 15.80 | 16.91 | 20.10 | 23.28 | 26.45 |
| 3.684 | 38 | 3.810 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 9.81 | 13.34 | 16.69 | 19.97 |
| 3.733 | 30 | 3.008 | 112 | 11.229 | – | – | – | – | – | – | 8.24 | 10.01 | 11.71 | 12.21 | 13.38 | 16.65 | 19.89 | 23.10 |
| 3.733 | 60 | 6.015 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.750 | 48 | 4.812 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | – | 15.23 |
| 3.784 | 37 | 3.709 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 9.87 | 13.40 | 16.76 | 20.04 |
| 3.862 | 29 | 2.907 | 112 | 11.229 | – | – | – | – | – | 7.37 | 8.30 | 10.07 | 11.77 | 12.28 | 13.44 | 16.72 | 19.96 | 23.17 |
| 3.889 | 36 | 3.609 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 9.93 | 13.46 | 16.82 | 20.11 |
| 4.000 | 28 | 2.807 | 112 | 11.229 | – | – | – | – | – | 7.43 | 8.36 | 10.13 | 11.84 | 12.35 | 13.51 | 16.79 | 20.03 | 23.24 |
| 4.000 | 35 | 3.509 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 9.99 | 13.53 | 16.89 | 20.17 |
| 4.000 | 45 | 4.511 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 11.77 | 15.42 |
| 4.000 | 56 | 5.614 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.091 | 22 | 2.206 | 90 | 9.023 | – | – | 5.92 | 8.09 | 9.46 | 10.30 | 11.12 | 12.77 | 14.40 | 14.88 | 16.01 | 19.22 | 22.42 | 25.60 |
| 4.118 | 34 | 3.409 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 10.05 | 13.59 | 16.95 | 20.24 |
| 4.148 | 27 | 2.707 | 112 | 11.229 | – | – | – | – | – | 7.49 | 8.42 | 10.20 | 11.90 | 12.41 | 13.58 | 16.86 | 20.10 | 23.31 |
| 4.226 | 53 | 5.314 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.242 | 33 | 3.308 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 10.11 | 13.66 | 17.02 | 20.31 |
| 4.286 | 42 | 4.211 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 11.95 | 15.60 |
| 4.308 | 26 | 2.607 | 112 | 11.229 | – | – | – | – | – | 7.55 | 8.48 | 10.26 | 11.97 | 12.48 | 13.64 | 16.93 | 20.17 | 23.38 |
| 4.375 | 32 | 3.208 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | – | 10.17 | 13.72 | 17.09 | 20.38 |
| 4.390 | 41 | 4.110 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.01 | 15.67 |
| 4.480 | 25 | 2.506 | 112 | 11.229 | – | – | – | – | – | 7.61 | 8.54 | 10.32 | 12.03 | 12.54 | 13.71 | 16.99 | 20.24 | 23.45 |
| 4.480 | 50 | 5.013 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.500 | 40 | 4.010 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.07 | 15.73 |
| 4.516 | 31 | 3.108 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | 8.89 | 10.23 | 13.78 | 17.15 | 20.45 |
| 4.615 | 39 | 3.910 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | | | | 12.13 | 15.79 |
| 4.667 | 30 | 3.008 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | 8.95 | 10.29 | 13.85 | 17.22 | 20.51 |
| 4.667 | 48 | 4.812 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.737 | 38 | 3.810 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.18 | 15.85 |
| 4.828 | 29 | 2.907 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | 9.01 | 10.35 | 13.91 | 17.28 | 20.58 |
| 4.865 | 37 | 3.709 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.24 | 15.92 |
| 4.978 | 45 | 4.511 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.000 | 28 | 2.807 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | 9.06 | 10.41 | 13.97 | 17.35 | 20.65 |
| 5.000 | 36 | 3.609 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | | | | 12.30 | 15.98 |
| 5.091 | 22 | 2.206 | 112 | 11.229 | – | – | – | – | – | 7.78 | 8.72 | 10.51 | 12.23 | 12.74 | 13.90 | 17.20 | 20.44 | 23.66 |
| 5.143 | 35 | 3.509 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.36 | 16.04 |
| 5.185 | 27 | 2.707 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | 9.12 | 10.47 | 14.04 | 17.42 | 20.72 |
| 5.294 | 34 | 3.409 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.42 | 16.10 |
| 5.333 | 42 | 4.211 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.385 | 26 | 2.607 | 140 | 14.036 | – | – | – | – | – | – | – | – | – | 9.18 | 10.53 | 14.10 | 17.48 | 20.78 |
| 5.455 | 33 | 3.308 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.48 | 16.16 |
| 5.463 | 41 | 4.110 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.600 | 25 | 2.506 | 140 | 14.036 | – | – | – | – | – | – | – | | 8.61 | 9.24 | 10.59 | 14.16 | 17.55 | 20.85 |
| 5.600 | 40 | 4.010 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.625 | 32 | 3.208 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.53 | 16.22 |
| 5.744 | 39 | 3.910 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.806 | 31 | 3.108 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.59 | 16.29 |
| 5.895 | 38 | 3.810 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.000 | 30 | 3.008 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.65 | 16.35 |
| 6.054 | 37 | 3.709 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.207 | 29 | 2.907 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.71 | 16.41 |
| 6.222 | 36 | 3.609 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.364 | 22 | 2.206 | 140 | 14.036 | – | – | – | – | – | – | – | – | 8.78 | 9.41 | 10.77 | 14.35 | 17.74 | 21.05 |
| 6.400 | 35 | 3.509 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.429 | 28 | 2.807 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.77 | 16.47 |
| 6.588 | 34 | 3.409 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.667 | 27 | 2.707 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.83 | 16.53 |
| 6.788 | 33 | 3.308 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.923 | 26 | 2.607 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.88 | 16.59 |
| 7.000 | 32 | 3.208 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 7.200 | 25 | 2.506 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 12.94 | 16.66 |
| 7.226 | 31 | 3.108 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 7.467 | 30 | 3.008 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 7.724 | 29 | 2.907 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 8.000 | 28 | 2.807 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 8.182 | 22 | 2.206 | 180 | 18.046 | – | – | – | – | – | – | – | – | – | – | – | – | 13.12 | 16.84 |
| 8.296 | 27 | 2.707 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 8.615 | 26 | 2.607 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 8.960 | 25 | 2.506 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 10.182 | 22 | 2.206 | 224 | 22.457 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Length Factor*** | | | | | **0.79** | **0.83** | **0.87** | **0.91** | **0.94** | **0.96** | **0.97** | **1.00** | **1.03** | **1.03** | **1.05** | **1.10** | **1.14** | **1.17** |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 8M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1792-8MX | 2000-8MX | 2200-8MX | 2240-8MX | 2400-8MX | 2520-8MX | 2600-8MX | 2800-8MX | 2840-8MX | 3048-8MX | 3200-8MX | 3280-8MX | 3600-8MX | 4000-8MX | 4400-8MX | 4480-8MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |
| 3.556 | 63 | 6.316 | 224 | 22.457 | – | – | 18.96 | 19.83 | 23.23 | 25.73 | 27.38 | 31.48 | 32.29 | 36.51 | 39.57 | 41.17 | 47.58 | 55.55 | 63.50 | 65.09 |
| 3.590 | 39 | 3.910 | 140 | 14.036 | 20.55 | 24.76 | 28.76 | 29.57 | 32.76 | 35.14 | 36.74 | 40.71 | 41.50 | 45.62 | 48.63 | 50.21 | 56.54 | 64.45 | 72.34 | 73.92 |
| 3.600 | 25 | 2.506 | 90 | 9.023 | 26.02 | 30.14 | 34.09 | 34.89 | 38.05 | 40.42 | 42.00 | 45.95 | 46.74 | 50.84 | 53.84 | 55.41 | 61.72 | 69.61 | 77.49 | 79.07 |
| 3.600 | 50 | 5.013 | 180 | 18.046 | 15.80 | 20.20 | 24.32 | 25.13 | 28.38 | 30.80 | 32.41 | 36.43 | 37.22 | 41.38 | 44.40 | 45.99 | 52.35 | 60.28 | 68.19 | 69.77 |
| 3.613 | 31 | 3.108 | 112 | 11.229 | 23.67 | 27.81 | 31.79 | 32.58 | 35.75 | 38.13 | 39.71 | 43.67 | 44.46 | 48.57 | 51.57 | 53.15 | 59.47 | 67.36 | 75.25 | 76.82 |
| 3.636 | 22 | 2.206 | 80 | 8.020 | 27.09 | 31.20 | 35.15 | 35.95 | 39.11 | 41.47 | 43.05 | 47.00 | 47.79 | 51.89 | 54.88 | 56.46 | 62.77 | 70.65 | 78.53 | 80.11 |
| 3.684 | 38 | 3.810 | 140 | 14.036 | 20.62 | 24.83 | 28.83 | 29.64 | 32.83 | 35.22 | 36.81 | 40.78 | 41.57 | 45.70 | 48.71 | 50.29 | 56.62 | 64.52 | 72.42 | 74.00 |
| 3.733 | 30 | 3.008 | 112 | 11.229 | 23.74 | 27.88 | 31.86 | 32.65 | 35.83 | 38.20 | 39.79 | 43.75 | 44.53 | 48.64 | 51.64 | 53.22 | 59.54 | 67.43 | 75.32 | 76.90 |
| 3.733 | 60 | 6.015 | 224 | 22.457 | – | 14.63 | 19.15 | 20.02 | 23.43 | 25.93 | 27.58 | 31.69 | 32.50 | 36.71 | 39.78 | 41.38 | 47.79 | 55.77 | 63.72 | 65.31 |
| 3.750 | 48 | 4.812 | 180 | 18.046 | 15.93 | 20.33 | 24.45 | 25.27 | 28.52 | 30.94 | 32.55 | 36.57 | 37.36 | 41.52 | 44.55 | 46.14 | 52.49 | 60.42 | 68.34 | 69.92 |
| 3.784 | 37 | 3.709 | 140 | 14.036 | 20.69 | 24.90 | 28.91 | 29.71 | 32.90 | 35.29 | 36.88 | 40.86 | 41.65 | 45.77 | 48.78 | 50.36 | 56.69 | 64.60 | 72.49 | 74.07 |
| 3.862 | 29 | 2.907 | 112 | 11.229 | 23.81 | 27.96 | 31.93 | 32.73 | 35.90 | 38.28 | 39.86 | 43.82 | 44.61 | 48.72 | 51.72 | 53.30 | 59.62 | 67.51 | 75.40 | 76.98 |
| 3.889 | 36 | 3.609 | 140 | 14.036 | 20.76 | 24.97 | 28.98 | 29.78 | 32.97 | 35.36 | 36.95 | 40.93 | 41.72 | 45.84 | 48.85 | 50.44 | 56.77 | 64.67 | 72.57 | 74.15 |
| 4.000 | 28 | 2.807 | 112 | 11.229 | 23.88 | 28.03 | 32.00 | 32.80 | 35.97 | 38.35 | 39.93 | 43.89 | 44.68 | 48.79 | 51.79 | 53.37 | 59.69 | 67.58 | 75.47 | 77.05 |
| 4.000 | 35 | 3.509 | 140 | 14.036 | 20.83 | 25.03 | 29.05 | 29.85 | 33.05 | 35.43 | 37.03 | 41.00 | 41.79 | 45.92 | 48.93 | 50.51 | 56.84 | 64.75 | 72.64 | 74.22 |
| 4.000 | 45 | 4.511 | 180 | 18.046 | 16.12 | 20.53 | 24.65 | 25.47 | 28.73 | 31.15 | 32.76 | 36.78 | 37.58 | 41.73 | 44.76 | 46.35 | 52.71 | 60.65 | 68.56 | 70.15 |
| 4.000 | 56 | 5.614 | 224 | 22.457 | – | 14.87 | 19.40 | 20.27 | 23.68 | 26.19 | 27.85 | 31.96 | 32.77 | 36.99 | 40.05 | 41.66 | 48.08 | 56.06 | 64.01 | 65.60 |
| 4.091 | 22 | 2.206 | 90 | 9.023 | 26.23 | 30.36 | 34.32 | 35.11 | 38.27 | 40.64 | 42.22 | 46.17 | 46.96 | 51.07 | 54.06 | 55.64 | 61.95 | 69.84 | 77.72 | 79.30 |
| 4.118 | 34 | 3.409 | 140 | 14.036 | 20.89 | 25.10 | 29.12 | 29.92 | 33.12 | 35.51 | 37.10 | 41.07 | 41.87 | 45.99 | 49.00 | 50.58 | 56.92 | 64.82 | 72.72 | 74.30 |
| 4.148 | 27 | 2.707 | 112 | 11.229 | 23.95 | 28.10 | 32.08 | 32.87 | 36.05 | 38.42 | 40.01 | 43.97 | 44.76 | 48.87 | 51.87 | 53.45 | 59.77 | 67.66 | 75.55 | 77.13 |
| 4.226 | 53 | 5.314 | 224 | 22.457 | – | 15.04 | 19.59 | 20.46 | 23.88 | 26.39 | 28.05 | 32.16 | 32.97 | 37.20 | 40.26 | 41.87 | 48.29 | 56.27 | 64.23 | 65.82 |
| 4.242 | 33 | 3.308 | 140 | 14.036 | 20.96 | 25.17 | 29.19 | 29.99 | 33.19 | 35.58 | 37.17 | 41.15 | 41.94 | 46.07 | 49.07 | 50.66 | 56.99 | 64.90 | 72.80 | 74.37 |
| 4.286 | 42 | 4.211 | 180 | 18.046 | 16.30 | 20.72 | 24.86 | 25.68 | 28.93 | 31.36 | 32.97 | 36.99 | 37.79 | 41.95 | 44.98 | 46.57 | 52.93 | 60.87 | 68.79 | 70.37 |
| 4.308 | 26 | 2.607 | 112 | 11.229 | 24.02 | 28.17 | 32.15 | 32.95 | 36.12 | 38.50 | 40.08 | 44.04 | 44.83 | 48.94 | 51.94 | 53.52 | 59.84 | 67.74 | 75.63 | 77.20 |
| 4.375 | 32 | 3.208 | 140 | 14.036 | 21.03 | 25.24 | 29.26 | 30.06 | 33.26 | 35.65 | 37.24 | 41.22 | 42.01 | 46.14 | 49.15 | 50.73 | 57.06 | 64.97 | 72.87 | 74.45 |
| 4.390 | 41 | 4.110 | 180 | 18.046 | 16.37 | 20.79 | 24.92 | 25.74 | 29.00 | 31.43 | 33.04 | 37.06 | 37.86 | 42.02 | 45.05 | 46.64 | 53.01 | 60.94 | 68.86 | 70.44 |
| 4.480 | 25 | 2.506 | 112 | 11.229 | 24.09 | 28.25 | 32.22 | 33.02 | 36.19 | 38.57 | 40.16 | 44.12 | 44.91 | 49.02 | 52.02 | 53.60 | 59.92 | 67.81 | 75.70 | 77.28 |
| 4.480 | 50 | 5.013 | 224 | 22.457 | – | 15.22 | 19.77 | 20.65 | 24.07 | 26.59 | 28.25 | 32.36 | 33.18 | 37.40 | 40.47 | 42.08 | 48.50 | 56.49 | 64.45 | 66.04 |
| 4.500 | 40 | 4.010 | 180 | 18.046 | 16.43 | 20.85 | 24.99 | 25.81 | 29.07 | 31.50 | 33.11 | 37.13 | 37.93 | 42.09 | 45.12 | 46.71 | 53.08 | 61.01 | 68.93 | 70.52 |
| 4.516 | 31 | 3.108 | 140 | 14.036 | 21.10 | 25.31 | 29.33 | 30.13 | 33.33 | 35.72 | 37.31 | 41.29 | 42.08 | 46.21 | 49.22 | 50.81 | 57.14 | 65.05 | 72.95 | 74.52 |
| 4.615 | 39 | 3.910 | 180 | 18.046 | 16.49 | 20.92 | 25.06 | 25.88 | 29.14 | 31.57 | 33.18 | 37.20 | 38.00 | 42.16 | 45.19 | 46.79 | 53.15 | 61.09 | 69.01 | 70.59 |
| 4.667 | 30 | 3.008 | 140 | 14.036 | 21.17 | 25.38 | 29.40 | 30.20 | 33.40 | 35.79 | 37.39 | 41.37 | 42.16 | 46.28 | 49.29 | 50.88 | 57.21 | 65.12 | 73.02 | 74.60 |
| 4.667 | 48 | 4.812 | 224 | 22.457 | – | 15.34 | 19.90 | 20.77 | 24.20 | 26.72 | 28.38 | 32.50 | 33.31 | 37.54 | 40.61 | 42.22 | 48.65 | 56.63 | 64.59 | 66.18 |
| 4.737 | 38 | 3.810 | 180 | 18.046 | 16.55 | 20.99 | 25.12 | 25.95 | 29.21 | 31.64 | 33.25 | 37.27 | 38.07 | 42.23 | 45.26 | 46.86 | 53.22 | 61.16 | 69.08 | 70.67 |
| 4.828 | 29 | 2.907 | 140 | 14.036 | 21.23 | 25.45 | 29.47 | 30.28 | 33.47 | 35.87 | 37.46 | 41.44 | 42.23 | 46.36 | 49.37 | 50.95 | 57.29 | 65.20 | 73.10 | 74.68 |
| 4.865 | 37 | 3.709 | 180 | 18.046 | 16.62 | 21.05 | 25.19 | 26.01 | 29.28 | 31.70 | 33.32 | 37.34 | 38.14 | 42.30 | 45.34 | 46.93 | 53.30 | 61.23 | 69.16 | 70.74 |
| 4.978 | 45 | 4.511 | 224 | 22.457 | – | 15.51 | 20.08 | 20.96 | 24.39 | 26.91 | 28.58 | 32.70 | 33.52 | 37.75 | 40.82 | 42.43 | 48.86 | 56.85 | 64.81 | 66.40 |
| 5.000 | 28 | 2.807 | 140 | 14.036 | 21.30 | 25.52 | 29.54 | 30.35 | 33.55 | 35.94 | 37.53 | 41.51 | 42.30 | 46.43 | 49.44 | 51.03 | 57.36 | 65.27 | 73.17 | 74.75 |
| 5.000 | 36 | 3.609 | 180 | 18.046 | 16.68 | 21.12 | 25.26 | 26.08 | 29.34 | 31.77 | 33.39 | 37.41 | 38.21 | 42.38 | 45.41 | 47.00 | 53.37 | 61.31 | 69.23 | 70.81 |
| 5.091 | 22 | 2.206 | 112 | 11.229 | 24.30 | 28.46 | 32.44 | 33.24 | 36.41 | 38.79 | 40.38 | 44.34 | 45.13 | 49.24 | 52.24 | 53.82 | 60.14 | 68.04 | 75.93 | 77.51 |
| 5.143 | 35 | 3.509 | 180 | 18.046 | 16.74 | 21.18 | 25.33 | 26.15 | 29.41 | 31.84 | 33.46 | 37.48 | 38.28 | 42.45 | 45.48 | 47.07 | 53.44 | 61.38 | 69.30 | 70.89 |
| 5.185 | 27 | 2.707 | 140 | 14.036 | 21.37 | 25.59 | 29.61 | 30.42 | 33.62 | 36.01 | 37.60 | 41.58 | 42.38 | 46.50 | 49.52 | 51.10 | 57.44 | 65.34 | 73.25 | 74.83 |
| 5.294 | 34 | 3.409 | 180 | 18.046 | 16.80 | 21.25 | 25.39 | 26.22 | 29.48 | 31.91 | 33.53 | 37.55 | 38.35 | 42.52 | 45.55 | 47.15 | 53.51 | 61.45 | 69.38 | 70.96 |
| 5.333 | 42 | 4.211 | 224 | 22.457 | – | 15.69 | 20.27 | 21.15 | 24.59 | 27.11 | 28.78 | 32.90 | 33.72 | 37.95 | 41.03 | 42.64 | 49.07 | 57.06 | 65.03 | 66.62 |
| 5.385 | 26 | 2.607 | 140 | 14.036 | 21.44 | 25.66 | 29.68 | 30.49 | 33.69 | 36.08 | 37.67 | 41.66 | 42.45 | 46.58 | 49.59 | 51.17 | 57.51 | 65.42 | 73.32 | 74.90 |
| 5.455 | 33 | 3.308 | 180 | 18.046 | 16.87 | 21.31 | 25.46 | 26.28 | 29.55 | 31.98 | 33.60 | 37.62 | 38.42 | 42.59 | 45.62 | 47.22 | 53.59 | 61.53 | 69.45 | 71.04 |
| 5.463 | 41 | 4.110 | 224 | 22.457 | – | 15.75 | 20.33 | 21.21 | 24.65 | 27.18 | 28.84 | 32.97 | 33.79 | 38.02 | 41.10 | 42.71 | 49.14 | 57.14 | 65.10 | 66.69 |
| 5.600 | 25 | 2.506 | 140 | 14.036 | 21.51 | 25.73 | 29.75 | 30.56 | 33.76 | 36.15 | 37.75 | 41.73 | 42.52 | 46.65 | 49.66 | 51.25 | 57.58 | 65.49 | 73.40 | 74.98 |
| 5.600 | 40 | 4.010 | 224 | 22.457 | – | 15.81 | 20.39 | 21.28 | 24.72 | 27.24 | 28.91 | 33.04 | 33.85 | 38.09 | 41.17 | 42.78 | 49.21 | 57.21 | 65.17 | 66.76 |
| 5.625 | 32 | 3.208 | 180 | 18.046 | 16.93 | 21.38 | 25.53 | 26.35 | 29.62 | 32.05 | 33.67 | 37.69 | 38.49 | 42.66 | 45.69 | 47.29 | 53.66 | 61.60 | 69.53 | 71.11 |
| 5.744 | 39 | 3.910 | 224 | 22.457 | – | 15.86 | 20.46 | 21.34 | 24.78 | 27.31 | 28.97 | 33.10 | 33.92 | 38.16 | 41.23 | 42.85 | 49.28 | 57.28 | 65.25 | 66.84 |
| 5.806 | 31 | 3.108 | 180 | 18.046 | 16.99 | 21.44 | 25.59 | 26.42 | 29.69 | 32.12 | 33.74 | 37.76 | 38.57 | 42.73 | 45.76 | 47.36 | 53.73 | 61.67 | 69.60 | 71.18 |
| 5.895 | 38 | 3.810 | 224 | 22.457 | – | 15.92 | 20.52 | 21.40 | 24.84 | 27.37 | 29.04 | 33.17 | 33.99 | 38.23 | 41.30 | 42.92 | 49.35 | 57.35 | 65.32 | 66.91 |
| 6.000 | 30 | 3.008 | 180 | 18.046 | 17.05 | 21.51 | 25.66 | 26.48 | 29.75 | 32.19 | 33.80 | 37.83 | 38.64 | 42.80 | 45.84 | 47.43 | 53.80 | 61.75 | 69.67 | 71.26 |
| 6.054 | 37 | 3.709 | 224 | 22.457 | – | 15.98 | 20.58 | 21.46 | 24.91 | 27.44 | 29.11 | 33.24 | 34.06 | 38.30 | 41.37 | 42.99 | 49.42 | 57.42 | 65.39 | 66.98 |
| 6.207 | 29 | 2.907 | 180 | 18.046 | 17.12 | 21.57 | 25.73 | 26.55 | 29.82 | 32.26 | 33.87 | 37.91 | 38.71 | 42.87 | 45.91 | 47.50 | 53.88 | 61.82 | 69.75 | 71.33 |
| 6.222 | 36 | 3.609 | 224 | 22.457 | – | 16.04 | 20.64 | 21.52 | 24.97 | 27.50 | 29.17 | 33.31 | 34.12 | 38.36 | 41.44 | 43.06 | 49.49 | 57.49 | 65.46 | 67.05 |
| 6.364 | 22 | 2.206 | 140 | 14.036 | 21.71 | 25.94 | 29.96 | 30.77 | 33.97 | 36.37 | 37.96 | 41.95 | 42.74 | 46.87 | 49.88 | 51.47 | 57.81 | 65.72 | 73.62 | 75.20 |
| 6.400 | 35 | 3.509 | 224 | 22.457 | – | 16.10 | 20.70 | 21.59 | 25.04 | 27.57 | 29.24 | 33.37 | 34.19 | 38.43 | 41.51 | 43.13 | 49.56 | 57.56 | 65.54 | 67.13 |
| 6.429 | 28 | 2.807 | 180 | 18.046 | 17.18 | 21.64 | 25.79 | 26.62 | 29.89 | 32.32 | 33.94 | 37.98 | 38.78 | 42.94 | 45.98 | 47.58 | 53.95 | 61.89 | 69.82 | 71.41 |
| 6.588 | 34 | 3.409 | 224 | 22.457 | – | 16.16 | 20.76 | 21.65 | 25.10 | 27.63 | 29.30 | 33.44 | 34.26 | 38.50 | 41.58 | 43.20 | 49.63 | 57.64 | 65.61 | 67.20 |
| 6.667 | 27 | 2.707 | 180 | 18.046 | 17.24 | 21.70 | 25.86 | 26.69 | 29.96 | 32.39 | 34.01 | 38.04 | 38.85 | 43.02 | 46.05 | 47.65 | 54.02 | 61.97 | 69.89 | 71.48 |
| 6.788 | 33 | 3.308 | 224 | 22.457 | – | 16.22 | 20.83 | 21.71 | 25.16 | 27.70 | 29.37 | 33.51 | 34.33 | 38.57 | 41.65 | 43.27 | 49.70 | 57.71 | 65.68 | 67.27 |
| 6.923 | 26 | 2.607 | 180 | 18.046 | 17.30 | 21.77 | 25.93 | 26.75 | 30.03 | 32.46 | 34.08 | 38.11 | 38.92 | 43.09 | 46.12 | 47.72 | 54.09 | 62.04 | 69.97 | 71.55 |
| 7.000 | 32 | 3.208 | 224 | 22.457 | – | 16.27 | 20.89 | 21.77 | 25.23 | 27.76 | 29.43 | 33.57 | 34.39 | 38.64 | 41.72 | 43.33 | 49.77 | 57.78 | 65.75 | 67.34 |
| 7.200 | 25 | 2.506 | 180 | 18.046 | 17.36 | 21.83 | 25.99 | 26.82 | 30.09 | 32.53 | 34.15 | 38.19 | 38.99 | 43.16 | 46.19 | 47.79 | 54.17 | 62.11 | 70.04 | 71.63 |
| 7.226 | 31 | 3.108 | 224 | 22.457 | – | 16.33 | 20.95 | 21.84 | 25.29 | 27.83 | 29.50 | 33.64 | 34.46 | 38.71 | 41.79 | 43.40 | 49.84 | 57.85 | 65.82 | 67.42 |
| 7.467 | 30 | 3.008 | 224 | 22.457 | – | 16.39 | 21.01 | 21.90 | 25.36 | 27.89 | 29.57 | 33.71 | 34.53 | 38.77 | 41.85 | 43.47 | 49.91 | 57.92 | 65.90 | 67.49 |
| 7.724 | 29 | 2.907 | 224 | 22.457 | – | 16.45 | 21.07 | 21.96 | 25.42 | 27.96 | 29.63 | 33.77 | 34.59 | 38.84 | 41.92 | 43.54 | 49.99 | 57.99 | 65.97 | 67.56 |
| 8.000 | 28 | 2.807 | 224 | 22.457 | – | 16.51 | 21.13 | 22.02 | 25.48 | 28.02 | 29.70 | 33.84 | 34.66 | 38.91 | 41.99 | 43.61 | 50.06 | 58.06 | 66.04 | 67.63 |
| 8.182 | 22 | 2.206 | 180 | 18.046 | 17.55 | 22.02 | 26.19 | 27.02 | 30.30 | 32.74 | 34.36 | 38.39 | 39.20 | 43.37 | 46.41 | 48.00 | 54.38 | 62.33 | 70.26 | 71.85 |
| 8.296 | 27 | 2.707 | 224 | 22.457 | – | 16.56 | 21.20 | 22.08 | 25.55 | 28.09 | 29.76 | 33.91 | 34.73 | 38.98 | 42.06 | 43.68 | 50.13 | 58.14 | 66.11 | 67.70 |
| 8.615 | 26 | 2.607 | 224 | 22.457 | – | 16.62 | 21.26 | 22.15 | 25.61 | 28.15 | 29.83 | 33.97 | 34.79 | 39.05 | 42.13 | 43.75 | 50.20 | 58.21 | 66.18 | 67.78 |
| 8.960 | 25 | 2.506 | 224 | 22.457 | – | 16.68 | 21.32 | 22.21 | 25.68 | 28.22 | 29.89 | 34.04 | 34.86 | 39.12 | 42.20 | 43.82 | 50.27 | 58.28 | 66.26 | 67.85 |
| 10.182 | 22 | 2.206 | 224 | 22.457 | – | 16.85 | 21.50 | 22.39 | 25.87 | 28.41 | 30.09 | 34.24 | 35.06 | 39.32 | 42.40 | 44.03 | 50.48 | 58.49 | 66.47 | 68.07 |
| Length Factor* | | | | | 1.18 | 1.22 | 1.26 | 1.26 | 1.29 | 1.31 | 1.32 | 1.35 | 1.36 | 1.38 | 1.40 | 1.41 | 1.45 | 1.49 | 1.52 | 1.53 |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 994-14MX | 1120-14MX | 1190-14MX | 1260-14MX | 1400-14MX | 1568-14MX | 1610-14MX | 1750-14MX | 1890-14MX | 1960-14MX | 2100-14MX | 2240-14MX | 2310-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | |
| Length Factor* | | | | | 0.68 | 0.73 | 0.75 | 0.77 | 0.81 | 0.85 | 0.86 | 0.89 | 0.92 | 0.94 | 0.96 | 0.99 | 1.00 |
| 1.000 | 28 | 4.912 | 28 | 4.912 | 11.85 | 14.33 | 15.71 | 17.09 | 19.84 | 23.15 | 23.98 | 26.73 | 29.49 | 30.87 | 33.62 | 36.38 | 37.75 |
| 1.000 | 29 | 5.088 | 29 | 5.088 | 11.57 | 14.05 | 15.43 | 16.81 | 19.57 | 22.87 | 23.70 | 26.46 | 29.21 | 30.59 | 33.35 | 36.10 | 37.48 |
| 1.000 | 30 | 5.263 | 30 | 5.263 | 11.30 | 13.78 | 15.16 | 16.54 | 19.29 | 22.60 | 23.43 | 26.18 | 28.94 | 30.32 | 33.07 | 35.83 | 37.20 |
| 1.000 | 31 | 5.439 | 31 | 5.439 | 11.02 | 13.50 | 14.88 | 16.26 | 19.02 | 22.32 | 23.15 | 25.91 | 28.66 | 30.04 | 32.80 | 35.55 | 36.93 |
| 1.000 | 32 | 5.614 | 32 | 5.614 | 10.75 | 13.23 | 14.61 | 15.99 | 18.74 | 22.05 | 22.88 | 25.63 | 28.39 | 29.77 | 32.52 | 35.28 | 36.65 |
| 1.000 | 33 | 5.790 | 33 | 5.790 | 10.47 | 12.95 | 14.33 | 15.71 | 18.47 | 21.77 | 22.60 | 25.36 | 28.11 | 29.49 | 32.25 | 35.00 | 36.38 |
| 1.000 | 34 | 5.965 | 34 | 5.965 | 10.20 | 12.68 | 14.06 | 15.44 | 18.19 | 21.50 | 22.33 | 25.08 | 27.84 | 29.22 | 31.97 | 34.73 | 36.10 |
| 1.000 | 35 | 6.141 | 35 | 6.141 | 9.92 | 12.40 | 13.78 | 15.16 | 17.91 | 21.22 | 22.05 | 24.80 | 27.56 | 28.94 | 31.69 | 34.45 | 35.82 |
| 1.000 | 36 | 6.316 | 36 | 6.316 | 9.64 | 12.12 | 13.50 | 14.88 | 17.64 | 20.94 | 21.77 | 24.53 | 27.28 | 28.66 | 31.42 | 34.17 | 35.55 |
| 1.000 | 37 | 6.492 | 37 | 6.492 | 9.37 | 11.85 | 13.23 | 14.61 | 17.36 | 20.67 | 21.50 | 24.25 | 27.01 | 28.39 | 31.14 | 33.90 | 35.27 |
| 1.000 | 38 | 6.667 | 38 | 6.667 | 9.09 | 11.57 | 12.95 | 14.33 | 17.09 | 20.39 | 21.22 | 23.98 | 26.73 | 28.11 | 30.87 | 33.62 | 35.00 |
| 1.000 | 39 | 6.842 | 39 | 6.842 | 8.82 | 11.30 | 12.68 | 14.06 | 16.81 | 20.12 | 20.95 | 23.70 | 26.46 | 27.84 | 30.59 | 33.35 | 34.72 |
| 1.000 | 40 | 7.018 | 40 | 7.018 | 8.54 | 11.02 | 12.40 | 13.78 | 16.54 | 19.84 | 20.67 | 23.43 | 26.18 | 27.56 | 30.32 | 33.07 | 34.45 |
| 1.000 | 43 | 7.544 | 43 | 7.544 | – | 10.19 | 11.57 | 12.95 | 15.71 | 19.01 | 19.84 | 22.60 | 25.35 | 26.73 | 29.49 | 32.24 | 33.62 |
| 1.000 | 45 | 7.895 | 45 | 7.895 | – | 9.64 | 11.02 | 12.40 | 15.16 | 18.46 | 19.29 | 22.05 | 24.80 | 26.18 | 28.94 | 31.69 | 33.07 |
| 1.000 | 48 | 8.421 | 48 | 8.421 | – | – | 10.20 | 11.58 | 14.33 | 17.64 | 18.47 | 21.22 | 23.98 | 25.36 | 28.11 | 30.87 | 32.24 |
| 1.000 | 50 | 8.772 | 50 | 8.772 | – | – | 9.65 | 11.03 | 13.78 | 17.09 | 17.92 | 20.67 | 23.43 | 24.81 | 27.56 | 30.32 | 31.69 |
| 1.000 | 53 | 9.299 | 53 | 9.299 | – | – | – | 10.20 | 12.95 | 16.26 | 17.09 | 19.84 | 22.60 | 23.98 | 26.73 | 29.49 | 30.86 |
| 1.000 | 56 | 9.825 | 56 | 9.825 | – | – | – | – | 12.13 | 15.43 | 16.26 | 19.02 | 21.77 | 23.15 | 25.91 | 28.66 | 30.04 |
| 1.000 | 60 | 10.527 | 60 | 10.527 | – | – | – | – | – | 14.33 | 15.16 | 17.91 | 20.67 | 22.05 | 24.80 | 27.56 | 28.93 |
| 1.000 | 63 | 11.053 | 63 | 11.053 | – | – | – | – | – | 13.50 | 14.33 | 17.09 | 19.84 | 21.22 | 23.98 | 26.73 | 28.11 |
| 1.000 | 67 | 11.755 | 67 | 11.755 | – | – | – | – | – | – | 13.23 | 15.99 | 18.74 | 20.12 | 22.88 | 25.63 | 27.01 |
| 1.000 | 71 | 12.457 | 71 | 12.457 | – | – | – | – | – | – | – | 14.88 | 17.64 | 19.02 | 21.77 | 24.53 | 25.90 |
| 1.000 | 75 | 13.158 | 75 | 13.158 | – | – | – | – | – | – | – | – | 16.54 | 17.92 | 20.67 | 23.43 | 24.80 |
| 1.000 | 80 | 14.036 | 80 | 14.036 | – | – | – | – | – | – | – | – | 15.16 | 16.54 | 19.29 | 22.05 | 23.42 |
| 1.026 | 38 | 6.667 | 39 | 6.842 | 8.95 | 11.43 | 12.81 | 14.19 | 16.95 | 20.25 | 21.08 | 23.84 | 26.59 | 27.97 | 30.73 | 33.48 | 34.86 |
| 1.026 | 39 | 6.842 | 40 | 7.018 | 8.68 | 11.16 | 12.54 | 13.92 | 16.67 | 19.98 | 20.81 | 23.56 | 26.32 | 27.70 | 30.45 | 33.21 | 34.58 |
| 1.027 | 37 | 6.492 | 38 | 6.667 | 9.23 | 11.71 | 13.09 | 14.47 | 17.22 | 20.53 | 21.36 | 24.11 | 26.87 | 28.25 | 31.00 | 33.76 | 35.13 |
| 1.028 | 36 | 6.316 | 37 | 6.492 | 9.51 | 11.99 | 13.37 | 14.75 | 17.50 | 20.81 | 21.64 | 24.39 | 27.15 | 28.53 | 31.28 | 34.04 | 35.41 |
| 1.029 | 34 | 5.965 | 35 | 6.141 | 10.06 | 12.54 | 13.92 | 15.30 | 18.05 | 21.36 | 22.19 | 24.94 | 27.70 | 29.08 | 31.83 | 34.59 | 35.96 |
| 1.029 | 35 | 6.141 | 36 | 6.316 | 9.78 | 12.26 | 13.64 | 15.02 | 17.78 | 21.08 | 21.91 | 24.67 | 27.42 | 28.80 | 31.56 | 34.31 | 35.69 |
| 1.030 | 33 | 5.790 | 34 | 5.965 | 10.33 | 12.81 | 14.19 | 15.57 | 18.33 | 21.63 | 22.46 | 25.22 | 27.97 | 29.35 | 32.11 | 34.86 | 36.24 |
| 1.031 | 32 | 5.614 | 33 | 5.790 | 10.61 | 13.09 | 14.47 | 15.85 | 18.60 | 21.91 | 22.74 | 25.49 | 28.25 | 29.63 | 32.38 | 35.14 | 36.51 |
| 1.032 | 31 | 5.439 | 32 | 5.614 | 10.88 | 13.36 | 14.74 | 16.12 | 18.88 | 22.18 | 23.01 | 25.77 | 28.52 | 29.90 | 32.66 | 35.41 | 36.79 |
| 1.033 | 30 | 5.263 | 31 | 5.439 | 11.16 | 13.64 | 15.02 | 16.40 | 19.15 | 22.46 | 23.29 | 26.04 | 28.80 | 30.18 | 32.93 | 35.69 | 37.06 |
| 1.034 | 29 | 5.088 | 30 | 5.263 | 11.44 | 13.92 | 15.30 | 16.68 | 19.43 | 22.74 | 23.57 | 26.32 | 29.08 | 30.46 | 33.21 | 35.97 | 37.34 |
| 1.036 | 28 | 4.912 | 29 | 5.088 | 11.71 | 14.19 | 15.57 | 16.95 | 19.71 | 23.01 | 23.84 | 26.60 | 29.35 | 30.73 | 33.49 | 36.24 | 37.62 |
| 1.042 | 48 | 8.421 | 50 | 8.772 | – | – | 9.92 | 11.30 | 14.06 | 17.36 | 18.19 | 20.95 | 23.70 | 25.08 | 27.84 | 30.59 | 31.97 |
| 1.047 | 43 | 7.544 | 45 | 7.895 | – | 9.92 | 11.30 | 12.68 | 15.43 | 18.74 | 19.57 | 22.32 | 25.08 | 26.46 | 29.21 | 31.97 | 33.34 |
| 1.050 | 60 | 10.527 | 63 | 11.053 | – | – | – | – | – | 13.91 | 14.74 | 17.50 | 20.25 | 21.63 | 24.39 | 27.14 | 28.52 |
| 1.053 | 38 | 6.667 | 40 | 7.018 | 8.82 | 11.30 | 12.68 | 14.06 | 16.81 | 20.12 | 20.95 | 23.70 | 26.46 | 27.84 | 30.59 | 33.35 | 34.72 |
| 1.054 | 37 | 6.492 | 39 | 6.842 | 9.09 | 11.57 | 12.95 | 14.33 | 17.09 | 20.39 | 21.22 | 23.98 | 26.73 | 28.11 | 30.87 | 33.62 | 35.00 |
| 1.056 | 36 | 6.316 | 38 | 6.667 | 9.37 | 11.85 | 13.23 | 14.61 | 17.36 | 20.67 | 21.50 | 24.25 | 27.01 | 28.39 | 31.14 | 33.90 | 35.27 |
| 1.056 | 71 | 12.457 | 75 | 13.158 | – | – | – | – | – | – | – | 14.33 | 17.08 | 18.46 | 21.22 | 23.97 | 25.35 |
| 1.057 | 35 | 6.141 | 37 | 6.492 | 9.64 | 12.12 | 13.50 | 14.88 | 17.64 | 20.94 | 21.77 | 24.53 | 27.28 | 28.66 | 31.42 | 34.17 | 35.55 |
| 1.057 | 53 | 9.299 | 56 | 9.825 | – | – | – | – | 12.54 | 15.84 | 16.67 | 19.43 | 22.18 | 23.56 | 26.32 | 29.07 | 30.45 |
| 1.059 | 34 | 5.965 | 36 | 6.316 | 9.92 | 12.40 | 13.78 | 15.16 | 17.91 | 21.22 | 22.05 | 24.80 | 27.56 | 28.94 | 31.69 | 34.45 | 35.82 |
| 1.060 | 50 | 8.772 | 53 | 9.299 | – | – | – | 10.61 | 13.36 | 16.67 | 17.50 | 20.26 | 23.01 | 24.39 | 27.15 | 29.90 | 31.28 |
| 1.060 | 67 | 11.755 | 71 | 12.457 | – | – | – | – | – | – | – | 15.43 | 18.19 | 19.57 | 22.32 | 25.08 | 26.45 |
| 1.061 | 33 | 5.790 | 35 | 6.141 | 10.19 | 12.67 | 14.05 | 15.43 | 18.19 | 21.49 | 22.32 | 25.08 | 27.83 | 29.21 | 31.97 | 34.72 | 36.10 |
| 1.063 | 32 | 5.614 | 34 | 5.965 | 10.47 | 12.95 | 14.33 | 15.71 | 18.47 | 21.77 | 22.60 | 25.36 | 28.11 | 29.49 | 32.25 | 35.00 | 36.38 |
| 1.063 | 63 | 11.053 | 67 | 11.755 | – | – | – | – | – | 12.95 | 13.78 | 16.53 | 19.29 | 20.67 | 23.42 | 26.18 | 27.55 |
| 1.065 | 31 | 5.439 | 33 | 5.790 | 10.74 | 13.22 | 14.60 | 15.98 | 18.74 | 22.05 | 22.88 | 25.63 | 28.39 | 29.77 | 32.52 | 35.28 | 36.65 |
| 1.067 | 30 | 5.263 | 32 | 5.614 | 11.02 | 13.50 | 14.88 | 16.26 | 19.02 | 22.32 | 23.15 | 25.91 | 28.66 | 30.04 | 32.80 | 35.55 | 36.93 |
| 1.067 | 45 | 7.895 | 48 | 8.421 | – | 9.23 | 10.61 | 11.99 | 14.74 | 18.05 | 18.88 | 21.63 | 24.39 | 25.77 | 28.52 | 31.28 | 32.65 |
| 1.067 | 75 | 13.158 | 80 | 14.036 | – | – | – | – | – | – | – | – | 15.84 | 17.22 | 19.98 | 22.73 | 24.11 |
| 1.069 | 29 | 5.088 | 31 | 5.439 | 11.30 | 13.78 | 15.16 | 16.54 | 19.29 | 22.60 | 23.43 | 26.18 | 28.94 | 30.32 | 33.07 | 35.83 | 37.20 |
| 1.071 | 28 | 4.912 | 30 | 5.263 | 11.57 | 14.05 | 15.43 | 16.81 | 19.57 | 22.87 | 23.70 | 26.46 | 29.21 | 30.59 | 33.35 | 36.10 | 37.48 |
| 1.071 | 56 | 9.825 | 60 | 10.527 | – | – | – | – | 11.57 | 14.88 | 15.71 | 18.46 | 21.22 | 22.60 | 25.35 | 28.11 | 29.48 |
| 1.075 | 40 | 7.018 | 43 | 7.544 | 8.12 | 10.60 | 11.99 | 13.37 | 16.12 | 19.43 | 20.26 | 23.01 | 25.77 | 27.15 | 29.90 | 32.66 | 34.03 |
| 1.081 | 37 | 6.492 | 40 | 7.018 | 8.95 | 11.43 | 12.81 | 14.19 | 16.95 | 20.25 | 21.08 | 23.84 | 26.59 | 27.97 | 30.73 | 33.48 | 34.86 |
| 1.083 | 36 | 6.316 | 39 | 6.842 | 9.23 | 11.71 | 13.09 | 14.47 | 17.22 | 20.53 | 21.36 | 24.11 | 26.87 | 28.25 | 31.00 | 33.76 | 35.13 |
| 1.086 | 35 | 6.141 | 38 | 6.667 | 9.50 | 11.98 | 13.36 | 14.74 | 17.50 | 20.80 | 21.63 | 24.39 | 27.14 | 28.52 | 31.28 | 34.03 | 35.41 |
| 1.088 | 34 | 5.965 | 37 | 6.492 | 9.78 | 12.26 | 13.64 | 15.02 | 17.77 | 21.08 | 21.91 | 24.66 | 27.42 | 28.80 | 31.56 | 34.31 | 35.69 |
| 1.091 | 33 | 5.790 | 36 | 6.316 | 10.05 | 12.53 | 13.91 | 15.29 | 18.05 | 21.36 | 22.19 | 24.94 | 27.70 | 29.08 | 31.83 | 34.59 | 35.96 |
| 1.094 | 32 | 5.614 | 35 | 6.141 | 10.33 | 12.81 | 14.19 | 15.57 | 18.33 | 21.63 | 22.46 | 25.22 | 27.97 | 29.35 | 32.11 | 34.86 | 36.24 |
| 1.097 | 31 | 5.439 | 34 | 5.965 | 10.61 | 13.09 | 14.47 | 15.85 | 18.60 | 21.91 | 22.74 | 25.49 | 28.25 | 29.63 | 32.38 | 35.14 | 36.51 |
| 1.100 | 30 | 5.263 | 33 | 5.790 | 10.88 | 13.36 | 14.74 | 16.12 | 18.88 | 22.18 | 23.01 | 25.77 | 28.52 | 29.90 | 32.66 | 35.41 | 36.79 |
| 1.103 | 29 | 5.088 | 32 | 5.614 | 11.16 | 13.64 | 15.02 | 16.40 | 19.15 | 22.46 | 23.29 | 26.04 | 28.80 | 30.18 | 32.93 | 35.69 | 37.06 |
| 1.103 | 39 | 6.842 | 43 | 7.544 | 8.26 | 10.74 | 12.12 | 13.50 | 16.26 | 19.56 | 20.39 | 23.15 | 25.90 | 27.28 | 30.04 | 32.79 | 34.17 |
| 1.104 | 48 | 8.421 | 53 | 9.299 | – | – | – | 10.88 | 13.64 | 16.94 | 17.77 | 20.53 | 23.28 | 24.66 | 27.42 | 30.17 | 31.55 |
| Length Factor* | | | | | 0.68 | 0.73 | 0.75 | 0.77 | 0.81 | 0.85 | 0.86 | 0.89 | 0.92 | 0.94 | 0.96 | 0.99 | 1.00 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table (Continued)



| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 2380-14MX | 2450-14MX | 2520-14MX | 2590-14MX | 2660-14MX | 2800-14MX | 3136-14MX | 3304-14MX | 3360-14MX | 3500-14MX | 3850-14MX | 3920-14MX | 4326-14MX | 4410-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |
| 1.000 | 28 | 4.912 | 28 | 4.912 | 39.13 | 40.51 | 41.89 | 43.27 | 44.64 | 47.40 | 54.01 | 57.32 | 58.42 | 61.18 | 68.07 | 69.45 | 77.44 | 79.09 |
| 1.000 | 29 | 5.088 | 29 | 5.088 | 38.86 | 40.24 | 41.61 | 42.99 | 44.37 | 47.13 | 53.74 | 57.05 | 58.15 | 60.90 | 67.79 | 69.17 | 77.16 | 78.82 |
| 1.000 | 30 | 5.263 | 30 | 5.263 | 38.58 | 39.96 | 41.34 | 42.72 | 44.09 | 46.85 | 53.46 | 56.77 | 57.87 | 60.63 | 67.52 | 68.90 | 76.89 | 78.54 |
| 1.000 | 31 | 5.439 | 31 | 5.439 | 38.31 | 39.69 | 41.06 | 42.44 | 43.82 | 46.58 | 53.19 | 56.50 | 57.60 | 60.35 | 67.24 | 68.62 | 76.61 | 78.27 |
| 1.000 | 32 | 5.614 | 32 | 5.614 | 38.03 | 39.41 | 40.79 | 42.17 | 43.54 | 46.30 | 52.91 | 56.22 | 57.32 | 60.08 | 66.97 | 68.35 | 76.34 | 77.99 |
| 1.000 | 33 | 5.790 | 33 | 5.790 | 37.76 | 39.14 | 40.51 | 41.89 | 43.27 | 46.03 | 52.64 | 55.95 | 57.05 | 59.80 | 66.69 | 68.07 | 76.06 | 77.72 |
| 1.000 | 34 | 5.965 | 34 | 5.965 | 37.48 | 38.86 | 40.24 | 41.62 | 42.99 | 45.75 | 52.36 | 55.67 | 56.77 | 59.53 | 66.42 | 67.80 | 75.79 | 77.44 |
| 1.000 | 35 | 6.141 | 35 | 6.141 | 37.20 | 38.58 | 39.96 | 41.34 | 42.71 | 45.47 | 52.08 | 55.39 | 56.49 | 59.25 | 66.14 | 67.52 | 75.51 | 77.16 |
| 1.000 | 36 | 6.316 | 36 | 6.316 | 36.93 | 38.31 | 39.68 | 41.06 | 42.44 | 45.20 | 51.81 | 55.12 | 56.22 | 58.97 | 65.86 | 67.24 | 75.23 | 76.89 |
| 1.000 | 37 | 6.492 | 37 | 6.492 | 36.65 | 38.03 | 39.41 | 40.79 | 42.16 | 44.92 | 51.53 | 54.84 | 55.94 | 58.70 | 65.59 | 66.97 | 74.96 | 76.61 |
| 1.000 | 38 | 6.667 | 38 | 6.667 | 36.38 | 37.76 | 39.13 | 40.51 | 41.89 | 44.65 | 51.26 | 54.57 | 55.67 | 58.42 | 65.31 | 66.69 | 74.68 | 76.34 |
| 1.000 | 39 | 6.842 | 39 | 6.842 | 36.10 | 37.48 | 38.86 | 40.24 | 41.61 | 44.37 | 50.98 | 54.29 | 55.39 | 58.15 | 65.04 | 66.42 | 74.41 | 76.06 |
| 1.000 | 40 | 7.018 | 40 | 7.018 | 35.83 | 37.21 | 38.58 | 39.96 | 41.34 | 44.10 | 50.71 | 54.02 | 55.12 | 57.87 | 64.76 | 66.14 | 74.13 | 75.79 |
| 1.000 | 43 | 7.544 | 43 | 7.544 | 35.00 | 36.38 | 37.75 | 39.13 | 40.51 | 43.27 | 49.88 | 53.19 | 54.29 | 57.04 | 63.93 | 65.31 | 73.30 | 74.96 |
| 1.000 | 45 | 7.895 | 45 | 7.895 | 34.45 | 35.83 | 37.20 | 38.58 | 39.96 | 42.72 | 49.33 | 52.64 | 53.74 | 56.49 | 63.38 | 64.76 | 72.75 | 74.41 |
| 1.000 | 48 | 8.421 | 48 | 8.421 | 33.62 | 35.00 | 36.38 | 37.76 | 39.13 | 41.89 | 48.50 | 51.81 | 52.91 | 55.67 | 62.56 | 63.94 | 71.93 | 73.58 |
| 1.000 | 50 | 8.772 | 50 | 8.772 | 33.07 | 34.45 | 35.83 | 37.21 | 38.58 | 41.34 | 47.95 | 51.26 | 52.36 | 55.12 | 62.01 | 63.39 | 71.38 | 73.03 |
| 1.000 | 53 | 9.299 | 53 | 9.299 | 32.24 | 33.62 | 35.00 | 36.38 | 37.75 | 40.51 | 47.12 | 50.43 | 51.53 | 54.29 | 61.18 | 62.56 | 70.55 | 72.20 |
| 1.000 | 56 | 9.825 | 56 | 9.825 | 31.42 | 32.80 | 34.17 | 35.55 | 36.93 | 39.69 | 46.30 | 49.61 | 50.71 | 53.46 | 60.35 | 61.73 | 69.72 | 71.38 |
| 1.000 | 60 | 10.527 | 60 | 10.527 | 30.31 | 31.69 | 33.07 | 34.45 | 35.82 | 38.58 | 45.19 | 48.50 | 49.60 | 52.36 | 59.25 | 60.63 | 68.62 | 70.27 |
| 1.000 | 63 | 11.053 | 63 | 11.053 | 29.49 | 30.87 | 32.24 | 33.62 | 35.00 | 37.76 | 44.37 | 47.68 | 48.78 | 51.53 | 58.42 | 59.80 | 67.79 | 69.45 |
| 1.000 | 67 | 11.755 | 67 | 11.755 | 28.39 | 29.77 | 31.14 | 32.52 | 33.90 | 36.66 | 43.27 | 46.58 | 47.68 | 50.43 | 57.32 | 58.70 | 66.69 | 68.35 |
| 1.000 | 71 | 12.457 | 71 | 12.457 | 27.28 | 28.66 | 30.04 | 31.42 | 32.79 | 35.55 | 42.16 | 45.47 | 46.57 | 49.33 | 56.22 | 57.60 | 65.59 | 67.24 |
| 1.000 | 75 | 13.158 | 75 | 13.158 | 26.18 | 27.56 | 28.94 | 30.32 | 31.69 | 34.45 | 41.06 | 44.37 | 45.47 | 48.23 | 55.12 | 56.50 | 64.49 | 66.14 |
| 1.000 | 80 | 14.036 | 80 | 14.036 | 24.80 | 26.18 | 27.56 | 28.94 | 30.31 | 33.07 | 39.68 | 42.99 | 44.09 | 46.85 | 53.74 | 55.12 | 63.11 | 64.76 |
| 1.026 | 38 | 6.667 | 39 | 6.842 | 36.24 | 37.62 | 38.99 | 40.37 | 41.75 | 44.51 | 51.12 | 54.43 | 55.53 | 58.28 | 65.17 | 66.55 | 74.55 | 76.20 |
| 1.026 | 39 | 6.842 | 40 | 7.018 | 35.96 | 37.34 | 38.72 | 40.10 | 41.47 | 44.23 | 50.84 | 54.15 | 55.25 | 58.01 | 64.90 | 66.28 | 74.27 | 75.92 |
| 1.027 | 37 | 6.492 | 38 | 6.667 | 36.51 | 37.89 | 39.27 | 40.65 | 42.02 | 44.78 | 51.39 | 54.70 | 55.80 | 58.56 | 65.45 | 66.83 | 74.82 | 76.47 |
| 1.028 | 36 | 6.316 | 37 | 6.492 | 36.79 | 38.17 | 39.55 | 40.93 | 42.30 | 45.06 | 51.67 | 54.98 | 56.08 | 58.84 | 65.73 | 67.11 | 75.10 | 76.75 |
| 1.029 | 34 | 5.965 | 35 | 6.141 | 37.34 | 38.72 | 40.10 | 41.48 | 42.85 | 45.61 | 52.22 | 55.53 | 56.63 | 59.39 | 66.28 | 67.66 | 75.65 | 77.30 |
| 1.029 | 35 | 6.141 | 36 | 6.316 | 37.07 | 38.45 | 39.82 | 41.20 | 42.58 | 45.34 | 51.95 | 55.26 | 56.36 | 59.11 | 66.00 | 67.38 | 75.37 | 77.03 |
| 1.030 | 33 | 5.790 | 34 | 5.965 | 37.62 | 39.00 | 40.37 | 41.75 | 43.13 | 45.89 | 52.50 | 55.81 | 56.91 | 59.66 | 66.55 | 67.93 | 75.92 | 77.58 |
| 1.031 | 32 | 5.614 | 33 | 5.790 | 37.89 | 39.27 | 40.65 | 42.03 | 43.40 | 46.16 | 52.77 | 56.08 | 57.18 | 59.94 | 66.83 | 68.21 | 76.20 | 77.85 |
| 1.032 | 31 | 5.439 | 32 | 5.614 | 38.17 | 39.55 | 40.92 | 42.30 | 43.68 | 46.44 | 53.05 | 56.36 | 57.46 | 60.21 | 67.10 | 68.48 | 76.47 | 78.13 |
| 1.033 | 30 | 5.263 | 31 | 5.439 | 38.44 | 39.82 | 41.20 | 42.58 | 43.95 | 46.71 | 53.32 | 56.63 | 57.73 | 60.49 | 67.38 | 68.76 | 76.75 | 78.40 |
| 1.034 | 29 | 5.088 | 30 | 5.263 | 38.72 | 40.10 | 41.48 | 42.86 | 44.23 | 46.99 | 53.60 | 56.91 | 58.01 | 60.77 | 67.66 | 69.04 | 77.03 | 78.68 |
| 1.036 | 28 | 4.912 | 29 | 5.088 | 39.00 | 40.38 | 41.75 | 43.13 | 44.51 | 47.27 | 53.88 | 57.19 | 58.29 | 61.04 | 67.93 | 69.31 | 77.30 | 78.96 |
| 1.042 | 48 | 8.421 | 50 | 8.772 | 33.35 | 34.73 | 36.10 | 37.48 | 38.86 | 41.62 | 48.23 | 51.54 | 52.64 | 55.39 | 62.28 | 63.66 | 71.65 | 73.31 |
| 1.047 | 43 | 7.544 | 45 | 7.895 | 34.72 | 36.10 | 37.48 | 38.86 | 40.23 | 42.99 | 49.60 | 52.91 | 54.01 | 56.77 | 63.66 | 65.04 | 73.03 | 74.68 |
| 1.050 | 60 | 10.527 | 63 | 11.053 | 29.90 | 31.28 | 32.66 | 34.04 | 35.41 | 38.17 | 44.78 | 48.09 | 49.19 | 51.95 | 58.84 | 60.22 | 68.21 | 69.86 |
| 1.053 | 38 | 6.667 | 40 | 7.018 | 36.10 | 37.48 | 38.86 | 40.24 | 41.61 | 44.37 | 50.98 | 54.29 | 55.39 | 58.15 | 65.04 | 66.42 | 74.41 | 76.06 |
| 1.054 | 37 | 6.492 | 39 | 6.842 | 36.38 | 37.76 | 39.13 | 40.51 | 41.89 | 44.65 | 51.26 | 54.57 | 55.67 | 58.42 | 65.31 | 66.69 | 74.68 | 76.34 |
| 1.056 | 36 | 6.316 | 38 | 6.667 | 36.65 | 38.03 | 39.41 | 40.79 | 42.16 | 44.92 | 51.53 | 54.84 | 55.94 | 58.70 | 65.59 | 66.97 | 74.96 | 76.61 |
| 1.056 | 71 | 12.457 | 75 | 13.158 | 26.73 | 28.11 | 29.48 | 30.87 | 32.24 | 35.00 | 41.61 | 44.92 | 46.02 | 48.78 | 55.67 | 57.05 | 65.04 | 66.69 |
| 1.057 | 35 | 6.141 | 37 | 6.492 | 36.93 | 38.31 | 39.68 | 41.06 | 42.44 | 45.20 | 51.81 | 55.12 | 56.22 | 58.97 | 65.86 | 67.24 | 75.23 | 76.89 |
| 1.057 | 53 | 9.299 | 56 | 9.825 | 31.83 | 33.21 | 34.58 | 35.96 | 37.34 | 40.10 | 46.71 | 50.02 | 51.12 | 53.87 | 60.76 | 62.14 | 70.13 | 71.79 |
| 1.059 | 34 | 5.965 | 36 | 6.316 | 37.20 | 38.58 | 39.96 | 41.34 | 42.71 | 45.47 | 52.08 | 55.39 | 56.49 | 59.25 | 66.14 | 67.52 | 75.51 | 77.16 |
| 1.060 | 50 | 8.772 | 53 | 9.299 | 32.66 | 34.04 | 35.41 | 36.79 | 38.17 | 40.93 | 47.54 | 50.85 | 51.95 | 54.70 | 61.59 | 62.97 | 70.96 | 72.62 |
| 1.060 | 67 | 11.755 | 71 | 12.457 | 27.83 | 29.21 | 30.59 | 31.97 | 33.34 | 36.10 | 42.71 | 46.02 | 47.12 | 49.88 | 56.77 | 58.15 | 66.14 | 67.79 |
| 1.061 | 33 | 5.790 | 35 | 6.141 | 37.48 | 38.86 | 40.23 | 41.61 | 42.99 | 45.75 | 52.36 | 55.67 | 56.77 | 59.52 | 66.41 | 67.79 | 75.78 | 77.44 |
| 1.063 | 32 | 5.614 | 34 | 5.965 | 37.76 | 39.14 | 40.51 | 41.89 | 43.27 | 46.03 | 52.64 | 55.95 | 57.05 | 59.80 | 66.69 | 68.07 | 76.06 | 77.72 |
| 1.063 | 63 | 11.053 | 67 | 11.755 | 28.93 | 30.31 | 31.69 | 33.07 | 34.44 | 37.20 | 43.82 | 47.13 | 48.23 | 50.98 | 57.87 | 59.25 | 67.24 | 68.90 |
| 1.065 | 31 | 5.439 | 33 | 5.790 | 38.03 | 39.41 | 40.79 | 42.17 | 43.54 | 46.30 | 52.91 | 56.22 | 57.32 | 60.08 | 66.97 | 68.35 | 76.34 | 77.99 |
| 1.067 | 30 | 5.263 | 32 | 5.614 | 38.31 | 39.69 | 41.06 | 42.44 | 43.82 | 46.58 | 53.19 | 56.50 | 57.60 | 60.35 | 67.24 | 68.62 | 76.61 | 78.27 |
| 1.067 | 45 | 7.895 | 48 | 8.421 | 34.03 | 35.41 | 36.79 | 38.17 | 39.54 | 42.30 | 48.91 | 52.22 | 53.32 | 56.08 | 62.97 | 64.35 | 72.34 | 73.99 |
| 1.067 | 75 | 13.158 | 80 | 14.036 | 25.49 | 26.87 | 28.24 | 29.62 | 31.00 | 33.76 | 40.37 | 43.68 | 44.78 | 47.53 | 54.43 | 55.81 | 63.80 | 65.45 |
| 1.069 | 29 | 5.088 | 31 | 5.439 | 38.58 | 39.96 | 41.34 | 42.72 | 44.09 | 46.85 | 53.46 | 56.77 | 57.87 | 60.63 | 67.52 | 68.90 | 76.89 | 78.54 |
| 1.071 | 28 | 4.912 | 30 | 5.263 | 38.86 | 40.24 | 41.61 | 42.99 | 44.37 | 47.13 | 53.74 | 57.05 | 58.15 | 60.90 | 67.79 | 69.17 | 77.16 | 78.82 |
| 1.071 | 56 | 9.825 | 60 | 10.527 | 30.86 | 32.24 | 33.62 | 35.00 | 36.37 | 39.13 | 45.74 | 49.05 | 50.15 | 52.91 | 59.80 | 61.18 | 69.17 | 70.82 |
| 1.075 | 40 | 7.018 | 43 | 7.544 | 35.41 | 36.79 | 38.17 | 39.55 | 40.92 | 43.68 | 50.29 | 53.60 | 54.70 | 57.46 | 64.35 | 65.73 | 73.72 | 75.37 |
| 1.081 | 37 | 6.492 | 40 | 7.018 | 36.24 | 37.62 | 38.99 | 40.37 | 41.75 | 44.51 | 51.12 | 54.43 | 55.53 | 58.28 | 65.17 | 66.55 | 74.54 | 76.20 |
| 1.083 | 36 | 6.316 | 39 | 6.842 | 36.51 | 37.89 | 39.27 | 40.65 | 42.02 | 44.78 | 51.40 | 54.71 | 55.81 | 58.56 | 65.45 | 66.83 | 74.82 | 76.48 |
| 1.086 | 35 | 6.141 | 38 | 6.667 | 36.79 | 38.17 | 39.54 | 40.92 | 42.30 | 45.06 | 51.67 | 54.98 | 56.08 | 58.84 | 65.73 | 67.11 | 75.10 | 76.75 |
| 1.088 | 34 | 5.965 | 37 | 6.492 | 37.07 | 38.45 | 39.82 | 41.20 | 42.58 | 45.34 | 51.95 | 55.26 | 56.36 | 59.11 | 66.00 | 67.38 | 75.37 | 77.03 |
| 1.091 | 33 | 5.790 | 36 | 6.316 | 37.34 | 38.72 | 40.10 | 41.48 | 42.85 | 45.61 | 52.22 | 55.53 | 56.63 | 59.39 | 66.28 | 67.66 | 75.65 | 77.30 |
| 1.094 | 32 | 5.614 | 35 | 6.141 | 37.62 | 39.00 | 40.37 | 41.75 | 43.13 | 45.89 | 52.50 | 55.81 | 56.91 | 59.66 | 66.55 | 67.93 | 75.92 | 77.58 |
| 1.097 | 31 | 5.439 | 34 | 5.965 | 37.89 | 39.27 | 40.65 | 42.03 | 43.40 | 46.16 | 52.77 | 56.08 | 57.18 | 59.94 | 66.83 | 68.21 | 76.20 | 77.85 |
| 1.100 | 30 | 5.263 | 33 | 5.790 | 38.17 | 39.55 | 40.92 | 42.30 | 43.68 | 46.44 | 53.05 | 56.36 | 57.46 | 60.21 | 67.10 | 68.48 | 76.47 | 78.13 |
| 1.103 | 29 | 5.088 | 32 | 5.614 | 38.44 | 39.82 | 41.20 | 42.58 | 43.95 | 46.71 | 53.32 | 56.63 | 57.73 | 60.49 | 67.38 | 68.76 | 76.75 | 78.40 |
| 1.103 | 39 | 6.842 | 43 | 7.544 | 35.55 | 36.93 | 38.30 | 39.68 | 41.06 | 43.82 | 50.43 | 53.74 | 54.84 | 57.60 | 64.49 | 65.87 | 73.86 | 75.51 |
| 1.104 | 48 | 8.421 | 53 | 9.299 | 32.93 | 34.31 | 35.69 | 37.07 | 38.44 | 41.20 | 47.81 | 51.12 | 52.22 | 54.98 | 61.87 | 63.25 | 71.24 | 72.89 |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 994-14MX | 1120-14MX | 1190-14MX | 1260-14MX | 1400-14MX | 1568-14MX | 1610-14MX | 1750-14MX | 1890-14MX | 1960-14MX | 2100-14MX | 2240-14MX | 2310-14MX |
| Length Factor* | | | | | 0.68 | 0.73 | 0.75 | 0.77 | 0.81 | 0.85 | 0.86 | 0.89 | 0.92 | 0.94 | 0.96 | 0.99 | 1.00 |
| 1.107 | 28 | 4.912 | 31 | 5.439 | 11.43 | 13.91 | 15.29 | 16.67 | 19.43 | 22.73 | 23.56 | 26.32 | 29.07 | 30.45 | 33.21 | 35.96 | 37.34 |
| 1.111 | 36 | 6.316 | 40 | 7.018 | 9.09 | 11.57 | 12.95 | 14.33 | 17.08 | 20.39 | 21.22 | 23.97 | 26.73 | 28.11 | 30.87 | 33.62 | 35.00 |
| 1.111 | 45 | 7.895 | 50 | 8.772 | – | – | 10.33 | 11.71 | 14.46 | 17.77 | 18.60 | 21.36 | 24.11 | 25.49 | 28.25 | 31.00 | 32.38 |
| 1.114 | 35 | 6.141 | 39 | 6.842 | 9.36 | 11.84 | 13.22 | 14.60 | 17.36 | 20.67 | 21.50 | 24.25 | 27.01 | 28.39 | 31.14 | 33.90 | 35.27 |
| 1.116 | 43 | 7.544 | 48 | 8.421 | – | 9.50 | 10.88 | 12.26 | 15.01 | 18.32 | 19.15 | 21.91 | 24.66 | 26.04 | 28.80 | 31.55 | 32.93 |
| 1.117 | 60 | 10.527 | 67 | 11.755 | – | – | – | – | – | 13.35 | 14.18 | 16.94 | 19.70 | 21.08 | 23.83 | 26.59 | 27.96 |
| 1.118 | 34 | 5.965 | 38 | 6.667 | 9.64 | 12.12 | 13.50 | 14.88 | 17.64 | 20.94 | 21.77 | 24.53 | 27.28 | 28.66 | 31.42 | 34.17 | 35.55 |
| 1.119 | 67 | 11.755 | 75 | 13.158 | – | – | – | – | – | – | – | 14.87 | 17.62 | 19.01 | 21.76 | 24.52 | 25.89 |
| 1.120 | 50 | 8.772 | 56 | 9.825 | – | – | – | 10.19 | 12.94 | 16.25 | 17.08 | 19.84 | 22.59 | 23.97 | 26.73 | 29.48 | 30.86 |
| 1.121 | 33 | 5.790 | 37 | 6.492 | 9.91 | 12.39 | 13.77 | 15.15 | 17.91 | 21.22 | 22.05 | 24.80 | 27.56 | 28.94 | 31.69 | 34.45 | 35.82 |
| 1.125 | 32 | 5.614 | 36 | 6.316 | 10.19 | 12.67 | 14.05 | 15.43 | 18.19 | 21.49 | 22.32 | 25.08 | 27.83 | 29.21 | 31.97 | 34.72 | 36.10 |
| 1.125 | 40 | 7.018 | 45 | 7.895 | – | 10.32 | 11.70 | 13.09 | 15.84 | 19.15 | 19.98 | 22.73 | 25.49 | 26.87 | 29.62 | 32.38 | 33.75 |
| 1.125 | 56 | 9.825 | 63 | 11.053 | – | – | – | – | 11.15 | 14.45 | 15.29 | 18.04 | 20.80 | 22.18 | 24.93 | 27.69 | 29.07 |
| 1.125 | 80 | 14.036 | 90 | 15.790 | – | – | – | – | – | – | – | – | – | – | 17.89 | 20.65 | 22.03 |
| 1.127 | 63 | 11.053 | 71 | 12.457 | – | – | – | – | – | – | 13.21 | 15.97 | 18.73 | 20.11 | 22.86 | 25.62 | 27.00 |
| 1.127 | 71 | 12.457 | 80 | 14.036 | – | – | – | – | – | – | – | – | 16.38 | 17.76 | 20.52 | 23.27 | 24.65 |
| 1.129 | 31 | 5.439 | 35 | 6.141 | 10.46 | 12.95 | 14.33 | 15.71 | 18.46 | 21.77 | 22.60 | 25.35 | 28.11 | 29.49 | 32.24 | 35.00 | 36.37 |
| 1.132 | 38 | 6.667 | 43 | 7.544 | 8.39 | 10.87 | 12.26 | 13.64 | 16.39 | 19.70 | 20.53 | 23.28 | 26.04 | 27.42 | 30.18 | 32.93 | 34.31 |
| 1.132 | 53 | 9.299 | 60 | 10.527 | – | – | – | – | 11.97 | 15.28 | 16.11 | 18.87 | 21.62 | 23.01 | 25.76 | 28.52 | 29.89 |
| 1.133 | 30 | 5.263 | 34 | 5.965 | 10.74 | 13.22 | 14.60 | 15.98 | 18.74 | 22.04 | 22.87 | 25.63 | 28.38 | 29.76 | 32.52 | 35.27 | 36.65 |
| 1.138 | 29 | 5.088 | 33 | 5.790 | 11.02 | 13.50 | 14.88 | 16.26 | 19.01 | 22.32 | 23.15 | 25.90 | 28.66 | 30.04 | 32.79 | 35.55 | 36.92 |
| 1.143 | 28 | 4.912 | 32 | 5.614 | 11.29 | 13.77 | 15.15 | 16.53 | 19.29 | 22.60 | 23.43 | 26.18 | 28.94 | 30.32 | 33.07 | 35.83 | 37.20 |
| 1.143 | 35 | 6.141 | 40 | 7.018 | 9.22 | 11.70 | 13.08 | 14.46 | 17.22 | 20.53 | 21.36 | 24.11 | 26.87 | 28.25 | 31.00 | 33.76 | 35.13 |
| 1.147 | 34 | 5.965 | 39 | 6.842 | 9.50 | 11.98 | 13.36 | 14.74 | 17.50 | 20.80 | 21.63 | 24.39 | 27.14 | 28.52 | 31.28 | 34.03 | 35.41 |
| 1.152 | 33 | 5.790 | 38 | 6.667 | 9.77 | 12.25 | 13.63 | 15.01 | 17.77 | 21.08 | 21.91 | 24.66 | 27.42 | 28.80 | 31.55 | 34.31 | 35.68 |
| 1.154 | 39 | 6.842 | 45 | 7.895 | – | 10.46 | 11.84 | 13.22 | 15.98 | 19.28 | 20.11 | 22.87 | 25.63 | 27.01 | 29.76 | 32.52 | 33.89 |
| 1.156 | 32 | 5.614 | 37 | 6.492 | 10.05 | 12.53 | 13.91 | 15.29 | 18.05 | 21.35 | 22.18 | 24.94 | 27.69 | 29.07 | 31.83 | 34.58 | 35.96 |
| 1.161 | 31 | 5.439 | 36 | 6.316 | 10.32 | 12.81 | 14.19 | 15.57 | 18.32 | 21.63 | 22.46 | 25.21 | 27.97 | 29.35 | 32.10 | 34.86 | 36.23 |
| 1.162 | 37 | 6.492 | 43 | 7.544 | 8.52 | 11.01 | 12.39 | 13.77 | 16.53 | 19.83 | 20.66 | 23.42 | 26.18 | 27.56 | 30.31 | 33.07 | 34.44 |
| 1.163 | 43 | 7.544 | 50 | 8.772 | – | 9.21 | 10.59 | 11.97 | 14.73 | 18.04 | 18.87 | 21.63 | 24.38 | 25.76 | 28.52 | 31.27 | 32.65 |
| 1.167 | 30 | 5.263 | 35 | 6.141 | 10.60 | 13.08 | 14.46 | 15.84 | 18.60 | 21.90 | 22.73 | 25.49 | 28.24 | 29.63 | 32.38 | 35.14 | 36.51 |
| 1.167 | 48 | 8.421 | 56 | 9.825 | – | – | – | 10.45 | 13.21 | 16.52 | 17.35 | 20.11 | 22.86 | 24.24 | 27.00 | 29.76 | 31.13 |
| 1.172 | 29 | 5.088 | 34 | 5.965 | 10.88 | 13.36 | 14.74 | 16.12 | 18.87 | 22.18 | 23.01 | 25.77 | 28.52 | 29.90 | 32.66 | 35.41 | 36.79 |
| 1.176 | 34 | 5.965 | 40 | 7.018 | 9.35 | 11.84 | 13.22 | 14.60 | 17.36 | 20.66 | 21.49 | 24.25 | 27.00 | 28.38 | 31.14 | 33.89 | 35.27 |
| 1.178 | 45 | 7.895 | 53 | 9.299 | – | – | 9.90 | 11.28 | 14.04 | 17.35 | 18.18 | 20.93 | 23.69 | 25.07 | 27.83 | 30.58 | 31.96 |
| 1.179 | 28 | 4.912 | 33 | 5.790 | 11.15 | 13.63 | 15.01 | 16.39 | 19.15 | 22.46 | 23.29 | 26.04 | 28.80 | 30.18 | 32.93 | 35.69 | 37.06 |
| 1.182 | 33 | 5.790 | 39 | 6.842 | 9.63 | 12.11 | 13.49 | 14.87 | 17.63 | 20.94 | 21.77 | 24.52 | 27.28 | 28.66 | 31.41 | 34.17 | 35.54 |
| 1.183 | 60 | 10.527 | 71 | 12.457 | – | – | – | – | – | 12.78 | 13.61 | 16.37 | 19.13 | 20.51 | 23.27 | 26.03 | 27.40 |
| 1.184 | 38 | 6.667 | 45 | 7.895 | 8.10 | 10.59 | 11.97 | 13.35 | 16.11 | 19.42 | 20.25 | 23.00 | 25.76 | 27.14 | 29.90 | 32.65 | 34.03 |
| 1.188 | 32 | 5.614 | 38 | 6.667 | 9.91 | 12.39 | 13.77 | 15.15 | 17.91 | 21.21 | 22.04 | 24.80 | 27.55 | 28.93 | 31.69 | 34.45 | 35.82 |
| 1.189 | 53 | 9.299 | 63 | 11.053 | – | – | – | – | 11.54 | 14.85 | 15.69 | 18.44 | 21.20 | 22.58 | 25.34 | 28.10 | 29.47 |
| 1.190 | 63 | 11.053 | 75 | 13.158 | – | – | – | – | – | – | – | 15.40 | 18.16 | 19.54 | 22.30 | 25.06 | 26.43 |
| 1.194 | 31 | 5.439 | 37 | 6.492 | 10.18 | 12.66 | 14.04 | 15.43 | 18.18 | 21.49 | 22.32 | 25.07 | 27.83 | 29.21 | 31.97 | 34.72 | 36.10 |
| 1.194 | 36 | 6.316 | 43 | 7.544 | 8.66 | 11.14 | 12.52 | 13.91 | 16.66 | 19.97 | 20.80 | 23.56 | 26.31 | 27.69 | 30.45 | 33.20 | 34.58 |
| 1.194 | 67 | 11.755 | 80 | 14.036 | – | – | – | – | – | – | – | 14.15 | 16.91 | 18.29 | 21.05 | 23.81 | 25.19 |
| 1.196 | 56 | 9.825 | 67 | 11.755 | – | – | – | – | – | 13.88 | 14.71 | 17.47 | 20.23 | 21.61 | 24.37 | 27.13 | 28.50 |
| 1.200 | 30 | 5.263 | 36 | 6.316 | 10.46 | 12.94 | 14.32 | 15.70 | 18.46 | 21.76 | 22.59 | 25.35 | 28.11 | 29.49 | 32.24 | 35.00 | 36.37 |
| 1.200 | 40 | 7.018 | 48 | 8.421 | – | 9.89 | 11.28 | 12.66 | 15.42 | 18.73 | 19.56 | 22.31 | 25.07 | 26.45 | 29.21 | 31.96 | 33.34 |
| 1.200 | 50 | 8.772 | 60 | 10.527 | – | – | – | – | 12.37 | 15.68 | 16.51 | 19.27 | 22.03 | 23.41 | 26.17 | 28.92 | 30.30 |
| 1.200 | 75 | 13.158 | 90 | 15.790 | – | – | – | – | – | – | – | – | – | 15.79 | 18.56 | 21.32 | 22.70 |
| 1.207 | 29 | 5.088 | 35 | 6.141 | 10.73 | 13.22 | 14.60 | 15.98 | 18.73 | 22.04 | 22.87 | 25.63 | 28.38 | 29.76 | 32.52 | 35.27 | 36.65 |
| 1.212 | 33 | 5.790 | 40 | 7.018 | 9.49 | 11.97 | 13.35 | 14.73 | 17.49 | 20.80 | 21.63 | 24.38 | 27.14 | 28.52 | 31.27 | 34.03 | 35.41 |
| 1.214 | 28 | 4.912 | 34 | 5.965 | 11.01 | 13.49 | 14.87 | 16.25 | 19.01 | 22.32 | 23.15 | 25.90 | 28.66 | 30.04 | 32.79 | 35.55 | 36.92 |
| 1.216 | 37 | 6.492 | 45 | 7.895 | 8.24 | 10.72 | 12.11 | 13.49 | 16.25 | 19.55 | 20.38 | 23.14 | 25.90 | 27.28 | 30.03 | 32.79 | 34.16 |
| 1.219 | 32 | 5.614 | 39 | 6.842 | 9.76 | 12.25 | 13.63 | 15.01 | 17.77 | 21.07 | 21.90 | 24.66 | 27.42 | 28.80 | 31.55 | 34.31 | 35.68 |
| 1.226 | 31 | 5.439 | 38 | 6.667 | 10.04 | 12.52 | 13.90 | 15.28 | 18.04 | 21.35 | 22.18 | 24.93 | 27.69 | 29.07 | 31.83 | 34.58 | 35.96 |
| 1.229 | 35 | 6.141 | 43 | 7.544 | 8.79 | 11.28 | 12.66 | 14.04 | 16.80 | 20.10 | 20.94 | 23.69 | 26.45 | 27.83 | 30.58 | 33.34 | 34.71 |
| 1.231 | 39 | 6.842 | 48 | 8.421 | – | 10.03 | 11.41 | 12.79 | 15.55 | 18.86 | 19.69 | 22.45 | 25.21 | 26.59 | 29.34 | 32.10 | 33.47 |
| 1.233 | 30 | 5.263 | 37 | 6.492 | 10.31 | 12.80 | 14.18 | 15.56 | 18.32 | 21.62 | 22.45 | 25.21 | 27.97 | 29.35 | 32.10 | 34.86 | 36.23 |
| 1.233 | 43 | 7.544 | 53 | 9.299 | – | – | 10.16 | 11.54 | 14.30 | 17.61 | 18.45 | 21.20 | 23.96 | 25.34 | 28.10 | 30.85 | 32.23 |
| 1.241 | 29 | 5.088 | 36 | 6.316 | 10.59 | 13.07 | 14.46 | 15.84 | 18.59 | 21.90 | 22.73 | 25.49 | 28.24 | 29.62 | 32.38 | 35.13 | 36.51 |
| 1.244 | 45 | 7.895 | 56 | 9.825 | – | – | – | 10.84 | 13.61 | 16.92 | 17.75 | 20.51 | 23.27 | 24.65 | 27.41 | 30.16 | 31.54 |
| 1.250 | 28 | 4.912 | 35 | 6.141 | 10.87 | 13.35 | 14.73 | 16.11 | 18.87 | 22.18 | 23.01 | 25.76 | 28.52 | 29.90 | 32.65 | 35.41 | 36.78 |
| 1.250 | 32 | 5.614 | 40 | 7.018 | 9.62 | 12.10 | 13.49 | 14.87 | 17.62 | 20.93 | 21.76 | 24.52 | 27.27 | 28.66 | 31.41 | 34.17 | 35.54 |
| 1.250 | 36 | 6.316 | 45 | 7.895 | 8.37 | 10.85 | 12.24 | 13.62 | 16.38 | 19.69 | 20.52 | 23.28 | 26.03 | 27.41 | 30.17 | 32.92 | 34.30 |
| 1.250 | 40 | 7.018 | 50 | 8.772 | – | 9.60 | 10.99 | 12.37 | 15.13 | 18.44 | 19.27 | 22.03 | 24.79 | 26.17 | 28.93 | 31.68 | 33.06 |
| 1.250 | 48 | 8.421 | 60 | 10.527 | – | – | – | – | 12.63 | 15.95 | 16.78 | 19.54 | 22.30 | 23.68 | 26.44 | 29.19 | 30.57 |
| 1.250 | 60 | 10.527 | 75 | 13.158 | – | – | – | – | – | – | 13.03 | 15.79 | 18.56 | 19.94 | 22.70 | 25.46 | 26.84 |
| 1.258 | 31 | 5.439 | 39 | 6.842 | 9.89 | 12.38 | 13.76 | 15.14 | 17.90 | 21.21 | 22.04 | 24.79 | 27.55 | 28.93 | 31.69 | 34.44 | 35.82 |
| 1.260 | 50 | 8.772 | 63 | 11.053 | – | – | – | – | 11.93 | 15.25 | 16.08 | 18.84 | 21.60 | 22.99 | 25.74 | 28.50 | 29.88 |
| 1.263 | 38 | 6.667 | 48 | 8.421 | – | 10.16 | 11.54 | 12.93 | 15.69 | 18.99 | 19.83 | 22.58 | 25.34 | 26.72 | 29.48 | 32.23 | 33.61 |
| Length Factor* | | | | | 0.68 | 0.73 | 0.75 | 0.77 | 0.81 | 0.85 | 0.86 | 0.89 | 0.92 | 0.94 | 0.96 | 0.99 | 1.00 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table (Continued)



| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 2380-14MX | 2450-14MX | 2520-14MX | 2590-14MX | 2660-14MX | 2800-14MX | 3136-14MX | 3304-14MX | 3360-14MX | 3500-14MX | 3850-14MX | 3920-14MX | 4326-14MX | 4410-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |
| 1.107 | 28 | 4.912 | 31 | 5.439 | 38.72 | 40.10 | 41.47 | 42.85 | 44.23 | 46.99 | 53.60 | 56.91 | 58.01 | 60.76 | 67.65 | 69.03 | 77.02 | 78.68 |
| 1.111 | 36 | 6.316 | 40 | 7.018 | 36.38 | 37.76 | 39.13 | 40.51 | 41.89 | 44.65 | 51.26 | 54.57 | 55.67 | 58.42 | 65.31 | 66.69 | 74.68 | 76.34 |
| 1.111 | 45 | 7.895 | 50 | 8.772 | 33.76 | 35.14 | 36.51 | 37.89 | 39.27 | 42.03 | 48.64 | 51.95 | 53.05 | 55.80 | 62.69 | 64.07 | 72.06 | 73.72 |
| 1.114 | 35 | 6.141 | 39 | 6.842 | 36.65 | 38.03 | 39.41 | 40.79 | 42.16 | 44.92 | 51.53 | 54.84 | 55.94 | 58.70 | 65.59 | 66.97 | 74.96 | 76.61 |
| 1.116 | 43 | 7.544 | 48 | 8.421 | 34.31 | 35.69 | 37.06 | 38.44 | 39.82 | 42.58 | 49.19 | 52.50 | 53.60 | 56.35 | 63.24 | 64.62 | 72.61 | 74.27 |
| 1.117 | 60 | 10.527 | 67 | 11.755 | 29.34 | 30.72 | 32.10 | 33.48 | 34.85 | 37.61 | 44.23 | 47.54 | 48.64 | 51.39 | 58.28 | 59.66 | 67.65 | 69.31 |
| 1.118 | 34 | 5.965 | 38 | 6.667 | 36.93 | 38.31 | 39.68 | 41.06 | 42.44 | 45.20 | 51.81 | 55.12 | 56.22 | 58.97 | 65.86 | 67.24 | 75.23 | 76.89 |
| 1.119 | 67 | 11.755 | 75 | 13.158 | 27.27 | 28.65 | 30.03 | 31.41 | 32.79 | 35.55 | 42.16 | 45.47 | 46.57 | 49.32 | 56.21 | 57.59 | 65.58 | 67.24 |
| 1.120 | 50 | 8.772 | 56 | 9.825 | 32.24 | 33.62 | 34.99 | 36.38 | 37.75 | 40.51 | 47.12 | 50.43 | 51.53 | 54.29 | 61.18 | 62.56 | 70.55 | 72.20 |
| 1.121 | 33 | 5.790 | 37 | 6.492 | 37.20 | 38.58 | 39.96 | 41.34 | 42.71 | 45.47 | 52.08 | 55.39 | 56.49 | 59.25 | 66.14 | 67.52 | 75.51 | 77.16 |
| 1.125 | 32 | 5.614 | 36 | 6.316 | 37.48 | 38.86 | 40.23 | 41.61 | 42.99 | 45.75 | 52.36 | 55.67 | 56.77 | 59.52 | 66.41 | 67.79 | 75.78 | 77.44 |
| 1.125 | 40 | 7.018 | 45 | 7.895 | 35.13 | 36.51 | 37.89 | 39.27 | 40.64 | 43.41 | 50.02 | 53.33 | 54.43 | 57.18 | 64.07 | 65.45 | 73.44 | 75.10 |
| 1.125 | 56 | 9.825 | 63 | 11.053 | 30.45 | 31.83 | 33.20 | 34.58 | 35.96 | 38.72 | 45.33 | 48.64 | 49.74 | 52.49 | 59.38 | 60.76 | 68.75 | 70.41 |
| 1.125 | 80 | 14.036 | 90 | 15.790 | 23.41 | 24.79 | 26.17 | 27.55 | 28.92 | 31.68 | 38.29 | 41.61 | 42.71 | 45.46 | 52.35 | 53.73 | 61.72 | 63.38 |
| 1.127 | 63 | 11.053 | 71 | 12.457 | 28.38 | 29.76 | 31.13 | 32.51 | 33.89 | 36.65 | 43.26 | 46.57 | 47.67 | 50.43 | 57.32 | 58.70 | 66.69 | 68.34 |
| 1.127 | 71 | 12.457 | 80 | 14.036 | 26.03 | 27.41 | 28.79 | 30.17 | 31.54 | 34.30 | 40.91 | 44.23 | 45.33 | 48.08 | 54.97 | 56.35 | 64.34 | 66.00 |
| 1.129 | 31 | 5.439 | 35 | 6.141 | 37.75 | 39.13 | 40.51 | 41.89 | 43.26 | 46.02 | 52.63 | 55.94 | 57.04 | 59.80 | 66.69 | 68.07 | 76.06 | 77.71 |
| 1.132 | 38 | 6.667 | 43 | 7.544 | 35.69 | 37.07 | 38.44 | 39.82 | 41.20 | 43.96 | 50.57 | 53.88 | 54.98 | 57.73 | 64.62 | 66.00 | 73.99 | 75.65 |
| 1.132 | 53 | 9.299 | 60 | 10.527 | 31.27 | 32.65 | 34.03 | 35.41 | 36.78 | 39.54 | 46.15 | 49.46 | 50.56 | 53.32 | 60.21 | 61.59 | 69.58 | 71.24 |
| 1.133 | 30 | 5.263 | 34 | 5.965 | 38.03 | 39.41 | 40.79 | 42.17 | 43.54 | 46.30 | 52.91 | 56.22 | 57.32 | 60.08 | 66.97 | 68.35 | 76.34 | 77.99 |
| 1.138 | 29 | 5.088 | 33 | 5.790 | 38.30 | 39.68 | 41.06 | 42.44 | 43.82 | 46.58 | 53.19 | 56.50 | 57.60 | 60.35 | 67.24 | 68.62 | 76.61 | 78.27 |
| 1.143 | 28 | 4.912 | 32 | 5.614 | 38.58 | 39.96 | 41.34 | 42.72 | 44.09 | 46.85 | 53.46 | 56.77 | 57.87 | 60.63 | 67.52 | 68.90 | 76.89 | 78.54 |
| 1.143 | 35 | 6.141 | 40 | 7.018 | 36.51 | 37.89 | 39.27 | 40.65 | 42.02 | 44.78 | 51.39 | 54.70 | 55.80 | 58.56 | 65.45 | 66.83 | 74.82 | 76.47 |
| 1.147 | 34 | 5.965 | 39 | 6.842 | 36.79 | 38.17 | 39.54 | 40.92 | 42.30 | 45.06 | 51.67 | 54.98 | 56.08 | 58.83 | 65.72 | 67.10 | 75.10 | 76.75 |
| 1.152 | 33 | 5.790 | 38 | 6.667 | 37.06 | 38.44 | 39.82 | 41.20 | 42.57 | 45.33 | 51.94 | 55.25 | 56.35 | 59.11 | 66.00 | 67.38 | 75.37 | 77.03 |
| 1.154 | 39 | 6.842 | 45 | 7.895 | 35.27 | 36.65 | 38.03 | 39.41 | 40.78 | 43.54 | 50.15 | 53.46 | 54.56 | 57.32 | 64.21 | 65.59 | 73.58 | 75.23 |
| 1.156 | 32 | 5.614 | 37 | 6.492 | 37.34 | 38.72 | 40.09 | 41.47 | 42.85 | 45.61 | 52.22 | 55.53 | 56.63 | 59.39 | 66.28 | 67.66 | 75.65 | 77.30 |
| 1.161 | 31 | 5.439 | 36 | 6.316 | 37.62 | 39.00 | 40.37 | 41.75 | 43.13 | 45.89 | 52.50 | 55.81 | 56.91 | 59.66 | 66.55 | 67.93 | 75.92 | 77.58 |
| 1.162 | 37 | 6.492 | 43 | 7.544 | 35.82 | 37.20 | 38.58 | 39.96 | 41.33 | 44.09 | 50.70 | 54.01 | 55.11 | 57.87 | 64.76 | 66.14 | 74.13 | 75.78 |
| 1.163 | 43 | 7.544 | 50 | 8.772 | 34.03 | 35.41 | 36.79 | 38.17 | 39.54 | 42.30 | 48.91 | 52.22 | 53.32 | 56.08 | 62.97 | 64.35 | 72.34 | 73.99 |
| 1.167 | 30 | 5.263 | 35 | 6.141 | 37.89 | 39.27 | 40.65 | 42.03 | 43.40 | 46.16 | 52.77 | 56.08 | 57.18 | 59.94 | 66.83 | 68.21 | 76.20 | 77.85 |
| 1.167 | 48 | 8.421 | 56 | 9.825 | 32.51 | 33.89 | 35.27 | 36.65 | 38.02 | 40.78 | 47.39 | 50.70 | 51.80 | 54.56 | 61.45 | 62.83 | 70.82 | 72.48 |
| 1.172 | 29 | 5.088 | 34 | 5.965 | 38.17 | 39.55 | 40.92 | 42.30 | 43.68 | 46.44 | 53.05 | 56.36 | 57.46 | 60.21 | 67.10 | 68.48 | 76.47 | 78.13 |
| 1.176 | 34 | 5.965 | 40 | 7.018 | 36.65 | 38.03 | 39.40 | 40.78 | 42.16 | 44.92 | 51.53 | 54.84 | 55.94 | 58.70 | 65.59 | 66.97 | 74.96 | 76.61 |
| 1.178 | 45 | 7.895 | 53 | 9.299 | 33.34 | 34.72 | 36.09 | 37.47 | 38.85 | 41.61 | 48.22 | 51.53 | 52.63 | 55.39 | 62.28 | 63.66 | 71.65 | 73.30 |
| 1.179 | 28 | 4.912 | 33 | 5.790 | 38.44 | 39.82 | 41.20 | 42.58 | 43.95 | 46.71 | 53.32 | 56.63 | 57.73 | 60.49 | 67.38 | 68.76 | 76.75 | 78.40 |
| 1.182 | 33 | 5.790 | 39 | 6.842 | 36.93 | 38.31 | 39.68 | 41.06 | 42.44 | 45.20 | 51.81 | 55.12 | 56.22 | 58.97 | 65.86 | 67.24 | 75.23 | 76.89 |
| 1.183 | 60 | 10.527 | 71 | 12.457 | 28.78 | 30.16 | 31.54 | 32.92 | 34.29 | 37.06 | 43.67 | 46.98 | 48.08 | 50.83 | 57.73 | 59.11 | 67.10 | 68.75 |
| 1.184 | 38 | 6.667 | 45 | 7.895 | 35.41 | 36.79 | 38.16 | 39.54 | 40.92 | 43.68 | 50.29 | 53.60 | 54.70 | 57.45 | 64.35 | 65.73 | 73.72 | 75.37 |
| 1.188 | 32 | 5.614 | 38 | 6.667 | 37.20 | 38.58 | 39.96 | 41.34 | 42.71 | 45.47 | 52.08 | 55.39 | 56.49 | 59.25 | 66.14 | 67.52 | 75.51 | 77.16 |
| 1.189 | 53 | 9.299 | 63 | 11.053 | 30.85 | 32.23 | 33.61 | 34.99 | 36.37 | 39.13 | 45.74 | 49.05 | 50.15 | 52.90 | 59.79 | 61.17 | 69.17 | 70.82 |
| 1.190 | 63 | 11.053 | 75 | 13.158 | 27.81 | 29.20 | 30.57 | 31.95 | 33.33 | 36.09 | 42.70 | 46.01 | 47.11 | 49.87 | 56.76 | 58.14 | 66.13 | 67.79 |
| 1.194 | 31 | 5.439 | 37 | 6.492 | 37.48 | 38.86 | 40.23 | 41.61 | 42.99 | 45.75 | 52.36 | 55.67 | 56.77 | 59.52 | 66.41 | 67.79 | 75.78 | 77.44 |
| 1.194 | 36 | 6.316 | 43 | 7.544 | 35.96 | 37.34 | 38.71 | 40.09 | 41.47 | 44.23 | 50.84 | 54.15 | 55.25 | 58.01 | 64.90 | 66.28 | 74.27 | 75.92 |
| 1.194 | 67 | 11.755 | 80 | 14.036 | 26.57 | 27.95 | 29.33 | 30.71 | 32.08 | 34.85 | 41.46 | 44.77 | 45.87 | 48.63 | 55.52 | 56.90 | 64.89 | 66.54 |
| 1.196 | 56 | 9.825 | 67 | 11.755 | 29.89 | 31.27 | 32.64 | 34.02 | 35.40 | 38.16 | 44.77 | 48.08 | 49.18 | 51.94 | 58.83 | 60.21 | 68.20 | 69.85 |
| 1.200 | 30 | 5.263 | 36 | 6.316 | 37.75 | 39.13 | 40.51 | 41.89 | 43.26 | 46.02 | 52.63 | 55.94 | 57.04 | 59.80 | 66.69 | 68.07 | 76.06 | 77.71 |
| 1.200 | 40 | 7.018 | 48 | 8.421 | 34.72 | 36.10 | 37.47 | 38.85 | 40.23 | 42.99 | 49.60 | 52.91 | 54.01 | 56.76 | 63.66 | 65.04 | 73.03 | 74.68 |
| 1.200 | 50 | 8.772 | 60 | 10.527 | 31.68 | 33.06 | 34.44 | 35.82 | 37.19 | 39.95 | 46.56 | 49.87 | 50.98 | 53.73 | 60.62 | 62.00 | 69.99 | 71.65 |
| 1.200 | 75 | 13.158 | 90 | 15.790 | 24.08 | 25.46 | 26.84 | 28.22 | 29.60 | 32.36 | 38.97 | 42.28 | 43.38 | 46.14 | 53.03 | 54.41 | 62.41 | 64.06 |
| 1.207 | 29 | 5.088 | 35 | 6.141 | 38.03 | 39.41 | 40.78 | 42.16 | 43.54 | 46.30 | 52.91 | 56.22 | 57.32 | 60.07 | 66.96 | 68.34 | 76.33 | 77.99 |
| 1.212 | 33 | 5.790 | 40 | 7.018 | 36.79 | 38.17 | 39.54 | 40.92 | 42.30 | 45.06 | 51.67 | 54.98 | 56.08 | 58.83 | 65.72 | 67.10 | 75.09 | 76.75 |
| 1.214 | 28 | 4.912 | 34 | 5.965 | 38.30 | 39.68 | 41.06 | 42.44 | 43.81 | 46.57 | 53.18 | 56.49 | 57.59 | 60.35 | 67.24 | 68.62 | 76.61 | 78.27 |
| 1.216 | 37 | 6.492 | 45 | 7.895 | 35.54 | 36.92 | 38.30 | 39.68 | 41.05 | 43.81 | 50.43 | 53.74 | 54.84 | 57.59 | 64.48 | 65.86 | 73.85 | 75.51 |
| 1.219 | 32 | 5.614 | 39 | 6.842 | 37.06 | 38.44 | 39.82 | 41.20 | 42.57 | 45.33 | 51.94 | 55.25 | 56.35 | 59.11 | 66.00 | 67.38 | 75.37 | 77.02 |
| 1.226 | 31 | 5.439 | 38 | 6.667 | 37.34 | 38.72 | 40.09 | 41.47 | 42.85 | 45.61 | 52.22 | 55.53 | 56.63 | 59.38 | 66.27 | 67.65 | 75.64 | 77.30 |
| 1.229 | 35 | 6.141 | 43 | 7.544 | 36.10 | 37.48 | 38.85 | 40.23 | 41.61 | 44.37 | 50.98 | 54.29 | 55.39 | 58.14 | 65.03 | 66.41 | 74.40 | 76.06 |
| 1.231 | 39 | 6.842 | 48 | 8.421 | 34.85 | 36.23 | 37.61 | 38.99 | 40.36 | 43.13 | 49.74 | 53.05 | 54.15 | 56.90 | 63.79 | 65.17 | 73.16 | 74.82 |
| 1.233 | 30 | 5.263 | 37 | 6.492 | 37.61 | 38.99 | 40.37 | 41.75 | 43.12 | 45.88 | 52.49 | 55.80 | 56.90 | 59.66 | 66.55 | 67.93 | 75.92 | 77.58 |
| 1.233 | 43 | 7.544 | 53 | 9.299 | 33.61 | 34.99 | 36.37 | 37.75 | 39.12 | 41.88 | 48.49 | 51.80 | 52.90 | 55.66 | 62.55 | 63.93 | 71.92 | 73.58 |
| 1.241 | 29 | 5.088 | 36 | 6.316 | 37.89 | 39.27 | 40.64 | 42.02 | 43.40 | 46.16 | 52.77 | 56.08 | 57.18 | 59.94 | 66.83 | 68.21 | 76.20 | 77.85 |
| 1.244 | 45 | 7.895 | 56 | 9.825 | 32.92 | 34.30 | 35.67 | 37.06 | 38.43 | 41.19 | 47.80 | 51.11 | 52.21 | 54.97 | 61.86 | 63.24 | 71.23 | 72.89 |
| 1.250 | 28 | 4.912 | 35 | 6.141 | 38.16 | 39.54 | 40.92 | 42.30 | 43.67 | 46.43 | 53.05 | 56.36 | 57.46 | 60.21 | 67.10 | 68.48 | 76.47 | 78.13 |
| 1.250 | 32 | 5.614 | 40 | 7.018 | 36.92 | 38.30 | 39.68 | 41.06 | 42.43 | 45.19 | 51.80 | 55.11 | 56.21 | 58.97 | 65.86 | 67.24 | 75.23 | 76.89 |
| 1.250 | 36 | 6.316 | 45 | 7.895 | 35.68 | 37.06 | 38.44 | 39.82 | 41.19 | 43.95 | 50.56 | 53.87 | 54.97 | 57.73 | 64.62 | 66.00 | 73.99 | 75.64 |
| 1.250 | 40 | 7.018 | 50 | 8.772 | 34.44 | 35.82 | 37.19 | 38.57 | 39.95 | 42.71 | 49.32 | 52.63 | 53.73 | 56.49 | 63.38 | 64.76 | 72.75 | 74.40 |
| 1.250 | 48 | 8.421 | 60 | 10.527 | 31.95 | 33.33 | 34.71 | 36.09 | 37.46 | 40.22 | 46.84 | 50.15 | 51.25 | 54.00 | 60.89 | 62.27 | 70.27 | 71.92 |
| 1.250 | 60 | 10.527 | 75 | 13.158 | 28.22 | 29.60 | 30.97 | 32.36 | 33.73 | 36.49 | 43.11 | 46.42 | 47.52 | 50.28 | 57.17 | 58.55 | 66.54 | 68.20 |
| 1.258 | 31 | 5.439 | 39 | 6.842 | 37.20 | 38.58 | 39.95 | 41.33 | 42.71 | 45.47 | 52.08 | 55.39 | 56.49 | 59.25 | 66.14 | 67.52 | 75.51 | 77.16 |
| 1.260 | 50 | 8.772 | 63 | 11.053 | 31.26 | 32.64 | 34.02 | 35.40 | 36.77 | 39.53 | 46.15 | 49.46 | 50.56 | 53.31 | 60.20 | 61.58 | 69.58 | 71.23 |
| 1.263 | 38 | 6.667 | 48 | 8.421 | 34.99 | 36.37 | 37.74 | 39.13 | 40.50 | 43.26 | 49.87 | 53.18 | 54.28 | 57.04 | 63.93 | 65.31 | 73.30 | 74.95 |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 994-14MX | 1120-14MX | 1190-14MX | 1260-14MX | 1400-14MX | 1568-14MX | 1610-14MX | 1750-14MX | 1890-14MX | 1960-14MX | 2100-14MX | 2240-14MX | 2310-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | |
| Length Factor* | | | | | 0.68 | 0.73 | 0.75 | 0.77 | 0.81 | 0.85 | 0.86 | 0.89 | 0.92 | 0.94 | 0.96 | 0.99 | 1.00 |
| 1.264 | 53 | 9.299 | 67 | 11.755 | – | – | – | – | – | 14.28 | 15.11 | 17.87 | 20.63 | 22.01 | 24.77 | 27.53 | 28.91 |
| 1.265 | 34 | 5.965 | 43 | 7.544 | 8.92 | 11.41 | 12.79 | 14.17 | 16.93 | 20.24 | 21.07 | 23.83 | 26.58 | 27.96 | 30.72 | 33.48 | 34.85 |
| 1.267 | 30 | 5.263 | 38 | 6.667 | 10.17 | 12.66 | 14.04 | 15.42 | 18.18 | 21.48 | 22.31 | 25.07 | 27.83 | 29.21 | 31.96 | 34.72 | 36.09 |
| 1.268 | 56 | 9.825 | 71 | 12.457 | – | – | – | – | – | 13.30 | 14.13 | 16.90 | 19.66 | 21.04 | 23.80 | 26.56 | 27.94 |
| 1.268 | 71 | 12.457 | 90 | 15.790 | – | – | – | – | – | – | – | – | 14.93 | 16.31 | 19.08 | 21.85 | 23.23 |
| 1.270 | 63 | 11.053 | 80 | 14.036 | – | – | – | – | – | – | – | 14.67 | 17.44 | 18.82 | 21.58 | 24.34 | 25.72 |
| 1.276 | 29 | 5.088 | 37 | 6.492 | 10.45 | 12.93 | 14.31 | 15.69 | 18.45 | 21.76 | 22.59 | 25.35 | 28.10 | 29.48 | 32.24 | 34.99 | 36.37 |
| 1.282 | 39 | 6.842 | 50 | 8.772 | – | 9.73 | 11.12 | 12.50 | 15.27 | 18.58 | 19.41 | 22.17 | 24.92 | 26.30 | 29.06 | 31.82 | 33.19 |
| 1.286 | 28 | 4.912 | 36 | 6.316 | 10.72 | 13.21 | 14.59 | 15.97 | 18.73 | 22.04 | 22.87 | 25.62 | 28.38 | 29.76 | 32.51 | 35.27 | 36.64 |
| 1.286 | 35 | 6.141 | 45 | 7.895 | 8.50 | 10.99 | 12.37 | 13.75 | 16.51 | 19.82 | 20.65 | 23.41 | 26.17 | 27.55 | 30.30 | 33.06 | 34.43 |
| 1.290 | 31 | 5.439 | 40 | 7.018 | 9.75 | 12.24 | 13.62 | 15.00 | 17.76 | 21.07 | 21.90 | 24.65 | 27.41 | 28.79 | 31.55 | 34.30 | 35.68 |
| 1.297 | 37 | 6.492 | 48 | 8.421 | – | 10.29 | 11.67 | 13.06 | 15.82 | 19.13 | 19.96 | 22.72 | 25.47 | 26.86 | 29.61 | 32.37 | 33.74 |
| 1.300 | 30 | 5.263 | 39 | 6.842 | 10.03 | 12.51 | 13.90 | 15.28 | 18.04 | 21.34 | 22.17 | 24.93 | 27.69 | 29.07 | 31.82 | 34.58 | 35.95 |
| 1.302 | 43 | 7.544 | 56 | 9.825 | – | – | 9.72 | 11.10 | 13.87 | 17.19 | 18.02 | 20.78 | 23.54 | 24.92 | 27.67 | 30.43 | 31.81 |
| 1.303 | 33 | 5.790 | 43 | 7.544 | 9.05 | 11.54 | 12.92 | 14.31 | 17.06 | 20.37 | 21.20 | 23.96 | 26.72 | 28.10 | 30.86 | 33.61 | 34.99 |
| 1.310 | 29 | 5.088 | 38 | 6.667 | 10.30 | 12.79 | 14.17 | 15.55 | 18.31 | 21.62 | 22.45 | 25.21 | 27.96 | 29.34 | 32.10 | 34.85 | 36.23 |
| 1.313 | 48 | 8.421 | 63 | 11.053 | – | – | – | – | 12.19 | 15.51 | 16.35 | 19.11 | 21.87 | 23.25 | 26.01 | 28.77 | 30.15 |
| 1.316 | 38 | 6.667 | 50 | 8.772 | – | 9.86 | 11.25 | 12.64 | 15.40 | 18.71 | 19.54 | 22.30 | 25.06 | 26.44 | 29.20 | 31.95 | 33.33 |
| 1.321 | 28 | 4.912 | 37 | 6.492 | 10.58 | 13.06 | 14.45 | 15.83 | 18.59 | 21.89 | 22.72 | 25.48 | 28.24 | 29.62 | 32.37 | 35.13 | 36.50 |
| 1.324 | 34 | 5.965 | 45 | 7.895 | 8.63 | 11.12 | 12.50 | 13.89 | 16.65 | 19.96 | 20.79 | 23.54 | 26.30 | 27.68 | 30.44 | 33.20 | 34.57 |
| 1.325 | 40 | 7.018 | 53 | 9.299 | – | 9.16 | 10.55 | 11.94 | 14.70 | 18.01 | 18.85 | 21.60 | 24.36 | 25.74 | 28.50 | 31.26 | 32.63 |
| 1.333 | 30 | 5.263 | 40 | 7.018 | 9.88 | 12.37 | 13.75 | 15.13 | 17.89 | 21.20 | 22.03 | 24.79 | 27.55 | 28.93 | 31.68 | 34.44 | 35.81 |
| 1.333 | 36 | 6.316 | 48 | 8.421 | – | 10.42 | 11.80 | 13.19 | 15.95 | 19.26 | 20.09 | 22.85 | 25.61 | 26.99 | 29.75 | 32.50 | 33.88 |
| 1.333 | 45 | 7.895 | 60 | 10.527 | – | – | – | 10.25 | 13.02 | 16.34 | 17.18 | 19.94 | 22.70 | 24.08 | 26.84 | 29.60 | 30.97 |
| 1.333 | 60 | 10.527 | 80 | 14.036 | – | – | – | – | – | – | – | 15.06 | 17.83 | 19.21 | 21.98 | 24.74 | 26.12 |
| 1.339 | 56 | 9.825 | 75 | 13.158 | – | – | – | – | – | 12.70 | 13.54 | 16.31 | 19.08 | 20.47 | 23.23 | 25.99 | 27.37 |
| 1.340 | 50 | 8.772 | 67 | 11.755 | – | – | – | – | 11.34 | 14.67 | 15.50 | 18.27 | 21.03 | 22.41 | 25.17 | 27.93 | 29.31 |
| 1.340 | 53 | 9.299 | 71 | 12.457 | – | – | – | – | – | 13.69 | 14.52 | 17.29 | 20.06 | 21.44 | 24.20 | 26.96 | 28.34 |
| 1.343 | 67 | 11.755 | 90 | 15.790 | – | – | – | – | – | – | – | – | 15.44 | 16.83 | 19.60 | 22.37 | 23.75 |
| 1.344 | 32 | 5.614 | 43 | 7.544 | 9.18 | 11.67 | 13.06 | 14.44 | 17.20 | 20.51 | 21.34 | 24.10 | 26.85 | 28.23 | 30.99 | 33.75 | 35.12 |
| 1.345 | 29 | 5.088 | 39 | 6.842 | 10.16 | 12.64 | 14.03 | 15.41 | 18.17 | 21.48 | 22.31 | 25.06 | 27.82 | 29.20 | 31.96 | 34.71 | 36.09 |
| 1.351 | 37 | 6.492 | 50 | 8.772 | – | 9.99 | 11.38 | 12.77 | 15.53 | 18.84 | 19.67 | 22.43 | 25.19 | 26.57 | 29.33 | 32.09 | 33.46 |
| 1.357 | 28 | 4.912 | 38 | 6.667 | 10.43 | 12.92 | 14.30 | 15.69 | 18.45 | 21.75 | 22.58 | 25.34 | 28.10 | 29.48 | 32.23 | 34.99 | 36.37 |
| 1.359 | 39 | 6.842 | 53 | 9.299 | – | 9.29 | 10.68 | 12.07 | 14.83 | 18.15 | 18.98 | 21.74 | 24.50 | 25.88 | 28.64 | 31.39 | 32.77 |
| 1.364 | 33 | 5.790 | 45 | 7.895 | 8.75 | 11.25 | 12.63 | 14.02 | 16.78 | 20.09 | 20.92 | 23.68 | 26.44 | 27.82 | 30.57 | 33.33 | 34.71 |
| 1.371 | 35 | 6.141 | 48 | 8.421 | 8.05 | 10.55 | 11.93 | 13.32 | 16.08 | 19.39 | 20.23 | 22.98 | 25.74 | 27.12 | 29.88 | 32.64 | 34.01 |
| 1.379 | 29 | 5.088 | 40 | 7.018 | 10.01 | 12.50 | 13.88 | 15.27 | 18.03 | 21.34 | 22.17 | 24.92 | 27.68 | 29.06 | 31.82 | 34.57 | 35.95 |
| 1.387 | 31 | 5.439 | 43 | 7.544 | 9.31 | 11.80 | 13.19 | 14.57 | 17.33 | 20.64 | 21.47 | 24.23 | 26.99 | 28.37 | 31.13 | 33.88 | 35.26 |
| 1.389 | 36 | 6.316 | 50 | 8.772 | – | 10.12 | 11.51 | 12.90 | 15.66 | 18.98 | 19.81 | 22.57 | 25.33 | 26.71 | 29.46 | 32.22 | 33.60 |
| 1.393 | 28 | 4.912 | 39 | 6.842 | 10.29 | 12.78 | 14.16 | 15.54 | 18.30 | 21.61 | 22.44 | 25.20 | 27.96 | 29.34 | 32.09 | 34.85 | 36.23 |
| 1.395 | 38 | 6.667 | 53 | 9.299 | – | 9.41 | 10.81 | 12.19 | 14.96 | 18.28 | 19.11 | 21.87 | 24.63 | 26.01 | 28.77 | 31.53 | 32.90 |
| 1.395 | 43 | 7.544 | 60 | 10.527 | – | – | – | 10.51 | 13.28 | 16.61 | 17.44 | 20.20 | 22.96 | 24.35 | 27.11 | 29.86 | 31.24 |
| 1.396 | 48 | 8.421 | 67 | 11.755 | – | – | – | – | 11.59 | 14.93 | 15.76 | 18.53 | 21.29 | 22.68 | 25.44 | 28.20 | 29.58 |
| 1.400 | 40 | 7.018 | 56 | 9.825 | – | – | 10.10 | 11.49 | 14.26 | 17.58 | 18.41 | 21.18 | 23.94 | 25.32 | 28.08 | 30.83 | 32.21 |
| 1.400 | 45 | 7.895 | 63 | 11.053 | – | – | – | – | 12.58 | 15.90 | 16.74 | 19.50 | 22.27 | 23.65 | 26.41 | 29.17 | 30.55 |
| 1.400 | 80 | 14.036 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | – | – | 17.41 | 18.80 |
| 1.406 | 32 | 5.614 | 45 | 7.895 | 8.88 | 11.38 | 12.76 | 14.15 | 16.91 | 20.22 | 21.05 | 23.81 | 26.57 | 27.95 | 30.71 | 33.47 | 34.84 |
| 1.412 | 34 | 5.965 | 48 | 8.421 | 8.17 | 10.68 | 12.06 | 13.45 | 16.21 | 19.53 | 20.36 | 23.12 | 25.88 | 27.26 | 30.02 | 32.77 | 34.15 |
| 1.415 | 53 | 9.299 | 75 | 13.158 | – | – | – | – | – | 13.08 | 13.92 | 16.70 | 19.47 | 20.86 | 23.62 | 26.39 | 27.77 |
| 1.420 | 50 | 8.772 | 71 | 12.457 | – | – | – | – | – | 14.07 | 14.91 | 17.68 | 20.45 | 21.83 | 24.60 | 27.36 | 28.74 |
| 1.429 | 28 | 4.912 | 40 | 7.018 | 10.14 | 12.63 | 14.02 | 15.40 | 18.16 | 21.47 | 22.30 | 25.06 | 27.82 | 29.20 | 31.95 | 34.71 | 36.08 |
| 1.429 | 35 | 6.141 | 50 | 8.772 | – | 10.25 | 11.64 | 13.03 | 15.79 | 19.11 | 19.94 | 22.70 | 25.46 | 26.84 | 29.60 | 32.36 | 33.73 |
| 1.429 | 56 | 9.825 | 80 | 14.036 | – | – | – | – | – | – | 12.78 | 15.57 | 18.34 | 19.73 | 22.50 | 25.27 | 26.65 |
| 1.429 | 63 | 11.053 | 90 | 15.790 | – | – | – | – | – | – | – | – | 15.95 | 17.34 | 20.12 | 22.89 | 24.27 |
| 1.432 | 37 | 6.492 | 53 | 9.299 | – | 9.54 | 10.93 | 12.32 | 15.09 | 18.41 | 19.24 | 22.00 | 24.76 | 26.15 | 28.90 | 31.66 | 33.04 |
| 1.433 | 30 | 5.263 | 43 | 7.544 | 9.44 | 11.93 | 13.32 | 14.70 | 17.46 | 20.78 | 21.61 | 24.36 | 27.12 | 28.50 | 31.26 | 34.02 | 35.39 |
| 1.436 | 39 | 6.842 | 56 | 9.825 | – | – | 10.23 | 11.62 | 14.39 | 17.71 | 18.54 | 21.31 | 24.07 | 25.45 | 28.21 | 30.97 | 32.35 |
| 1.452 | 31 | 5.439 | 45 | 7.895 | 9.01 | 11.51 | 12.89 | 14.28 | 17.04 | 20.36 | 21.19 | 23.95 | 26.70 | 28.09 | 30.84 | 33.60 | 34.98 |
| 1.455 | 33 | 5.790 | 48 | 8.421 | 8.30 | 10.80 | 12.19 | 13.58 | 16.35 | 19.66 | 20.49 | 23.25 | 26.01 | 27.39 | 30.15 | 32.91 | 34.28 |
| 1.465 | 43 | 7.544 | 63 | 11.053 | – | – | – | 10.05 | 12.83 | 16.16 | 17.00 | 19.77 | 22.53 | 23.91 | 26.68 | 29.44 | 30.81 |
| 1.471 | 34 | 5.965 | 50 | 8.772 | – | 10.38 | 11.77 | 13.16 | 15.92 | 19.24 | 20.07 | 22.83 | 25.59 | 26.97 | 29.73 | 32.49 | 33.87 |
| 1.472 | 36 | 6.316 | 53 | 9.299 | – | 9.67 | 11.06 | 12.45 | 15.22 | 18.54 | 19.37 | 22.14 | 24.90 | 26.28 | 29.04 | 31.80 | 33.17 |
| 1.474 | 38 | 6.667 | 56 | 9.825 | – | 8.95 | 10.35 | 11.75 | 14.52 | 17.84 | 18.68 | 21.44 | 24.20 | 25.58 | 28.34 | 31.10 | 32.48 |
| 1.479 | 48 | 8.421 | 71 | 12.457 | – | – | – | – | – | 14.33 | 15.16 | 17.94 | 20.71 | 22.10 | 24.86 | 27.62 | 29.00 |
| 1.483 | 29 | 5.088 | 43 | 7.544 | 9.56 | 12.06 | 13.45 | 14.83 | 17.60 | 20.91 | 21.74 | 24.50 | 27.26 | 28.64 | 31.39 | 34.15 | 35.53 |
| 1.489 | 45 | 7.895 | 67 | 11.755 | – | – | – | – | 11.97 | 15.31 | 16.15 | 18.92 | 21.69 | 23.07 | 25.83 | 28.60 | 29.97 |
| 1.493 | 75 | 13.158 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | – | – | 18.03 | 19.43 |
| 1.500 | 30 | 5.263 | 45 | 7.895 | 9.14 | 11.64 | 13.02 | 14.41 | 17.18 | 20.49 | 21.32 | 24.08 | 26.84 | 28.22 | 30.98 | 33.74 | 35.11 |
| 1.500 | 32 | 5.614 | 48 | 8.421 | 8.42 | 10.93 | 12.32 | 13.71 | 16.48 | 19.79 | 20.62 | 23.38 | 26.14 | 27.53 | 30.28 | 33.04 | 34.42 |
| 1.500 | 40 | 7.018 | 60 | 10.527 | – | – | 9.48 | 10.88 | 13.67 | 16.99 | 17.83 | 20.60 | 23.36 | 24.74 | 27.50 | 30.26 | 31.64 |
| 1.500 | 50 | 8.772 | 75 | 13.158 | – | – | – | – | – | 13.46 | 14.30 | 17.09 | 19.86 | 21.25 | 24.02 | 26.78 | 28.16 |
| 1.500 | 60 | 10.527 | 90 | 15.790 | – | – | – | – | – | – | – | 13.52 | 16.32 | 17.72 | 20.50 | 23.28 | 24.66 |
| Length Factor* | | | | | 0.68 | 0.73 | 0.75 | 0.77 | 0.81 | 0.85 | 0.86 | 0.89 | 0.92 | 0.94 | 0.96 | 0.99 | 1.00 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table (Continued)



| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 2380-14MX | 2450-14MX | 2520-14MX | 2590-14MX | 2660-14MX | 2800-14MX | 3136-14MX | 3304-14MX | 3360-14MX | 3500-14MX | 3850-14MX | 3920-14MX | 4326-14MX | 4410-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |
| 1.264 | 53 | 9.299 | 67 | 11.755 | 30.29 | 31.67 | 33.05 | 34.43 | 35.80 | 38.56 | 45.18 | 48.49 | 49.59 | 52.34 | 59.24 | 60.62 | 68.61 | 70.26 |
| 1.265 | 34 | 5.965 | 43 | 7.544 | 36.23 | 37.61 | 38.99 | 40.37 | 41.74 | 44.50 | 51.11 | 54.42 | 55.52 | 58.28 | 65.17 | 66.55 | 74.54 | 76.20 |
| 1.267 | 30 | 5.263 | 38 | 6.667 | 37.47 | 38.85 | 40.23 | 41.61 | 42.98 | 45.74 | 52.36 | 55.67 | 56.77 | 59.52 | 66.41 | 67.79 | 75.78 | 77.44 |
| 1.268 | 56 | 9.825 | 71 | 12.457 | 29.32 | 30.70 | 32.08 | 33.46 | 34.83 | 37.60 | 44.21 | 47.52 | 48.62 | 51.38 | 58.27 | 59.65 | 67.64 | 69.30 |
| 1.268 | 71 | 12.457 | 90 | 15.790 | 24.61 | 25.99 | 27.37 | 28.75 | 30.13 | 32.89 | 39.51 | 42.82 | 43.92 | 46.68 | 53.57 | 54.95 | 62.95 | 64.60 |
| 1.270 | 63 | 11.053 | 80 | 14.036 | 27.10 | 28.49 | 29.86 | 31.24 | 32.62 | 35.38 | 42.00 | 45.31 | 46.41 | 49.17 | 56.06 | 57.44 | 65.43 | 67.09 |
| 1.276 | 29 | 5.088 | 37 | 6.492 | 37.75 | 39.13 | 40.50 | 41.88 | 43.26 | 46.02 | 52.63 | 55.94 | 57.04 | 59.80 | 66.69 | 68.07 | 76.06 | 77.71 |
| 1.282 | 39 | 6.842 | 50 | 8.772 | 34.57 | 35.95 | 37.33 | 38.71 | 40.09 | 42.85 | 49.46 | 52.77 | 53.87 | 56.62 | 63.51 | 64.89 | 72.89 | 74.54 |
| 1.286 | 28 | 4.912 | 36 | 6.316 | 38.03 | 39.41 | 40.78 | 42.16 | 43.54 | 46.30 | 52.91 | 56.22 | 57.32 | 60.07 | 66.96 | 68.34 | 76.33 | 77.99 |
| 1.286 | 35 | 6.141 | 45 | 7.895 | 35.82 | 37.20 | 38.57 | 39.95 | 41.33 | 44.09 | 50.70 | 54.01 | 55.11 | 57.86 | 64.76 | 66.14 | 74.13 | 75.78 |
| 1.290 | 31 | 5.439 | 40 | 7.018 | 37.06 | 38.44 | 39.81 | 41.19 | 42.57 | 45.33 | 51.94 | 55.25 | 56.35 | 59.11 | 66.00 | 67.38 | 75.37 | 77.02 |
| 1.297 | 37 | 6.492 | 48 | 8.421 | 35.12 | 36.50 | 37.88 | 39.26 | 40.64 | 43.40 | 50.01 | 53.32 | 54.42 | 57.17 | 64.07 | 65.45 | 73.44 | 75.09 |
| 1.300 | 30 | 5.263 | 39 | 6.842 | 37.33 | 38.71 | 40.09 | 41.47 | 42.85 | 45.61 | 52.22 | 55.53 | 56.63 | 59.38 | 66.27 | 67.65 | 75.64 | 77.30 |
| 1.302 | 43 | 7.544 | 56 | 9.825 | 33.19 | 34.57 | 35.95 | 37.33 | 38.70 | 41.46 | 48.07 | 51.39 | 52.49 | 55.24 | 62.13 | 63.51 | 71.50 | 73.16 |
| 1.303 | 33 | 5.790 | 43 | 7.544 | 36.37 | 37.75 | 39.12 | 40.50 | 41.88 | 44.64 | 51.25 | 54.56 | 55.66 | 58.42 | 65.31 | 66.69 | 74.68 | 76.33 |
| 1.310 | 29 | 5.088 | 38 | 6.667 | 37.61 | 38.99 | 40.36 | 41.75 | 43.12 | 45.88 | 52.49 | 55.80 | 56.90 | 59.66 | 66.55 | 67.93 | 75.92 | 77.57 |
| 1.313 | 48 | 8.421 | 63 | 11.053 | 31.53 | 32.91 | 34.28 | 35.67 | 37.04 | 39.80 | 46.42 | 49.73 | 50.83 | 53.58 | 60.48 | 61.86 | 69.85 | 71.50 |
| 1.316 | 38 | 6.667 | 50 | 8.772 | 34.71 | 36.09 | 37.46 | 38.84 | 40.22 | 42.98 | 49.59 | 52.90 | 54.00 | 56.76 | 63.65 | 65.03 | 73.02 | 74.68 |
| 1.321 | 28 | 4.912 | 37 | 6.492 | 37.89 | 39.27 | 40.64 | 42.02 | 43.40 | 46.16 | 52.77 | 56.08 | 57.18 | 59.93 | 66.82 | 68.20 | 76.19 | 77.85 |
| 1.324 | 34 | 5.965 | 45 | 7.895 | 35.95 | 37.33 | 38.71 | 40.09 | 41.46 | 44.22 | 50.84 | 54.15 | 55.25 | 58.00 | 64.89 | 66.27 | 74.26 | 75.92 |
| 1.325 | 40 | 7.018 | 53 | 9.299 | 34.02 | 35.40 | 36.77 | 38.15 | 39.53 | 42.29 | 48.90 | 52.21 | 53.31 | 56.07 | 62.96 | 64.34 | 72.33 | 73.99 |
| 1.333 | 30 | 5.263 | 40 | 7.018 | 37.19 | 38.57 | 39.95 | 41.33 | 42.71 | 45.47 | 52.08 | 55.39 | 56.49 | 59.24 | 66.13 | 67.51 | 75.50 | 77.16 |
| 1.333 | 36 | 6.316 | 48 | 8.421 | 35.26 | 36.64 | 38.02 | 39.40 | 40.77 | 43.53 | 50.14 | 53.46 | 54.56 | 57.31 | 64.20 | 65.58 | 73.57 | 75.23 |
| 1.333 | 45 | 7.895 | 60 | 10.527 | 32.35 | 33.74 | 35.11 | 36.49 | 37.87 | 40.63 | 47.24 | 50.55 | 51.65 | 54.41 | 61.30 | 62.68 | 70.67 | 72.33 |
| 1.333 | 60 | 10.527 | 80 | 14.036 | 27.50 | 28.88 | 30.26 | 31.64 | 33.02 | 35.79 | 42.40 | 45.71 | 46.82 | 49.57 | 56.47 | 57.85 | 65.84 | 67.50 |
| 1.339 | 56 | 9.825 | 75 | 13.158 | 28.75 | 30.13 | 31.51 | 32.89 | 34.27 | 37.03 | 43.65 | 46.96 | 48.06 | 50.82 | 57.71 | 59.09 | 67.08 | 68.74 |
| 1.340 | 50 | 8.772 | 67 | 11.755 | 30.69 | 32.07 | 33.45 | 34.83 | 36.21 | 38.97 | 45.58 | 48.90 | 50.00 | 52.75 | 59.64 | 61.02 | 69.02 | 70.67 |
| 1.340 | 53 | 9.299 | 71 | 12.457 | 29.72 | 31.10 | 32.48 | 33.86 | 35.24 | 38.00 | 44.61 | 47.93 | 49.03 | 51.78 | 58.68 | 60.06 | 68.05 | 69.70 |
| 1.343 | 67 | 11.755 | 90 | 15.790 | 25.14 | 26.52 | 27.90 | 29.28 | 30.66 | 33.43 | 40.05 | 43.36 | 44.46 | 47.22 | 54.11 | 55.49 | 63.49 | 65.14 |
| 1.344 | 32 | 5.614 | 43 | 7.544 | 36.50 | 37.88 | 39.26 | 40.64 | 42.01 | 44.78 | 51.39 | 54.70 | 55.80 | 58.55 | 65.44 | 66.82 | 74.81 | 76.47 |
| 1.345 | 29 | 5.088 | 39 | 6.842 | 37.47 | 38.85 | 40.23 | 41.61 | 42.98 | 45.74 | 52.35 | 55.66 | 56.76 | 59.52 | 66.41 | 67.79 | 75.78 | 77.44 |
| 1.351 | 37 | 6.492 | 50 | 8.772 | 34.84 | 36.22 | 37.60 | 38.98 | 40.36 | 43.12 | 49.73 | 53.04 | 54.14 | 56.90 | 63.79 | 65.17 | 73.16 | 74.81 |
| 1.357 | 28 | 4.912 | 38 | 6.667 | 37.75 | 39.13 | 40.50 | 41.88 | 43.26 | 46.02 | 52.63 | 55.94 | 57.04 | 59.79 | 66.69 | 68.07 | 76.06 | 77.71 |
| 1.359 | 39 | 6.842 | 53 | 9.299 | 34.15 | 35.53 | 36.91 | 38.29 | 39.66 | 42.43 | 49.04 | 52.35 | 53.45 | 56.20 | 63.10 | 64.48 | 72.47 | 74.12 |
| 1.364 | 33 | 5.790 | 45 | 7.895 | 36.09 | 37.47 | 38.84 | 40.22 | 41.60 | 44.36 | 50.97 | 54.28 | 55.38 | 58.14 | 65.03 | 66.41 | 74.40 | 76.05 |
| 1.371 | 35 | 6.141 | 48 | 8.421 | 35.39 | 36.78 | 38.15 | 39.53 | 40.91 | 43.67 | 50.28 | 53.59 | 54.69 | 57.45 | 64.34 | 65.72 | 73.71 | 75.36 |
| 1.379 | 29 | 5.088 | 40 | 7.018 | 37.33 | 38.71 | 40.09 | 41.47 | 42.84 | 45.60 | 52.21 | 55.52 | 56.62 | 59.38 | 66.27 | 67.65 | 75.64 | 77.30 |
| 1.387 | 31 | 5.439 | 43 | 7.544 | 36.64 | 38.02 | 39.39 | 40.77 | 42.15 | 44.91 | 51.52 | 54.83 | 55.93 | 58.69 | 65.58 | 66.96 | 74.95 | 76.61 |
| 1.389 | 36 | 6.316 | 50 | 8.772 | 34.98 | 36.36 | 37.73 | 39.12 | 40.49 | 43.25 | 49.86 | 53.18 | 54.28 | 57.03 | 63.92 | 65.30 | 73.29 | 74.95 |
| 1.393 | 28 | 4.912 | 39 | 6.842 | 37.61 | 38.99 | 40.36 | 41.74 | 43.12 | 45.88 | 52.49 | 55.80 | 56.90 | 59.66 | 66.55 | 67.93 | 75.92 | 77.57 |
| 1.395 | 38 | 6.667 | 53 | 9.299 | 34.29 | 35.67 | 37.04 | 38.42 | 39.80 | 42.56 | 49.17 | 52.48 | 53.58 | 56.34 | 63.23 | 64.61 | 72.60 | 74.26 |
| 1.395 | 43 | 7.544 | 60 | 10.527 | 32.62 | 34.00 | 35.38 | 36.76 | 38.14 | 40.90 | 47.51 | 50.83 | 51.93 | 54.68 | 61.57 | 62.95 | 70.95 | 72.60 |
| 1.396 | 48 | 8.421 | 67 | 11.755 | 30.96 | 32.34 | 33.72 | 35.10 | 36.48 | 39.24 | 45.85 | 49.17 | 50.27 | 53.02 | 59.92 | 61.30 | 69.29 | 70.94 |
| 1.400 | 40 | 7.018 | 56 | 9.825 | 33.59 | 34.97 | 36.35 | 37.73 | 39.11 | 41.87 | 48.48 | 51.79 | 52.89 | 55.65 | 62.54 | 63.92 | 71.91 | 73.57 |
| 1.400 | 45 | 7.895 | 63 | 11.053 | 31.93 | 33.31 | 34.69 | 36.07 | 37.44 | 40.21 | 46.82 | 50.13 | 51.23 | 53.99 | 60.88 | 62.26 | 70.26 | 71.91 |
| 1.400 | 80 | 14.036 | 112 | 19.650 | 20.20 | 21.59 | 22.98 | 24.37 | 25.75 | 28.52 | 35.16 | 38.48 | 39.58 | 42.35 | 49.25 | 50.63 | 58.63 | 60.29 |
| 1.406 | 32 | 5.614 | 45 | 7.895 | 36.22 | 37.60 | 38.98 | 40.36 | 41.73 | 44.50 | 51.11 | 54.42 | 55.52 | 58.27 | 65.17 | 66.55 | 74.54 | 76.19 |
| 1.412 | 34 | 5.965 | 48 | 8.421 | 35.53 | 36.91 | 38.29 | 39.67 | 41.04 | 43.80 | 50.42 | 53.73 | 54.83 | 57.58 | 64.47 | 65.85 | 73.85 | 75.50 |
| 1.415 | 53 | 9.299 | 75 | 13.158 | 29.15 | 30.53 | 31.91 | 33.29 | 34.67 | 37.43 | 44.05 | 47.36 | 48.46 | 51.22 | 58.12 | 59.50 | 67.49 | 69.15 |
| 1.420 | 50 | 8.772 | 71 | 12.457 | 30.12 | 31.50 | 32.88 | 34.26 | 35.64 | 38.40 | 45.02 | 48.33 | 49.43 | 52.19 | 59.08 | 60.46 | 68.46 | 70.11 |
| 1.429 | 28 | 4.912 | 40 | 7.018 | 37.47 | 38.85 | 40.22 | 41.60 | 42.98 | 45.74 | 52.35 | 55.66 | 56.76 | 59.52 | 66.41 | 67.79 | 75.78 | 77.43 |
| 1.429 | 35 | 6.141 | 50 | 8.772 | 35.11 | 36.49 | 37.87 | 39.25 | 40.63 | 43.39 | 50.00 | 53.31 | 54.41 | 57.17 | 64.06 | 65.44 | 73.43 | 75.09 |
| 1.429 | 56 | 9.825 | 80 | 14.036 | 28.03 | 29.41 | 30.79 | 32.18 | 33.55 | 36.32 | 42.94 | 46.25 | 47.35 | 50.11 | 57.01 | 58.39 | 66.38 | 68.04 |
| 1.429 | 63 | 11.053 | 90 | 15.790 | 25.66 | 27.04 | 28.42 | 29.81 | 31.19 | 33.95 | 40.58 | 43.89 | 45.00 | 47.75 | 54.65 | 56.03 | 64.03 | 65.68 |
| 1.432 | 37 | 6.492 | 53 | 9.299 | 34.42 | 35.80 | 37.18 | 38.56 | 39.93 | 42.69 | 49.31 | 52.62 | 53.72 | 56.48 | 63.37 | 64.75 | 72.74 | 74.39 |
| 1.433 | 30 | 5.263 | 43 | 7.544 | 36.77 | 38.15 | 39.53 | 40.91 | 42.29 | 45.05 | 51.66 | 54.97 | 56.07 | 58.83 | 65.72 | 67.10 | 75.09 | 76.74 |
| 1.436 | 39 | 6.842 | 56 | 9.825 | 33.73 | 35.11 | 36.48 | 37.87 | 39.24 | 42.00 | 48.62 | 51.93 | 53.03 | 55.78 | 62.68 | 64.06 | 72.05 | 73.70 |
| 1.452 | 31 | 5.439 | 45 | 7.895 | 36.36 | 37.74 | 39.11 | 40.49 | 41.87 | 44.63 | 51.24 | 54.55 | 55.65 | 58.41 | 65.30 | 66.68 | 74.67 | 76.33 |
| 1.455 | 33 | 5.790 | 48 | 8.421 | 35.66 | 37.05 | 38.42 | 39.80 | 41.18 | 43.94 | 50.55 | 53.86 | 54.96 | 57.72 | 64.61 | 65.99 | 73.98 | 75.64 |
| 1.465 | 43 | 7.544 | 63 | 11.053 | 32.20 | 33.58 | 34.95 | 36.34 | 37.71 | 40.48 | 47.09 | 50.40 | 51.50 | 54.26 | 61.15 | 62.53 | 70.53 | 72.18 |
| 1.471 | 34 | 5.965 | 50 | 8.772 | 35.25 | 36.63 | 38.00 | 39.39 | 40.76 | 43.52 | 50.14 | 53.45 | 54.55 | 57.30 | 64.20 | 65.58 | 73.57 | 75.22 |
| 1.472 | 36 | 6.316 | 53 | 9.299 | 34.55 | 35.94 | 37.31 | 38.69 | 40.07 | 42.83 | 49.44 | 52.75 | 53.86 | 56.61 | 63.50 | 64.88 | 72.88 | 74.53 |
| 1.474 | 38 | 6.667 | 56 | 9.825 | 33.86 | 35.24 | 36.62 | 38.00 | 39.38 | 42.14 | 48.75 | 52.06 | 53.16 | 55.92 | 62.81 | 64.19 | 72.18 | 73.84 |
| 1.479 | 48 | 8.421 | 71 | 12.457 | 30.39 | 31.77 | 33.15 | 34.53 | 35.91 | 38.67 | 45.29 | 48.60 | 49.70 | 52.46 | 59.35 | 60.73 | 68.73 | 70.38 |
| 1.483 | 29 | 5.088 | 43 | 7.544 | 36.91 | 38.29 | 39.66 | 41.05 | 42.42 | 45.18 | 51.79 | 55.11 | 56.21 | 58.96 | 65.85 | 67.23 | 75.22 | 76.88 |
| 1.489 | 45 | 7.895 | 67 | 11.755 | 31.36 | 32.74 | 34.12 | 35.50 | 36.88 | 39.64 | 46.26 | 49.57 | 50.67 | 53.43 | 60.32 | 61.70 | 69.70 | 71.35 |
| 1.493 | 75 | 13.158 | 112 | 19.650 | 20.83 | 22.23 | 23.61 | 25.01 | 26.39 | 29.17 | 35.82 | 39.14 | 40.24 | 43.01 | 49.91 | 51.29 | 59.30 | 60.96 |
| 1.500 | 30 | 5.263 | 45 | 7.895 | 36.49 | 37.87 | 39.25 | 40.63 | 42.01 | 44.77 | 51.38 | 54.69 | 55.79 | 58.55 | 65.44 | 66.82 | 74.81 | 76.46 |
| 1.500 | 32 | 5.614 | 48 | 8.421 | 35.80 | 37.18 | 38.56 | 39.94 | 41.31 | 44.07 | 50.69 | 54.00 | 55.10 | 57.85 | 64.75 | 66.13 | 74.12 | 75.77 |
| 1.500 | 40 | 7.018 | 60 | 10.527 | 33.02 | 34.41 | 35.78 | 37.16 | 38.54 | 41.30 | 47.92 | 51.23 | 52.33 | 55.09 | 61.98 | 63.36 | 71.35 | 73.01 |
| 1.500 | 50 | 8.772 | 75 | 13.158 | 29.54 | 30.93 | 32.31 | 33.69 | 35.07 | 37.83 | 44.45 | 47.77 | 48.87 | 51.62 | 58.52 | 59.90 | 67.90 | 69.55 |
| 1.500 | 60 | 10.527 | 90 | 15.790 | 26.05 | 27.43 | 28.82 | 30.20 | 31.58 | 34.35 | 40.98 | 44.29 | 45.39 | 48.15 | 55.05 | 56.43 | 64.43 | 66.09 |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 994-14MX | 1120-14MX | 1190-14MX | 1260-14MX | 1400-14MX | 1568-14MX | 1610-14MX | 1750-14MX | 1890-14MX | 1960-14MX | 2100-14MX | 2240-14MX | 2310-14MX |
| **Length Factor*** | | | | | **0.68** | **0.73** | **0.75** | **0.77** | **0.81** | **0.85** | **0.86** | **0.89** | **0.92** | **0.94** | **0.96** | **0.99** | **1.00** |
| 1.509 | 53 | 9.299 | 80 | 14.036 | – | – | – | – | – | – | 13.15 | 15.95 | 18.73 | 20.12 | 22.89 | 25.66 | 27.04 |
| 1.514 | 35 | 6.141 | 53 | 9.299 | – | 9.79 | 11.19 | 12.58 | 15.35 | 18.67 | 19.50 | 22.27 | 25.03 | 26.41 | 29.17 | 31.93 | 33.31 |
| 1.514 | 37 | 6.492 | 56 | 9.825 | – | 9.08 | 10.48 | 11.87 | 14.65 | 17.97 | 18.81 | 21.57 | 24.33 | 25.72 | 28.48 | 31.24 | 32.61 |
| 1.515 | 33 | 5.790 | 50 | 8.772 | 7.99 | 10.50 | 11.89 | 13.28 | 16.05 | 19.37 | 20.20 | 22.96 | 25.72 | 27.11 | 29.87 | 32.62 | 34.00 |
| 1.536 | 28 | 4.912 | 43 | 7.544 | 9.69 | 12.19 | 13.58 | 14.96 | 17.73 | 21.04 | 21.87 | 24.63 | 27.39 | 28.77 | 31.53 | 34.29 | 35.66 |
| 1.538 | 39 | 6.842 | 60 | 10.527 | – | – | 9.61 | 11.01 | 13.80 | 17.12 | 17.96 | 20.73 | 23.49 | 24.88 | 27.64 | 30.40 | 31.78 |
| 1.548 | 31 | 5.439 | 48 | 8.421 | 8.55 | 11.06 | 12.45 | 13.84 | 16.61 | 19.92 | 20.76 | 23.52 | 26.28 | 27.66 | 30.42 | 33.18 | 34.55 |
| 1.552 | 29 | 5.088 | 45 | 7.895 | 9.26 | 11.76 | 13.15 | 14.54 | 17.31 | 20.62 | 21.45 | 24.21 | 26.97 | 28.35 | 31.11 | 33.87 | 35.25 |
| 1.556 | 36 | 6.316 | 56 | 9.825 | – | 9.20 | 10.60 | 12.00 | 14.78 | 18.10 | 18.94 | 21.70 | 24.46 | 25.85 | 28.61 | 31.37 | 32.75 |
| 1.558 | 43 | 7.544 | 67 | 11.755 | – | – | – | – | 12.22 | 15.56 | 16.40 | 19.18 | 21.95 | 23.33 | 26.10 | 28.86 | 30.24 |
| 1.559 | 34 | 5.965 | 53 | 9.299 | – | 9.92 | 11.31 | 12.71 | 15.48 | 18.80 | 19.64 | 22.40 | 25.16 | 26.54 | 29.30 | 32.06 | 33.44 |
| 1.563 | 32 | 5.614 | 50 | 8.772 | 8.11 | 10.63 | 12.02 | 13.41 | 16.18 | 19.50 | 20.33 | 23.10 | 25.86 | 27.24 | 30.00 | 32.76 | 34.13 |
| 1.563 | 48 | 8.421 | 75 | 13.158 | – | – | – | – | – | 13.71 | 14.55 | 17.34 | 20.12 | 21.51 | 24.28 | 27.04 | 28.42 |
| 1.575 | 40 | 7.018 | 63 | 11.053 | – | – | – | 10.42 | 13.21 | 16.55 | 17.38 | 20.16 | 22.92 | 24.31 | 27.07 | 29.83 | 31.21 |
| 1.577 | 71 | 12.457 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | – | – | 18.53 | 19.93 |
| 1.578 | 45 | 7.895 | 71 | 12.457 | – | – | – | – | 11.35 | 14.70 | 15.54 | 18.32 | 21.10 | 22.48 | 25.25 | 28.02 | 29.40 |
| 1.579 | 38 | 6.667 | 60 | 10.527 | – | – | 9.73 | 11.13 | 13.92 | 17.25 | 18.09 | 20.86 | 23.62 | 25.01 | 27.77 | 30.53 | 31.91 |
| 1.600 | 30 | 5.263 | 48 | 8.421 | 8.67 | 11.19 | 12.58 | 13.97 | 16.74 | 20.06 | 20.89 | 23.65 | 26.41 | 27.79 | 30.55 | 33.31 | 34.69 |
| 1.600 | 35 | 6.141 | 56 | 9.825 | – | 9.32 | 10.73 | 12.13 | 14.91 | 18.23 | 19.07 | 21.83 | 24.60 | 25.98 | 28.74 | 31.50 | 32.88 |
| 1.600 | 50 | 8.772 | 80 | 14.036 | – | – | – | – | – | 12.68 | 13.52 | 16.32 | 19.11 | 20.50 | 23.28 | 26.05 | 27.43 |
| 1.606 | 33 | 5.790 | 53 | 9.299 | – | 10.04 | 11.44 | 12.83 | 15.61 | 18.93 | 19.77 | 22.53 | 25.29 | 26.68 | 29.44 | 32.20 | 33.57 |
| 1.607 | 28 | 4.912 | 45 | 7.895 | 9.39 | 11.89 | 13.28 | 14.67 | 17.44 | 20.75 | 21.58 | 24.35 | 27.11 | 28.49 | 31.25 | 34.00 | 35.38 |
| 1.607 | 56 | 9.825 | 90 | 15.790 | – | – | – | – | – | – | – | 14.01 | 16.82 | 18.22 | 21.01 | 23.79 | 25.18 |
| 1.613 | 31 | 5.439 | 50 | 8.772 | 8.23 | 10.75 | 12.15 | 13.54 | 16.31 | 19.63 | 20.47 | 23.23 | 25.99 | 27.37 | 30.13 | 32.89 | 34.27 |
| 1.615 | 39 | 6.842 | 63 | 11.053 | – | – | – | 10.54 | 13.34 | 16.68 | 17.51 | 20.29 | 23.05 | 24.44 | 27.20 | 29.97 | 31.34 |
| 1.622 | 37 | 6.492 | 60 | 10.527 | – | – | 9.85 | 11.26 | 14.05 | 17.38 | 18.22 | 20.99 | 23.75 | 25.14 | 27.90 | 30.66 | 32.04 |
| 1.647 | 34 | 5.965 | 56 | 9.825 | – | 9.45 | 10.85 | 12.25 | 15.03 | 18.36 | 19.20 | 21.96 | 24.73 | 26.11 | 28.87 | 31.63 | 33.01 |
| 1.651 | 43 | 7.544 | 71 | 12.457 | – | – | – | – | 11.59 | 14.95 | 15.79 | 18.58 | 21.35 | 22.74 | 25.51 | 28.28 | 29.66 |
| 1.655 | 29 | 5.088 | 48 | 8.421 | 8.80 | 11.31 | 12.71 | 14.10 | 16.87 | 20.19 | 21.02 | 23.78 | 26.54 | 27.93 | 30.68 | 33.44 | 34.82 |
| 1.656 | 32 | 5.614 | 53 | 9.299 | – | 10.16 | 11.57 | 12.96 | 15.74 | 19.06 | 19.90 | 22.66 | 25.43 | 26.81 | 29.57 | 32.33 | 33.71 |
| 1.658 | 38 | 6.667 | 63 | 11.053 | – | – | – | 10.66 | 13.46 | 16.80 | 17.64 | 20.41 | 23.18 | 24.57 | 27.33 | 30.10 | 31.48 |
| 1.667 | 30 | 5.263 | 50 | 8.772 | 8.36 | 10.88 | 12.28 | 13.67 | 16.44 | 19.76 | 20.60 | 23.36 | 26.12 | 27.51 | 30.27 | 33.03 | 34.40 |
| 1.667 | 36 | 6.316 | 60 | 10.527 | – | – | 9.97 | 11.38 | 14.17 | 17.51 | 18.35 | 21.12 | 23.88 | 25.27 | 28.03 | 30.79 | 32.17 |
| 1.667 | 45 | 7.895 | 75 | 13.158 | – | – | – | – | – | 14.08 | 14.93 | 17.72 | 20.50 | 21.89 | 24.66 | 27.43 | 28.81 |
| 1.667 | 48 | 8.421 | 80 | 14.036 | – | – | – | – | – | 12.92 | 13.77 | 16.57 | 19.36 | 20.76 | 23.53 | 26.31 | 27.69 |
| 1.672 | 67 | 11.755 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | – | 16.19 | 19.02 | 20.42 |
| 1.675 | 40 | 7.018 | 67 | 11.755 | – | – | – | – | 12.59 | 15.94 | 16.78 | 19.56 | 22.34 | 23.72 | 26.49 | 29.25 | 30.63 |
| 1.697 | 33 | 5.790 | 56 | 9.825 | – | 9.57 | 10.98 | 12.38 | 15.16 | 18.49 | 19.33 | 22.09 | 24.86 | 26.24 | 29.01 | 31.77 | 33.14 |
| 1.698 | 53 | 9.299 | 90 | 15.790 | – | – | – | – | – | – | – | 14.38 | 17.19 | 18.60 | 21.39 | 24.17 | 25.56 |
| 1.703 | 37 | 6.492 | 63 | 11.053 | – | – | – | 10.78 | 13.59 | 16.93 | 17.77 | 20.54 | 23.31 | 24.70 | 27.47 | 30.23 | 31.61 |
| 1.710 | 31 | 5.439 | 53 | 9.299 | – | 10.29 | 11.69 | 13.09 | 15.87 | 19.19 | 20.03 | 22.79 | 25.56 | 26.94 | 29.70 | 32.46 | 33.84 |
| 1.714 | 28 | 4.912 | 48 | 8.421 | 8.92 | 11.44 | 12.83 | 14.22 | 17.00 | 20.32 | 21.15 | 23.91 | 26.68 | 28.06 | 30.82 | 33.58 | 34.95 |
| 1.714 | 35 | 6.141 | 60 | 10.527 | – | – | 10.09 | 11.50 | 14.30 | 17.64 | 18.47 | 21.25 | 24.01 | 25.40 | 28.16 | 30.93 | 32.30 |
| 1.718 | 39 | 6.842 | 67 | 11.755 | – | – | – | – | 12.72 | 16.07 | 16.91 | 19.69 | 22.46 | 23.85 | 26.62 | 29.39 | 30.77 |
| 1.724 | 29 | 5.088 | 50 | 8.772 | 8.48 | 11.00 | 12.40 | 13.80 | 16.57 | 19.89 | 20.73 | 23.49 | 26.25 | 27.64 | 30.40 | 33.16 | 34.54 |
| 1.744 | 43 | 7.544 | 75 | 13.158 | – | – | – | – | – | 14.33 | 15.18 | 17.97 | 20.76 | 22.15 | 24.92 | 27.69 | 29.08 |
| 1.750 | 32 | 5.614 | 56 | 9.825 | – | 9.69 | 11.10 | 12.50 | 15.29 | 18.62 | 19.46 | 22.22 | 24.99 | 26.38 | 29.14 | 31.90 | 33.28 |
| 1.750 | 36 | 6.316 | 63 | 11.053 | – | – | 9.49 | 10.91 | 13.71 | 17.06 | 17.90 | 20.67 | 23.44 | 24.83 | 27.60 | 30.36 | 31.74 |
| 1.750 | 80 | 14.036 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 1.763 | 38 | 6.667 | 67 | 11.755 | – | – | – | 10.01 | 12.84 | 16.20 | 17.04 | 19.82 | 22.59 | 23.98 | 26.75 | 29.52 | 30.90 |
| 1.765 | 34 | 5.965 | 60 | 10.527 | – | – | 10.22 | 11.63 | 14.43 | 17.77 | 18.60 | 21.38 | 24.14 | 25.53 | 28.30 | 31.06 | 32.44 |
| 1.767 | 30 | 5.263 | 53 | 9.299 | – | 10.41 | 11.82 | 13.21 | 16.00 | 19.32 | 20.16 | 22.92 | 25.69 | 27.07 | 29.83 | 32.60 | 33.97 |
| 1.775 | 40 | 7.018 | 71 | 12.457 | – | – | – | – | 11.95 | 15.33 | 16.17 | 18.96 | 21.74 | 23.13 | 25.90 | 28.67 | 30.05 |
| 1.778 | 45 | 7.895 | 80 | 14.036 | – | – | – | – | – | 13.28 | 14.14 | 16.95 | 19.74 | 21.14 | 23.92 | 26.69 | 28.08 |
| 1.778 | 63 | 11.053 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | – | 16.67 | 19.51 | 20.91 |
| 1.786 | 28 | 4.912 | 50 | 8.772 | 8.60 | 11.13 | 12.53 | 13.92 | 16.70 | 20.02 | 20.86 | 23.62 | 26.39 | 27.77 | 30.53 | 33.29 | 34.67 |
| 1.800 | 35 | 6.141 | 63 | 11.053 | – | – | 9.61 | 11.03 | 13.84 | 17.19 | 18.02 | 20.80 | 23.57 | 24.96 | 27.73 | 30.49 | 31.87 |
| 1.800 | 50 | 8.772 | 90 | 15.790 | – | – | – | – | – | – | – | 14.74 | 17.56 | 18.97 | 21.77 | 24.55 | 25.94 |
| 1.806 | 31 | 5.439 | 56 | 9.825 | – | 9.81 | 11.22 | 12.63 | 15.42 | 18.75 | 19.58 | 22.35 | 25.12 | 26.51 | 29.27 | 32.03 | 33.41 |
| 1.811 | 37 | 6.492 | 67 | 11.755 | – | – | – | 10.13 | 12.96 | 16.32 | 17.16 | 19.94 | 22.72 | 24.11 | 26.88 | 29.65 | 31.03 |
| 1.818 | 33 | 5.790 | 60 | 10.527 | – | 8.91 | 10.34 | 11.75 | 14.55 | 17.89 | 18.73 | 21.50 | 24.27 | 25.66 | 28.43 | 31.19 | 32.57 |
| 1.821 | 39 | 6.842 | 71 | 12.457 | – | – | – | – | 12.07 | 15.45 | 16.30 | 19.09 | 21.87 | 23.26 | 26.03 | 28.80 | 30.18 |
| 1.828 | 29 | 5.088 | 53 | 9.299 | 7.99 | 10.53 | 11.94 | 13.34 | 16.12 | 19.45 | 20.29 | 23.05 | 25.82 | 27.20 | 29.97 | 32.73 | 34.11 |
| 1.853 | 34 | 5.965 | 63 | 11.053 | – | – | 9.72 | 11.15 | 13.96 | 17.31 | 18.15 | 20.93 | 23.70 | 25.09 | 27.86 | 30.62 | 32.00 |
| 1.860 | 43 | 7.544 | 80 | 14.036 | – | – | – | – | – | 13.52 | 14.38 | 17.19 | 19.99 | 21.39 | 24.17 | 26.95 | 28.33 |
| 1.861 | 36 | 6.316 | 67 | 11.755 | – | – | – | 10.25 | 13.08 | 16.45 | 17.29 | 20.07 | 22.85 | 24.24 | 27.01 | 29.78 | 31.16 |
| 1.867 | 30 | 5.263 | 56 | 9.825 | – | 9.93 | 11.34 | 12.75 | 15.54 | 18.88 | 19.71 | 22.48 | 25.25 | 26.64 | 29.40 | 32.16 | 33.54 |
| 1.867 | 60 | 10.527 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | – | 17.02 | 19.87 | 21.28 |
| 1.867 | 75 | 13.158 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 1.868 | 38 | 6.667 | 71 | 12.457 | – | – | – | – | 12.19 | 15.58 | 16.42 | 19.21 | 21.99 | 23.39 | 26.16 | 28.93 | 30.31 |
| **Length Factor*** | | | | | **0.68** | **0.73** | **0.75** | **0.77** | **0.81** | **0.85** | **0.86** | **0.89** | **0.92** | **0.94** | **0.96** | **0.99** | **1.00** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 2380-14MX | 2450-14MX | 2520-14MX | 2590-14MX | 2660-14MX | 2800-14MX | 3136-14MX | 3304-14MX | 3360-14MX | 3500-14MX | 3850-14MX | 3920-14MX | 4326-14MX | 4410-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |
| 1.509 | 53 | 9.299 | 80 | 14.036 | 28.42 | 29.81 | 31.19 | 32.57 | 33.95 | 36.72 | 43.34 | 46.65 | 47.75 | 50.51 | 57.41 | 58.79 | 66.79 | 68.44 |
| 1.514 | 35 | 6.141 | 53 | 9.299 | 34.69 | 36.07 | 37.45 | 38.83 | 40.20 | 42.96 | 49.58 | 52.89 | 53.99 | 56.75 | 63.64 | 65.02 | 73.01 | 74.67 |
| 1.514 | 37 | 6.492 | 56 | 9.825 | 33.99 | 35.38 | 36.75 | 38.13 | 39.51 | 42.27 | 48.89 | 52.20 | 53.30 | 56.05 | 62.95 | 64.33 | 72.32 | 73.98 |
| 1.515 | 33 | 5.790 | 50 | 8.772 | 35.38 | 36.76 | 38.14 | 39.52 | 40.90 | 43.66 | 50.27 | 53.58 | 54.68 | 57.44 | 64.33 | 65.71 | 73.70 | 75.36 |
| 1.536 | 28 | 4.912 | 43 | 7.544 | 37.04 | 38.42 | 39.80 | 41.18 | 42.56 | 45.32 | 51.93 | 55.24 | 56.34 | 59.10 | 65.99 | 67.37 | 75.36 | 77.02 |
| 1.538 | 39 | 6.842 | 60 | 10.527 | 33.16 | 34.54 | 35.92 | 37.30 | 38.67 | 41.44 | 48.05 | 51.37 | 52.47 | 55.22 | 62.12 | 63.50 | 71.49 | 73.15 |
| 1.548 | 31 | 5.439 | 48 | 8.421 | 35.93 | 37.31 | 38.69 | 40.07 | 41.45 | 44.21 | 50.82 | 54.13 | 55.23 | 57.99 | 64.88 | 66.26 | 74.25 | 75.91 |
| 1.552 | 29 | 5.088 | 45 | 7.895 | 36.63 | 38.01 | 39.38 | 40.76 | 42.14 | 44.90 | 51.51 | 54.83 | 55.93 | 58.68 | 65.57 | 66.95 | 74.95 | 76.60 |
| 1.556 | 36 | 6.316 | 56 | 9.825 | 34.13 | 35.51 | 36.89 | 38.27 | 39.64 | 42.41 | 49.02 | 52.33 | 53.43 | 56.19 | 63.08 | 64.46 | 72.46 | 74.11 |
| 1.558 | 43 | 7.544 | 67 | 11.755 | 31.62 | 33.01 | 34.38 | 35.77 | 37.14 | 39.91 | 46.52 | 49.84 | 50.94 | 53.70 | 60.59 | 61.97 | 69.97 | 71.62 |
| 1.559 | 34 | 5.965 | 53 | 9.299 | 34.82 | 36.20 | 37.58 | 38.96 | 40.34 | 43.10 | 49.71 | 53.03 | 54.13 | 56.88 | 63.77 | 65.16 | 73.15 | 74.80 |
| 1.563 | 32 | 5.614 | 50 | 8.772 | 35.52 | 36.90 | 38.27 | 39.65 | 41.03 | 43.79 | 50.41 | 53.72 | 54.82 | 57.57 | 64.47 | 65.85 | 73.84 | 75.49 |
| 1.563 | 48 | 8.421 | 75 | 13.158 | 29.81 | 31.19 | 32.57 | 33.95 | 35.33 | 38.10 | 44.72 | 48.03 | 49.13 | 51.89 | 58.79 | 60.17 | 68.17 | 69.82 |
| 1.575 | 40 | 7.018 | 63 | 11.053 | 32.59 | 33.98 | 35.35 | 36.74 | 38.11 | 40.88 | 47.49 | 50.81 | 51.91 | 54.66 | 61.56 | 62.94 | 70.93 | 72.59 |
| 1.577 | 71 | 12.457 | 112 | 19.650 | 21.33 | 22.73 | 24.12 | 25.51 | 26.90 | 29.69 | 36.34 | 39.66 | 40.76 | 43.53 | 50.44 | 51.82 | 59.83 | 61.49 |
| 1.578 | 45 | 7.895 | 71 | 12.457 | 30.78 | 32.16 | 33.54 | 34.93 | 36.30 | 39.07 | 45.69 | 49.00 | 50.10 | 52.86 | 59.76 | 61.14 | 69.13 | 70.79 |
| 1.579 | 38 | 6.667 | 60 | 10.527 | 33.29 | 34.67 | 36.05 | 37.43 | 38.81 | 41.57 | 48.19 | 51.50 | 52.60 | 55.36 | 62.25 | 63.63 | 71.62 | 73.28 |
| 1.600 | 30 | 5.263 | 48 | 8.421 | 36.07 | 37.45 | 38.83 | 40.21 | 41.58 | 44.34 | 50.96 | 54.27 | 55.37 | 58.13 | 65.02 | 66.40 | 74.39 | 76.05 |
| 1.600 | 35 | 6.141 | 56 | 9.825 | 34.26 | 35.64 | 37.02 | 38.40 | 39.78 | 42.54 | 49.16 | 52.47 | 53.57 | 56.33 | 63.22 | 64.60 | 72.59 | 74.25 |
| 1.600 | 50 | 8.772 | 80 | 14.036 | 28.82 | 30.20 | 31.58 | 32.97 | 34.35 | 37.11 | 43.74 | 47.05 | 48.15 | 50.91 | 57.81 | 59.19 | 67.19 | 68.85 |
| 1.606 | 33 | 5.790 | 53 | 9.299 | 34.96 | 36.34 | 37.71 | 39.09 | 40.47 | 43.23 | 49.85 | 53.16 | 54.26 | 57.02 | 63.91 | 65.29 | 73.28 | 74.94 |
| 1.607 | 28 | 4.912 | 45 | 7.895 | 36.76 | 38.14 | 39.52 | 40.90 | 42.28 | 45.04 | 51.65 | 54.96 | 56.06 | 58.82 | 65.71 | 67.09 | 75.08 | 76.74 |
| 1.607 | 56 | 9.825 | 90 | 15.790 | 26.56 | 27.95 | 29.34 | 30.72 | 32.10 | 34.87 | 41.50 | 44.82 | 45.93 | 48.69 | 55.59 | 56.97 | 64.97 | 66.63 |
| 1.613 | 31 | 5.439 | 50 | 8.772 | 35.65 | 37.03 | 38.41 | 39.79 | 41.16 | 43.93 | 50.54 | 53.85 | 54.95 | 57.71 | 64.60 | 65.98 | 73.97 | 75.63 |
| 1.615 | 39 | 6.842 | 63 | 11.053 | 32.73 | 34.11 | 35.49 | 36.87 | 38.25 | 41.01 | 47.63 | 50.94 | 52.04 | 54.80 | 61.69 | 63.08 | 71.07 | 72.72 |
| 1.622 | 37 | 6.492 | 60 | 10.527 | 33.42 | 34.80 | 36.18 | 37.56 | 38.94 | 41.70 | 48.32 | 51.63 | 52.73 | 55.49 | 62.39 | 63.77 | 71.76 | 73.42 |
| 1.647 | 34 | 5.965 | 56 | 9.825 | 34.39 | 35.78 | 37.15 | 38.54 | 39.91 | 42.67 | 49.29 | 52.60 | 53.70 | 56.46 | 63.35 | 64.73 | 72.73 | 74.38 |
| 1.651 | 43 | 7.544 | 71 | 12.457 | 31.04 | 32.43 | 33.81 | 35.19 | 36.57 | 39.33 | 45.96 | 49.27 | 50.37 | 53.13 | 60.03 | 61.41 | 69.40 | 71.06 |
| 1.655 | 29 | 5.088 | 48 | 8.421 | 36.20 | 37.58 | 38.96 | 40.34 | 41.72 | 44.48 | 51.09 | 54.40 | 55.51 | 58.26 | 65.15 | 66.53 | 74.53 | 76.18 |
| 1.656 | 32 | 5.614 | 53 | 9.299 | 35.09 | 36.47 | 37.85 | 39.23 | 40.61 | 43.37 | 49.98 | 53.30 | 54.40 | 57.15 | 64.05 | 65.43 | 73.42 | 75.07 |
| 1.658 | 38 | 6.667 | 63 | 11.053 | 32.86 | 34.24 | 35.62 | 37.00 | 38.38 | 41.14 | 47.76 | 51.08 | 52.18 | 54.93 | 61.83 | 63.21 | 71.20 | 72.86 |
| 1.667 | 30 | 5.263 | 50 | 8.772 | 35.78 | 37.17 | 38.54 | 39.92 | 41.30 | 44.06 | 50.68 | 53.99 | 55.09 | 57.85 | 64.74 | 66.12 | 74.11 | 75.77 |
| 1.667 | 36 | 6.316 | 60 | 10.527 | 33.56 | 34.94 | 36.32 | 37.70 | 39.07 | 41.84 | 48.46 | 51.77 | 52.87 | 55.63 | 62.52 | 63.90 | 71.90 | 73.55 |
| 1.667 | 45 | 7.895 | 75 | 13.158 | 30.20 | 31.59 | 32.96 | 34.35 | 35.73 | 38.50 | 45.12 | 48.43 | 49.54 | 52.29 | 59.19 | 60.57 | 68.57 | 70.23 |
| 1.667 | 48 | 8.421 | 80 | 14.036 | 29.08 | 30.46 | 31.84 | 33.23 | 34.61 | 37.38 | 44.00 | 47.32 | 48.42 | 51.18 | 58.08 | 59.46 | 67.46 | 69.12 |
| 1.672 | 67 | 11.755 | 112 | 19.650 | 21.83 | 23.23 | 24.62 | 26.02 | 27.41 | 30.20 | 36.85 | 40.18 | 41.29 | 44.05 | 50.97 | 52.35 | 60.36 | 62.02 |
| 1.675 | 40 | 7.018 | 67 | 11.755 | 32.02 | 33.40 | 34.78 | 36.16 | 37.54 | 40.31 | 46.93 | 50.24 | 51.34 | 54.10 | 60.99 | 62.38 | 70.37 | 72.03 |
| 1.697 | 33 | 5.790 | 56 | 9.825 | 34.53 | 35.91 | 37.29 | 38.67 | 40.05 | 42.81 | 49.42 | 52.74 | 53.84 | 56.60 | 63.49 | 64.87 | 72.86 | 74.52 |
| 1.698 | 53 | 9.299 | 90 | 15.790 | 26.95 | 28.34 | 29.72 | 31.11 | 32.49 | 35.27 | 41.90 | 45.22 | 46.32 | 49.08 | 55.99 | 57.37 | 65.37 | 67.03 |
| 1.703 | 37 | 6.492 | 63 | 11.053 | 32.99 | 34.37 | 35.75 | 37.14 | 38.51 | 41.28 | 47.90 | 51.21 | 52.31 | 55.07 | 61.96 | 63.34 | 71.34 | 72.99 |
| 1.710 | 31 | 5.439 | 53 | 9.299 | 35.22 | 36.60 | 37.98 | 39.36 | 40.74 | 43.50 | 50.12 | 53.43 | 54.53 | 57.29 | 64.18 | 65.56 | 73.55 | 75.21 |
| 1.714 | 28 | 4.912 | 48 | 8.421 | 36.34 | 37.72 | 39.09 | 40.48 | 41.85 | 44.61 | 51.23 | 54.54 | 55.64 | 58.40 | 65.29 | 66.67 | 74.66 | 76.32 |
| 1.714 | 35 | 6.141 | 60 | 10.527 | 33.69 | 35.07 | 36.45 | 37.83 | 39.21 | 41.97 | 48.59 | 51.90 | 53.00 | 55.76 | 62.66 | 64.04 | 72.03 | 73.69 |
| 1.718 | 39 | 6.842 | 67 | 11.755 | 32.15 | 33.53 | 34.91 | 36.30 | 37.67 | 40.44 | 47.06 | 50.37 | 51.48 | 54.23 | 61.13 | 62.51 | 70.51 | 72.16 |
| 1.724 | 29 | 5.088 | 50 | 8.772 | 35.92 | 37.30 | 38.68 | 40.06 | 41.43 | 44.20 | 50.81 | 54.12 | 55.22 | 57.98 | 64.87 | 66.25 | 74.25 | 75.90 |
| 1.744 | 43 | 7.544 | 75 | 13.158 | 30.46 | 31.85 | 33.23 | 34.61 | 35.99 | 38.76 | 45.38 | 48.70 | 49.80 | 52.56 | 59.46 | 60.84 | 68.84 | 70.49 |
| 1.750 | 32 | 5.614 | 56 | 9.825 | 34.66 | 36.04 | 37.42 | 38.80 | 40.18 | 42.94 | 49.56 | 52.87 | 53.97 | 56.73 | 63.62 | 65.01 | 73.00 | 74.65 |
| 1.750 | 36 | 6.316 | 63 | 11.053 | 33.12 | 34.51 | 35.89 | 37.27 | 38.65 | 41.41 | 48.03 | 51.34 | 52.44 | 55.20 | 62.10 | 63.48 | 71.47 | 73.13 |
| 1.750 | 80 | 14.036 | 140 | 24.562 | – | – | – | 19.97 | 21.39 | 24.23 | 30.97 | 34.32 | 35.43 | 38.22 | 45.16 | 46.55 | 54.59 | 56.25 |
| 1.763 | 38 | 6.667 | 67 | 11.755 | 32.28 | 33.67 | 35.04 | 36.43 | 37.81 | 40.57 | 47.19 | 50.51 | 51.61 | 54.37 | 61.26 | 62.64 | 70.64 | 72.30 |
| 1.765 | 34 | 5.965 | 60 | 10.527 | 33.82 | 35.20 | 36.58 | 37.96 | 39.34 | 42.11 | 48.72 | 52.04 | 53.14 | 55.90 | 62.79 | 64.17 | 72.17 | 73.82 |
| 1.767 | 30 | 5.263 | 53 | 9.299 | 35.36 | 36.74 | 38.11 | 39.50 | 40.87 | 43.64 | 50.25 | 53.57 | 54.67 | 57.42 | 64.32 | 65.70 | 73.69 | 75.35 |
| 1.775 | 40 | 7.018 | 71 | 12.457 | 31.44 | 32.82 | 34.20 | 35.59 | 36.96 | 39.73 | 46.35 | 49.67 | 50.77 | 53.53 | 60.43 | 61.81 | 69.81 | 71.46 |
| 1.778 | 45 | 7.895 | 80 | 14.036 | 29.47 | 30.85 | 32.23 | 33.62 | 35.00 | 37.77 | 44.40 | 47.72 | 48.82 | 51.58 | 58.48 | 59.86 | 67.86 | 69.52 |
| 1.778 | 63 | 11.053 | 112 | 19.650 | 22.32 | 23.73 | 25.12 | 26.52 | 27.91 | 30.70 | 37.37 | 40.70 | 41.80 | 44.57 | 51.49 | 52.88 | 60.89 | 62.55 |
| 1.786 | 28 | 4.912 | 50 | 8.772 | 36.05 | 37.43 | 38.81 | 40.19 | 41.57 | 44.33 | 50.95 | 54.26 | 55.36 | 58.12 | 65.01 | 66.39 | 74.38 | 76.04 |
| 1.800 | 35 | 6.141 | 63 | 11.053 | 33.26 | 34.64 | 36.02 | 37.40 | 38.78 | 41.54 | 48.16 | 51.48 | 52.58 | 55.34 | 62.23 | 63.61 | 71.61 | 73.26 |
| 1.800 | 50 | 8.772 | 90 | 15.790 | 27.33 | 28.72 | 30.11 | 31.50 | 32.88 | 35.66 | 42.29 | 45.61 | 46.72 | 49.48 | 56.38 | 57.77 | 65.77 | 67.43 |
| 1.806 | 31 | 5.439 | 56 | 9.825 | 34.79 | 36.18 | 37.55 | 38.93 | 40.31 | 43.08 | 49.69 | 53.01 | 54.11 | 56.86 | 63.76 | 65.14 | 73.13 | 74.79 |
| 1.811 | 37 | 6.492 | 67 | 11.755 | 32.41 | 33.80 | 35.18 | 36.56 | 37.94 | 40.70 | 47.33 | 50.64 | 51.74 | 54.50 | 61.40 | 62.78 | 70.77 | 72.43 |
| 1.818 | 33 | 5.790 | 60 | 10.527 | 33.95 | 35.34 | 36.71 | 38.10 | 39.47 | 42.24 | 48.86 | 52.17 | 53.27 | 56.03 | 62.93 | 64.31 | 72.30 | 73.96 |
| 1.821 | 39 | 6.842 | 71 | 12.457 | 31.57 | 32.95 | 34.33 | 35.72 | 37.10 | 39.86 | 46.49 | 49.80 | 50.91 | 53.66 | 60.56 | 61.94 | 69.94 | 71.60 |
| 1.828 | 29 | 5.088 | 53 | 9.299 | 35.49 | 36.87 | 38.25 | 39.63 | 41.01 | 43.77 | 50.39 | 53.70 | 54.80 | 57.56 | 64.45 | 65.83 | 73.83 | 75.48 |
| 1.853 | 34 | 5.965 | 63 | 11.053 | 33.39 | 34.77 | 36.15 | 37.53 | 38.91 | 41.68 | 48.30 | 51.61 | 52.71 | 55.47 | 62.37 | 63.75 | 71.74 | 73.40 |
| 1.860 | 43 | 7.544 | 80 | 14.036 | 29.72 | 31.11 | 32.49 | 33.88 | 35.26 | 38.03 | 44.66 | 47.98 | 49.08 | 51.84 | 58.75 | 60.13 | 68.13 | 69.79 |
| 1.861 | 36 | 6.316 | 67 | 11.755 | 32.54 | 33.93 | 35.31 | 36.69 | 38.07 | 40.84 | 47.46 | 50.77 | 51.88 | 54.63 | 61.53 | 62.91 | 70.91 | 72.57 |
| 1.867 | 30 | 5.263 | 56 | 9.825 | 34.93 | 36.31 | 37.69 | 39.07 | 40.45 | 43.21 | 49.83 | 53.14 | 54.24 | 57.00 | 63.89 | 65.28 | 73.27 | 74.93 |
| 1.867 | 60 | 10.527 | 112 | 19.650 | 22.69 | 24.10 | 25.49 | 26.90 | 28.29 | 31.08 | 37.75 | 41.09 | 42.19 | 44.96 | 51.88 | 53.27 | 61.28 | 62.94 |
| 1.867 | 75 | 13.158 | 140 | 24.562 | – | – | – | 20.56 | 21.99 | 24.84 | 31.59 | 34.95 | 36.06 | 38.85 | 45.80 | 47.19 | 55.24 | 56.90 |
| 1.868 | 38 | 6.667 | 71 | 12.457 | 31.70 | 33.08 | 34.46 | 35.85 | 37.23 | 40.00 | 46.62 | 49.94 | 51.04 | 53.80 | 60.70 | 62.08 | 70.08 | 71.73 |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 994-14MX | 1120-14MX | 1190-14MX | 1260-14MX | 1400-14MX | 1568-14MX | 1610-14MX | 1750-14MX | 1890-14MX | 1960-14MX | 2100-14MX | 2240-14MX | 2310-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **0.68** | **0.73** | **0.75** | **0.77** | **0.81** | **0.85** | **0.86** | **0.89** | **0.92** | **0.94** | **0.96** | **0.99** | **1.00** |
| 1.875 | 32 | 5.614 | 60 | 10.527 | – | 9.03 | 10.46 | 11.87 | 14.68 | 18.02 | 18.86 | 21.63 | 24.40 | 25.79 | 28.56 | 31.32 | 32.70 |
| 1.875 | 40 | 7.018 | 75 | 13.158 | – | – | – | – | 11.29 | 14.70 | 15.54 | 18.35 | 21.14 | 22.53 | 25.31 | 28.08 | 29.46 |
| 1.875 | 48 | 8.421 | 90 | 15.790 | – | – | – | – | – | – | – | 14.98 | 17.81 | 19.22 | 22.02 | 24.81 | 26.20 |
| 1.893 | 28 | 4.912 | 53 | 9.299 | 8.11 | 10.66 | 12.06 | 13.46 | 16.25 | 19.58 | 20.42 | 23.18 | 25.95 | 27.34 | 30.10 | 32.86 | 34.24 |
| 1.909 | 33 | 5.790 | 63 | 11.053 | – | – | 9.84 | 11.27 | 14.09 | 17.44 | 18.28 | 21.06 | 23.83 | 25.22 | 27.99 | 30.75 | 32.13 |
| 1.914 | 35 | 6.141 | 67 | 11.755 | – | – | – | 10.37 | 13.21 | 16.57 | 17.41 | 20.20 | 22.98 | 24.37 | 27.14 | 29.91 | 31.29 |
| 1.919 | 37 | 6.492 | 71 | 12.457 | – | – | – | – | 12.31 | 15.70 | 16.54 | 19.34 | 22.12 | 23.51 | 26.29 | 29.06 | 30.44 |
| 1.923 | 39 | 6.842 | 75 | 13.158 | – | – | – | – | 11.41 | 14.82 | 15.67 | 18.47 | 21.26 | 22.66 | 25.44 | 28.21 | 29.59 |
| 1.931 | 29 | 5.088 | 56 | 9.825 | – | 10.05 | 11.47 | 12.87 | 15.67 | 19.00 | 19.84 | 22.61 | 25.38 | 26.77 | 29.53 | 32.30 | 33.67 |
| 1.935 | 31 | 5.439 | 60 | 10.527 | – | 9.15 | 10.58 | 11.99 | 14.80 | 18.15 | 18.98 | 21.76 | 24.53 | 25.92 | 28.69 | 31.45 | 32.83 |
| 1.969 | 32 | 5.614 | 63 | 11.053 | – | – | 9.96 | 11.39 | 14.21 | 17.56 | 18.40 | 21.18 | 23.96 | 25.35 | 28.12 | 30.88 | 32.27 |
| 1.971 | 34 | 5.965 | 67 | 11.755 | – | – | – | 10.49 | 13.33 | 16.70 | 17.54 | 20.33 | 23.11 | 24.50 | 27.27 | 30.04 | 31.42 |
| 1.972 | 36 | 6.316 | 71 | 12.457 | – | – | – | – | 12.43 | 15.82 | 16.67 | 19.46 | 22.25 | 23.64 | 26.42 | 29.19 | 30.57 |
| 1.972 | 71 | 12.457 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 1.974 | 38 | 6.667 | 75 | 13.158 | – | – | – | – | 11.53 | 14.94 | 15.79 | 18.60 | 21.39 | 22.78 | 25.56 | 28.34 | 29.72 |
| 2.000 | 28 | 4.912 | 56 | 9.825 | – | 10.17 | 11.59 | 13.00 | 15.79 | 19.13 | 19.97 | 22.74 | 25.51 | 26.90 | 29.66 | 32.43 | 33.81 |
| 2.000 | 30 | 5.263 | 60 | 10.527 | – | 9.27 | 10.70 | 12.12 | 14.93 | 18.27 | 19.11 | 21.89 | 24.66 | 26.05 | 28.82 | 31.58 | 32.96 |
| 2.000 | 40 | 7.018 | 80 | 14.036 | – | – | – | – | – | 13.88 | 14.74 | 17.56 | 20.37 | 21.77 | 24.55 | 27.33 | 28.72 |
| 2.000 | 45 | 7.895 | 90 | 15.790 | – | – | – | – | – | – | 12.46 | 15.34 | 18.17 | 19.58 | 22.39 | 25.18 | 26.57 |
| 2.000 | 56 | 9.825 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | – | 17.50 | 20.35 | 21.76 |
| 2.027 | 37 | 6.492 | 75 | 13.158 | – | – | – | – | 11.65 | 15.06 | 15.91 | 18.72 | 21.51 | 22.91 | 25.69 | 28.47 | 29.85 |
| 2.029 | 35 | 6.141 | 71 | 12.457 | – | – | – | – | 12.55 | 15.94 | 16.79 | 19.59 | 22.37 | 23.77 | 26.55 | 29.32 | 30.70 |
| 2.030 | 33 | 5.790 | 67 | 11.755 | – | – | – | 10.60 | 13.45 | 16.82 | 17.66 | 20.45 | 23.23 | 24.62 | 27.40 | 30.17 | 31.55 |
| 2.032 | 31 | 5.439 | 63 | 11.053 | – | – | 10.08 | 11.51 | 14.33 | 17.69 | 18.53 | 21.31 | 24.09 | 25.48 | 28.25 | 31.02 | 32.40 |
| 2.051 | 39 | 6.842 | 80 | 14.036 | – | – | – | – | – | 14.00 | 14.86 | 17.69 | 20.49 | 21.89 | 24.68 | 27.46 | 28.85 |
| 2.069 | 29 | 5.088 | 60 | 10.527 | – | 9.38 | 10.82 | 12.24 | 15.05 | 18.40 | 19.24 | 22.02 | 24.79 | 26.18 | 28.95 | 31.71 | 33.09 |
| 2.083 | 36 | 6.316 | 75 | 13.158 | – | – | – | – | 11.76 | 15.18 | 16.03 | 18.84 | 21.64 | 23.04 | 25.82 | 28.60 | 29.98 |
| 2.088 | 34 | 5.965 | 71 | 12.457 | – | – | – | – | 12.67 | 16.07 | 16.91 | 19.71 | 22.50 | 23.90 | 26.67 | 29.45 | 30.83 |
| 2.090 | 67 | 11.755 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.093 | 43 | 7.544 | 90 | 15.790 | – | – | – | – | – | – | 12.69 | 15.57 | 18.42 | 19.83 | 22.64 | 25.43 | 26.83 |
| 2.094 | 32 | 5.614 | 67 | 11.755 | – | – | – | 10.72 | 13.57 | 16.94 | 17.79 | 20.58 | 23.36 | 24.75 | 27.53 | 30.30 | 31.68 |
| 2.100 | 30 | 5.263 | 63 | 11.053 | – | – | 10.20 | 11.63 | 14.45 | 17.81 | 18.66 | 21.44 | 24.22 | 25.61 | 28.38 | 31.15 | 32.53 |
| 2.100 | 80 | 14.036 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.105 | 38 | 6.667 | 80 | 14.036 | – | – | – | – | – | 14.12 | 14.98 | 17.81 | 20.61 | 22.02 | 24.81 | 27.59 | 28.98 |
| 2.113 | 53 | 9.299 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | 14.94 | 17.85 | 20.71 | 22.13 |
| 2.143 | 28 | 4.912 | 60 | 10.527 | – | 9.50 | 10.94 | 12.36 | 15.17 | 18.53 | 19.37 | 22.15 | 24.92 | 26.31 | 29.08 | 31.85 | 33.23 |
| 2.143 | 35 | 6.141 | 75 | 13.158 | – | – | – | – | 11.88 | 15.30 | 16.16 | 18.97 | 21.76 | 23.16 | 25.95 | 28.72 | 30.11 |
| 2.152 | 33 | 5.790 | 71 | 12.457 | – | – | – | 9.91 | 12.79 | 16.19 | 17.04 | 19.84 | 22.63 | 24.02 | 26.80 | 29.58 | 30.96 |
| 2.161 | 31 | 5.439 | 67 | 11.755 | – | – | 9.38 | 10.84 | 13.69 | 17.07 | 17.91 | 20.70 | 23.49 | 24.88 | 27.66 | 30.43 | 31.81 |
| 2.162 | 37 | 6.492 | 80 | 14.036 | – | – | – | – | – | 14.24 | 15.10 | 17.93 | 20.74 | 22.14 | 24.93 | 27.72 | 29.10 |
| 2.172 | 29 | 5.088 | 63 | 11.053 | – | 8.86 | 10.31 | 11.75 | 14.58 | 17.94 | 18.78 | 21.57 | 24.34 | 25.73 | 28.51 | 31.28 | 32.66 |
| 2.206 | 34 | 5.965 | 75 | 13.158 | – | – | – | – | 12.00 | 15.42 | 16.28 | 19.09 | 21.89 | 23.29 | 26.07 | 28.85 | 30.24 |
| 2.219 | 32 | 5.614 | 71 | 12.457 | – | – | – | 10.02 | 12.91 | 16.31 | 17.16 | 19.96 | 22.75 | 24.15 | 26.93 | 29.70 | 31.09 |
| 2.222 | 36 | 6.316 | 80 | 14.036 | – | – | – | – | 10.88 | 14.36 | 15.22 | 18.05 | 20.86 | 22.27 | 25.06 | 27.84 | 29.23 |
| 2.222 | 63 | 11.053 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.233 | 30 | 5.263 | 67 | 11.755 | – | – | 9.50 | 10.95 | 13.81 | 17.19 | 18.04 | 20.83 | 23.62 | 25.01 | 27.78 | 30.56 | 31.94 |
| 2.240 | 50 | 8.772 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | 15.28 | 18.20 | 21.07 | 22.49 |
| 2.240 | 75 | 13.158 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.250 | 28 | 4.912 | 63 | 11.053 | – | 8.98 | 10.43 | 11.87 | 14.70 | 18.06 | 18.91 | 21.69 | 24.47 | 25.86 | 28.64 | 31.41 | 32.79 |
| 2.250 | 40 | 7.018 | 90 | 15.790 | – | – | – | – | – | 12.15 | 13.04 | 15.93 | 18.78 | 20.19 | 23.01 | 25.81 | 27.20 |
| 2.250 | 80 | 14.036 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.273 | 33 | 5.790 | 75 | 13.158 | – | – | – | – | 12.11 | 15.54 | 16.40 | 19.21 | 22.01 | 23.41 | 26.20 | 28.98 | 30.36 |
| 2.286 | 35 | 6.141 | 80 | 14.036 | – | – | – | – | 11.00 | 14.48 | 15.34 | 18.17 | 20.99 | 22.39 | 25.18 | 27.97 | 29.36 |
| 2.290 | 31 | 5.439 | 71 | 12.457 | – | – | – | 10.14 | 13.03 | 16.43 | 17.28 | 20.09 | 22.88 | 24.28 | 27.06 | 29.83 | 31.22 |
| 2.308 | 39 | 6.842 | 90 | 15.790 | – | – | – | – | – | 12.26 | 13.15 | 16.05 | 18.90 | 20.32 | 23.13 | 25.93 | 27.33 |
| 2.310 | 29 | 5.088 | 67 | 11.755 | – | – | 9.61 | 11.07 | 13.93 | 17.31 | 18.16 | 20.96 | 23.74 | 25.14 | 27.91 | 30.69 | 32.07 |
| 2.333 | 48 | 8.421 | 112 | 19.650 | – | – | – | – | – | – | – | – | – | 15.51 | 18.43 | 21.30 | 22.73 |
| 2.333 | 60 | 10.527 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.344 | 32 | 5.614 | 75 | 13.158 | – | – | – | – | 12.23 | 15.67 | 16.52 | 19.34 | 22.14 | 23.54 | 26.33 | 29.11 | 30.49 |
| 2.353 | 34 | 5.965 | 80 | 14.036 | – | – | – | – | 11.11 | 14.59 | 15.46 | 18.29 | 21.11 | 22.51 | 25.31 | 28.10 | 29.48 |
| 2.366 | 71 | 12.457 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.367 | 30 | 5.263 | 71 | 12.457 | – | – | – | 10.25 | 13.15 | 16.56 | 17.40 | 20.21 | 23.01 | 24.40 | 27.18 | 29.96 | 31.35 |
| 2.368 | 38 | 6.667 | 90 | 15.790 | – | – | – | – | – | 12.38 | 13.27 | 16.16 | 19.02 | 20.44 | 23.25 | 26.06 | 27.45 |
| 2.393 | 28 | 4.912 | 67 | 11.755 | – | – | 9.73 | 11.19 | 14.05 | 17.44 | 18.28 | 21.08 | 23.87 | 25.26 | 28.04 | 30.81 | 32.20 |
| 2.400 | 75 | 13.158 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.419 | 31 | 5.439 | 75 | 13.158 | – | – | – | – | 12.35 | 15.78 | 16.64 | 19.46 | 22.26 | 23.66 | 26.45 | 29.23 | 30.62 |
| 2.424 | 33 | 5.790 | 80 | 14.036 | – | – | – | – | 11.22 | 14.71 | 15.57 | 18.42 | 21.23 | 22.64 | 25.43 | 28.22 | 29.61 |
| 2.432 | 37 | 6.492 | 90 | 15.790 | – | – | – | – | – | 12.49 | 13.38 | 16.28 | 19.14 | 20.56 | 23.38 | 26.18 | 27.58 |
| 2.448 | 29 | 5.088 | 71 | 12.457 | – | – | – | 10.36 | 13.27 | 16.68 | 17.53 | 20.34 | 23.13 | 24.53 | 27.31 | 30.09 | 31.47 |
| 2.489 | 45 | 7.895 | 112 | 19.650 | – | – | – | – | – | – | – | – | 14.35 | 15.85 | 18.78 | 21.66 | 23.08 |
| 2.500 | 30 | 5.263 | 75 | 13.158 | – | – | – | – | 12.46 | 15.90 | 16.76 | 19.58 | 22.39 | 23.79 | 26.58 | 29.36 | 30.75 |
| 2.500 | 32 | 5.614 | 80 | 14.036 | – | – | – | – | 11.34 | 14.83 | 15.69 | 18.54 | 21.36 | 22.76 | 25.56 | 28.35 | 29.74 |
| 2.500 | 36 | 6.316 | 90 | 15.790 | – | – | – | – | – | 12.60 | 13.49 | 16.40 | 19.26 | 20.68 | 23.50 | 26.31 | 27.70 |
| 2.500 | 56 | 9.825 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.500 | 80 | 14.036 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Length Factor*** | | | | | **0.68** | **0.73** | **0.75** | **0.77** | **0.81** | **0.85** | **0.86** | **0.89** | **0.92** | **0.94** | **0.96** | **0.99** | **1.00** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 2380-14MX | 2450-14MX | 2520-14MX | 2590-14MX | 2660-14MX | 2800-14MX | 3136-14MX | 3304-14MX | 3360-14MX | 3500-14MX | 3850-14MX | 3920-14MX | 4326-14MX | 4410-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |
| 1.875 | 32 | 5.614 | 60 | 10.527 | 34.08 | 35.47 | 36.85 | 38.23 | 39.61 | 42.37 | 48.99 | 52.31 | 53.41 | 56.16 | 63.06 | 64.44 | 72.44 | 74.09 |
| 1.875 | 40 | 7.018 | 75 | 13.158 | 30.85 | 32.24 | 33.62 | 35.00 | 36.38 | 39.15 | 45.78 | 49.10 | 50.20 | 52.96 | 59.86 | 61.24 | 69.24 | 70.90 |
| 1.875 | 48 | 8.421 | 90 | 15.790 | 27.59 | 28.98 | 30.37 | 31.76 | 33.14 | 35.92 | 42.56 | 45.88 | 46.98 | 49.74 | 56.65 | 58.03 | 66.04 | 67.69 |
| 1.893 | 28 | 4.912 | 53 | 9.299 | 35.62 | 37.00 | 38.38 | 39.76 | 41.14 | 43.90 | 50.52 | 53.83 | 54.93 | 57.69 | 64.59 | 65.97 | 73.96 | 75.62 |
| 1.909 | 33 | 5.790 | 63 | 11.053 | 33.52 | 34.90 | 36.28 | 37.66 | 39.04 | 41.81 | 48.43 | 51.74 | 52.85 | 55.60 | 62.50 | 63.88 | 71.88 | 73.53 |
| 1.914 | 35 | 6.141 | 67 | 11.755 | 32.67 | 34.06 | 35.44 | 36.82 | 38.20 | 40.97 | 47.59 | 50.91 | 52.01 | 54.77 | 61.67 | 63.05 | 71.04 | 72.70 |
| 1.919 | 37 | 6.492 | 71 | 12.457 | 31.83 | 33.21 | 34.59 | 35.98 | 37.36 | 40.13 | 46.75 | 50.07 | 51.17 | 53.93 | 60.83 | 62.21 | 70.21 | 71.87 |
| 1.923 | 39 | 6.842 | 75 | 13.158 | 30.98 | 32.37 | 33.75 | 35.14 | 36.52 | 39.29 | 45.91 | 49.23 | 50.33 | 53.09 | 59.99 | 61.38 | 69.38 | 71.03 |
| 1.931 | 29 | 5.088 | 56 | 9.825 | 35.06 | 36.44 | 37.82 | 39.20 | 40.58 | 43.34 | 49.96 | 53.27 | 54.38 | 57.13 | 64.03 | 65.41 | 73.40 | 75.06 |
| 1.935 | 31 | 5.439 | 60 | 10.527 | 34.22 | 35.60 | 36.98 | 38.36 | 39.74 | 42.50 | 49.12 | 52.44 | 53.54 | 56.30 | 63.19 | 64.58 | 72.57 | 74.23 |
| 1.969 | 32 | 5.614 | 63 | 11.053 | 33.65 | 35.03 | 36.41 | 37.80 | 39.18 | 41.94 | 48.56 | 51.88 | 52.98 | 55.74 | 62.64 | 64.02 | 72.01 | 73.67 |
| 1.971 | 34 | 5.965 | 67 | 11.755 | 32.80 | 34.19 | 35.57 | 36.95 | 38.33 | 41.10 | 47.72 | 51.04 | 52.14 | 54.90 | 61.80 | 63.18 | 71.18 | 72.84 |
| 1.972 | 36 | 6.316 | 71 | 12.457 | 31.96 | 33.34 | 34.72 | 36.11 | 37.49 | 40.26 | 46.89 | 50.20 | 51.30 | 54.06 | 60.96 | 62.35 | 70.34 | 72.00 |
| 1.972 | 71 | 12.457 | 140 | 24.562 | – | – | 19.59 | 21.03 | 22.46 | 25.32 | 32.08 | 35.45 | 36.56 | 39.35 | 46.31 | 47.71 | 55.75 | 57.42 |
| 1.974 | 38 | 6.667 | 75 | 13.158 | 31.11 | 32.50 | 33.88 | 35.27 | 36.65 | 39.42 | 46.05 | 49.36 | 50.47 | 53.23 | 60.13 | 61.51 | 69.51 | 71.17 |
| 2.000 | 28 | 4.912 | 56 | 9.825 | 35.19 | 36.57 | 37.95 | 39.33 | 40.71 | 43.48 | 50.10 | 53.41 | 54.51 | 57.27 | 64.16 | 65.54 | 73.54 | 75.20 |
| 2.000 | 30 | 5.263 | 60 | 10.527 | 34.35 | 35.73 | 37.11 | 38.49 | 39.87 | 42.64 | 49.26 | 52.57 | 53.67 | 56.43 | 63.33 | 64.71 | 72.71 | 74.36 |
| 2.000 | 40 | 7.018 | 80 | 14.036 | 30.11 | 31.50 | 32.88 | 34.27 | 35.65 | 38.42 | 45.06 | 48.38 | 49.48 | 52.24 | 59.15 | 60.53 | 68.53 | 70.19 |
| 2.000 | 45 | 7.895 | 90 | 15.790 | 27.97 | 29.36 | 30.75 | 32.14 | 33.53 | 36.30 | 42.95 | 46.27 | 47.37 | 50.14 | 57.05 | 58.43 | 66.44 | 68.09 |
| 2.000 | 56 | 9.825 | 112 | 19.650 | 23.18 | 24.59 | 25.99 | 27.39 | 28.79 | 31.59 | 38.26 | 41.60 | 42.71 | 45.48 | 52.40 | 53.79 | 61.81 | 63.47 |
| 2.027 | 37 | 6.492 | 75 | 13.158 | 31.24 | 32.63 | 34.01 | 35.39 | 36.78 | 39.55 | 46.18 | 49.49 | 50.60 | 53.36 | 60.26 | 61.64 | 69.64 | 71.30 |
| 2.029 | 35 | 6.141 | 71 | 12.457 | 32.09 | 33.47 | 34.86 | 36.24 | 37.62 | 40.39 | 47.02 | 50.33 | 51.44 | 54.20 | 61.10 | 62.48 | 70.48 | 72.13 |
| 2.030 | 33 | 5.790 | 67 | 11.755 | 32.94 | 34.32 | 35.70 | 37.09 | 38.46 | 41.23 | 47.86 | 51.17 | 52.28 | 55.03 | 61.93 | 63.31 | 71.31 | 72.97 |
| 2.032 | 31 | 5.439 | 63 | 11.053 | 33.78 | 35.17 | 36.54 | 37.93 | 39.31 | 42.07 | 48.70 | 52.01 | 53.11 | 55.87 | 62.77 | 64.15 | 72.15 | 73.80 |
| 2.051 | 39 | 6.842 | 80 | 14.036 | 30.24 | 31.63 | 33.01 | 34.40 | 35.78 | 38.55 | 45.19 | 48.51 | 49.61 | 52.37 | 59.28 | 60.66 | 68.66 | 70.32 |
| 2.069 | 29 | 5.088 | 60 | 10.527 | 34.48 | 35.86 | 37.24 | 38.63 | 40.00 | 42.77 | 49.39 | 52.71 | 53.81 | 56.57 | 63.46 | 64.84 | 72.84 | 74.50 |
| 2.083 | 36 | 6.316 | 75 | 13.158 | 31.37 | 32.76 | 34.14 | 35.53 | 36.91 | 39.68 | 46.31 | 49.63 | 50.73 | 53.49 | 60.39 | 61.78 | 69.78 | 71.43 |
| 2.088 | 34 | 5.965 | 71 | 12.457 | 32.22 | 33.60 | 34.99 | 36.37 | 37.75 | 40.52 | 47.15 | 50.47 | 51.57 | 54.33 | 61.23 | 62.61 | 70.61 | 72.27 |
| 2.090 | 67 | 11.755 | 140 | 24.562 | – | 18.59 | 20.05 | 21.50 | 22.94 | 25.80 | 32.58 | 35.94 | 37.06 | 39.86 | 46.82 | 48.22 | 56.27 | 57.93 |
| 2.093 | 43 | 7.544 | 90 | 15.790 | 28.22 | 29.62 | 31.00 | 32.40 | 33.78 | 36.56 | 43.21 | 46.53 | 47.63 | 50.40 | 57.31 | 58.69 | 66.70 | 68.36 |
| 2.094 | 32 | 5.614 | 67 | 11.755 | 33.07 | 34.45 | 35.83 | 37.22 | 38.60 | 41.36 | 47.99 | 51.31 | 52.41 | 55.17 | 62.07 | 63.45 | 71.45 | 73.10 |
| 2.100 | 30 | 5.263 | 63 | 11.053 | 33.91 | 35.30 | 36.68 | 38.06 | 39.44 | 42.21 | 48.83 | 52.15 | 53.25 | 56.01 | 62.90 | 64.29 | 72.28 | 73.94 |
| 2.100 | 80 | 14.036 | 168 | 29.475 | – | – | – | – | – | – | 26.42 | 29.86 | 31.00 | 33.84 | 40.88 | 42.28 | 50.39 | 52.06 |
| 2.105 | 38 | 6.667 | 80 | 14.036 | 30.37 | 31.76 | 33.14 | 34.53 | 35.91 | 38.68 | 45.32 | 48.64 | 49.74 | 52.51 | 59.41 | 60.79 | 68.80 | 70.45 |
| 2.113 | 53 | 9.299 | 112 | 19.650 | 23.54 | 24.95 | 26.36 | 27.76 | 29.16 | 31.96 | 38.65 | 41.98 | 43.09 | 45.87 | 52.79 | 54.18 | 62.20 | 63.86 |
| 2.143 | 28 | 4.912 | 60 | 10.527 | 34.61 | 35.99 | 37.37 | 38.76 | 40.14 | 42.90 | 49.52 | 52.84 | 53.94 | 56.70 | 63.60 | 64.98 | 72.98 | 74.63 |
| 2.143 | 35 | 6.141 | 75 | 13.158 | 31.50 | 32.89 | 34.27 | 35.65 | 37.04 | 39.81 | 46.44 | 49.76 | 50.86 | 53.62 | 60.53 | 61.91 | 69.91 | 71.57 |
| 2.152 | 33 | 5.790 | 71 | 12.457 | 32.35 | 33.73 | 35.12 | 36.50 | 37.88 | 40.65 | 47.28 | 50.60 | 51.70 | 54.46 | 61.36 | 62.75 | 70.75 | 72.40 |
| 2.161 | 31 | 5.439 | 67 | 11.755 | 33.20 | 34.58 | 35.96 | 37.35 | 38.73 | 41.50 | 48.12 | 51.44 | 52.54 | 55.30 | 62.20 | 63.58 | 71.58 | 73.24 |
| 2.162 | 37 | 6.492 | 80 | 14.036 | 30.49 | 31.88 | 33.27 | 34.66 | 36.04 | 38.81 | 45.45 | 48.77 | 49.87 | 52.64 | 59.54 | 60.93 | 68.93 | 70.59 |
| 2.172 | 29 | 5.088 | 63 | 11.053 | 34.04 | 35.43 | 36.81 | 38.19 | 39.57 | 42.34 | 48.96 | 52.28 | 53.38 | 56.14 | 63.04 | 64.42 | 72.42 | 74.07 |
| 2.206 | 34 | 5.965 | 75 | 13.158 | 31.63 | 33.01 | 34.40 | 35.78 | 37.17 | 39.94 | 46.57 | 49.89 | 50.99 | 53.76 | 60.66 | 62.04 | 70.04 | 71.70 |
| 2.219 | 32 | 5.614 | 71 | 12.457 | 32.48 | 33.86 | 35.25 | 36.63 | 38.01 | 40.78 | 47.41 | 50.73 | 51.83 | 54.59 | 61.50 | 62.88 | 70.88 | 72.54 |
| 2.222 | 36 | 6.316 | 80 | 14.036 | 30.62 | 32.01 | 33.40 | 34.79 | 36.17 | 38.94 | 45.58 | 48.90 | 50.01 | 52.77 | 59.68 | 61.06 | 69.06 | 70.72 |
| 2.222 | 63 | 11.053 | 140 | 24.562 | – | 19.05 | 20.51 | 21.97 | 23.41 | 26.27 | 33.07 | 36.44 | 37.56 | 40.36 | 47.33 | 48.72 | 56.78 | 58.45 |
| 2.233 | 30 | 5.263 | 67 | 11.755 | 33.33 | 34.71 | 36.09 | 37.48 | 38.86 | 41.63 | 48.25 | 51.57 | 52.67 | 55.43 | 62.33 | 63.72 | 71.72 | 73.37 |
| 2.240 | 50 | 8.772 | 112 | 19.650 | 23.91 | 25.32 | 26.73 | 28.14 | 29.54 | 32.34 | 39.03 | 42.37 | 43.48 | 46.25 | 53.18 | 54.57 | 62.60 | 64.26 |
| 2.240 | 75 | 13.158 | 168 | 29.475 | – | – | – | – | – | – | 27.00 | 30.46 | 31.60 | 34.44 | 41.50 | 42.90 | 51.02 | 52.69 |
| 2.250 | 28 | 4.912 | 63 | 11.053 | 34.17 | 35.56 | 36.94 | 38.32 | 39.70 | 42.47 | 49.10 | 52.41 | 53.51 | 56.27 | 63.17 | 64.55 | 72.55 | 74.21 |
| 2.250 | 40 | 7.018 | 90 | 15.790 | 28.60 | 30.00 | 31.38 | 32.78 | 34.16 | 36.95 | 43.60 | 46.92 | 48.03 | 50.79 | 57.70 | 59.09 | 67.10 | 68.76 |
| 2.250 | 80 | 14.036 | 180 | 31.580 | – | – | – | – | – | – | 24.30 | 27.82 | 28.98 | 31.85 | 38.97 | 40.38 | 48.53 | 50.22 |
| 2.273 | 33 | 5.790 | 75 | 13.158 | 31.75 | 33.14 | 34.53 | 35.91 | 37.30 | 40.07 | 46.70 | 50.02 | 51.13 | 53.89 | 60.79 | 62.17 | 70.18 | 71.83 |
| 2.286 | 35 | 6.141 | 80 | 14.036 | 30.75 | 32.14 | 33.53 | 34.91 | 36.30 | 39.07 | 45.71 | 49.03 | 50.14 | 52.90 | 59.81 | 61.19 | 69.20 | 70.85 |
| 2.290 | 31 | 5.439 | 71 | 12.457 | 32.61 | 33.99 | 35.38 | 36.76 | 38.14 | 40.91 | 47.54 | 50.86 | 51.97 | 54.73 | 61.63 | 63.01 | 71.01 | 72.67 |
| 2.308 | 39 | 6.842 | 90 | 15.790 | 28.73 | 30.12 | 31.51 | 32.91 | 34.29 | 37.07 | 43.73 | 47.05 | 48.16 | 50.92 | 57.84 | 59.22 | 67.23 | 68.89 |
| 2.310 | 29 | 5.088 | 67 | 11.755 | 33.46 | 34.84 | 36.22 | 37.61 | 38.99 | 41.76 | 48.39 | 51.70 | 52.81 | 55.57 | 62.47 | 63.85 | 71.85 | 73.51 |
| 2.333 | 48 | 8.421 | 112 | 19.650 | 24.15 | 25.56 | 26.97 | 28.38 | 29.78 | 32.59 | 39.28 | 42.62 | 43.73 | 46.51 | 53.44 | 54.83 | 62.86 | 64.52 |
| 2.333 | 60 | 10.527 | 140 | 24.562 | – | 19.39 | 20.85 | 22.31 | 23.76 | 26.63 | 33.43 | 36.81 | 37.93 | 40.73 | 47.71 | 49.10 | 57.16 | 58.83 |
| 2.344 | 32 | 5.614 | 75 | 13.158 | 31.88 | 33.27 | 34.66 | 36.04 | 37.43 | 40.20 | 46.83 | 50.15 | 51.26 | 54.02 | 60.92 | 62.31 | 70.31 | 71.97 |
| 2.353 | 34 | 5.965 | 80 | 14.036 | 30.88 | 32.27 | 33.65 | 35.04 | 36.43 | 39.20 | 45.84 | 49.17 | 50.27 | 53.03 | 59.94 | 61.32 | 69.33 | 70.99 |
| 2.366 | 71 | 12.457 | 168 | 29.475 | – | – | – | – | – | – | 27.47 | 30.93 | 32.07 | 34.92 | 41.99 | 43.39 | 51.52 | 53.19 |
| 2.367 | 30 | 5.263 | 71 | 12.457 | 32.73 | 34.12 | 35.51 | 36.89 | 38.27 | 41.05 | 47.68 | 51.00 | 52.10 | 54.86 | 61.76 | 63.15 | 71.15 | 72.80 |
| 2.368 | 38 | 6.667 | 90 | 15.790 | 28.85 | 30.25 | 31.64 | 33.03 | 34.42 | 37.20 | 43.85 | 47.18 | 48.29 | 51.05 | 57.97 | 59.35 | 67.36 | 69.02 |
| 2.393 | 28 | 4.912 | 67 | 11.755 | 33.59 | 34.97 | 36.35 | 37.74 | 39.12 | 41.89 | 48.52 | 51.84 | 52.94 | 55.70 | 62.60 | 63.98 | 71.98 | 73.64 |
| 2.400 | 75 | 13.158 | 180 | 31.580 | – | – | – | – | – | – | 24.87 | 28.40 | 29.56 | 32.44 | 39.57 | 40.99 | 49.15 | 50.84 |
| 2.419 | 31 | 5.439 | 75 | 13.158 | 32.01 | 33.40 | 34.78 | 36.17 | 37.56 | 40.33 | 46.97 | 50.29 | 51.39 | 54.15 | 61.06 | 62.44 | 70.44 | 72.10 |
| 2.424 | 33 | 5.790 | 80 | 14.036 | 31.00 | 32.40 | 33.78 | 35.17 | 36.56 | 39.33 | 45.97 | 49.30 | 50.40 | 53.16 | 60.07 | 61.46 | 69.46 | 71.12 |
| 2.432 | 37 | 6.492 | 90 | 15.790 | 28.98 | 30.37 | 31.76 | 33.16 | 34.55 | 37.33 | 43.98 | 47.31 | 48.42 | 51.18 | 58.10 | 59.48 | 67.49 | 69.15 |
| 2.448 | 29 | 5.088 | 71 | 12.457 | 32.86 | 34.25 | 35.63 | 37.02 | 38.40 | 41.18 | 47.81 | 51.13 | 52.23 | 54.99 | 61.90 | 63.28 | 71.28 | 72.94 |
| 2.489 | 45 | 7.895 | 112 | 19.650 | 24.51 | 25.93 | 27.34 | 28.75 | 30.15 | 32.96 | 39.66 | 43.00 | 44.11 | 46.89 | 53.83 | 55.22 | 63.25 | 64.91 |
| 2.500 | 30 | 5.263 | 75 | 13.158 | 32.14 | 33.53 | 34.91 | 36.30 | 37.69 | 40.46 | 47.10 | 50.42 | 51.52 | 54.28 | 61.19 | 62.57 | 70.58 | 72.23 |
| 2.500 | 32 | 5.614 | 80 | 14.036 | 31.13 | 32.52 | 33.91 | 35.30 | 36.68 | 39.46 | 46.10 | 49.43 | 50.53 | 53.30 | 60.20 | 61.59 | 69.59 | 71.25 |
| 2.500 | 36 | 6.316 | 90 | 15.790 | 29.10 | 30.50 | 31.89 | 33.29 | 34.67 | 37.46 | 44.11 | 47.44 | 48.55 | 51.31 | 58.23 | 59.61 | 67.63 | 69.29 |
| 2.500 | 56 | 9.825 | 140 | 24.562 | 18.34 | 19.84 | 21.31 | 22.77 | 24.22 | 27.10 | 33.92 | 37.30 | 38.42 | 41.23 | 48.21 | 49.61 | 57.68 | 59.34 |
| 2.500 | 80 | 14.036 | 200 | 35.089 | – | – | – | – | – | – | – | – | 25.34 | 28.33 | 35.64 | 37.08 | 45.34 | 47.04 |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 994-14MX | 1120-14MX | 1190-14MX | 1260-14MX | 1400-14MX | 1568-14MX | 1610-14MX | 1750-14MX | 1890-14MX | 1960-14MX | 2100-14MX | 2240-14MX | 2310-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | |
| Length Factor* | | | | | 0.68 | 0.73 | 0.75 | 0.77 | 0.81 | 0.85 | 0.86 | 0.89 | 0.92 | 0.94 | 0.96 | 0.99 | 1.00 |
| 2.507 | 67 | 11.755 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.535 | 71 | 12.457 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.536 | 28 | 4.912 | 71 | 12.457 | – | – | – | 10.48 | 13.38 | 16.80 | 17.65 | 20.46 | 23.26 | 24.65 | 27.44 | 30.22 | 31.60 |
| 2.571 | 35 | 6.141 | 90 | 15.790 | – | – | – | – | – | 12.71 | 13.61 | 16.52 | 19.38 | 20.80 | 23.62 | 26.43 | 27.83 |
| 2.581 | 31 | 5.439 | 80 | 14.036 | – | – | – | – | 11.45 | 14.95 | 15.81 | 18.66 | 21.48 | 22.88 | 25.68 | 28.47 | 29.86 |
| 2.586 | 29 | 5.088 | 75 | 13.158 | – | – | – | – | 12.58 | 16.02 | 16.88 | 19.71 | 22.51 | 23.91 | 26.70 | 29.49 | 30.88 |
| 2.605 | 43 | 7.544 | 112 | 19.650 | – | – | – | – | – | – | – | – | 14.57 | 16.07 | 19.01 | 21.89 | 23.32 |
| 2.642 | 53 | 9.299 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.647 | 34 | 5.965 | 90 | 15.790 | – | – | – | – | – | 12.83 | 13.72 | 16.63 | 19.50 | 20.92 | 23.74 | 26.55 | 27.95 |
| 2.667 | 30 | 5.263 | 80 | 14.036 | – | – | – | – | 11.56 | 15.06 | 15.93 | 18.78 | 21.60 | 23.01 | 25.81 | 28.60 | 29.99 |
| 2.667 | 63 | 11.053 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.667 | 75 | 13.158 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.679 | 28 | 4.912 | 75 | 13.158 | – | – | – | – | 12.69 | 16.14 | 17.00 | 19.83 | 22.64 | 24.04 | 26.83 | 29.62 | 31.00 |
| 2.687 | 67 | 11.755 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.727 | 33 | 5.790 | 90 | 15.790 | – | – | – | – | – | 12.94 | 13.83 | 16.75 | 19.62 | 21.04 | 23.87 | 26.68 | 28.07 |
| 2.759 | 29 | 5.088 | 80 | 14.036 | – | – | – | – | 11.67 | 15.18 | 16.05 | 18.90 | 21.72 | 23.13 | 25.93 | 28.73 | 30.12 |
| 2.800 | 40 | 7.018 | 112 | 19.650 | – | – | – | – | – | – | – | | 14.90 | 16.41 | 19.36 | 22.25 | 23.68 |
| 2.800 | 50 | 8.772 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | 17.47 |
| 2.800 | 60 | 10.527 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.800 | 80 | 14.036 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.813 | 32 | 5.614 | 90 | 15.790 | – | – | – | – | – | 13.05 | 13.95 | 16.87 | 19.73 | 21.16 | 23.99 | 26.80 | 28.20 |
| 2.817 | 71 | 12.457 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.857 | 28 | 4.912 | 80 | 14.036 | – | – | – | – | 11.78 | 15.30 | 16.17 | 19.02 | 21.85 | 23.25 | 26.06 | 28.85 | 30.24 |
| 2.857 | 63 | 11.053 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.872 | 39 | 6.842 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.01 | 16.52 | 19.47 | 22.36 | 23.80 |
| 2.903 | 31 | 5.439 | 90 | 15.790 | – | – | – | – | – | 13.16 | 14.06 | 16.98 | 19.85 | 21.28 | 24.11 | 26.92 | 28.32 |
| 2.917 | 48 | 8.421 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | 17.69 |
| 2.947 | 38 | 6.667 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.12 | 16.63 | 19.58 | 22.48 | 23.91 |
| 2.985 | 67 | 11.755 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.987 | 75 | 13.158 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.000 | 30 | 5.263 | 90 | 15.790 | – | – | – | – | – | 13.27 | 14.17 | 17.10 | 19.97 | 21.40 | 24.23 | 27.05 | 28.45 |
| 3.000 | 56 | 9.825 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.000 | 60 | 10.527 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.027 | 37 | 6.492 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.23 | 16.74 | 19.70 | 22.60 | 24.03 |
| 3.103 | 29 | 5.088 | 90 | 15.790 | – | – | – | – | – | 13.38 | 14.28 | 17.21 | 20.09 | 21.52 | 24.35 | 27.17 | 28.57 |
| 3.111 | 36 | 6.316 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.34 | 16.85 | 19.81 | 22.72 | 24.15 |
| 3.111 | 45 | 7.895 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | – | 18.01 |
| 3.155 | 71 | 12.457 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.170 | 53 | 9.299 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.175 | 63 | 11.053 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.200 | 35 | 6.141 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.45 | 16.97 | 19.93 | 22.83 | 24.27 |
| 3.214 | 28 | 4.912 | 90 | 15.790 | – | – | – | – | – | 13.49 | 14.40 | 17.33 | 20.21 | 21.64 | 24.47 | 27.29 | 28.69 |
| 3.214 | 56 | 9.825 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.256 | 43 | 7.544 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 16.65 | 18.23 |
| 3.294 | 34 | 5.965 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.56 | 17.08 | 20.04 | 22.95 | 24.39 |
| 3.333 | 60 | 10.527 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.343 | 67 | 11.755 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.360 | 50 | 8.772 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.394 | 33 | 5.790 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.66 | 17.19 | 20.16 | 23.07 | 24.50 |
| 3.396 | 53 | 9.299 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.500 | 32 | 5.614 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.77 | 17.30 | 20.27 | 23.18 | 24.62 |
| 3.500 | 40 | 7.018 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 16.97 | 18.55 |
| 3.500 | 48 | 8.421 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.556 | 63 | 11.053 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.571 | 56 | 9.825 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.590 | 39 | 6.842 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 17.08 | 18.66 |
| 3.600 | 50 | 8.772 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.613 | 31 | 5.439 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.88 | 17.41 | 20.38 | 23.30 | 24.74 |
| 3.684 | 38 | 6.667 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 17.18 | 18.77 |
| 3.733 | 30 | 5.263 | 112 | 19.650 | – | – | – | – | – | – | – | – | 15.99 | 17.52 | 20.50 | 23.41 | 24.85 |
| 3.733 | 45 | 7.895 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.733 | 60 | 10.527 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.750 | 48 | 8.421 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.774 | 53 | 9.299 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3.784 | 37 | 6.492 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 17.29 | 18.87 |
| 3.862 | 29 | 5.088 | 112 | 19.650 | – | – | – | – | – | – | – | 12.91 | 16.10 | 17.63 | 20.61 | 23.53 | 24.97 |
| 3.889 | 36 | 6.316 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 17.39 | 18.98 |
| 3.907 | 43 | 7.544 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.000 | 28 | 4.912 | 112 | 19.650 | – | – | – | – | – | – | – | 13.01 | 16.21 | 17.74 | 20.72 | 23.65 | 25.09 |
| 4.000 | 35 | 6.141 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 17.50 | 19.09 |
| 4.000 | 45 | 7.895 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.000 | 50 | 8.772 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.000 | 56 | 9.825 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Length Factor* | | | | | 0.68 | 0.73 | 0.75 | 0.77 | 0.81 | 0.85 | 0.86 | 0.89 | 0.92 | 0.94 | 0.96 | 0.99 | 1.00 |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table (Continued)

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 2380-14MX | 2450-14MX | 2520-14MX | 2590-14MX | 2660-14MX | 2800-14MX | 3136-14MX | 3304-14MX | 3360-14MX | 3500-14MX | 3850-14MX | 3920-14MX | 4326-14MX | 4410-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |
| 2.507 | 67 | 11.755 | 168 | 29.475 | – | – | – | – | – | – | 27.93 | 31.40 | 32.54 | 35.40 | 42.48 | 43.89 | 52.02 | 53.70 |
| 2.535 | 71 | 12.457 | 180 | 31.580 | – | – | – | – | – | – | 25.32 | 28.85 | 30.02 | 32.91 | 40.05 | 41.47 | 49.64 | 51.33 |
| 2.536 | 28 | 4.912 | 71 | 12.457 | 32.99 | 34.38 | 35.76 | 37.15 | 38.53 | 41.31 | 47.94 | 51.26 | 52.36 | 55.12 | 62.03 | 63.41 | 71.41 | 73.07 |
| 2.571 | 35 | 6.141 | 90 | 15.790 | 29.23 | 30.62 | 32.02 | 33.41 | 34.80 | 37.59 | 44.24 | 47.57 | 48.68 | 51.44 | 58.36 | 59.75 | 67.76 | 69.42 |
| 2.581 | 31 | 5.439 | 80 | 14.036 | 31.26 | 32.65 | 34.04 | 35.43 | 36.81 | 39.59 | 46.23 | 49.56 | 50.66 | 53.43 | 60.34 | 61.72 | 69.73 | 71.38 |
| 2.586 | 29 | 5.088 | 75 | 13.158 | 32.27 | 33.66 | 35.04 | 36.43 | 37.81 | 40.59 | 47.23 | 50.55 | 51.65 | 54.41 | 61.32 | 62.70 | 70.71 | 72.37 |
| 2.605 | 43 | 7.544 | 112 | 19.650 | 24.75 | 26.17 | 27.58 | 28.99 | 30.40 | 33.21 | 39.91 | 43.26 | 44.37 | 47.15 | 54.09 | 55.48 | 63.51 | 65.17 |
| 2.642 | 53 | 9.299 | 140 | 24.562 | 18.67 | 20.17 | 21.65 | 23.12 | 24.57 | 27.46 | 34.28 | 37.67 | 38.79 | 41.60 | 48.59 | 49.99 | 58.06 | 59.73 |
| 2.647 | 34 | 5.965 | 90 | 15.790 | 29.35 | 30.75 | 32.14 | 33.54 | 34.93 | 37.71 | 44.37 | 47.70 | 48.81 | 51.57 | 58.49 | 59.88 | 67.89 | 69.55 |
| 2.667 | 30 | 5.263 | 80 | 14.036 | 31.39 | 32.78 | 34.17 | 35.56 | 36.94 | 39.72 | 46.36 | 49.69 | 50.79 | 53.56 | 60.47 | 61.85 | 69.86 | 71.52 |
| 2.667 | 63 | 11.053 | 168 | 29.475 | – | – | – | – | – | 21.26 | 28.39 | 31.87 | 33.02 | 35.88 | 42.96 | 44.37 | 52.51 | 54.19 |
| 2.667 | 75 | 13.158 | 200 | 35.089 | – | – | – | – | – | – | – | 24.67 | 25.89 | 28.90 | 36.22 | 37.66 | 45.95 | 47.65 |
| 2.679 | 28 | 4.912 | 75 | 13.158 | 32.40 | 33.79 | 35.17 | 36.56 | 37.94 | 40.72 | 47.36 | 50.68 | 51.78 | 54.55 | 61.45 | 62.84 | 70.84 | 72.50 |
| 2.687 | 67 | 11.755 | 180 | 31.580 | – | – | – | – | – | – | 25.76 | 29.31 | 30.48 | 33.38 | 40.53 | 41.95 | 50.14 | 51.82 |
| 2.727 | 33 | 5.790 | 90 | 15.790 | 29.48 | 30.88 | 32.27 | 33.66 | 35.05 | 37.84 | 44.50 | 47.83 | 48.94 | 51.70 | 58.62 | 60.01 | 68.02 | 69.68 |
| 2.759 | 29 | 5.088 | 80 | 14.036 | 31.51 | 32.91 | 34.29 | 35.68 | 37.07 | 39.85 | 46.49 | 49.82 | 50.92 | 53.69 | 60.60 | 61.98 | 69.99 | 71.65 |
| 2.800 | 40 | 7.018 | 112 | 19.650 | 25.11 | 26.53 | 27.94 | 29.36 | 30.76 | 33.58 | 40.29 | 43.64 | 44.75 | 47.53 | 54.47 | 55.86 | 63.90 | 65.56 |
| 2.800 | 50 | 8.772 | 140 | 24.562 | 19.00 | 20.51 | 21.99 | 23.46 | 24.92 | 27.81 | 34.65 | 38.04 | 39.16 | 41.97 | 48.97 | 50.36 | 58.44 | 60.11 |
| 2.800 | 60 | 10.527 | 168 | 29.475 | – | – | – | – | – | 21.59 | 28.74 | 32.22 | 33.37 | 36.23 | 43.33 | 44.74 | 52.89 | 54.57 |
| 2.800 | 80 | 14.036 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | 31.31 | 32.81 | 41.32 | 43.05 |
| 2.813 | 32 | 5.614 | 90 | 15.790 | 29.60 | 31.00 | 32.39 | 33.79 | 35.18 | 37.97 | 44.63 | 47.96 | 49.07 | 51.83 | 58.75 | 60.14 | 68.15 | 69.81 |
| 2.817 | 71 | 12.457 | 200 | 35.089 | – | – | – | – | – | – | – | 25.10 | 26.33 | 29.34 | 36.68 | 38.13 | 46.43 | 48.13 |
| 2.857 | 28 | 4.912 | 80 | 14.036 | 31.64 | 33.03 | 34.42 | 35.81 | 37.20 | 39.98 | 46.62 | 49.95 | 51.05 | 53.82 | 60.73 | 62.12 | 70.12 | 71.78 |
| 2.857 | 63 | 11.053 | 180 | 31.580 | – | – | – | – | – | – | 26.21 | 29.77 | 30.94 | 33.84 | 41.01 | 42.43 | 50.63 | 52.32 |
| 2.872 | 39 | 6.842 | 112 | 19.650 | 25.23 | 26.65 | 28.06 | 29.48 | 30.89 | 33.70 | 40.41 | 43.76 | 44.88 | 47.66 | 54.60 | 55.99 | 64.03 | 65.69 |
| 2.903 | 31 | 5.439 | 90 | 15.790 | 29.73 | 31.13 | 32.52 | 33.92 | 35.31 | 38.09 | 44.76 | 48.09 | 49.19 | 51.96 | 58.88 | 60.27 | 68.29 | 69.95 |
| 2.917 | 48 | 8.421 | 140 | 24.562 | 19.22 | 20.73 | 22.22 | 23.69 | 25.15 | 28.05 | 34.89 | 38.28 | 39.41 | 42.22 | 49.22 | 50.62 | 58.69 | 60.36 |
| 2.947 | 38 | 6.667 | 112 | 19.650 | 25.34 | 26.77 | 28.18 | 29.60 | 31.01 | 33.83 | 40.54 | 43.89 | 45.00 | 47.78 | 54.73 | 56.12 | 64.16 | 65.82 |
| 2.985 | 67 | 11.755 | 200 | 35.089 | – | – | – | – | – | – | – | 25.53 | 26.76 | 29.79 | 37.15 | 38.60 | 46.91 | 48.61 |
| 2.987 | 75 | 13.158 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | 31.86 | 33.37 | 41.90 | 43.64 |
| 3.000 | 30 | 5.263 | 90 | 15.790 | 29.85 | 31.25 | 32.64 | 34.04 | 35.43 | 38.22 | 44.89 | 48.22 | 49.32 | 52.09 | 59.02 | 60.40 | 68.42 | 70.08 |
| 3.000 | 56 | 9.825 | 168 | 29.475 | – | – | – | – | – | 22.02 | 29.19 | 32.69 | 33.84 | 36.71 | 43.81 | 45.23 | 53.38 | 55.06 |
| 3.000 | 60 | 10.527 | 180 | 31.580 | – | – | – | – | – | – | 26.54 | 30.11 | 31.28 | 34.19 | 41.37 | 42.79 | 50.99 | 52.68 |
| 3.027 | 37 | 6.492 | 112 | 19.650 | 25.46 | 26.89 | 28.31 | 29.72 | 31.13 | 33.95 | 40.66 | 44.02 | 45.13 | 47.91 | 54.86 | 56.25 | 64.29 | 65.95 |
| 3.103 | 29 | 5.088 | 90 | 15.790 | 29.97 | 31.38 | 32.77 | 34.17 | 35.56 | 38.35 | 45.01 | 48.35 | 49.45 | 52.22 | 59.15 | 60.53 | 68.55 | 70.21 |
| 3.111 | 36 | 6.316 | 112 | 19.650 | 25.58 | 27.01 | 28.43 | 29.84 | 31.25 | 34.07 | 40.79 | 44.14 | 45.25 | 48.04 | 54.99 | 56.38 | 64.42 | 66.08 |
| 3.111 | 45 | 7.895 | 140 | 24.562 | 19.55 | 21.07 | 22.56 | 24.03 | 25.49 | 28.40 | 35.25 | 38.65 | 39.77 | 42.59 | 49.59 | 50.99 | 59.07 | 60.75 |
| 3.155 | 71 | 12.457 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | 32.30 | 33.81 | 42.36 | 44.10 |
| 3.170 | 53 | 9.299 | 168 | 29.475 | – | – | – | – | – | 22.35 | 29.54 | 33.03 | 34.19 | 37.06 | 44.18 | 45.59 | 53.75 | 55.44 |
| 3.175 | 63 | 11.053 | 200 | 35.089 | – | – | – | – | – | – | – | 25.97 | 27.20 | 30.23 | 37.61 | 39.06 | 47.38 | 49.09 |
| 3.200 | 35 | 6.141 | 112 | 19.650 | 25.70 | 27.13 | 28.55 | 29.96 | 31.37 | 34.19 | 40.91 | 44.27 | 45.38 | 48.16 | 55.11 | 56.50 | 64.55 | 66.21 |
| 3.214 | 28 | 4.912 | 90 | 15.790 | 30.10 | 31.50 | 32.90 | 34.29 | 35.69 | 38.48 | 45.14 | 48.48 | 49.58 | 52.35 | 59.28 | 60.66 | 68.68 | 70.34 |
| 3.214 | 56 | 9.825 | 180 | 31.580 | | | | | | | 26.99 | 30.56 | 31.74 | 34.65 | 41.84 | 43.27 | 51.48 | 53.17 |
| 3.256 | 43 | 7.544 | 140 | 24.562 | 19.77 | 21.29 | 22.78 | 24.26 | 25.72 | 28.63 | 35.49 | 38.89 | 40.02 | 42.83 | 49.84 | 51.24 | 59.33 | 61.00 |
| 3.294 | 34 | 5.965 | 112 | 19.650 | 25.82 | 27.25 | 28.67 | 30.09 | 31.50 | 34.32 | 41.04 | 44.39 | 45.51 | 48.29 | 55.24 | 56.63 | 64.67 | 66.34 |
| 3.333 | 60 | 10.527 | 200 | 35.089 | – | – | – | – | – | – | – | 26.29 | 27.53 | 30.57 | 37.95 | 39.41 | 47.74 | 49.45 |
| 3.343 | 67 | 11.755 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | 32.74 | 34.26 | 42.82 | 44.57 |
| 3.360 | 50 | 8.772 | 168 | 29.475 | – | – | – | – | – | 22.67 | 29.88 | 33.38 | 34.54 | 37.41 | 44.54 | 45.96 | 54.12 | 55.81 |
| 3.394 | 33 | 5.790 | 112 | 19.650 | 25.94 | 27.37 | 28.79 | 30.21 | 31.62 | 34.44 | 41.16 | 44.52 | 45.63 | 48.42 | 55.37 | 56.76 | 64.80 | 66.47 |
| 3.396 | 53 | 9.299 | 180 | 31.580 | – | – | – | – | – | – | 27.32 | 30.90 | 32.08 | 35.00 | 42.20 | 43.63 | 51.85 | 53.54 |
| 3.500 | 32 | 5.614 | 112 | 19.650 | 26.06 | 27.49 | 28.91 | 30.33 | 31.74 | 34.56 | 41.29 | 44.64 | 45.76 | 48.54 | 55.50 | 56.89 | 64.93 | 66.60 |
| 3.500 | 40 | 7.018 | 140 | 24.562 | 20.10 | 21.62 | 23.12 | 24.60 | 26.07 | 28.98 | 35.85 | 39.25 | 40.38 | 43.20 | 50.21 | 51.61 | 59.71 | 61.38 |
| 3.500 | 48 | 8.421 | 168 | 29.475 | – | – | – | – | 19.71 | 22.89 | 30.11 | 33.61 | 34.77 | 37.65 | 44.78 | 46.20 | 54.37 | 56.06 |
| 3.556 | 63 | 11.053 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | 33.18 | 34.70 | 43.28 | 45.03 |
| 3.571 | 56 | 9.825 | 200 | 35.089 | – | – | – | – | – | – | 22.87 | 26.72 | 27.96 | 31.01 | 38.41 | 39.87 | 48.22 | 49.93 |
| 3.590 | 39 | 6.842 | 140 | 24.562 | 20.21 | 21.73 | 23.23 | 24.71 | 26.18 | 29.10 | 35.97 | 39.37 | 40.50 | 43.32 | 50.34 | 51.74 | 59.83 | 61.51 |
| 3.600 | 50 | 8.772 | 180 | 31.580 | – | – | – | – | – | – | 27.65 | 31.24 | 32.42 | 35.35 | 42.56 | 43.99 | 52.21 | 53.91 |
| 3.613 | 31 | 5.439 | 112 | 19.650 | 26.17 | 27.61 | 29.03 | 30.45 | 31.86 | 34.68 | 41.41 | 44.77 | 45.88 | 48.67 | 55.63 | 57.02 | 65.06 | 66.73 |
| 3.684 | 38 | 6.667 | 140 | 24.562 | 20.32 | 21.84 | 23.34 | 24.83 | 26.30 | 29.21 | 36.09 | 39.49 | 40.62 | 43.44 | 50.46 | 51.86 | 59.96 | 61.63 |
| 3.733 | 30 | 5.263 | 112 | 19.650 | 26.29 | 27.72 | 29.15 | 30.57 | 31.98 | 34.81 | 41.54 | 44.90 | 46.01 | 48.80 | 55.75 | 57.15 | 65.19 | 66.86 |
| 3.733 | 45 | 7.895 | 168 | 29.475 | – | – | – | – | 20.03 | 23.21 | 30.45 | 33.96 | 35.12 | 38.00 | 45.14 | 46.56 | 54.74 | 56.42 |
| 3.733 | 60 | 10.527 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | 25.60 | 33.51 | 35.03 | 43.63 | 45.38 |
| 3.750 | 48 | 8.421 | 180 | 31.580 | – | – | – | – | – | – | 27.87 | 31.47 | 32.65 | 35.58 | 42.79 | 44.22 | 52.45 | 54.15 |
| 3.774 | 53 | 9.299 | 200 | 35.089 | – | – | – | – | – | – | 23.18 | 27.04 | 28.28 | 31.34 | 38.76 | 40.22 | 48.57 | 50.29 |
| 3.784 | 37 | 6.492 | 140 | 24.562 | 20.43 | 21.95 | 23.45 | 24.94 | 26.41 | 29.33 | 36.21 | 39.62 | 40.74 | 43.56 | 50.59 | 51.99 | 60.08 | 61.76 |
| 3.862 | 29 | 5.088 | 112 | 19.650 | 26.41 | 27.84 | 29.27 | 30.69 | 32.10 | 34.93 | 41.66 | 45.02 | 46.14 | 48.92 | 55.88 | 57.27 | 65.32 | 66.98 |
| 3.889 | 36 | 6.316 | 140 | 24.562 | 20.54 | 22.06 | 23.56 | 25.05 | 26.52 | 29.44 | 36.33 | 39.74 | 40.87 | 43.69 | 50.71 | 52.11 | 60.21 | 61.88 |
| 3.907 | 43 | 7.544 | 168 | 29.475 | – | – | – | – | 20.23 | 23.43 | 30.67 | 34.19 | 35.35 | 38.24 | 45.38 | 46.80 | 54.98 | 56.67 |
| 4.000 | 28 | 4.912 | 112 | 19.650 | 26.53 | 27.96 | 29.39 | 30.81 | 32.22 | 35.05 | 41.79 | 45.15 | 46.26 | 49.05 | 56.01 | 57.40 | 65.45 | 67.11 |
| 4.000 | 35 | 6.141 | 140 | 24.562 | 20.65 | 22.17 | 23.68 | 25.17 | 26.64 | 29.56 | 36.45 | 39.86 | 40.99 | 43.81 | 50.83 | 52.24 | 60.34 | 62.01 |
| 4.000 | 45 | 7.895 | 180 | 31.580 | – | – | – | – | – | 20.61 | 28.20 | 31.81 | 32.99 | 35.92 | 43.15 | 44.58 | 52.82 | 54.51 |
| 4.000 | 50 | 8.772 | 200 | 35.089 | – | – | – | – | – | – | 23.49 | 27.36 | 28.61 | 31.67 | 39.10 | 40.56 | 48.93 | 50.64 |
| 4.000 | 56 | 9.825 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | 26.01 | 33.95 | 35.47 | 44.09 | 45.84 |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 994-14MX | 1120-14MX | 1190-14MX | 1260-14MX | 1400-14MX | 1568-14MX | 1610-14MX | 1750-14MX | 1890-14MX | 1960-14MX | 2100-14MX | 2240-14MX | 2310-14MX |
| **Length Factor*** | | | | | **0.68** | **0.73** | **0.75** | **0.77** | **0.81** | **0.85** | **0.86** | **0.89** | **0.92** | **0.94** | **0.96** | **0.99** | **1.00** |
| 4.118 | 34 | 5.965 | 140 | 24.562 | | | | | | | | | | | | 17.60 | 19.19 |
| 4.167 | 48 | 8.421 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.186 | 43 | 7.544 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.200 | 40 | 7.018 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.226 | 53 | 9.299 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.242 | 33 | 5.790 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 17.70 | 19.30 |
| 4.308 | 39 | 6.842 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | | |
| 4.375 | 32 | 5.614 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 17.81 | 19.41 |
| 4.421 | 38 | 6.667 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.444 | 45 | 7.895 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.480 | 50 | 8.772 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.500 | 40 | 7.018 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.516 | 31 | 5.439 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 17.91 | 19.51 |
| 4.541 | 37 | 6.492 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.615 | 39 | 6.842 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.651 | 43 | 7.544 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.667 | 30 | 5.263 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 18.02 | 19.62 |
| 4.667 | 36 | 6.316 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.667 | 48 | 8.421 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.737 | 38 | 6.667 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.800 | 35 | 6.141 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.828 | 29 | 5.088 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 18.12 | 19.73 |
| 4.865 | 37 | 6.492 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.941 | 34 | 5.965 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 4.978 | 45 | 7.895 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.000 | 28 | 4.912 | 140 | 24.562 | – | – | – | – | – | – | – | – | – | – | – | 18.23 | 19.83 |
| 5.000 | 36 | 6.316 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.000 | 40 | 7.018 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.091 | 33 | 5.790 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.128 | 39 | 6.842 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.143 | 35 | 6.141 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.209 | 43 | 7.544 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.250 | 32 | 5.614 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.263 | 38 | 6.667 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.294 | 34 | 5.965 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.405 | 37 | 6.492 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.419 | 31 | 5.439 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.455 | 33 | 5.790 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.556 | 36 | 6.316 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.600 | 30 | 5.263 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.600 | 40 | 7.018 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.625 | 32 | 5.614 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.714 | 35 | 6.141 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.744 | 39 | 6.842 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.793 | 29 | 5.088 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.806 | 31 | 5.439 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.882 | 34 | 5.965 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 5.895 | 38 | 6.667 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.000 | 28 | 4.912 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.000 | 30 | 5.263 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.054 | 37 | 6.492 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.061 | 33 | 5.790 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.207 | 29 | 5.088 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.222 | 36 | 6.316 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.250 | 32 | 5.614 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.400 | 35 | 6.141 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.429 | 28 | 4.912 | 180 | 31.580 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.452 | 31 | 5.439 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.588 | 34 | 5.965 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.667 | 30 | 5.263 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.788 | 33 | 5.790 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 6.897 | 29 | 5.088 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 7.000 | 32 | 5.614 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 7.143 | 28 | 4.912 | 200 | 35.089 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 7.226 | 31 | 5.439 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 7.467 | 30 | 5.263 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 7.724 | 29 | 5.088 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 8.000 | 28 | 4.912 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| **Length Factor*** | | | | | **0.68** | **0.73** | **0.75** | **0.77** | **0.81** | **0.85** | **0.86** | **0.89** | **0.92** | **0.94** | **0.96** | **0.99** | **1.00** |

* The length correction factor must be used to determine the proper belt width.

# Selection

## 14M HT500 Selection Table (Continued)



| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 2380-14MX | 2450-14MX | 2520-14MX | 2590-14MX | 2660-14MX | 2800-14MX | 3136-14MX | 3304-14MX | 3360-14MX | 3500-14MX | 3850-14MX | 3920-14MX | 4326-14MX | 4410-14MX |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |
| 4.118 | 34 | 5.965 | 140 | 24.562 | 20.75 | 22.28 | 23.79 | 25.28 | 26.75 | 29.68 | 36.57 | 39.98 | 41.11 | 43.93 | 50.96 | 52.36 | 60.46 | 62.14 |
| 4.167 | 48 | 8.421 | 200 | 35.089 | – | – | – | – | – | – | 23.70 | 27.58 | 28.82 | 31.89 | 39.33 | 40.79 | 49.16 | 50.88 |
| 4.186 | 43 | 7.544 | 180 | 31.580 | – | – | – | – | – | 20.81 | 28.42 | 32.03 | 33.21 | 36.15 | 43.38 | 44.82 | 53.06 | 54.76 |
| 4.200 | 40 | 7.018 | 168 | 29.475 | – | – | – | 18.87 | 20.55 | 23.75 | 31.01 | 34.54 | 35.70 | 38.59 | 45.74 | 47.16 | 55.35 | 57.04 |
| 4.226 | 53 | 9.299 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | 26.32 | 34.28 | 35.80 | 44.43 | 46.18 |
| 4.242 | 33 | 5.790 | 140 | 24.562 | 20.86 | 22.39 | 23.90 | 25.39 | 26.86 | 29.79 | 36.68 | 40.10 | 41.23 | 44.05 | 51.08 | 52.49 | 60.59 | 62.26 |
| 4.308 | 39 | 6.842 | 168 | 29.475 | – | – | – | 18.97 | 20.65 | 23.86 | 31.13 | 34.65 | 35.81 | 38.71 | 45.86 | 47.28 | 55.47 | 57.16 |
| 4.375 | 32 | 5.614 | 140 | 24.562 | 20.97 | 22.50 | 24.01 | 25.50 | 26.98 | 29.91 | 36.80 | 40.22 | 41.35 | 44.17 | 51.21 | 52.61 | 60.71 | 62.39 |
| 4.421 | 38 | 6.667 | 168 | 29.475 | – | – | – | 19.08 | 20.75 | 23.97 | 31.24 | 34.77 | 35.93 | 38.82 | 45.98 | 47.40 | 55.60 | 57.29 |
| 4.444 | 45 | 7.895 | 200 | 35.089 | – | – | – | – | – | – | 24.01 | 27.90 | 29.15 | 32.22 | 39.67 | 41.14 | 49.52 | 51.24 |
| 4.480 | 50 | 8.772 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | 26.63 | 34.60 | 36.13 | 44.77 | 46.53 |
| 4.500 | 40 | 7.018 | 180 | 31.580 | – | – | – | – | – | 21.12 | 28.75 | 32.37 | 33.55 | 36.49 | 43.73 | 45.17 | 53.42 | 55.12 |
| 4.516 | 31 | 5.439 | 140 | 24.562 | 21.08 | 22.61 | 24.12 | 25.62 | 27.09 | 30.02 | 36.92 | 40.34 | 41.47 | 44.30 | 51.33 | 52.73 | 60.84 | 62.51 |
| 4.541 | 37 | 6.492 | 168 | 29.475 | – | – | – | 19.18 | 20.86 | 24.07 | 31.35 | 34.88 | 36.04 | 38.94 | 46.10 | 47.52 | 55.72 | 57.41 |
| 4.615 | 39 | 6.842 | 180 | 31.580 | – | – | – | – | – | 21.23 | 28.86 | 32.48 | 33.66 | 36.61 | 43.85 | 45.29 | 53.54 | 55.24 |
| 4.651 | 43 | 7.544 | 200 | 35.089 | – | – | – | – | – | – | 24.21 | 28.11 | 29.36 | 32.44 | 39.90 | 41.37 | 49.75 | 51.47 |
| 4.667 | 30 | 5.263 | 140 | 24.562 | 21.19 | 22.72 | 24.23 | 25.73 | 27.21 | 30.14 | 37.04 | 40.46 | 41.59 | 44.42 | 51.45 | 52.86 | 60.97 | 62.64 |
| 4.667 | 36 | 6.316 | 168 | 29.475 | – | – | – | 19.28 | 20.96 | 24.18 | 31.46 | 35.00 | 36.16 | 39.06 | 46.22 | 47.64 | 55.84 | 57.53 |
| 4.667 | 48 | 8.421 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | 26.84 | 34.82 | 36.35 | 45.00 | 46.76 |
| 4.737 | 38 | 6.667 | 180 | 31.580 | – | – | – | – | – | 21.33 | 28.97 | 32.59 | 33.78 | 36.72 | 43.97 | 45.41 | 53.66 | 55.36 |
| 4.800 | 35 | 6.141 | 168 | 29.475 | – | – | – | 19.38 | 21.06 | 24.29 | 31.58 | 35.11 | 36.27 | 39.17 | 46.34 | 47.76 | 55.96 | 57.65 |
| 4.828 | 29 | 5.088 | 140 | 24.562 | 21.30 | 22.83 | 24.34 | 25.84 | 27.32 | 30.25 | 37.16 | 40.58 | 41.71 | 44.54 | 51.58 | 52.98 | 61.09 | 62.77 |
| 4.865 | 37 | 6.492 | 180 | 31.580 | – | – | – | – | – | 21.43 | 29.08 | 32.70 | 33.89 | 36.84 | 44.09 | 45.52 | 53.78 | 55.48 |
| 4.941 | 34 | 5.965 | 168 | 29.475 | – | – | – | 19.48 | 21.17 | 24.39 | 31.69 | 35.23 | 36.39 | 39.29 | 46.46 | 47.88 | 56.08 | 57.78 |
| 4.978 | 45 | 7.895 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | 27.14 | 35.15 | 36.68 | 45.34 | 47.10 |
| 5.000 | 28 | 4.912 | 140 | 24.562 | 21.40 | 22.94 | 24.45 | 25.95 | 27.43 | 30.37 | 37.28 | 40.70 | 41.83 | 44.66 | 51.70 | 53.10 | 61.22 | 62.89 |
| 5.000 | 36 | 6.316 | 180 | 31.580 | – | – | – | – | – | 21.53 | 29.19 | 32.81 | 34.00 | 36.95 | 44.20 | 45.64 | 53.90 | 55.61 |
| 5.000 | 40 | 7.018 | 200 | 35.089 | – | – | – | – | – | – | 24.52 | 28.43 | 29.68 | 32.77 | 40.24 | 41.71 | 50.11 | 51.83 |
| 5.091 | 33 | 5.790 | 168 | 29.475 | – | – | – | 19.58 | 21.27 | 24.50 | 31.80 | 35.34 | 36.50 | 39.40 | 46.57 | 48.00 | 56.21 | 57.90 |
| 5.128 | 39 | 6.842 | 200 | 35.089 | – | – | – | – | – | – | 24.62 | 28.53 | 29.79 | 32.88 | 40.35 | 41.82 | 50.22 | 51.95 |
| 5.143 | 35 | 6.141 | 180 | 31.580 | – | – | – | – | – | 21.63 | 29.30 | 32.93 | 34.11 | 37.06 | 44.32 | 45.76 | 54.02 | 55.73 |
| 5.209 | 43 | 7.544 | 224 | 39.300 | – | – | – | – | – | – | – | – | – | 27.35 | 35.37 | 36.90 | 45.57 | 47.33 |
| 5.250 | 32 | 5.614 | 168 | 29.475 | – | – | – | 19.69 | 21.38 | 24.61 | 31.91 | 35.45 | 36.62 | 39.52 | 46.69 | 48.12 | 56.33 | 58.02 |
| 5.263 | 38 | 6.667 | 200 | 35.089 | – | – | – | – | – | – | 24.73 | 28.64 | 29.90 | 32.99 | 40.47 | 41.94 | 50.34 | 52.06 |
| 5.294 | 34 | 5.965 | 180 | 31.580 | – | – | – | – | – | 21.74 | 29.41 | 33.04 | 34.23 | 37.18 | 44.44 | 45.88 | 54.15 | 55.85 |
| 5.405 | 37 | 6.492 | 200 | 35.089 | – | – | – | – | – | – | 24.83 | 28.75 | 30.01 | 33.10 | 40.58 | 42.05 | 50.46 | 52.18 |
| 5.419 | 31 | 5.439 | 168 | 29.475 | – | – | 18.00 | 19.79 | 21.48 | 24.71 | 32.03 | 35.57 | 36.73 | 39.64 | 46.81 | 48.24 | 56.45 | 58.14 |
| 5.455 | 33 | 5.790 | 180 | 31.580 | – | – | – | – | – | 21.84 | 29.52 | 33.15 | 34.34 | 37.29 | 44.56 | 45.99 | 54.27 | 55.97 |
| 5.556 | 36 | 6.316 | 200 | 35.089 | – | – | – | – | – | – | 24.93 | 28.85 | 30.11 | 33.21 | 40.70 | 42.17 | 50.58 | 52.30 |
| 5.600 | 30 | 5.263 | 168 | 29.475 | – | – | 18.10 | 19.89 | 21.58 | 24.82 | 32.14 | 35.68 | 36.85 | 39.75 | 46.93 | 48.36 | 56.57 | 58.26 |
| 5.600 | 40 | 7.018 | 224 | 39.300 | – | – | – | – | – | – | – | – | 24.13 | 27.66 | 35.69 | 37.23 | 45.91 | 47.67 |
| 5.625 | 32 | 5.614 | 180 | 31.580 | – | – | – | – | – | 21.94 | 29.62 | 33.26 | 34.45 | 37.41 | 44.67 | 46.11 | 54.39 | 56.09 |
| 5.714 | 35 | 6.141 | 200 | 35.089 | – | – | – | – | – | – | 25.03 | 28.96 | 30.22 | 33.32 | 40.81 | 42.28 | 50.69 | 52.42 |
| 5.744 | 39 | 6.842 | 224 | 39.300 | – | – | – | – | – | – | – | – | 24.23 | 27.76 | 35.80 | 37.34 | 46.02 | 47.79 |
| 5.793 | 29 | 5.088 | 168 | 29.475 | – | – | 18.19 | 19.99 | 21.69 | 24.93 | 32.25 | 35.80 | 36.96 | 39.87 | 47.05 | 48.48 | 56.69 | 58.39 |
| 5.806 | 31 | 5.439 | 180 | 31.580 | – | – | – | – | – | 22.04 | 29.73 | 33.37 | 34.56 | 37.52 | 44.79 | 46.23 | 54.51 | 56.21 |
| 5.882 | 34 | 5.965 | 200 | 35.089 | – | – | – | – | – | – | 25.14 | 29.07 | 30.33 | 33.43 | 40.92 | 42.39 | 50.81 | 52.53 |
| 5.895 | 38 | 6.667 | 224 | 39.300 | – | – | – | – | – | – | – | – | 24.32 | 27.86 | 35.91 | 37.45 | 46.14 | 47.90 |
| 6.000 | 28 | 4.912 | 168 | 29.475 | – | – | 18.29 | 20.09 | 21.79 | 25.03 | 32.36 | 35.91 | 37.08 | 39.99 | 47.17 | 48.60 | 56.81 | 58.51 |
| 6.000 | 30 | 5.263 | 180 | 31.580 | – | – | – | – | – | 22.14 | 29.84 | 33.48 | 34.68 | 37.63 | 44.91 | 46.35 | 54.63 | 56.33 |
| 6.054 | 37 | 6.492 | 224 | 39.300 | – | – | – | – | – | – | – | – | 24.42 | 27.96 | 36.02 | 37.56 | 46.25 | 48.01 |
| 6.061 | 33 | 5.790 | 200 | 35.089 | – | – | – | – | – | – | 25.24 | 29.17 | 30.43 | 33.53 | 41.03 | 42.51 | 50.93 | 52.65 |
| 6.207 | 29 | 5.088 | 180 | 31.580 | – | – | – | – | – | 22.25 | 29.95 | 33.59 | 34.79 | 37.75 | 45.02 | 46.46 | 54.75 | 56.45 |
| 6.222 | 36 | 6.316 | 224 | 39.300 | – | – | – | – | – | – | – | – | 24.52 | 28.07 | 36.12 | 37.67 | 46.36 | 48.13 |
| 6.250 | 32 | 5.614 | 200 | 35.089 | – | – | – | – | – | – | 25.34 | 29.28 | 30.54 | 33.64 | 41.15 | 42.62 | 51.04 | 52.77 |
| 6.400 | 35 | 6.141 | 224 | 39.300 | – | – | – | – | – | – | – | – | 24.62 | 28.17 | 36.23 | 37.78 | 46.48 | 48.24 |
| 6.429 | 28 | 4.912 | 180 | 31.580 | – | – | – | – | 18.70 | 22.35 | 30.06 | 33.71 | 34.90 | 37.86 | 45.14 | 46.58 | 54.87 | 56.57 |
| 6.452 | 31 | 5.439 | 200 | 35.089 | – | – | – | – | – | – | 25.44 | 29.38 | 30.65 | 33.75 | 41.26 | 42.74 | 51.16 | 52.89 |
| 6.588 | 34 | 5.965 | 224 | 39.300 | – | – | – | – | – | – | – | 23.19 | 24.72 | 28.27 | 36.34 | 37.88 | 46.59 | 48.36 |
| 6.667 | 30 | 5.263 | 200 | 35.089 | – | – | – | – | – | – | 25.55 | 29.49 | 30.76 | 33.86 | 41.37 | 42.85 | 51.28 | 53.01 |
| 6.788 | 33 | 5.790 | 224 | 39.300 | – | – | – | – | – | – | – | 23.28 | 24.82 | 28.37 | 36.45 | 37.99 | 46.70 | 48.47 |
| 6.897 | 29 | 5.088 | 200 | 35.089 | – | – | – | – | – | – | 25.65 | 29.59 | 30.86 | 33.97 | 41.49 | 42.96 | 51.40 | 53.12 |
| 7.000 | 32 | 5.614 | 224 | 39.300 | – | – | – | – | – | – | – | 23.38 | 24.92 | 28.47 | 36.56 | 38.10 | 46.82 | 48.58 |
| 7.143 | 28 | 4.912 | 200 | 35.089 | – | – | – | – | – | – | 25.75 | 29.70 | 30.97 | 34.08 | 41.60 | 43.08 | 51.51 | 53.24 |
| 7.226 | 31 | 5.439 | 224 | 39.300 | – | – | – | – | – | – | – | 23.48 | 25.02 | 28.58 | 36.66 | 38.21 | 46.93 | 48.70 |
| 7.467 | 30 | 5.263 | 224 | 39.300 | – | – | – | – | – | – | – | 23.58 | 25.11 | 28.68 | 36.77 | 38.32 | 47.04 | 48.81 |
| 7.724 | 29 | 5.088 | 224 | 39.300 | – | – | – | – | – | – | – | 23.67 | 25.21 | 28.78 | 36.88 | 38.43 | 47.15 | 48.93 |
| 8.000 | 28 | 4.912 | 224 | 39.300 | – | – | – | – | – | – | – | 23.77 | 25.31 | 28.88 | 36.99 | 38.54 | 47.27 | 49.04 |
| Length Factor* | | | | | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.07 | 1.12 | 1.14 | 1.14 | 1.16 | 1.19 | 1.20 | 1.24 | 1.25 |

Center distance is greater than eight times the small sprocket and the large sprocket is not flanged. See Engineering Section for details.

* The length correction factor must be used to determine the proper belt width.

# Notes

# Features/Benefits

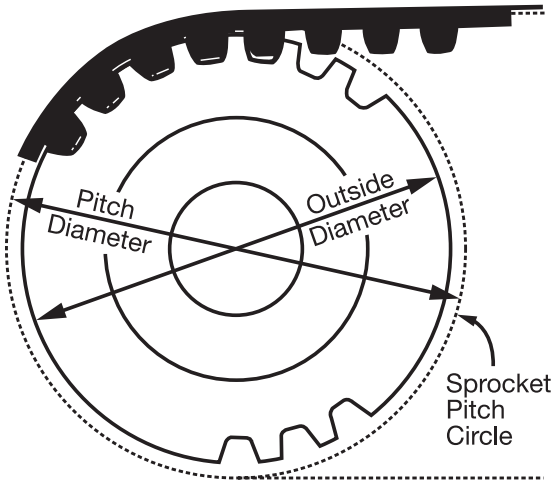
## Dodge HT250 Drives

### High Torque Synchronous Belt Drives

- Approximate 250 percent rating of HTD
- Quieter operation compared to chain drive
- 8 mm and 14 mm Pitch

### Benefits of the HT250 drive:

- Positive, non-slip drive
- No lubrication required
- Non-stretch
- Corrosion resistant
- Abrasion resistant
- Virtually no backlash
- Clean operation
- Low maintenance




## The Technology of HT250 Performance

### Advanced Tooth Profile Design

- Optimizes distribution of load forces between belt and sprocket
- Improves dynamic efficiency between sprocket and belt
- Increases torque capacity
- Allows more compact, narrower drive
- Operates more quietly

### Belt Construction

- Tougher Chloroprene rubber resists tooth shear, increases load capacity
- Strong, stretch-resistant tensile cords
- Tough, wear-resistant nylon tooth facing keeps friction low, protects from wear

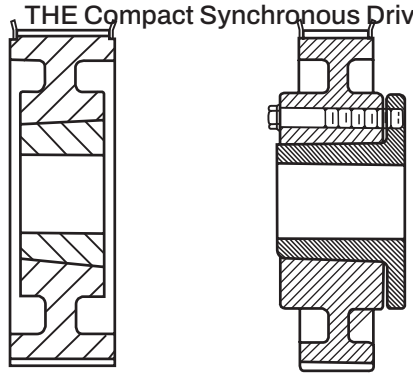
# Features/Benefits

## Dodge HT250 Drives

### HT250 Taper-Lock Sprockets

- Torque Rated: Shaft gripping strength to meet the higher demands of the 200 percent to 250 percent rating of HT250 Belts
- Compact: Save shaft space with compact HT250 Taper-Lock design
- Reduce Overhung Load: Compact design allows closer mounting to motor or reducer bearings. Improves bearing life, reduces maintenance costs

Taper-Lock
THE Compact Synchronous Drive

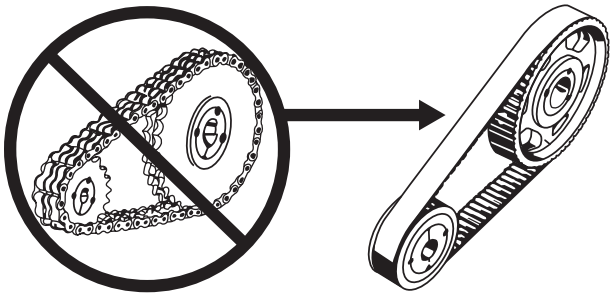


TAPER-LOCK HT

FLANGE-BUSHED SPROCKET

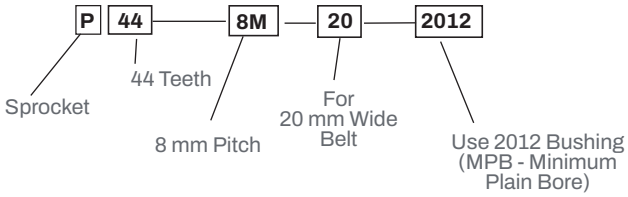
Compact TAPER-LOCK design takes up less shaft space than narrow width belts or products using flanged style bushing. The result is a more compact, economical synchronous drive.

Upgrade Roller Chain Drives
to DODGE HT250

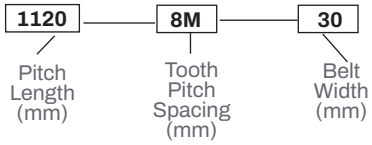


- Clean: No lubrication required. No messy oil drips or spills
- Quiet: No metal-to-metal contact
- Smooth Operation: No chordal action of chain drive that results in vibration and speed variation
- Economical Drive Guard: Basic enclosed or ventilated guard will suffice. Oil seals, filler and drain plugs not required

### SPROCKET NOMENCLATURE

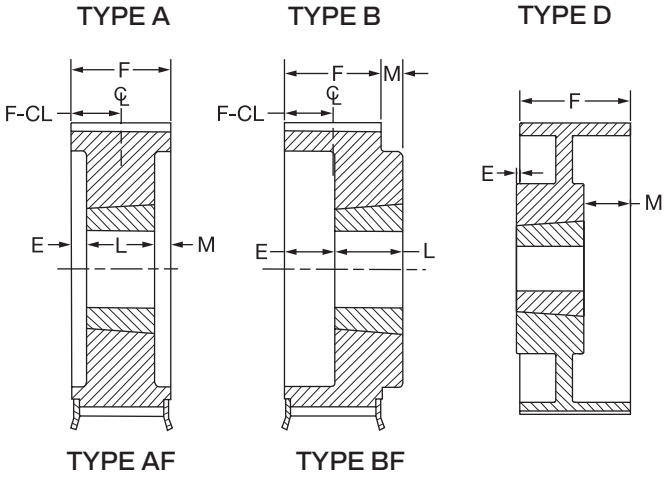



### BELT NOMENCLATURE



# Specification

## HT250 Taper-Lock Sprockets



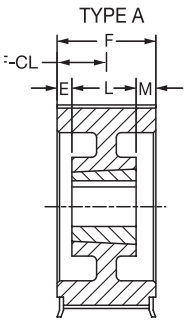

The figure following the sketch reference letter in the "Type" column, indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms) and the letter "F indicates that the sprocket has flanges.

**5 mm Sprockets**

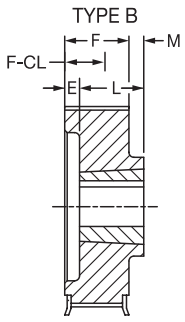
| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | M | Min. | Max | | |
| **5M-15** | | | | | **F = 0.89"** | | | | | | | |
| P32-5M-15-MPB | **112465** | 32 | 2.005 | 1.960 | 2.125 | – | 0.50 | 0 | 1/2 | 7/8 | 0.8 | 0.0016 |
| P34-5M-15-MPB | **112466** | 34 | 2.130 | 2.085 | 2.375 | – | 0.50 | 0 | 1/2 | 1 | 0.9 | 0.0021 |
| P36-5M-15-MPB | **114640** | 36 | 2.256 | 2.211 | 2.375 | – | 0.50 | 0 | 1/2 | 1-1/8 | 1.1 | 0.0028 |
| P36-5M-15-1108 | **112467** | 36 | 2.256 | 2.211 | 2.375 | A1F | 0 | 0 | 1/2 | 1-1/8 | 0.47 | 0.0028 |
| P38-5M-15-1108 | **112468** | 38 | 2.381 | 2.336 | 2.613 | A1F | 0 | 0 | 1/2 | 1-1/8 | 0.57 | 0.0036 |
| P40-5M-15-1108 | **112469** | 40 | 2.506 | 2.461 | 2.733 | A1F | 0 | 0 | 1/2 | 1-1/8 | 0.68 | 0.0047 |
| P44-5M-15-1108 | **112470** | 44 | 2.757 | 2.712 | 3.090 | A1F | 0 | 0 | 1/2 | 1-1/8 | 0.91 | 0.0072 |
| P48-5M-15-1210 | **112471** | 48 | 3.008 | 2.963 | 3.328 | B1F | 0 | 0.11 | 1/2 | 1-1/4 | 1.0 | 0.0105 |
| P52-5M-15-1210 | **112472** | 52 | 3.258 | 3.213 | 3.566 | B1F | 0 | 0.11 | 1/2 | 1-1/4 | 1.3 | 0.0153 |
| P56-5M-15-1610 | **112473** | 56 | 3.509 | 3.464 | 3.805 | B1F | 0 | 0.11 | 1/2 | 1-11/16 | 1.4 | 0.0192 |
| P60-5M-15-1610 | **112474** | 60 | 3.760 | 3.715 | 4.044 | B1F | 0 | 0.11 | 1/2 | 1-11/16 | 1.7 | 0.0267 |
| P64-5M-15-1610 | **112475** | 64 | 4.010 | 3.965 | 4.170 | B1F | 0 | 0.11 | 1/2 | 1-11/16 | 2.1 | 0.0353 |
| P68-5M-15-1610 | **112476** | 68 | 4.261 | 4.216 | 4.520 | B1F | 0 | 0.11 | 1/2 | 1-11/16 | 2.4 | 0.0458 |
| P72-5M-15-1610 | **112477** | 72 | 4.511 | 4.466 | 4.670 | B1F | 0 | 0.11 | 1/2 | 1-11/16 | 2.8 | 0.0583 |
| P80-5M-15-1610 | **112478** | 80 | 5.013 | 4.968 | – | B1 | 0 | 0.11 | 1/2 | 1-11/16 | 3.7 | 0.0906 |
| P90-5M-15-1610 | **112479** | 90 | 5.639 | 5.594 | – | B1 | 0 | 0.11 | 1/2 | 1-11/16 | 4.9 | 0.1474 |
| P112-5M-15-2012 | **112480** | 112 | 7.018 | 6.973 | – | B1 | 0 | 0.36 | 1/2 | 2-1/8 | 8.3 | 0.3750 |
| **5M-25** | | | | | **F = 1.28"** | | | | | | | |
| P32-5M-25-MPB | **112481** | 32 | 2.005 | 1.960 | 2.125 | – | 0.50 | 0 | 1/2 | 7/8 | 1.1 | 0.0024 |
| P34-5M-25-MPB | **112482** | 34 | 2.130 | 2.085 | 2.375 | – | 0.50 | 0 | 1/2 | 1 | 1.2 | 0.0031 |
| P36-5M-25-1108 | **112483** | 36 | 2.256 | 2.211 | 2.375 | A1F | 0 | 0.41 | 1/2 | 1-1/8 | 0.65 | 0.0039 |
| P38-5M-25-1108 | **112484** | 38 | 2.381 | 2.336 | 2.613 | A1F | 0 | 0.41 | 1/2 | 1-1/8 | 0.73 | 0.0048 |
| P40-5M-25-1108 | **112485** | 40 | 2.506 | 2.461 | 2.733 | A1F | 0 | 0.41 | 1/2 | 1-1/8 | 0.85 | 0.0061 |
| P44-5M-25-1108 | **112486** | 44 | 2.757 | 2.712 | 3.090 | A1F | 0 | 0.41 | 1/2 | 1-1/8 | 1.1 | 0.0091 |
| P48-5M-25-1210 | **112487** | 48 | 3.008 | 2.963 | 3.328 | A1F | 0 | 0.28 | 1/2 | 1-1/4 | 1.2 | 0.0130 |
| P52-5M-25-1210 | **112488** | 52 | 3.258 | 3.213 | 3.566 | A1F | 0 | 0.28 | 1/2 | 1-1/4 | 1.6 | 0.0185 |
| P56-5M-25-1610 | **112489** | 56 | 3.509 | 3.464 | 3.805 | A1F | 0 | 0.28 | 1/2 | 1-11/16 | 1.6 | 0.0240 |
| P60-5M-25-1610 | **112490** | 60 | 3.760 | 3.715 | 4.044 | A1F | 0 | 0.28 | 1/2 | 1-11/16 | 2.1 | 0.0335 |
| P64-5M-25-1610 | **112491** | 64 | 4.010 | 3.965 | 4.170 | A1F | 0 | 0.28 | 1/2 | 1-11/16 | 2.4 | 0.0430 |
| P68-5M-25-2012 | **112492** | 68 | 4.261 | 4.216 | 4.520 | A1F | 0.03 | 0.00 | 1/2 | 2-1/8 | 2.7 | 0.0571 |
| P72-5M-25-2012 | **112493** | 72 | 4.511 | 4.466 | 4.670 | A1F | 0.03 | 0.00 | 1/2 | 2-1/8 | 3.3 | 0.0751 |
| P80-5M-25-2012 | **112494** | 80 | 5.013 | 4.968 | – | A1 | 0.03 | 0.00 | 1/2 | 2-1/8 | 4.5 | 0.1215 |
| P90-5M-25-2012 | **112495** | 90 | 5.639 | 5.594 | – | A1 | 0.03 | 0.00 | 1/2 | 2-1/8 | 6.2 | 0.2032 |
| P112-5M-25-2012 | **112496** | 112 | 7.018 | 6.973 | – | A1 | 0.03 | 0.00 | 1/2 | 2-1/8 | 10.7 | 0.5102 |

# Specification

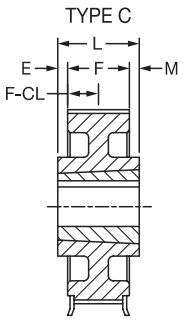
## HT250 Taper-Lock Sprockets



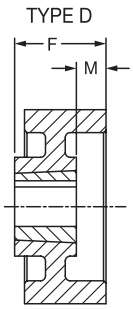

TYPE AF




TYPE BF




TYPE CF




The figure following the sketch reference letter in the "Type" column, indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms) and the letter "F indicates that the sprocket has flanges.

**8 mm Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | M | Min. | Max | | |
| **8M-20** | | | | | **F = 1.13"** | | | | | | | |
| P22-8M-20-1108* | **112850** | 22 | 2.206 | 2.152 | 2.559 | A1F | 0.00 | 0.26 | 1/2 | 1-1/8 | 0.5 | 0.0027 |
| P24-8M-20-1108 | **112851** | 24 | 2.406 | 2.352 | 2.756 | A1F | 0.00 | 0.26 | 1/2 | 1-1/8 | 0.7 | 0.0044 |
| P26-8M-20-1108 | **112852** | 26 | 2.607 | 2.553 | 2.953 | A1F | 0.00 | 0.26 | 1/2 | 1-1/8 | 0.9 | 0.0065 |
| P28-8M-20-1108 | **112853** | 28 | 2.807 | 2.753 | 3.150 | A1F | 0.26 | 0.00 | 1/2 | 1-1/8 | 1.2 | 0.0093 |
| P30-8M-20-1210 | **112854** | 30 | 3.008 | 2.954 | 3.346 | A1F | 0.13 | 0.00 | 1/2 | 1-1/4 | 1.2 | 0.0116 |
| P32-8M-20-1210 | **112855** | 32 | 3.208 | 3.154 | 3.543 | A1F | 0.00 | 0.13 | 1/2 | 1-1/4 | 1.4 | 0.0157 |
| P34-8M-20-1610 | **112856** | 34 | 3.409 | 3.355 | 3.819 | A1F | 0.13 | 0.00 | 1/2 | 1-11/16 | 1.4 | 0.0185 |
| P36-8M-20-1610 | **112857** | 36 | 3.609 | 3.555 | 3.937 | A1F | 0.13 | 0.00 | 1/2 | 1-11/16 | 1.7 | 0.0246 |
| P38-8M-20-1610 | **112858** | 38 | 3.810 | 3.756 | 4.134 | A1F | 0.13 | 0.00 | 1/2 | 1-11/16 | 2.0 | 0.0320 |
| P40-8M-20-1610 | **112859** | 40 | 4.010 | 3.956 | 4.331 | A1F | 0.13 | 0.00 | 1/2 | 1-11/16 | 2.4 | 0.0406 |
| P44-8M-20-2012 | **112860** | 44 | 4.411 | 4.357 | 4.764 | B1F | 0.00 | 0.12 | 1/2 | 2-1/8 | 2.7 | 0.0585 |
| P48-8M-20-2012 | **112861** | 48 | 4.812 | 4.758 | 5.157 | B1F | 0.00 | 0.12 | 1/2 | 2-1/8 | 3.7 | 0.0916 |
| P56-8M-20-2012 | **112862** | 56 | 5.614 | 5.560 | 5.945 | B1F | 0.00 | 0.12 | 1/2 | 2-1/8 | 5.6 | 0.1768 |
| P64-8M-20-2012 | **112863** | 64 | 6.416 | 6.362 | 6.772 | B1F | 0.00 | 0.12 | 1/2 | 2-1/8 | 7.7 | 0.3075 |
| P72-8M-20-2012 | **112864** | 72 | 7.218 | 7.164 | 7.598 | B1F | 0.00 | 0.12 | 1/2 | 2-1/8 | 10 | 0.4991 |
| P80-8M-20-2517 | **112865** | 80 | 8.020 | 7.966 | 8.386 | B1F | 0.00 | 0.62 | 1/2 | 2-11/16 | 13 | 0.7725 |
| P90-8M-20-2517 | **112866** | 90 | 9.023 | 8.969 | – | C2 | 0.31 | 0.31 | 1/2 | 2-11/16 | 12 | 0.9037 |
| **8M-30** | | | | | **F = 1.5"** | | | | | | | |
| P22-8M-30-1108* | **112867** | 22 | 2.206 | 2.152 | 2.559 | A1F | 0.00 | 0.63 | 1/2 | 1-1/8 | 0.64 | 0.0036 |
| P24-8M-30-1108 | **112868** | 24 | 2.406 | 2.352 | 2.756 | A1F | 0.00 | 0.63 | 1/2 | 1-1/8 | 0.90 | 0.0058 |
| P26-8M-30-1108 | **112869** | 26 | 2.607 | 2.553 | 2.953 | A1F | 0.00 | 0.63 | 1/2 | 1-1/8 | 1.1 | 0.0082 |
| P28-8M-30-1108 | **112870** | 28 | 2.807 | 2.753 | 3.150 | A1F | 0.00 | 0.63 | 1/2 | 1-1/8 | 1.5 | 0.0124 |
| P30-8M-30-1210 | **112871** | 30 | 3.008 | 2.954 | 3.346 | A1F | 0.00 | 0.50 | 1/2 | 1-1/4 | 1.5 | 0.0152 |
| P32-8M-30-1210 | **112872** | 32 | 3.208 | 3.154 | 3.543 | A1F | 0.00 | 0.50 | 1/2 | 1-1/4 | 1.7 | 0.0199 |
| P34-8M-30-1610 | **112873** | 34 | 3.409 | 3.355 | 3.819 | A1F | 0.00 | 0.50 | 1/2 | 1-11/16 | 1.8 | 0.0241 |
| P36-8M-30-1610 | **112874** | 36 | 3.609 | 3.555 | 3.937 | A1F | 0.00 | 0.50 | 1/2 | 1-11/16 | 2.2 | 0.0323 |
| P38-8M-30-1610 | **112875** | 38 | 3.810 | 3.756 | 4.134 | A1F | 0.00 | 0.50 | 1/2 | 1-11/16 | 2.5 | 0.0409 |
| P40-8M-30-2012 | **112876** | 40 | 4.010 | 3.956 | 4.331 | A1F | 0.00 | 0.25 | 1/2 | 2-1/8 | 2.3 | 0.0453 |
| P44-8M-30-2012 | **112877** | 44 | 4.411 | 4.357 | 4.764 | A1F | 0.00 | 0.25 | 1/2 | 2-1/8 | 3.2 | 0.0712 |
| P48-8M-30-2012 | **112878** | 48 | 4.812 | 4.758 | 5.157 | A1F | 0.00 | 0.25 | 1/2 | 2-1/8 | 4.2 | 0.1069 |
| P56-8M-30-2012 | **112879** | 56 | 5.614 | 5.560 | 5.945 | A1F | 0.00 | 0.25 | 1/2 | 2-1/8 | 6.3 | 0.2087 |
| P64-8M-30-2517 | **112880** | 64 | 6.416 | 6.362 | 6.772 | B1F | 0.00 | 0.25 | 1/2 | 2-11/16 | 9.5 | 0.4044 |
| P72-8M-30-2517 | **112881** | 72 | 7.218 | 7.164 | 7.598 | B1F | 0.00 | 0.25 | 1/2 | 2-11/16 | 13 | 0.6599 |
| P80-8M-30-2517 | **112882** | 80 | 8.020 | 7.966 | 8.386 | B1F | 0.00 | 0.25 | 1/2 | 2-11/16 | 16 | 1.019 |
| P90-8M-30-2517 | **112883** | 90 | 9.023 | 8.969 | – | C2 | 0.13 | 0.13 | 1/2 | 2-11/16 | 22 | 1.650 |
| P112-8M-30-2517 | **112884** | 112 | 11.229 | 11.175 | – | C2 | 0.13 | 0.13 | 1/2 | 2-11/16 | 24 | 1.764 |
| P144-8M-30-2517 | **112849** | 114 | 14.437 | 14.383 | – | D3 | 0.38 | 0.13 | 1/2 | 2-11/16 | 31 | 6.014 |

*TAPER-LOCK sprockets limited to torque capacity of bushing.

# Specification

## HT250 Taper-Lock Sprockets

### 8 mm Sprocket

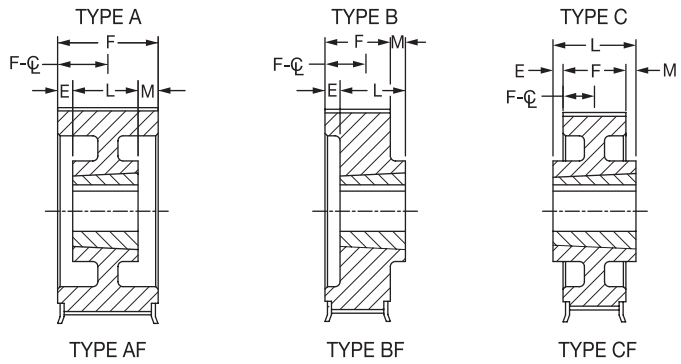
| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | M | Min. | Max | | |
| **8M-50** | | | | | **F = 2.38”** | | | | | | | |
| P28-8M-50-1108* | **112885** | 28 | 2.807 | 2.753 | 3.150 | A1F | 0.00 | 1.50 | 1/2 | 1-1/8 | 2.1 | 0.0182 |
| P30-8M-50-1210 | **112886** | 30 | 3.008 | 2.954 | 3.346 | A1F | 0.00 | 1.38 | 1/2 | 1-1/4 | 2.2 | 0.0231 |
| P32-8M-50-1210 | **114821** | 32 | 3.208 | 3.154 | 3.543 | A1F | 0.00 | 1.38 | 1/2 | 1-1/4 | 2.3 | 0.0281 |
| P34-8M-50-1610 | **114822** | 34 | 3.409 | 3.355 | 3.819 | A1F | 0.00 | 1.38 | 1/2 | 1-11/16 | 4.0 | 0.0457 |
| P36-8M-50-1610 | **112889** | 36 | 3.609 | 3.555 | 3.937 | A1F | 0.00 | 1.38 | 1/2 | 1-11/16 | 2.7 | 0.0431 |
| P38-8M-50-1610 | **112890** | 38 | 3.810 | 3.756 | 4.134 | A1F | 0.00 | 1.38 | 1/2 | 1-11/16 | 3.1 | 0.0540 |
| P40-8M-50-2012 | **112891** | 40 | 4.010 | 3.956 | 4.331 | A1F | 0.00 | 1.13 | 1/2 | 2-1/8 | 3.5 | 0.0685 |
| P44-8M-50-2012 | **112892** | 44 | 4.411 | 4.357 | 4.764 | A1F | 0.00 | 1.13 | 1/2 | 2-1/8 | 4.3 | 0.0999 |
| P48-8M-50-2012 | **112893** | 48 | 4.812 | 4.758 | 5.157 | A1F | 0.00 | 1.13 | 1/2 | 2-1/8 | 5.5 | 0.1491 |
| P56-8M-50-2517 | **112894** | 56 | 5.614 | 5.560 | 5.945 | A1F | 0.00 | 0.63 | 1/2 | 2-11/16 | 8.1 | 0.2957 |
| P64-8M-50-2517 | **112895** | 64 | 6.416 | 6.362 | 6.772 | A1F | 0.00 | 0.63 | 1/2 | 2-11/16 | 12 | 0.5272 |
| P72-8M-50-2517 | **112896** | 72 | 7.218 | 7.164 | 7.598 | A1F | 0.00 | 0.63 | 1/2 | 2-11/16 | 16 | 0.8625 |
| P80-8M-50-2517 | **112897** | 80 | 8.020 | 7.966 | 8.386 | A1F | 0.00 | 0.63 | 1/2 | 2-11/16 | 20 | 1.343 |
| P90-8M-50-3020 | **112898** | 90 | 9.023 | 8.969 | – | A1 | 0.00 | 0.38 | 7/8 | 3-1/4 | 27 | 2.277 |
| P112-8M-50-3020 | **112899** | 112 | 11.229 | 11.175 | – | A2 | 0.00 | 0.38 | 7/8 | 3-1/4 | 30 | 3.746 |
| P144-8M-50-3020 | **114833** | 144 | 14.437 | 14.383 | – | A3 | 0.00 | 0.38 | 7/8 | 3-1/4 | 49 | 8.988 |
| P192-8M-50-3020 | **112901** | 192 | 19.249 | 19.195 | – | A3 | 0.00 | 0.38 | 7/8 | 3-1/4 | 108 | 32.21 |
| **8M-85** | | | | | **F = 3.75”** | | | | | | | |
| P34-8M-85-1615 | **114823** | 34 | 3.409 | 3.355 | 3.810 | A1F | 0.75 | 1.50 | 1/2 | 1-11/16 | 3.9 | 0.0547 |
| P36-8M-85-1615 | **114825** | 36 | 3.609 | 3.555 | 4.009 | A1F | 0.75 | 1.50 | 1/2 | 1-11/16 | 4.4 | 0.0694 |
| P40-8M-85-2012 | **114828** | 40 | 4.010 | 3.956 | 4.410 | A1F | 1.25 | 1.25 | 1/2 | 2-1/8 | 4.7 | 0.0970 |
| P44-8M-85-2012 | **114504** | 44 | 4.411 | 4.357 | 4.764 | A1F | 1.25 | 1.25 | 1/2 | 2-1/8 | 5.9 | 0.1447 |
| P48-8M-85-2012 | **114505** | 48 | 4.812 | 4.758 | 5.212 | A1F | 1.25 | 1.25 | 1/2 | 2-1/8 | 7.6 | 0.2146 |
| P56-8M-85-2517 | **114506** | 56 | 5.614 | 5.560 | 6.014 | A1F | 0.81 | 1.19 | 1/2 | 2-11/16 | 11 | 0.4058 |
| P64-8M-85-2517 | **114507** | 64 | 6.416 | 6.362 | 6.716 | A1F | 0.59 | 1.41 | 1/2 | 2-11/16 | 15 | 0.6987 |
| P72-8M-85-3020 | **114508** | 72 | 7.218 | 7.164 | 7.500 | A1F | 0.88 | 0.88 | 7/8 | 3-1/4 | 18 | 1.121 |
| P80-8M-85-3020 | **114509** | 80 | 8.020 | 7.966 | 8.420 | A1F | 0.50 | 1.25 | 7/8 | 3-1/4 | 22 | 1.642 |
| P90-8M-85-3020 | **114510** | 90 | 9.023 | 8.969 | – | A1 | 0.50 | 1.25 | 7/8 | 3-1/4 | 32 | 2.846 |
| P112-8M-85-3020 | **114511** | 112 | 11.229 | 11.175 | – | A2 | 0.50 | 1.25 | 7/8 | 3-1/4 | 33 | 4.621 |
| P144-8M-85-3535 | **114834** | 144 | 14.437 | 14.383 | – | A3 | 0.00 | 0.25 | 1-3/16 | 3-15/16 | 54 | 11.06 |
| P192-8M-85-3535 | **114513** | 192 | 19.249 | 19.195 | – | A3 | 0.13 | 0.13 | 1-3/16 | 3-15/16 | 125 | 39.63 |

### 14 mm Sprockets

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | M | Min. | Max | | |
| **14M-40** | | | | | **F = 2.13”** | | | | | | | |
| P28-14M-40-2012* | **112902** | 28 | 4.912 | 4.802 | 5.560 | A1F | 0.00 | 0.88 | 1/2 | 2-1/8 | 5.9 | 0.1531 |
| P29-14M-40-2012 | **112903** | 29 | 5.088 | 4.978 | 5.560 | A1F | 0.00 | 0.88 | 1/2 | 2-1/8 | 6.6 | 0.1810 |
| P30-14M-40-2012 | **112904** | 30 | 5.263 | 5.153 | 6.125 | A1F | 0.00 | 0.88 | 1/2 | 2-1/8 | 6.5 | 0.1935 |
| P32-14M-40-2012 | **112905** | 32 | 5.614 | 5.504 | 6.125 | A1F | 0.00 | 0.88 | 1/2 | 2-1/8 | 8.0 | 0.2651 |
| P34-14M-40-2012 | **112906** | 34 | 5.965 | 5.855 | 6.500 | A1F | 0.00 | 0.88 | 1/2 | 2-1/8 | 9.4 | 0.3498 |
| P36-14M-40-2517 | **112907** | 36 | 6.316 | 6.206 | 6.875 | A1F | 0.00 | 0.38 | 1/2 | 2-11/16 | 11 | 0.4443 |
| P38-14M-40-2517 | **112908** | 38 | 6.667 | 6.557 | 7.219 | A1F | 0.00 | 0.38 | 1/2 | 2-11/16 | 12 | 0.5658 |
| P40-14M-40-2517 | **112909** | 40 | 7.018 | 6.908 | 7.500 | A1F | 0.00 | 0.38 | 1/2 | 2-11/16 | 14 | 0.7134 |
| P44-14M-40-2517 | **112910** | 44 | 7.720 | 7.610 | 8.343 | A1F | 0.00 | 0.38 | 1/2 | 2-11/16 | 18 | 1.046 |
| P48-14M-40-2517 | **112911** | 48 | 8.421 | 8.311 | 8.937 | A1F | 0.00 | 0.38 | 1/2 | 2-11/16 | 22 | 1.527 |
| P52-14M-40-2517 | **112912** | 52 | 9.123 | 9.013 | 9.687 | A1F | 0.00 | 0.38 | 1/2 | 2-11/16 | 26 | 2.126 |
| P56-14M-40-2517 | **112913** | 56 | 9.825 | 9.715 | 10.375 | A1F | 0.00 | 0.38 | 1/2 | 2-11/16 | 31 | 2.878 |
| P60-14M-40-3020 | **112914** | 60 | 10.527 | 10.417 | 11.062 | A2F | 0.00 | 0.13 | 7/8 | 3-1/4 | 29 | 3.177 |
| P64-14M-40-3020 | **112915** | 64 | 11.229 | 11.119 | 11.750 | A2F | 0.00 | 0.13 | 7/8 | 3-1/4 | 31 | 3.872 |
| P68-14M-40-3020 | **112916** | 68 | 11.930 | 11.820 | 12.500 | A2F | 0.00 | 0.13 | 7/8 | 3-1/4 | 31 | 4.446 |
| P72-14M-40-3020 | **112917** | 72 | 12.632 | 12.522 | 13.187 | A2F | 0.00 | 0.13 | 7/8 | 3-1/4 | 34 | 5.410 |
| P80-14M-40-3020 | **114840** | 80 | 14.036 | 13.926 | 14.625 | A3F | 0.00 | 0.13 | 7/8 | 3-1/4 | 34 | 7.474 |
| P90-14M-40-3020 | **114851** | 90 | 15.790 | 15.680 | – | A3 | 0.00 | 0.13 | 7/8 | 3-1/4 | 40 | 9.396 |
| P112-14M-40-3020 | **114470** | 112 | 19.650 | 19.540 | – | A3 | 0.00 | 0.13 | 7/8 | 3-1/4 | 101 | 29.66 |
| P144-14M-40-3020 | **114471** | 144 | 25.264 | 25.154 | – | A3 | 0.00 | 0.13 | 7/8 | 3-1/4 | 154 | 75.16 |
| P168-14M-40-3020 | **114852** | 168 | 29.475 | 29.265 | – | A3 | 0.00 | 0.13 | 7/8 | 3-1/4 | 133 | 113.3 |
| P192-14M-40-3020 | **114853** | 192 | 33.686 | 33.576 | – | A3 | 0.00 | 0.13 | 7/8 | 3-1/4 | 168 | 189.8 |

# Specification

## HT250 Taper-Lock Sprockets




The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

**14 mm Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | M | Min. | Max | | |
| **14M-55** | | | | | **F = 2.75"** | | | | | | | |
| P28-14M-55-2012 | **112922** | 28 | 4.912 | 4.802 | 5.560 | A1F | 0.00 | 1.50 | 1/2 | 2-1/8 | 7.4 | 0.1948 |
| P29-14M-55-2012 | **112923** | 29 | 5.088 | 4.978 | 5.560 | A1F | 0.00 | 1.50 | 1/2 | 2-1/8 | 8.4 | 0.2314 |
| P30-14M-55-2517 | **114836** | 30 | 5.263 | 5.153 | 6.125 | A1F | 0.00 | 1.00 | 1/2 | 2-11/16 | 7.4 | 0.2371 |
| P32-14M-55-2517 | **112925** | 32 | 5.614 | 5.504 | 6.125 | A1F | 0.00 | 1.00 | 1/2 | 2-11/16 | 9.3 | 0.3276 |
| P34-14M-55-2517 | **112926** | 34 | 5.965 | 5.855 | 6.500 | A1F | 0.00 | 1.00 | 1/2 | 2-11/16 | 11 | 0.4379 |
| P36-14M-55-2517 | **112927** | 36 | 6.316 | 6.206 | 6.875 | A1F | 0.00 | 1.00 | 1/2 | 2-11/16 | 12 | 0.5400 |
| P38-14M-55-2517 | **112928** | 38 | 6.667 | 6.557 | 7.219 | A1F | 0.00 | 1.00 | 1/2 | 2-11/16 | 14 | 0.6868 |
| P40-14M-55-2517 | **112929** | 40 | 7.018 | 6.908 | 7.500 | A1F | 0.00 | 1.00 | 1/2 | 2-11/16 | 17 | 0.8719 |
| P44-14M-55-2517 | **112930** | 44 | 7.720 | 7.610 | 8.343 | A1F | 0.00 | 1.00 | 1/2 | 2-11/16 | 20 | 1.234 |
| P48-14M-55-3020 | **112931** | 48 | 8.421 | 8.311 | 8.937 | A1F | 0.00 | 0.75 | 7/8 | 3-1/4 | 24 | 1.840 |
| P52-14M-55-3020 | **112932** | 52 | 9.123 | 9.013 | 9.687 | A1F | 0.00 | 0.75 | 7/8 | 3-1/4 | 30 | 2.573 |
| P56-14M-55-3020 | **112933** | 56 | 9.825 | 9.715 | 10.375 | A1F | 0.00 | 0.75 | 7/8 | 3-1/4 | 35 | 3.489 |
| P60-14M-55-3020 | **112934** | 60 | 10.527 | 10.417 | 11.062 | A1F | 0.00 | 0.75 | 7/8 | 3-1/4 | 42 | 4.647 |
| P64-14M-55-3020 | **112935** | 64 | 11.229 | 11.119 | 11.750 | A1F | 0.00 | 0.75 | 7/8 | 3-1/4 | 48 | 6.012 |
| P68-14M-55-3020 | **112936** | 68 | 11.930 | 11.820 | 12.500 | A2F | 0.00 | 0.75 | 7/8 | 3-1/4 | 40 | 5.909 |
| P72-14M-55-3020 | **112937** | 72 | 12.632 | 12.522 | 13.187 | A2F | 0.00 | 0.75 | 7/8 | 3-1/4 | 45 | 7.387 |
| P80-14M-55-3020 | **114841** | 80 | 14.036 | 13.926 | 14.625 | A3F | 0.00 | 0.75 | 7/8 | 3-1/4 | 42 | 9.021 |
| P90-14M-55-3020 | **114859** | 90 | 15.790 | 15.680 | – | A3 | 0.00 | 0.75 | 7/8 | 3-1/4 | 45 | 12.36 |
| P112-14M-55-3020 | **114472** | 112 | 19.650 | 19.540 | – | A3 | 0.00 | 0.75 | 7/8 | 3-1/4 | 117 | 36.86 |
| P144-14M-55-3020 | **114854** | 144 | 25.264 | 25.154 | – | A3 | 0.00 | 0.75 | 7/8 | 3-1/4 | 98 | 65.38 |
| P168-14M-55-3020 | **114860** | 168 | 29.475 | 29.265 | – | A3 | 0.19 | 0.56 | 7/8 | 3-1/4 | 146 | 150.2 |
| P192-14M-55-3535 | **114755** | 192 | 33.686 | 33.576 | – | C3 | 0.00 | 0.75 | 1-3/16 | 3-15/16 | 432 | 404.3 |
| **14M-85** | | | | | **F = 4"** | | | | | | | |
| P28-14M-85-2012* | **112944** | 28 | 4.912 | 4.802 | 5.560 | A1F | 1.31 | 1.44 | 1/2 | 2-1/8 | 10 | 0.2787 |
| P29-14M-85-2012* | **112945** | 29 | 5.088 | 4.978 | 5.560 | A1F | 1.31 | 1.44 | 1/2 | 2-1/8 | 12 | 0.3321 |
| P30-14M-85-2517 | **114837** | 30 | 5.263 | 5.153 | 6.125 | A1F | 0.50 | 1.75 | 1/2 | 2-11/16 | 10 | 0.3326 |
| P32-14M-85-2517 | **112947** | 32 | 5.614 | 5.504 | 6.125 | A1F | 0.81 | 1.44 | 1/2 | 2-11/16 | 13 | 0.4590 |
| P34-14M-85-2517 | **112948** | 34 | 5.965 | 5.855 | 6.500 | A1F | 0.81 | 1.44 | 1/2 | 2-11/16 | 15 | 0.6143 |
| P36-14M-85-3020 | **112949** | 36 | 6.316 | 6.206 | 6.875 | A1F | 0.53 | 1.47 | 7/8 | 3-1/4 | 14 | 0.6948 |
| P38-14M-85-3020 | **112950** | 38 | 6.667 | 6.557 | 7.219 | A1F | 0.53 | 1.47 | 7/8 | 3-1/4 | 17 | 0.8975 |
| P40-14M-85-3020 | **112951** | 40 | 7.018 | 6.908 | 7.500 | A1F | 0.53 | 1.47 | 7/8 | 3-1/4 | 20 | 1.161 |
| P44-14M-85-3020 | **112952** | 44 | 7.720 | 7.610 | 8.343 | A1F | 0.53 | 1.47 | 7/8 | 3-1/4 | 24 | 1.615 |
| P48-14M-85-3020 | **112953** | 48 | 8.421 | 8.311 | 8.937 | A1F | 0.53 | 1.47 | 7/8 | 3-1/4 | 31 | 2.432 |
| P52-14M-85-3535 | **112954** | 52 | 9.123 | 9.013 | 9.687 | A1F | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 37 | 3.356 |
| P56-14M-85-3535 | **112955** | 56 | 9.825 | 9.715 | 10.375 | A1F | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 52 | 5.300 |
| P60-14M-85-3535 | **112956** | 60 | 10.527 | 10.417 | 11.062 | A1F | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 63 | 7.128 |
| P64-14M-85-3535 | **112957** | 64 | 11.229 | 11.119 | 11.750 | A1F | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 74 | 9.334 |
| P68-14M-85-3535 | **112958** | 68 | 11.930 | 11.820 | 12.500 | A2F | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 63 | 9.169 |
| P72-14M-85-3535 | **112959** | 72 | 12.632 | 12.522 | 13.187 | A1F | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 97 | 15.19 |
| P80-14M-85-3535 | **112960** | 80 | 14.036 | 13.926 | 14.625 | A2F | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 63 | 13.04 |
| P90-14M-85-3535 | **114474** | 90 | 15.790 | 15.680 | – | A2 | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 72 | 18.14 |
| P112-14M-85-3535 | **114844** | 112 | 19.650 | 19.540 | – | A3 | 0.00 | 0.50 | 1-3/16 | 3-15/16 | 131 | 44.18 |
| P144-14M-85-4040 | **114855** | 144 | 25.264 | 25.154 | – | A3 | 0.00 | 0.00 | 1-7/16 | 4-7/16 | 137 | 92.10 |
| P168-14M-85-4040 | **114489** | 168 | 29.475 | 29.265 | – | A3 | 0.00 | 0.00 | 1-7/16 | 4-7/16 | 192 | 194.5 |
| P192-14M-85-4040 | **114850** | 192 | 33.686 | 33.576 | – | A3 | 0.00 | 0.00 | 1-7/16 | 4-7/16 | 448 | 444.6 |

TAPER-LOCK Sprockets limited to torque capacity of bushing.

# Specification

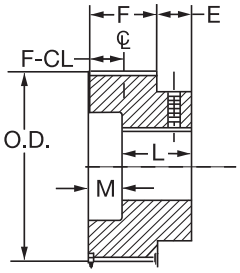
## HT250 Taper-Lock Sprockets

**14 mm Sprockets**

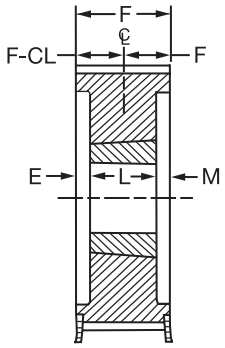
| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | E | M | Min. | Max | | |
| **14M-115** | | | | | **F = 5.25”** | | | | | | | |
| P30-14M-115-2517 | **114838** | 30 | 5.263 | 5.153 | 5.763 | A1F | 1.75 | 1.75 | 1/2 | 2-11/16 | 13 | 0.4386 |
| P32-14M-115-2517 | **114517** | 32 | 5.614 | 5.504 | 6.114 | A1F | 1.75 | 1.75 | 1/2 | 2-11/16 | 16 | 0.5873 |
| P34-14M-115-2517 | **114518** | 34 | 5.965 | 5.855 | 6.465 | A1F | 1.75 | 1.75 | 1/2 | 2-11/16 | 19 | 0.7908 |
| P36-14M-115-3020 | **114519** | 36 | 6.316 | 6.206 | 6.816 | A1F | 1.63 | 1.63 | 7/8 | 3-1/4 | 18 | 0.8766 |
| P38-14M-115-3020 | **114494** | 38 | 6.667 | 6.557 | 7.167 | A1F | 1.63 | 1.63 | 7/8 | 3-1/4 | 20 | 1.100 |
| P40-14M-115-3020 | **114475** | 40 | 7.018 | 6.908 | 7.518 | A1F | 1.63 | 1.63 | 7/8 | 3-1/4 | 23 | 1.357 |
| P44-14M-115-3535 | **114522** | 44 | 7.720 | 7.610 | 8.395 | A1F | 0.88 | 0.88 | 1-3/16 | 3-15/16 | 30 | 2.144 |
| P48-14M-115-3535 | **114523** | 48 | 8.421 | 8.311 | 8.941 | A1F | 0.88 | 0.88 | 1-3/16 | 3-15/16 | 40 | 3.277 |
| P52-14M-115-4040 | **114524** | 52 | 9.123 | 9.013 | 9.687 | A1F | 0.63 | 0.63 | 1-7/16 | 4-7/16 | 47 | 4.545 |
| P56-14M-115-4040 | **114525** | 56 | 9.825 | 9.715 | 10.355 | A1F | 0.63 | 0.63 | 1-7/16 | 4-7/16 | 58 | 6.335 |
| P60-14M-115-4040 | **114526** | 60 | 10.527 | 10.417 | 11.067 | A1F | 0.63 | 0.63 | 1-7/16 | 4-7/16 | 70 | 8.589 |
| P64-14M-115-4545 | **114527** | 64 | 11.229 | 11.119 | 11.750 | A1F | 0.38 | 0.38 | 1-15/16 | 4-15/16 | 82 | 11.47 |
| P68-14M-115-4545 | **114528** | 68 | 11.930 | 11.820 | 12.500 | A1F | 0.38 | 0.38 | 1-15/16 | 4-15/16 | 97 | 14.91 |
| P72-14M-115-4545 | **114529** | 72 | 12.632 | 12.522 | 13.066 | A1F | 0.00 | 0.75 | 1-15/16 | 4-15/16 | 113 | 19.06 |
| P80-14M-115-4545 | **114530** | 80 | 14.036 | 13.926 | 14.620 | A2F | 0.38 | 0.38 | 1-15/16 | 4-15/16 | 148 | 29.66 |
| P90-14M-115-4545 | **114476** | 90 | 15.790 | 15.680 | – | A2 | 0.38 | 0.38 | 1-15/16 | 4-15/16 | 117 | 28.30 |
| P112-14M-115-4545 | **114477** | 112 | 19.650 | 19.540 | – | A2 | 0.00 | 0.75 | 1-15/16 | 4-15/16 | 173 | 64.72 |
| P144-14M-115-4545 | **114856** | 144 | 25.264 | 25.154 | – | A3 | 0.38 | 0.38 | 1-15/16 | 4-15/16 | 120 | 172.2 |
| P168-14M-115-4545 | **114848** | 168 | 29.475 | 29.265 | – | A3 | 0.38 | 0.38 | 1-15/16 | 4-15/16 | 223 | 243.3 |
| P192-14M-115-4545 | **114482** | 192 | 33.686 | 33.576 | – | A3 | 0.38 | 0.38 | 1-15/16 | 4-15/16 | 475 | 496.5 |
| P216-14M-115-6050 | **114857** | 216 | 37.896 | 37.786 | – | A3 | 0.00 | 0.25 | 4-7/16 | 6 | 686 | 378.0 |
| **14M-170** | | | | | **F = 7.38”** | | | | | | | |
| P40-14M-170-3535* | **114539** | 40 | 7.018 | 6.908 | 7.518 | A1F | 1.94 | 1.94 | 1-3/16 | 3-15/16 | 29 | 1.780 |
| P44-14M-170-3535 | **114540** | 44 | 7.720 | 7.610 | 8.395 | A1F | 1.94 | 1.94 | 1-3/16 | 3-15/16 | 39 | 2.828 |
| P48-14M-170-3535 | **114541** | 48 | 8.421 | 8.311 | 8.941 | A1F | 1.94 | 1.94 | 1-3/16 | 3-15/16 | 51 | 4.283 |
| P52-14M-170-4040 | **114542** | 52 | 9.123 | 9.013 | 9.687 | A1F | 1.13 | 2.25 | 1-7/16 | 4-7/16 | 59 | 5.877 |
| P56-14M-170-4040 | **114543** | 56 | 9.825 | 9.715 | 10.355 | A1F | 1.13 | 2.25 | 1-7/16 | 4-7/16 | 71 | 8.051 |
| P60-14M-170-4545 | **114544** | 60 | 10.527 | 10.417 | 11.067 | A1F | 0.75 | 2.13 | 1-15/16 | 4-15/16 | 83 | 10.85 |
| P64-14M-170-4545 | **114545** | 64 | 11.229 | 11.119 | 11.750 | A1F | 0.63 | 2.25 | 1-15/16 | 4-15/16 | 94 | 13.71 |
| P68-14M-170-4545 | **114546** | 68 | 11.930 | 11.820 | 12.500 | A1F | 0.63 | 2.25 | 1-15/16 | 4-15/16 | 113 | 18.15 |
| P72-14M-170-4545 | **114547** | 72 | 12.632 | 12.522 | 13.066 | A1F | 0.63 | 2.25 | 1-15/16 | 4-15/16 | 130 | 23.00 |
| P80-14M-170-4545 | **114548** | 80 | 14.036 | 13.926 | 14.625 | A1F | 1.03 | 1.84 | 1-15/16 | 4-15/16 | 166 | 35.12 |
| P90-14M-170-4545 | **114478** | 90 | 15.790 | 15.680 | – | A2 | 0.63 | 2.25 | 1-15/16 | 4-15/16 | 159 | 42.03 |
| P112-14M-170-4545 | **114479** | 112 | 19.650 | 19.540 | – | D2 | 0.25 | 3.12 | 1-15/16 | 4-15/16 | 215 | 81.30 |
| P144-14M-170-6050 | **114858** | 144 | 25.264 | 25.154 | – | A3 | 1.19 | 1.19 | 4-7/16 | 6 | 264 | 207.9 |
| P168-14M-170-6050 | **114499** | 168 | 29.475 | 29.265 | – | A3 | 1.19 | 1.19 | 4-7/16 | 6 | 462 | 384.2 |
| P192-14M-170-6050 | **117846** | 192 | 33.686 | 33.576 | – | A3 | 1.19 | 1.19 | 4-7/16 | 6 | 616 | 655.7 |
| P216-14M-170-6050 | **117848** | 216 | 37.896 | 37.786 | – | A2 | 1.19 | 1.19 | 4-7/16 | 6 | 563 | 851.7 |

# Specification

## HT250 Sprockets




TYPE 6F



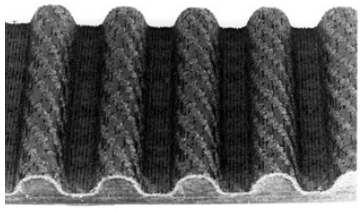

TYPE AF

**Plain Bore HT250 Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Dimensions (Inches) | | | Bore Range | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pitch | O.D. | Flange | E | L | M | Min. | Max | | |
| | | | **8 mm** | **Pitch** | | | | | | | **Type 6F** | |
| P22-8M-20-MPB | **110700** | 22 | 2.206 | 2.152 | 2.606 | 0.60 | 1.80 | 0.00 | 1/2 | 1-3/16 | 1.3 | 0.0048 |
| P22-8M-30-MPB | **110720** | 22 | 2.206 | 2.152 | 2.606 | 0.60 | 2.10 | 0.00 | 1/2 | 1-3/16 | 1.6 | 0.0060 |
| P24-8M-30-MPB | **110721** | 24 | 2.406 | 2.352 | 2.756 | 0.60 | 2.10 | 0.00 | 1/2 | 1-1/4 | 1.9 | 0.0061 |
| P26-8M-30-MPB | **110722** | 26 | 2.607 | 2.553 | 2.906 | 0.80 | 2.30 | 0.00 | 1/2 | 1-1/4 | 2.4 | 0.0087 |
| P28-8M-50-MPB | **114484** | 28 | 2.807 | 2.753 | 3.207 | 0.60 | 2.50 | 0.50 | 1/2 | 1-1/2 | 3.7 | 0.0240 |
| P30-8M-50-MPB | **110741** | 30 | 3.008 | 2.954 | 3.346 | 0.60 | 2.50 | 0.50 | 1/2 | 1-1/2 | 4.3 | 0.0319 |
| P38-8M-85-MPB | **114827** | 38 | 3.810 | 3.756 | 4.201 | 0.60 | 3.30 | 1.10 | 1/2 | 1-7/8 | 9.7 | 0.1204 |
| | | | **14 mm** | **Pitch** | | | | | | | **Type 6F** | |
| P28-14M-85-MPB | **110830** | 28 | 4.912 | 4.802 | 5.562 | 1.00 | 4.00 | 1.00 | 1-1/4 | 2-11/16 | 17 | 0.3128 |
| P29-14M-85-MPB | **110831** | 29 | 5.088 | 4.978 | 5.562 | 1.00 | 4.00 | 1.00 | 1-1/4 | 2-11/16 | 19 | 0.3654 |
| P28-14M-115-MPB | **110855** | 28 | 4.912 | 4.802 | 5.562 | 1.30 | 5.00 | 1.50 | 1-1/4 | 2-11/16 | 22 | 0.4077 |
| P29-14M-115-MPB | **110856** | 29 | 5.088 | 4.978 | 5.562 | 1.30 | 5.00 | 1.50 | 1-1/4 | 2-11/16 | 24 | 0.4768 |
| P36-14M-170-MPB | **110880** | 36 | 6.316 | 6.206 | 6.816 | 1.30 | 6.00 | 2.60 | 1-1/2 | 3-3/8 | 47 | 1.593 |
| P38-14M-170-MPB | **110881** | 38 | 6.667 | 6.557 | 7.167 | 1.30 | 6.00 | 2.60 | 1-1/2 | 3-3/8 | 54 | 1.987 |
| P40-14M-170-MPB | **110882** | 40 | 7.018 | 6.908 | 7.518 | 1.30 | 6.00 | 2.60 | 1-1/2 | 3-3/4 | 60 | 2.479 |

# Specification

## DODGE HT250 Belts



- Approximately 250 percent Rating of HTD Belts
- For Use on Taper-Lock HT250 Sprockets

***Note:*** Belt length is in millimeters

To convert to inches, divide by 25.4

***Example:*** 2600-8M-30 belt size

2600 ÷ 25.4 = 102.36 inches belt length

### 5 mm Pitch HT250 Belts

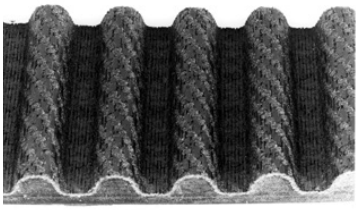
| 15 mm Wide | | | 15 mm Wide | | | 25 mm Wide | | | 25 mm Wide | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Description | Part No. | Wgt. | Description | Part No. | Wgt. | Description | Part No. | Wgt. | Description | Part No. | Wgt. |
| 300-5M-15 | **142100** | 0.04 | 650-5M-15 | **142110** | 0.09 | 300-5M-25 | **142122** | 0.07 | 650-5M-25 | **142132** | 0.15 |
| 355-5M-15 | **142101** | 0.05 | 700-5M-15 | **142111** | 0.09 | 355-5M-25 | **142123** | 0.08 | 700-5M-25 | **142133** | 0.15 |
| 375-5M-15 | **142102** | 0.05 | 750-5M-15 | **142112** | 0.10 | 375-5M-25 | **142124** | 0.09 | 750-5M-25 | **142134** | 0.17 |
| 400-5M-15 | **142103** | 0.05 | 800-5M-15 | **142113** | 0.11 | 400-5M-25 | **142125** | 0.09 | 800-5M-25 | **142135** | 0.18 |
| 405-5M-15 | **142145** | 0.05 | 850-5M-15 | **142148** | 0.11 | 405-5M-25 | **142149** | 0.09 | 850-5M-25 | **142152** | 0.19 |
| 425-5M-15 | **142104** | 0.06 | 900-5M-15 | **142114** | 0.12 | 425-5M-25 | **142126** | 0.10 | 900-5M-25 | **142136** | 0.20 |
| 450-5M-15 | **142105** | 0.06 | 1000-5M-15 | **142115** | 0.14 | 450-5M-25 | **142127** | 0.10 | 1000-5M-25 | **142137** | 0.23 |
| 500-5M-15 | **142106** | 0.07 | 1150-5M-15 | **142116** | 0.16 | 500-5M-25 | **142128** | 0.11 | 1150-5M-25 | **142138** | 0.26 |
| 535-5M-15 | **142107** | 0.07 | 1300-5M-15 | **142117** | 0.18 | 535-5M-25 | **142129** | 0.12 | 1300-5M-25 | **142139** | 0.29 |
| 565-5M-15 | **142108** | 0.08 | 1450-5M-15 | **142118** | 0.20 | 565-5M-25 | **142130** | 0.13 | 1450-5M-25 | **142140** | 0.34 |
| 580-5M-15 | **142146** | 0.08 | 1600-5M-15 | **142119** | 0.22 | 580-5M-25 | **142150** | 0.13 | 1600-5M-25 | **142141** | 0.36 |
| 600-5M-15 | **142109** | 0.08 | 1720-5M-15 | **142120** | 0.23 | 600-5M-25 | **142131** | 0.14 | 1720-5M-25 | **142142** | 0.39 |
| 625-5M-15 | **142147** | 0.09 | 2100-5M-15 | **142121** | 0.29 | 625-5M-25 | **142151** | 0.14 | 2100-5M-25 | **142143** | 0.47 |

### 8 mm Pitch HT250 Belts

| 20 mm Wide | | | 30 mm Wide | | | 50 mm Wide | | | 85 mm Wide | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Description | Part No. | Wt. | Description | Part No. | Wt. | Description | Part No. | Wt. | Description | Part No. | Wt. |
| 384-8M-20 | **146400** | 0.12 | 384-8M-30 | **146433** | 0.19 | 384-8M-50 | **146466** | 0.33 | 384-8M-85 | **146499** | 0.55 |
| 480-8M-20 | **146401** | 0.13 | 480-8M-30 | **146434** | 0.20 | 480-8M-50 | **146467** | 0.34 | 480-8M-85 | **146500** | 0.57 |
| 560-8M-20 | **146402** | 0.16 | 560-8M-30 | **146435** | 0.23 | 560-8M-50 | **146468** | 0.39 | 560-8M-85 | **146501** | 0.66 |
| 600-8M-20 | **146403** | 0.17 | 600-8M-30 | **146436** | 0.25 | 600-8M-50 | **146469** | 0.42 | 600-8M-85 | **146502** | 0.71 |
| 640-8M-20 | **146404** | 0.18 | 640-8M-30 | **146437** | 0.27 | 640-8M-50 | **146470** | 0.45 | 640-8M-85 | **146503** | 0.76 |
| 720-8M-20 | **146405** | 0.20 | 720-8M-30 | **146438** | 0.30 | 720-8M-50 | **146471** | 0.50 | 720-8M-85 | **146504** | 0.85 |
| 800-8M-20 | **146406** | 0.22 | 800-8M-30 | **146439** | 0.33 | 800-8M-50 | **146472** | 0.56 | 800-8M-85 | **146505** | 0.95 |
| 840-8M-20 | **146407** | 0.23 | 840-8M-30 | **146440** | 0.35 | 840-8M-50 | **146473** | 0.59 | 840-8M-85 | **146505** | 1.00 |
| 880-8M-20 | **146408** | 0.25 | 880-8M-30 | **146441** | 0.37 | 880-8M-50 | **146474** | 0.61 | 880-8M-85 | **146507** | 1.04 |
| 920-8M-20 | **146409** | 0.26 | 920-8M-30 | **146442** | 0.39 | 920-8M-50 | **146475** | 0.64 | 920-8M-85 | **146508** | 1.09 |
| 960-8M-20 | **146410** | 0.27 | 960-8M-30 | **146443** | 0.40 | 960-8M-50 | **146476** | 0.67 | 960-8M-85 | **146509** | 1.14 |
| 1040-8M-20 | **146411** | 0.29 | 1040-8M-30 | **146444** | 0.43 | 1040-8M-50 | **146477** | 0.74 | 1040-8M-85 | **146510** | 1.23 |
| 1064-8M-20 | **146412** | 0.30 | 1064-8M-30 | **146445** | 0.45 | 1064-8M-50 | **146478** | 0.76 | 1064-8M-85 | **146511** | 1.27 |
| 1120-8M-20 | **146413** | 0.31 | 1120-8M-30 | **146446** | 0.47 | 1120-8M-50 | **146479** | 0.78 | 1120-8M-85 | **146512** | 1.33 |
| 1160-8M-20 | **146414** | 0.32 | 1160-8M-30 | **146447** | 0.48 | 1160-8M-50 | **146480** | 0.8 | 1160-8M-85 | **146513** | 1.28 |
| 1200-8M-20 | **146415** | 0.34 | 1200-8M-30 | **146448** | 0.50 | 1200-8M-50 | **146481** | 0.84 | 1200-8M-85 | **146514** | 1.42 |
| 1224-8M-20 | **146416** | 0.35 | 1224-8M-30 | **146449** | 0.51 | 1224-8M-50 | **146482** | 0.87 | 1224-8M-85 | **146515** | 1.47 |
| 1280-8M-20 | **146417** | 0.36 | 1280-8M-30 | **146450** | 0.53 | 1280-8M-50 | **146483** | 0.89 | 1280-8M-85 | **146516** | 1.52 |
| 1440-8M-20 | **146418** | 0.40 | 1440-8M-30 | **146451** | 0.60 | 1440-8M-50 | **146484** | 1.01 | 1440-8M-85 | **146517** | 1.71 |
| 1512-8M-20 | **146419** | 0.42 | 1512-8M-30 | **146452** | 0.62 | 1512-8M-50 | **146485** | 1.05 | 1512-8M-85 | **146518** | 1.79 |
| 1584-8M-20 | **146420** | 0.43 | 1584-8M-30 | **146453** | 0.65 | 1584-8M-50 | **146486** | 1.09 | 1584-8M-85 | **146519** | 1.82 |
| 1600-8M-20 | **146421** | 0.45 | 1600-8M-30 | **146454** | 0.67 | 1600-8M-50 | **146487** | 1.11 | 1600-8M-85 | **146520** | 1.90 |
| 1760-8M-20 | **146422** | 0.49 | 1760-8M-30 | **146455** | 0.73 | 1760-8M-50 | **146488** | 1.23 | 1760-8M-85 | **146521** | 2.08 |
| 1800-8M-20 | **146423** | 0.50 | 1800-8M-30 | **146456** | 0.75 | 1800-8M-50 | **146489** | 1.25 | 1800-8M-85 | **146522** | 2.13 |
| 2000-8M-20 | **146424** | 0.56 | 2000-8M-30 | **146457** | 0.83 | 2000-8M-50 | **146490** | 1.39 | 2000-8M-85 | **146523** | 2.37 |
| 2200-8M-20 | **146425** | 0.60 | 2200-8M-30 | **146458** | 0.90 | 2200-8M-50 | **146491** | 1.50 | 2200-8M-85 | **146524** | 2.55 |
| 2400-8M-20 | **146426** | 0.67 | 2400-8M-30 | **146459** | 1.00 | 2400-8M-50 | **146492** | 1.67 | 2400-8M-85 | **146525** | 2.84 |
| 2600-8M-20 | **146427** | 0.79 | 2600-8M-30 | **146460** | 1.09 | 2600-8M-50 | **146493** | 1.81 | 2600-8M-85 | **146526** | 3.09 |
| 2800-8M-20 | **146428** | 0.80 | 2800-8M-30 | **146461** | 1.17 | 2800-8M-50 | **146494** | 1.95 | 2800-8M-85 | **146527** | 3.32 |
| 3048-8M-20 | **146429** | 0.85 | 3048-8M-30 | **146462** | 1.27 | 3048-8M-50 | **146495** | 2.00 | 3048-8M-85 | **146528** | 3.62 |
| 3280-8M-20 | **146430** | 0.92 | 3280-8M-30 | **146463** | 1.37 | 3280-8M-50 | **146496** | 2.29 | 3280-8M-85 | **146529** | 3.89 |
| 3600-8M-20 | **146431** | 1.01 | 3600-8M-30 | **146464** | 1.51 | 3600-8M-50 | **146497** | 2.51 | 3600-8M-85 | **146530** | 4.27 |
| 4400-8M-20 | **146432** | 1.23 | 4400-8M-30 | **146465** | 1.84 | 4400-8M-50 | **146498** | 3.07 | 4400-8M-85 | **146531** | 5.22 |

# Specification

## DODGE HT250 Belts



- Approximately 250 percent Rating of HTD Belts
- For Use on Taper-Lock HT250 Sprockets

***Note:*** Belt length is in millimeters

To convert to inches, divide by 25.4

***Example:*** 2600-8M-30 belt size

2600 ÷ 25.4 = 102.36 inches belt length

### 14 mm Pitch HT250 Belts

| 40 mm Wide | | | 55 mm Wide | | | 85 mm Wide | | | 115 mm Wide | | | 170 mm Wide | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description | Part No. | Wt. | Description | Part No. | Wt. | Description | Part No. | Wt. | Description | Part No. | Wt. | Description | Part No. | Wt. |
| 966-14M-40 | **146532** | 0.84 | 966-14M-55 | **146554** | 1.15 | 966-14M-85 | **146576** | 1.78 | 966-14M-115 | **146598** | 2.41 | 966-14M-170 | **146620** | 3.56 |
| 1190-14M-40 | **146533** | 1.03 | 1190-14M-55 | **146555** | 1.42 | 1190-14M-85 | **146577** | 2.20 | 1190-14M-115 | **146599** | 2.98 | 1190-14M-170 | **146621** | 4.39 |
| 1400-14M-40 | **146534** | 1.21 | 1400-14M-55 | **146556** | 1.67 | 1400-14M-85 | **146578** | 2.58 | 1400-14M-115 | **146600** | 3.50 | 1400-14M-170 | **146622** | 5.16 |
| 1610-14M-40 | **146535** | 1.40 | 1610-14M-55 | **146557** | 1.92 | 1610-14M-85 | **146579** | 2.97 | 1610-14M-115 | **146601** | 4.02 | 1610-14M-170 | **146623** | 5.95 |
| 1778-14M-40 | **146536** | 1.54 | 1778-14M-55 | **146558** | 2.13 | 1778-14M-85 | **146580** | 3.28 | 1778-14M-115 | **146602** | 4.45 | 1778-14M-170 | **146624** | 6.56 |
| 1890-14M-40 | **146537** | 1.64 | 1890-14M-55 | **146559** | 2.26 | 1890-14M-85 | **146581** | 3.49 | 1890-14M-115 | **146603** | 4.73 | 1890-14M-170 | **146625** | 6.97 |
| 2100-14M-40 | **146538** | 1.82 | 2100-14M-55 | **146560** | 2.51 | 2100-14M-85 | **146582** | 3.88 | 2100-14M-115 | **146604** | 5.25 | 2100-14M-170 | **146626** | 7.75 |
| 2310-14M-40 | **146539** | 2.00 | 2310-14M-55 | **146561** | 2.76 | 2310-14M-85 | **146583** | 4.26 | 2310-14M-115 | **146605** | 5.77 | 2310-14M-170 | **146627** | 8.53 |
| 2450-14M-40 | **146540** | 2.13 | 2450-14M-55 | **146562** | 2.93 | 2450-14M-85 | **146584** | 4.52 | 2450-14M-115 | **146606** | 6.13 | 2450-14M-170 | **146628** | 9.04 |
| 2590-14M-40 | **146541** | 2.25 | 2590-14M-55 | **146563** | 3.10 | 2590-14M-85 | **146585** | 4.78 | 2590-14M-115 | **146607** | 6.47 | 2590-14M-170 | **146629** | 9.55 |
| 2800-14M-40 | **146542** | 2.43 | 2800-14M-55 | **146564** | 3.34 | 2800-14M-85 | **146586** | 5.17 | 2800-14M-115 | **146608** | 7.00 | 2800-14M-170 | **146630** | 10.33 |
| 3150-14M-40 | **146543** | 2.73 | 3150-14M-55 | **146565** | 3.77 | 3150-14M-85 | **146587** | 5.82 | 3150-14M-115 | **146609** | 7.87 | 3150-14M-170 | **146631** | 11.62 |
| 3360-14M-40 | **146544** | 2.91 | 3360-14M-55 | **146566** | 4.02 | 3360-14M-85 | **146588** | 6.20 | 3360-14M-115 | **146610** | 8.39 | 3360-14M-170 | **146631** | 12.39 |
| 3500-14M-40 | **146545** | 3.03 | 3500-14M-55 | **146567** | 4.19 | 3500-14M-85 | **146589** | 6.46 | 3500-14M-115 | **146611** | 8.75 | 3500-14M-170 | **146633** | 12.90 |
| 3850-14M-40 | **146546** | 3.33 | 3850-14M-55 | **146568** | 4.60 | 3850-14M-85 | **146590** | 7.10 | 3850-14M-115 | **146612** | 9.62 | 3850-14M-170 | **146634** | 14.20 |
| 4326-14M-40 | **146547** | 3.74 | 4326-14M-55 | **146569** | 5.17 | 4326-14M-85 | **146591** | 8.00 | 4326-14M-115 | **146613** | 10.80 | 4326-14M-170 | **146635** | 15.96 |
| 4578-14M-40 | **146548** | 3.96 | 4578-14M-55 | **146570** | 5.48 | 4578-14M-85 | **146592** | 8.45 | 4578-14M-115 | **146614** | 11.42 | 4578-14M-170 | **146636** | 16.90 |
| 4956-14M-40 | **146549** | 4.29 | 4956-14M-55 | **146571** | 5.90 | 4956-14M-85 | **146593** | 9.11 | 4956-14M-115 | **146615** | 12.33 | 4956-14M-170 | **146637** | 18.23 |
| 5320-14M-40 | **146550** | 4.61 | 5320-14M-55 | **146572** | 6.33 | 5320-14M-85 | **146594** | 9.28 | 5320-14M-115 | **146616** | 13.24 | 5320-14M-170 | **146638** | 19.57 |
| 5740-14M-40 | **146551** | 4.97 | 5740-14M-55 | **146573** | 6.83 | 5740-14M-85 | **146595** | 10.55 | 5740-14M-115 | **146617** | 14.29 | 5740-14M-170 | **146639** | 25.00 |
| 6160-14M-40 | **146552** | 5.33 | 6160-14M-55 | **146574** | 7.33 | 6160-14M-85 | **146596** | 11.32 | 6160-14M-115 | **146618** | 15.34 | 6160-14M-170 | **146640** | 22.67 |
| 6860-14M-40 | **146553** | 5.94 | 6860-14M-55 | **146575** | 8.16 | 6860-14M-85 | **146597** | 12.61 | 6860-14M-115 | **146619** | 17.08 | 6860-14M-170 | **146641** | 25.25 |

### 20 mm Pitch HTD Belts

| 115 mm Wide | | | 170 mm Wide | | | 230 mm Wide | | | 290 mm Wide | | | 340 mm Wide | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | Part No. | Wt. | Size | Part No. | Wt. | Size | Part No. | Wt. | Size | Part No. | Wt. | Size | Part No. | Wt. |
| 2000-20M-115 | **142288** | 6 | 2000-20M-170 | **142303** | 9 | 2000-20M-230 | **142318** | 12 | 2000-20M-290 | **142333** | 16 | 2000-20M-340 | **142348** | 19 |
| 2500-20M-115 | **142289** | 8 | 2500-20M-170 | **142304** | 11 | 2500-20M-230 | **142319** | 15 | 2500-20M-290 | **142334** | 20 | 2500-20M-340 | **142349** | 24 |
| 3400-20M-115 | **142290** | 11 | 3400-20M-170 | **142305** | 16 | 3400-20M-230 | **142320** | 22 | 3400-20M-290 | **142335** | 27 | 3400-20M-340 | **142350** | 32 |
| 3800-20M-115 | **142291** | 12 | 3800-20M-170 | **142306** | 18 | 3800-20M-230 | **142321** | 24.5 | 3800-20M-290 | **142336** | 30.5 | 3800-20M-340 | **142351** | 35.5 |
| 4200-20M-115 | **142292** | 13 | 4200-20M-170 | **142307** | 20 | 4200-20M-230 | **142322** | 27 | 4200-20M-290 | **142337** | 34 | 4200-20M-340 | **142352** | 39 |
| 4600-20M-115 | **142293** | 14.5 | 4600-20M-170 | **142308** | 21.5 | 4600-20M-230 | **142323** | 29.5 | 4600-20M-290 | **142338** | 37 | 4600-20M-340 | **142353** | 43 |
| 5000-20M-115 | **142294** | 16 | 5000-20M-170 | **142309** | 23 | 5000-20M-230 | **142324** | 32 | 5000-20M-290 | **142339** | 40 | 5000-20M-340 | **142354** | 47 |
| 5200-20M-115 | **142295** | 16.5 | 5200-20M-170 | **142310** | 24 | 5200-20M-230 | **142325** | 33 | 5200-20M-290 | **142340** | 41.5 | 5200-20M-340 | **142355** | 49 |
| 5400-20M-115 | **142296** | 17 | 5400-20M-170 | **142311** | 25 | 5400-20M-230 | **142326** | 34 | 5400-20M-290 | **142341** | 43 | 5400-20M-340 | **142356** | 51 |
| 5600-20M-115 | **142297** | 17.5 | 5600-20M-170 | **142312** | 26 | 5600-20M-230 | **142327** | 35.5 | 5600-20M-290 | **142342** | 44.5 | 5600-20M-340 | **142357** | 52.5 |
| 5800-20M-115 | **142298** | 18 0 | 5800-20M-170 | **142313** | 27 | 5800-20M-230 | **142328** | 37 | 5800-20M-290 | **142343** | 46 | 5800-20M-340 | **142358** | 54 |
| 6000-20M-115 | **142299** | 19 | 6000-20M-170 | **142314** | 28 | 6000-20M-230 | **142329** | 38 | 6000-20M-290 | **142344** | 48 | 6000-20M-340 | **142359** | 56 |
| 6200-20M-115 | **142300** | 20 0 | 6200-20M-170 | **142315** | 29 | 8200-20M-230 | **142330** | 39 | 6200-20M-290 | **142345** | 50 | 6200-20M 340 | **142360** | 58 |
| 6400-20M-115 | **142301** | 21 | 6400 20M 170 | **142316** | 30 | 6400-20M-230 | **142331** | 40.5 | 6400-20M-290 | **142346** | 51 5 | 6400-20M-340 | **142361** | 60 0 |
| 6600-20M-115 | **142302** | 22 0 | 6600-20M-170 | **142317** | 31 | 6600-20M-230 | **142332** | 42 | 6600-20M-290 | **142347** | 53 | 6600-20M-340 | **142362** | 62 |

# Selection

## Procedure

**1. Obtain required information:**

- Motorname plate HP
- Motor or DriveR RPM and Shaft size
- DriveN Machine RPM and Shaft size
- Approximate center distance
- Service factor information

**2. Determine Service Factor: (Page PT3-89)**

- Determine type of Driven Machine from Table 1
- Choose Basic Service Factor in appropriate column of the following S.F. Table
- Add additional service factor for slow speed drives, idlers or speed up drives were applicable

**3. Calculate Design Horsepower:**

- Multiply Motor HP or normal running HP times Service Factor from Step 2
- Note: Recommended Min. Sprocket Diameter, if applicable, from NEMA table on page PT3-90.

**4. Determine Belt Pitch: (Page PT3-90)**

- Choose belt pitch based upon Design HP and RPM of faster shaft

**5. Select Smaller Sprocket:**

- Look at Basic HP rating tables of belt Pitch selected in Step 4
- Scan HP rating at RPM of faster shaft. (Pg. PT3-91 thru PT3-95)
- Find sprocket size(s) that have HP rating at or above Design HP

**6. Calculate Drive Speed Ratio:**

- Divide Fast Shaft RPM by Slow Shaft RPM

**7. Select Sprockets and Belt:**

- Refer to "Ratio/Center Distance" Tables for Belt pitch chosen in Step 4. (Pg. PT3-96 - PT3-120)
- Trace down left hand column to approximate ratio calculated in Step 6
- Choose drive that has small sprocket at or above the number of teeth determined in Step 5
- On this same line, trace to the right until the number closest to the required center distance is reached
- Trace to the top of this column and note the belt size that gives this center distance
- Also note the "Belt Length Correction Factor" at the top or bottom of this same column

**8. Finalize Selection:**

- Multiply "Belt Length Correction Factor" times indicated rating obtained from HP table
- Verify that Design HP is equal to or less than this corrected HP value
- Note: If Correction Factor is greater than 1.0 corrected HP may allow selection of smaller less expensive drive

**9. Specify Drive:**

- DriveR Sprocket and Bushing
- DriveN Sprocket and Bushing
- Belt
- Verify that bushing bore has capacity for shaft size

### *Example*

**Step 1. Required Information:** Select a HTR/HTRC drive to connect a 15HP APG gearmotor to a package conveyor headshaft. Reducer output is 125 RPM, shaft size is 2". Headshaft is 2-3/4" and is to run at 70 RPM. Center distance is 19-23", operation is 14 hrs/day.

**Step 2: Service Factor:** Package Conveyor requires 1.4 basic Service Factor. Add 0.3 for slow speed drive application (step 2 at left).
Net S.F. = 1.7

**Step 3. Design HP:** 1.7 x 15 = 25.5 HP.

**Step 4. Belt Pitch:** Referring to page PT3-90, most probable belt pitch for 25.5 Des. HP at 125 RPM is 14 mm.

**Step 5. Select Small Sprocket:** Scan 14 mm HP Tables. Since there is no 125 RPM line, it will be necessary to interpolate. Start with the 100 RPM line. Observe that a 38 tooth sprocket for a 115 mm wide belt gives 23.5 HP. Interpolation for 125 RPM gives 29.2 HP. Other alternatives are also available (see below)

**Step 6. Drive Ratio:** 125 / 70 RPM = 1.79:1

**Step 7. Sprocket Selection:** Refer to 14 mm Ratio/Center Distance tables. For 1.79 ratio, note that there are 5 drive combinations in the 1.78 to 1.8 range. The 38 tooth DriveR and the 68 tooth DriveN combination appears to be good, however we need to account for the belt length correction factor of .95, which gives us a net design HP of 27.7. (Note 20.2" C.D. requires a 1778 length code belt)

**Step 8. Finalize Selection:** Select the 38 to 68 tooth combination with a 1778 length code belt for 20.2" C.D. From step 7, rated HP is 27.7

There are many optional drive selections. For drive verification or complete list of choices run ViaSync at www.ptwizard.com.

**Step 9. Specify Drive:**

**Original Selection:**

DriveR Sprocket: P38-14M-115-3020, P/N **114520** Bushing. 3020 x 2", **P/N 117118**

DriveN Sprocket: P68-14M-115-4545, P/N **114528** Bushing. 4545 x 2-3/4", P/N **117426**

Belt: 1778-14M-115 HT250 Belt, P/N **146602** Shaft capacity is verified by availability of bore sizes.

Selection program available online at ptwizard.com

# Selection

## Service Factors

**Table 1**

| DriveN Machine | | | | DriveR | | |
|---|---|---|---|---|---|---|
| The driveN machines listed below are representative samples only. Select a driveN machine whose load characteristics most closely approximate those of the machine being considered. | AC Motors: Normal Torque, Squirrel Cage, Synchronous, Split Phase, Inverter Controlled<br>DC Motors: Shunt Wound<br>Stepper Motors<br>Engines: Multiple Cylinder Internal Combustion | | | AC Motors: High Torque, High Slip, Repulsion-Induction, Single Phase, Series Wound, Slip Ring<br>DC Motors: Series Wound, Compound Wound<br>Servo Motors<br>Engines: Single Cylinder Internal Combustion<br>Line Shafts Clutches | | |
| | Intermittent Service | Normal Service | Continuous Service | Intermittent Service | Normal Service | Continuous Service |
| | Up to 8 hours Daily or Seasonal | 8 - 16 hours Daily | 16 - 24 hours Daily | Up to 8 hours Daily or Seasonal | 8 - 16 hours Daily | 16 - 24 hours Daily |
| Display, Dispensing Equipment, Instrumentation, Measuring Equipment, Medical Equipment, Office, Projection Equipment | 1.0 | 1.2 | 1.4 | 1.2 | 1.4 | 1.6 |
| Appliances, Sweepers, Sewing Machines Screens, Oven Screens, Drum, Conical Woodworking Equipment (Light): Band Saws, Drills, Lathes | 1.1 | 1.3 | 1.5 | 1.3 | 1.5 | 1.7 |
| Agitators for Liquids, Conveyors: Belt, Light Package, Drill Press, Lathes, Saws, Laundry Machinery, Wood Working Equipment (Heavy): Circular Saws, Jointers, Planers | 1.2 | 1.4 | 1.6 | 1.6 | 1.8 | 2.0 |
| Agitators for Semi-Liquids, Compressor: Centrifugal, Conveyor Belt: Ore, Coal, Sand Dough Mixers, Line Shafts, Machine Tools: Grinder, Shaper, Boring Mill, Milling Machines, Paper Machinery (except Pulpers): Presses, Punches, Shears, Printing Machinery, Pumps: Centrifugal, Gear, Screens: Revolving, Vibratory | 1.3 | 1.5 | 1.7 | 1.6 | 1.8 | 2.0 |
| Brick Machinery (except Pug Mills) Conveyor: Apron, Pan, Bucket, Elevator, Extractors, Washers, Fans, Centrifugal Blowers, Generators and Exciters, Hoists, Rubber Calender, Mills, Extruders | 1.4 | 1.6 | 1.8 | 1.8 | 2.0 | 2.2 |
| Centrifuges, Screw Conveyors Hammer Mill, Paper Pulpers, Textile Machinery | 1.5 | 1.7 | 1.9 | 1.9 | 2.1 | 2.3 |
| Blowers: Positive Displacement, Mine Fans, Pulverizers | 1.6 | 1.8 | 2.0 | 2.0 | 2.2 | 2.4 |
| Compressors: Reciprocating, Crushers: Gyratory, Jaw, Roll, Mills: Ball, Rod, Pebble, etc., Pumps: Reciprocating Saw Mill Equipment | 1.7 | 1.9 | 2.1 | 2.1 | 2.3 | 2.5 |

These service factors are adequate for most belt drive applications. Note that service factors cannot be substituted for good engineering judgment.

Service factors may be adjusted based upon an understanding of the severity of actual drive operation conditions.

### Additional Service Factors

| Low Speed Drives | |
|---|---|
| **8 mm and 14 mm Belts Only** | |
| Smaller Sprocket Speed | |
| Up to 200 rpm | Add 0.3 |
| 201 to 400 rpm | Add 0.2 |
| 401 to 600 rpm | Add 0.1 |
| Each Idler | Add 0.2 |

### Speed-up Drives

For speed up drives, add the basic service factor to the additional factor given below.

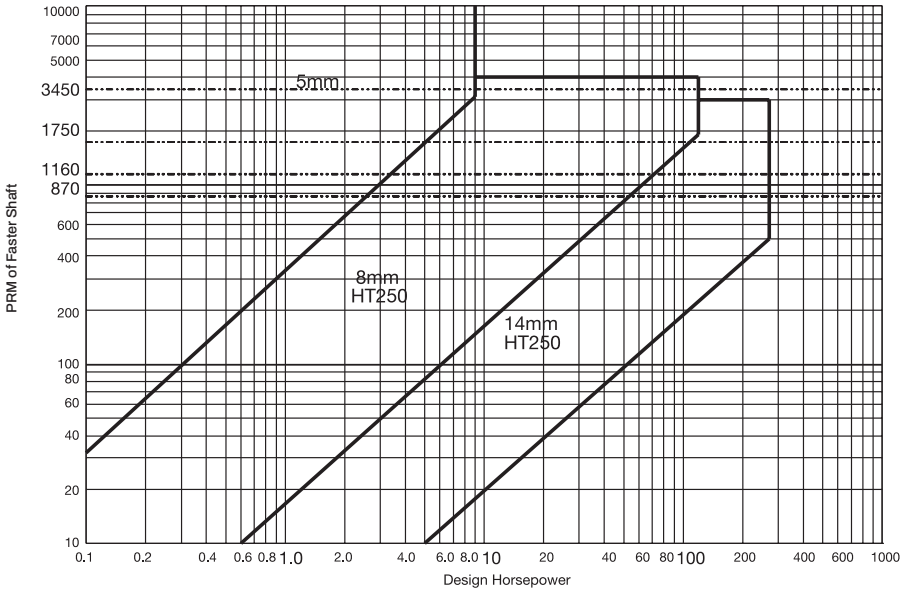
| Speed-up Ratio Range | Additional Factor | Speed-up Ratio Range | Additional Factor |
|---|---|---|---|
| 1 to 1.24 | none | 2.5 to 3.49 | 0.3 |
| 1.25 to 1.74 | 0.1 | 3.5 and over | 0.4 |
| 1.75 to 2.49 | 0.2 | – | – |

**Unusual Conditions**

Additional service factors are required for unusual conditions such a load reversal, heavy shock, plugged motor stop, electric brake. Consult factory or recommendation.

# Selection

## Belt Pitch Selection Guide




Synchronous belt drive noise increases as a function of Design Horsepower and operating RPM. This is indicated on the chart at the left. Provisions should be made to design drive guards for sound absorption accordingly.

### Recommended Minimum Sprocket Diameters and Face Width Synchronous Belt Drives Used On General Purpose Electric Motors

| Motor HP | Min. Sprocket Dia. (in.) | | | | Maximum Face Width | | | |
|---|---|---|---|---|---|---|---|---|
| | 870 | 1160 | 1750 | 3450 | 870 | 1160 | 1750 | 3450 |
| 1/2 | 2.0 | – | – | – | 2.25 | - | - | – |
| 3/4 | 2.16 | 2.0 | – | – | 2.25 | 2.25 | - | – |
| 1 | 2.16 | 2.16 | 2.0 | – | 2.75 | 2.25 | 2.25 | – |
| 1-1/2 | 2.16 | 2.16 | 2.16 | 2.0 | 2.75 | 2.75 | 2.25 | 2.25 |
| 2 | 2.7 | 2.16 | 2.16 | 2.16 | 3.38 | 2.75 | 2.25 | 2.25 |
| 3 | 2.7 | 2.7 | 2.16 | 2.16 | 3.38 | 3.38 | 2.75 | 2.25 |
| 5 | 3.42 | 2.7 | 2.7 | 2.16 | 4.0 | 3.38 | 2.75 | 2.75 |
| 7-1/2 | 4.0 | 3.42 | 2.7 | 2.7 | 4.0 | 4.0 | 3.38 | 2.75 |
| 10 | 4.0 | 4.0 | 3.42 | 2.7 | 4.63 | 4.0 | 3.38 | 3.38 |
| 15 | 4.7 | 4.0 | 4.0 | 3.42 | 4.63 | 4.63 | 4.0 | 3.38 |
| 20 | 5.4 | 4.7 | 4.0 | 4.0 | 5.25 | 4.63 | 4.0 | 4.0 |
| 25 | 6.12 | 5.4 | 4.0 | 4.0 | 5.25 | 5.25 | 4.63 | 4.0 |
| 30 | 6.12 | 6.12 | 4.7 | – | 5.87 | 5.25 | 4.63 | – |
| 40 | 7.4 | 6.12 | 5.4 | – | 5.88 | 5.88 | 5.25 | – |
| 50 | 7.6 | 7.4 | 6.12 | – | 7.25 | 5.88 | 5.25 | – |
| 60 | 9.0 | 8.1 | 6.7 | – | 7.25 | 7.25 | 5.88 | – |
| 75 | 8.6 | 9.0 | 7.8 | – | 8.5 | 7.25 | 5.88 | – |
| 100 | 10.8 | 9.0 | 7.8 | – | 8.5 | 8.5 | 7.25 | – |
| 125 | 11.3 | 10.8 | 9.5 | – | 8.5 | 8.5 | 7.25 | – |
| 150 | 11.88 | 11.88 | 9.5 | – | 11.63 | 8.5 | 8.5 | – |
| 200 | 11.88 | 11.88 | 11.88 | – | 11.63 | 11.63 | 11.63 | – |
| 250 | 13.5 | 11.88 | 11.88 | – | 11.63 | 11.63 | 9.38 | – |
| 300 | – | – | 11.88 | – | – | 11.63 | 11.63 | – |
| 350 | – | – | 11.88 | – | – | 11.63 | 11.63 | – |
| 400 | – | – | 12.69 | – | – | – | 11.63 | – |

**NOTE:** For a given motor horsepower and speed, the total belt pull is related to the motor sprocket size. As this size **decreases**, the total belt pull **increases**. Therefore, to limit the resultant load on motor shaft and bearings, NEMA lists minimum sprocket sizes for the various motors. The sprocket on the motor (DriveR Sprocket) should be at least this large.

# Selection

## HT250 Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 8M-20 | 20 mm Width - Current Power Ratings<br>Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 22<br>2.210 | 24<br>2.410 | 26<br>2.610 | 28<br>2.810 | 30<br>3.010 | 32<br>3.210 | 34<br>3.410 | 36<br>3.610 | 38<br>3.810 | 40<br>4.010 | 44<br>4.410 | 48<br>4.810 | 56<br>5.610 | 64<br>6.420 | 72<br>7.220 | 80<br>8.020 |
| 10 | 0.08 | 0.09 | 0.10 | 0.11 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.20 | 0.22 | 0.27 | 0.32 | 0.37 | 0.42 |
| 20 | 0.15 | 0.17 | 0.20 | 0.22 | 0.24 | 0.26 | 0.28 | 0.30 | 0.32 | 0.35 | 0.39 | 0.43 | 0.54 | 0.64 | 0.74 | 0.84 |
| 40 | 0.29 | 0.33 | 0.38 | 0.42 | 0.46 | 0.50 | 0.54 | 0.58 | 0.62 | 0.66 | 0.76 | 0.87 | 1.07 | 1.27 | 1.48 | 1.68 |
| 50 | 0.36 | 0.41 | 0.46 | 0.51 | 0.56 | 0.62 | 0.67 | 0.72 | 0.77 | 0.83 | 0.96 | 1.08 | 1.34 | 1.59 | 1.85 | 2.10 |
| 60 | 0.42 | 0.49 | 0.55 | 0.61 | 0.67 | 0.73 | 0.79 | 0.85 | 0.92 | 0.99 | 1.15 | 1.30 | 1.61 | 1.91 | 2.22 | 2.52 |
| 100 | 0.68 | 0.78 | 0.88 | 0.98 | 1.08 | 1.18 | 1.27 | 1.40 | 1.53 | 1.66 | 1.91 | 2.17 | 2.67 | 3.18 | 3.69 | 4.20 |
| 200 | 1.28 | 1.47 | 1.67 | 1.86 | 2.05 | 2.29 | 2.55 | 2.80 | 3.06 | 3.31 | 3.82 | 4.33 | 5.35 | 6.36 | 7.38 | 8.40 |
| 300 | 1.85 | 2.14 | 2.42 | 2.70 | 3.06 | 3.44 | 3.82 | 4.20 | 4.58 | 4.96 | 5.73 | 6.49 | 8.01 | 9.54 | 11.06 | 12.58 |
| 400 | 2.40 | 2.78 | 3.15 | 3.56 | 4.07 | 4.58 | 5.09 | 5.60 | 6.11 | 6.61 | 7.63 | 8.64 | 10.67 | 12.70 | 14.72 | 16.73 |
| 500 | 2.94 | 3.41 | 3.87 | 4.45 | 5.09 | 5.72 | 6.36 | 6.99 | 7.63 | 8.26 | 9.53 | 10.79 | 13.32 | 15.84 | 18.35 | 20.85 |
| 600 | 3.47 | 4.02 | 4.58 | 5.34 | 6.10 | 6.86 | 7.62 | 8.38 | 9.14 | 9.90 | 11.42 | 12.93 | 15.95 | 18.96 | 21.96 | 24.94 |
| 700 | 3.99 | 4.63 | 5.33 | 6.22 | 7.11 | 8.00 | 8.88 | 9.77 | 10.65 | 11.54 | 13.30 | 15.06 | 18.57 | 22.06 | 25.53 | 28.97 |
| 800 | 4.50 | 5.22 | 6.09 | 7.10 | 8.12 | 9.13 | 10.14 | 11.15 | 12.16 | 13.16 | 15.17 | 17.18 | 21.17 | 25.13 | 29.06 | 32.95 |
| 870 | 4.85 | 5.63 | 6.62 | 7.72 | 8.82 | 9.92 | 11.02 | 12.11 | 13.21 | 14.30 | 16.48 | 18.65 | 22.98 | 27.26 | 31.51 | 35.70 |
| 1000 | 5.50 | 6.39 | 7.60 | 8.86 | 10.12 | 11.38 | 12.64 | 13.89 | 15.14 | 16.39 | 18.89 | 21.37 | 26.30 | 31.17 | 35.98 | 40.71 |
| 1160 | 6.29 | 7.33 | 8.79 | 10.25 | 11.71 | 13.17 | 14.62 | 16.07 | 17.51 | 18.95 | 21.82 | 24.67 | 30.32 | 35.88 | 41.35 | 46.70 |
| 1200 | 6.48 | 7.58 | 9.09 | 10.60 | 12.11 | 13.61 | 15.11 | 16.61 | 18.10 | 19.59 | 22.55 | 25.49 | 31.32 | 37.05 | 42.66 | 48.16 |
| 1400 | 7.44 | 8.82 | 10.57 | 12.33 | 14.07 | 15.82 | 17.55 | 19.29 | 21.01 | 22.73 | 26.15 | 29.53 | 36.21 | 42.73 | 49.07 | 55.22 |
| 1600 | 8.38 | 10.04 | 12.04 | 14.03 | 16.02 | 18.00 | 19.96 | 21.92 | 23.88 | 25.82 | 29.67 | 33.48 | 40.94 | 48.18 | 55.15 | 61.83 |
| 1750 | 9.08 | 10.95 | 13.13 | 15.30 | 17.46 | 19.61 | 21.75 | 23.87 | 25.99 | 28.09 | 32.26 | 36.36 | 44.38 | 52.10 | 59.47 | 66.47 |
| 2000 | 10.22 | 12.45 | 14.92 | 17.38 | 19.82 | 22.25 | 24.66 | 27.06 | 29.44 | 31.79 | 36.45 | 41.02 | 49.87 | 58.27 | 66.16 | 73.48 |
| 2400 | 12.01 | 14.79 | 17.71 | 20.61 | 23.49 | 26.34 | 29.16 | 31.96 | 34.72 | 37.45 | 42.81 | 48.02 | 57.92 | 67.05 | 75.31 | 82.57 |
| 2800 | 13.75 | 17.05 | 20.40 | 23.72 | 27.00 | 30.24 | 33.43 | 36.58 | 39.68 | 42.73 | 48.66 | 54.35 | 64.92 | 74.27 | 82.23 | 88.61 |
| 3200 | 15.46 | 19.21 | 22.96 | 26.67 | 30.32 | 33.91 | 37.43 | 40.88 | 44.26 | 47.56 | 53.92 | 59.92 | 70.71 | 79.67 | 86.55 | – |
| 3500 | 16.71 | 20.50 | 24.50 | 28.43 | 32.29 | 36.07 | 39.77 | 43.38 | 46.90 | 50.33 | 56.87 | 62.96 | 73.62 | 82.00 | – | – |
| 4000 | 18.76 | 23.18 | 27.66 | 32.03 | 36.29 | 40.43 | 44.44 | 48.32 | 52.05 | 55.64 | 62.32 | 68.30 | 77.91 | – | – | – |
| 4500 | 20.75 | 25.40 | 30.24 | 34.94 | 39.49 | 43.86 | 48.05 | 52.05 | 55.84 | 59.42 | 65.89 | 71.36 | – | – | – | – |
| 5000 | 22.69 | 27.37 | 32.52 | 37.48 | 42.21 | 46.72 | 50.97 | 54.96 | 58.67 | 62.09 | 67.97 | 72.49 | – | – | – | – |
| 5500 | 24.58 | 29.07 | 34.46 | 39.58 | 44.41 | 48.94 | 53.13 | 56.97 | 60.44 | 63.51 | 68.55 | – | – | – | – | – |

| 8M-30 | 30 mm Width - Current Power Ratings<br>Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 22<br>2.210 | 24<br>2.410 | 26<br>2.610 | 28<br>2.810 | 30<br>3.010 | 32<br>3.210 | 34<br>3.410 | 36<br>3.610 | 38<br>3.810 | 40<br>4.010 | 44<br>4.410 | 48<br>4.810 | 56<br>5.610 | 64<br>6.420 | 72<br>7.220 | 80<br>8.020 |
| 10 | 0.13 | 0.14 | 0.16 | 0.17 | 0.21 | 0.22 | 0.24 | 0.25 | 0.27 | 0.28 | 0.32 | 0.35 | 0.43 | 0.49 | 0.55 | 0.63 |
| 20 | 0.24 | 0.27 | 0.32 | 0.35 | 0.38 | 0.41 | 0.44 | 0.47 | 0.51 | 0.55 | 0.62 | 0.68 | 0.81 | 0.96 | 1.11 | 1.26 |
| 40 | 0.46 | 0.52 | 0.60 | 0.66 | 0.73 | 0.79 | 0.85 | 0.92 | 0.98 | 1.04 | 1.19 | 1.31 | 1.61 | 1.91 | 2.22 | 2.52 |
| 50 | 0.57 | 0.65 | 0.73 | 0.81 | 0.88 | 0.98 | 1.06 | 1.14 | 1.22 | 1.30 | 1.45 | 1.62 | 2.01 | 2.39 | 2.77 | 3.15 |
| 60 | 0.66 | 0.77 | 0.87 | 0.96 | 1.06 | 1.15 | 1.25 | 1.34 | 1.44 | 1.53 | 1.72 | 1.95 | 2.41 | 2.87 | 3.32 | 3.78 |
| 100 | 1.07 | 1.23 | 1.39 | 1.55 | 1.71 | 1.86 | 2.01 | 2.16 | 2.32 | 2.48 | 2.87 | 3.25 | 4.01 | 4.78 | 5.54 | 6.30 |
| 200 | 2.02 | 2.32 | 2.64 | 2.94 | 3.24 | 3.54 | 3.84 | 4.20 | 4.58 | 4.97 | 5.73 | 6.49 | 8.02 | 9.55 | 11.07 | 12.60 |
| 300 | 2.92 | 3.38 | 3.82 | 4.27 | 4.71 | 5.16 | 5.73 | 6.30 | 6.87 | 7.45 | 8.59 | 9.73 | 12.02 | 14.30 | 16.59 | 18.86 |
| 400 | 3.79 | 4.39 | 4.98 | 5.56 | 6.15 | 6.87 | 7.63 | 8.40 | 9.16 | 9.92 | 11.44 | 12.97 | 16.01 | 19.04 | 22.07 | 25.10 |
| 500 | 4.65 | 5.39 | 6.11 | 6.83 | 7.63 | 8.58 | 9.53 | 10.49 | 11.44 | 12.39 | 14.29 | 16.19 | 19.98 | 23.76 | 27.53 | 31.28 |
| 600 | 5.48 | 6.35 | 7.22 | 8.07 | 9.15 | 10.29 | 11.43 | 12.57 | 13.71 | 14.85 | 17.13 | 19.40 | 23.93 | 28.44 | 32.94 | 37.41 |
| 700 | 6.30 | 7.32 | 8.31 | 9.33 | 10.66 | 11.99 | 13.32 | 14.65 | 15.98 | 17.30 | 19.95 | 22.59 | 27.86 | 33.09 | 38.29 | 43.46 |
| 800 | 7.11 | 8.25 | 9.39 | 10.66 | 12.17 | 13.69 | 15.21 | 16.72 | 18.23 | 19.75 | 22.76 | 25.77 | 31.75 | 37.70 | 43.59 | 53.55 |
| 870 | 7.66 | 8.90 | 10.13 | 11.58 | 13.23 | 14.88 | 16.52 | 18.17 | 19.81 | 21.45 | 24.72 | 27.98 | 34.46 | 40.89 | 47.26 | 61.07 |
| 1000 | 8.69 | 10.10 | 11.49 | 13.29 | 15.18 | 17.07 | 18.95 | 20.84 | 22.72 | 24.59 | 28.33 | 32.06 | 39.45 | 46.75 | 53.97 | 70.05 |
| 1160 | 9.94 | 11.55 | 13.19 | 15.38 | 17.57 | 19.75 | 21.93 | 24.10 | 26.27 | 28.43 | 32.73 | 37.01 | 45.48 | 53.83 | 62.02 | 72.24 |
| 1200 | 10.24 | 11.90 | 13.64 | 15.90 | 18.16 | 20.42 | 22.67 | 24.91 | 27.15 | 29.38 | 33.82 | 38.24 | 46.98 | 55.57 | 64.00 | 82.83 |
| 1400 | 11.76 | 13.68 | 15.86 | 18.49 | 21.11 | 23.73 | 26.33 | 28.93 | 31.52 | 34.09 | 39.22 | 44.30 | 54.31 | 64.09 | 73.61 | 92.75 |
| 1600 | 13.24 | 15.42 | 18.06 | 21.05 | 24.03 | 26.99 | 29.95 | 32.89 | 35.81 | 38.73 | 44.50 | 50.22 | 61.41 | 72.27 | 82.73 | 99.70 |
| 1750 | 14.35 | 16.72 | 19.69 | 22.95 | 26.19 | 29.41 | 32.62 | 35.81 | 38.98 | 42.14 | 48.39 | 54.55 | 66.57 | 78.15 | 89.21 | 110.21 |
| 2000 | 16.15 | 18.83 | 22.38 | 26.07 | 29.73 | 33.37 | 36.99 | 40.59 | 44.15 | 47.69 | 54.68 | 61.53 | 74.80 | 87.40 | 99.24 | 123.86 |
| 2400 | 18.98 | 22.18 | 26.57 | 30.92 | 35.24 | 39.51 | 43.75 | 47.94 | 52.08 | 56.18 | 64.22 | 72.02 | 86.88 | 100.58 | 112.96 | 132.92 |
| 2800 | 21.73 | 25.57 | 30.60 | 35.58 | 40.50 | 45.36 | 50.15 | 54.87 | 59.52 | 64.10 | 72.99 | 81.53 | 97.39 | 111.41 | 123.34 | – |
| 3200 | 24.43 | 28.81 | 34.45 | 40.00 | 45.48 | 50.86 | 56.14 | 61.32 | 66.39 | 71.34 | 80.88 | 89.88 | 106.06 | 119.51 | 129.83 | – |
| 3500 | 26.40 | 30.92 | 36.75 | 42.64 | 48.43 | 54.10 | 59.65 | 65.07 | 70.35 | 75.49 | 85.30 | 94.43 | 110.43 | 123.01 | – | – |
| 4000 | 29.64 | 34.77 | 41.48 | 48.04 | 54.43 | 60.64 | 66.66 | 72.48 | 78.08 | 83.45 | 93.47 | 102.45 | 116.86 | – | – | – |
| 4500 | 32.79 | 38.44 | 45.36 | 52.41 | 59.23 | 65.79 | 72.07 | 78.07 | 83.76 | 89.13 | 98.83 | 107.04 | – | – | – | – |
| 5000 | 35.85 | 42.06 | 48.78 | 56.21 | 63.32 | 70.07 | 76.45 | 82.44 | 88.01 | 93.13 | 101.95 | 111.09 | – | – | – | – |
| 5500 | 38.84 | 45.57 | 52.23 | 59.37 | 66.62 | 73.41 | 79.69 | 85.45 | 90.65 | 96.49 | 108.31 | – | – | – | – | – |

# Selection

## HT250 Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 8M-50 | 50 mm Width - Current Power Ratings<br>Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 22<br>2.210 | 24<br>2.410 | 26<br>2.610 | 28<br>2.810 | 30<br>3.010 | 32<br>3.210 | 34<br>3.410 | 36<br>3.610 | 38<br>3.810 | 40<br>4.010 | 44<br>4.410 | 48<br>4.810 | 56<br>5.610 | 64<br>6.420 | 72<br>7.220 | 80<br>8.020 |
| 10 | 0.22 | 0.25 | 0.27 | 0.30 | 0.36 | 0.38 | 0.41 | 0.44 | 0.47 | 0.49 | 0.55 | 0.60 | 0.74 | 0.85 | 0.96 | 1.07 |
| 20 | 0.41 | 0.47 | 0.55 | 0.60 | 0.66 | 0.71 | 0.77 | 0.82 | 0.88 | 0.96 | 1.07 | 1.18 | 1.40 | 1.64 | 1.86 | 2.10 |
| 40 | 0.79 | 0.90 | 1.04 | 1.15 | 1.15 | 1.37 | 1.48 | 1.59 | 1.70 | 1.81 | 2.06 | 2.27 | 2.71 | 3.18 | 3.69 | 4.20 |
| 50 | 0.99 | 1.12 | 1.26 | 1.40 | 1.40 | 1.70 | 1.84 | 1.97 | 2.11 | 2.25 | 2.52 | 2.79 | 3.34 | 3.98 | 4.62 | 5.25 |
| 60 | 1.15 | 1.34 | 1.51 | 1.67 | 1.67 | 2.00 | 2.16 | 2.33 | 2.49 | 2.66 | 2.99 | 3.32 | 4.01 | 4.78 | 5.54 | 6.31 |
| 100 | 1.86 | 2.14 | 2.41 | 2.69 | 2.69 | 3.23 | 3.48 | 3.75 | 4.03 | 4.30 | 4.82 | 5.41 | 6.69 | 7.96 | 9.23 | 10.51 |
| 200 | 3.51 | 4.03 | 4.58 | 5.10 | 5.10 | 6.14 | 6.66 | 7.18 | 7.70 | 8.28 | 9.55 | 10.82 | 13.37 | 15.91 | 18.45 | 20.99 |
| 300 | 5.07 | 5.86 | 6.63 | 7.40 | 7.40 | 8.93 | 9.70 | 10.50 | 11.46 | 12.41 | 14.32 | 16.22 | 20.03 | 23.84 | 27.64 | 31.44 |
| 400 | 6.58 | 7.62 | 8.63 | 9.64 | 9.64 | 11.67 | 12.72 | 13.99 | 15.26 | 16.53 | 19.07 | 21.61 | 26.68 | 31.74 | 36.79 | 41.83 |
| 500 | 8.06 | 9.34 | 10.60 | 11.84 | 11.84 | 14.33 | 15.89 | 17.48 | 19.06 | 20.65 | 23.82 | 26.98 | 33.30 | 39.60 | 45.88 | 52.14 |
| 600 | 9.51 | 11.01 | 12.52 | 14.00 | 14.00 | 17.15 | 19.05 | 20.95 | 22.85 | 24.75 | 28.54 | 32.33 | 39.88 | 47.41 | 54.89 | 62.35 |
| 700 | 10.93 | 12.69 | 14.41 | 16.14 | 16.14 | 19.99 | 22.20 | 24.42 | 26.63 | 28.84 | 33.25 | 37.65 | 46.43 | 55.15 | 63.82 | 72.43 |
| 800 | 12.33 | 14.30 | 16.28 | 18.22 | 18.22 | 22.82 | 25.35 | 27.87 | 30.39 | 32.91 | 37.93 | 42.95 | 52.92 | 62.83 | 72.65 | 82.26 |
| 870 | 13.29 | 15.43 | 17.56 | 19.67 | 19.67 | 24.80 | 27.54 | 30.28 | 33.01 | 35.75 | 41.20 | 46.63 | 57.44 | 68.15 | 78.76 | 101.79 |
| 1000 | 15.07 | 17.51 | 19.92 | 22.33 | 22.33 | 28.45 | 31.59 | 34.73 | 37.86 | 40.99 | 47.22 | 53.43 | 65.74 | 77.92 | 89.95 | 116.74 |
| 1160 | 17.23 | 20.03 | 22.80 | 25.64 | 25.64 | 32.92 | 36.54 | 40.16 | 43.78 | 47.38 | 54.55 | 61.69 | 75.81 | 89.71 | 103.37 | 120.39 |
| 1200 | 17.76 | 20.63 | 23.51 | 26.50 | 26.50 | 34.03 | 37.78 | 41.52 | 45.25 | 48.97 | 56.37 | 63.73 | 78.29 | 92.61 | 106.66 | 138.05 |
| 1400 | 20.39 | 23.73 | 27.04 | 30.82 | 30.82 | 39.54 | 43.89 | 48.21 | 52.53 | 56.82 | 65.37 | 73.83 | 90.51 | 106.81 | 122.68 | 154.59 |
| 1600 | 22.96 | 26.74 | 30.52 | 35.08 | 35.08 | 44.99 | 49.91 | 54.81 | 59.69 | 64.54 | 74.17 | 83.69 | 102.35 | 120.44 | 137.88 | 166.16 |
| 1750 | 24.88 | 28.99 | 33.07 | 38.25 | 38.25 | 49.02 | 54.37 | 59.69 | 64.97 | 70.23 | 80.64 | 90.91 | 110.95 | 130.24 | 148.68 | 183.69 |
| 2000 | 28.00 | 32.66 | 37.30 | 43.44 | 43.44 | 55.62 | 61.66 | 67.65 | 73.59 | 79.49 | 91.13 | 102.55 | 124.67 | 145.67 | 165.39 | 206.43 |
| 2400 | 32.91 | 38.44 | 44.28 | 51.53 | 51.53 | 65.85 | 72.91 | 79.90 | 86.81 | 93.63 | 107.03 | 120.04 | 144.80 | 167.63 | 188.27 | 221.53 |
| 2800 | 37.68 | 44.06 | 51.00 | 59.29 | 59.29 | 75.59 | 83.58 | 91.46 | 99.21 | 106.83 | 121.65 | 135.88 | 162.31 | 185.69 | 205.57 | – |
| 3200 | 42.36 | 49.57 | 57.41 | 66.67 | 66.67 | 84.76 | 93.57 | 102.20 | 110.65 | 118.91 | 134.80 | 149.79 | 176.77 | 199.18 | 216.38 | – |
| 3500 | 45.79 | 53.62 | 61.38 | 71.07 | 71.07 | 90.17 | 99.42 | 108.45 | 117.26 | 125.82 | 142.17 | 157.39 | 184.06 | 205.01 | – | – |
| 4000 | 51.40 | 60.23 | 69.14 | 80.07 | 80.07 | 101.07 | 111.10 | 120.79 | 130.13 | 139.09 | 155.79 | 170.75 | 194.77 | – | – | – |
| 4500 | 56.86 | 66.66 | 76.36 | 87.36 | 87.36 | 109.64 | 120.12 | 130.12 | 139.60 | 148.55 | 164.72 | 178.40 | – | – | – | – |
| 5000 | 62.17 | 72.94 | 83.57 | 94.09 | 94.09 | 116.79 | 127.42 | 137.40 | 146.68 | 155.22 | 173.99 | 192.65 | – | – | – | – |
| 5500 | 67.35 | 79.02 | 90.58 | 101.98 | 101.98 | 124.37 | 135.36 | 146.18 | 156.84 | 167.33 | 187.83 | – | – | – | – | – |

| 8M-85 | 85 mm Width - Current Power Ratings<br>Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 22<br>2.210 | 24<br>2.410 | 26<br>2.610 | 28<br>2.810 | 30<br>3.010 | 32<br>3.210 | 34<br>3.410 | 36<br>3.610 | 38<br>3.810 | 40<br>4.010 | 44<br>4.410 | 48<br>4.810 | 56<br>5.610 | 64<br>6.420 | 72<br>7.220 | 80<br>8.020 |
| 10 | 0.38 | 0.43 | 0.48 | 0.52 | 0.62 | 0.67 | 0.71 | 0.76 | 0.81 | 0.86 | 0.95 | 1.05 | 1.29 | 1.48 | 1.67 | 1.86 |
| 20 | 0.71 | 0.81 | 0.95 | 1.05 | 1.14 | 1.24 | 1.33 | 1.43 | 1.52 | 1.67 | 1.86 | 2.05 | 2.43 | 2.86 | 3.24 | 3.62 |
| 40 | 1.38 | 1.57 | 1.81 | 2.00 | 2.19 | 2.38 | 2.57 | 2.76 | 2.95 | 3.14 | 3.57 | 3.95 | 4.71 | 5.47 | 6.28 | 7.15 |
| 50 | 1.71 | 1.95 | 2.19 | 2.43 | 2.67 | 2.95 | 3.19 | 3.43 | 3.67 | 3.90 | 4.38 | 4.86 | 5.81 | 6.77 | 7.85 | 8.93 |
| 60 | 2.00 | 2.33 | 2.62 | 2.90 | 3.19 | 3.47 | 3.76 | 4.05 | 4.33 | 4.62 | 5.19 | 5.76 | 6.90 | 8.12 | 9.42 | 10.72 |
| 100 | 3.24 | 3.71 | 4.19 | 4.66 | 5.14 | 5.62 | 6.05 | 6.52 | 7.00 | 7.47 | 8.38 | 9.33 | 11.37 | 13.53 | 15.70 | 17.86 |
| 200 | 6.09 | 7.00 | 7.95 | 8.85 | 9.76 | 10.66 | 11.57 | 12.47 | 13.38 | 14.28 | 16.23 | 18.40 | 22.72 | 27.05 | 31.37 | 35.69 |
| 300 | 8.81 | 10.19 | 11.52 | 12.85 | 14.18 | 15.52 | 16.85 | 18.18 | 19.52 | 21.10 | 24.34 | 27.58 | 34.06 | 40.53 | 46.99 | 53.45 |
| 400 | 11.42 | 13.23 | 14.99 | 16.76 | 18.52 | 20.28 | 22.04 | 23.79 | 25.95 | 28.11 | 32.42 | 36.74 | 45.36 | 53.96 | 62.54 | 71.11 |
| 500 | 13.99 | 16.23 | 18.42 | 20.56 | 22.75 | 24.89 | 27.08 | 29.71 | 32.41 | 35.10 | 40.49 | 45.87 | 56.61 | 67.32 | 77.99 | 88.63 |
| 600 | 16.52 | 19.14 | 21.75 | 24.32 | 26.89 | 29.46 | 32.39 | 35.62 | 38.85 | 42.08 | 48.52 | 54.96 | 67.80 | 80.59 | 93.32 | 105.99 |
| 700 | 18.99 | 22.04 | 25.04 | 28.04 | 30.99 | 33.99 | 37.75 | 41.51 | 45.27 | 49.03 | 56.53 | 64.01 | 78.93 | 93.76 | 108.50 | 123.14 |
| 800 | 21.42 | 24.85 | 28.27 | 31.65 | 35.03 | 38.79 | 43.09 | 47.38 | 51.66 | 55.94 | 64.49 | 73.01 | 89.97 | 106.81 | 123.51 | 140.05 |
| 870 | 23.09 | 26.80 | 30.51 | 34.18 | 37.84 | 42.15 | 46.81 | 51.47 | 56.12 | 60.77 | 70.04 | 79.27 | 97.64 | 115.86 | 133.90 | 151.73 |
| 1000 | 26.18 | 30.42 | 34.61 | 38.79 | 43.01 | 48.36 | 53.71 | 59.04 | 64.36 | 69.68 | 80.27 | 90.82 | 111.77 | 132.47 | 152.91 | 173.04 |
| 1160 | 29.94 | 34.80 | 39.60 | 44.46 | 49.77 | 55.96 | 62.12 | 68.28 | 74.47 | 80.54 | 92.74 | 104.87 | 128.87 | 152.51 | 175.73 | 198.47 |
| 1200 | 30.84 | 35.84 | 40.84 | 45.84 | 51.46 | 57.84 | 64.22 | 70.58 | 76.92 | 93.24 | 95.83 | 108.34 | 133.10 | 157.44 | 181.32 | 204.67 |
| 1400 | 35.41 | 41.22 | 46.98 | 52.74 | 59.82 | 67.22 | 74.61 | 81.96 | 89.30 | 96.60 | 111.12 | 125.52 | 153.87 | 181.58 | 208.55 | 234.68 |
| 1600 | 39.89 | 46.46 | 53.03 | 59.64 | 68.08 | 76.48 | 84.85 | 93.18 | 101.47 | 109.73 | 126.10 | 142.28 | 174.00 | 204.75 | 234.40 | 262.80 |
| 1750 | 43.22 | 50.36 | 57.45 | 65.02 | 74.20 | 83.33 | 92.42 | 101.46 | 110.46 | 119.39 | 137.09 | 154.55 | 188.61 | 221.41 | 252.76 | 282.48 |
| 2000 | 48.65 | 56.74 | 64.78 | 73.86 | 84.24 | 94.56 | 104.82 | 115.00 | 125.10 | 135.13 | 154.92 | 174.34 | 211.93 | 247.63 | 281.17 | 312.27 |
| 2400 | 57.17 | 66.78 | 76.30 | 87.61 | 99.83 | 111.95 | 123.95 | 135.83 | 147.57 | 159.18 | 181.95 | 204.07 | 246.16 | 284.97 | 320.05 | 350.92 |
| 2800 | 65.45 | 76.54 | 87.54 | 100.80 | 114.74 | 128.51 | 142.09 | 155.48 | 168.65 | 181.61 | 206.81 | 230.99 | 275.93 | 315.67 | 349.47 | 376.59 |
| 3200 | 73.59 | 86.11 | 98.53 | 113.34 | 128.85 | 144.10 | 159.07 | 173.74 | 188.11 | 202.14 | 229.16 | 254.65 | 300.50 | 338.61 | 367.85 | – |
| 3500 | 79.54 | 93.15 | 106.62 | 120.81 | 137.21 | 153.29 | 169.01 | 184.37 | 199.34 | 213.89 | 241.68 | 267.56 | 312.90 | 348.52 | – | – |
| 4500 | 89.30 | 104.62 | 119.81 | 136.11 | 154.22 | 171.81 | 188.87 | 205.35 | 221.22 | 236.45 | 264.85 | 290.27 | 331.96 | – | – | – |
| 4500 | 98.77 | 115.81 | 132.66 | 149.67 | 167.81 | 186.39 | 204.20 | 221.20 | 237.32 | 252.54 | 280.02 | 307.21 | – | – | – | – |
| 5000 | 108.00 | 126.71 | 145.18 | 163.46 | 181.55 | 199.44 | 217.15 | 234.62 | 251.85 | 268.89 | 302.26 | 334.68 | – | – | – | – |
| 5500 | 117.00 | 137.28 | 157.37 | 177.17 | 196.78 | 216.06 | 235.14 | 253.95 | 272.46 | 290.69 | 326.30 | – | – | – | – | – |

# Selection

## HT250 Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 14M-40 | 40 mm Width - Current Power Ratings Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 64 | 72 | 80 |
| | 4.912 | 5.088 | 5.263 | 5.614 | 5.965 | 6.316 | 6.667 | 7.018 | 7.720 | 8.421 | 9.123 | 9.825 | 11.229 | 12.632 | 14.036 |
| 10 | 0.61 | 0.64 | 0.66 | 0.71 | 0.76 | 0.82 | 0.87 | 0.92 | 1.02 | 1.12 | 1.21 | 1.31 | 1.51 | 1.70 | 1.89 |
| 20 | 1.15 | 1.20 | 1.25 | 1.34 | 1.44 | 1.54 | 1.63 | 1.73 | 1.92 | 2.10 | 2.29 | 2.48 | 2.85 | 3.21 | 3.57 |
| 40 | 2.15 | 2.24 | 2.33 | 2.52 | 2.70 | 2.88 | 3.06 | 3.24 | 3.60 | 3.96 | 4.31 | 4.66 | 5.36 | 6.04 | 6.72 |
| 60 | 3.09 | 3.23 | 3.36 | 3.63 | 3.89 | 4.16 | 4.42 | 4.68 | 5.20 | 5.71 | 6.22 | 6.73 | 7.74 | 8.73 | 9.97 |
| 100 | 4.89 | 5.10 | 5.31 | 5.74 | 6.16 | 6.58 | 7.00 | 7.41 | 8.24 | 9.06 | 9.87 | 10.68 | 12.45 | 14.53 | 16.61 |
| 200 | 9.04 | 9.44 | 9.84 | 10.63 | 11.43 | 12.21 | 12.99 | 13.77 | 15.32 | 16.85 | 18.62 | 20.70 | 24.85 | 29.00 | 33.14 |
| 300 | 12.91 | 13.49 | 14.06 | 15.21 | 16.35 | 17.48 | 18.61 | 19.73 | 21.96 | 24.78 | 27.88 | 30.99 | 37.18 | 43.36 | 49.52 |
| 400 | 16.60 | 17.35 | 18.09 | 19.58 | 21.05 | 22.52 | 23.98 | 25.43 | 28.83 | 32.95 | 37.08 | 41.19 | 49.39 | 57.55 | 65.66 |
| 500 | 20.15 | 21.06 | 21.97 | 23.79 | 25.59 | 27.38 | 29.16 | 30.92 | 35.93 | 41.07 | 46.18 | 51.28 | 61.43 | 71.50 | 81.48 |
| 600 | 23.59 | 24.67 | 25.74 | 27.87 | 29.99 | 32.09 | 34.18 | 36.84 | 42.98 | 49.09 | 55.18 | 61.24 | 73.27 | 85.17 | 96.91 |
| 700 | 26.94 | 28.17 | 29.40 | 31.85 | 34.27 | 36.68 | 39.26 | 42.83 | 49.94 | 57.01 | 64.05 | 71.04 | 84.88 | 98.49 | 111.87 |
| 800 | 30.20 | 31.60 | 32.98 | 35.73 | 38.46 | 41.17 | 44.70 | 48.75 | 56.81 | 64.82 | 72.77 | 80.65 | 96.19 | 111.42 | 126.28 |
| 870 | 32.45 | 33.95 | 35.43 | 38.40 | 41.33 | 44.25 | 48.47 | 52.85 | 61.56 | 70.20 | 78.77 | 87.25 | 103.93 | 120.19 | 135.99 |
| 1000 | 36.53 | 38.23 | 39.91 | 43.25 | 46.57 | 50.37 | 55.37 | 60.35 | 70.23 | 80.00 | 89.66 | 99.19 | 117.82 | 135.83 | 153.12 |
| 1160 | 41.42 | 43.35 | 45.26 | 49.06 | 52.83 | 57.94 | 63.66 | 69.34 | 80.59 | 91.67 | 102.56 | 113.25 | 133.98 | 153.72 | 172.36 |
| 1200 | 42.62 | 44.61 | 46.57 | 50.49 | 54.37 | 59.81 | 65.70 | 71.55 | 83.12 | 94.51 | 105.69 | 116.65 | 137.84 | 157.94 | 176.82 |
| 1400 | 48.50 | 50.77 | 53.02 | 57.48 | 62.12 | 68.90 | 75.62 | 82.28 | 95.39 | 108.20 | 120.68 | 132.81 | 155.92 | 177.30 | 196.73 |
| 1600 | 54.20 | 56.74 | 59.25 | 64.25 | 70.03 | 77.60 | 85.08 | 92.46 | 106.92 | 120.93 | 134.46 | 147.47 | 171.74 | 193.44 | 212.24 |
| 1750 | 58.36 | 61.09 | 63.80 | 69.18 | 75.71 | 83.82 | 91.82 | 99.68 | 115.02 | 129.77 | 143.90 | 157.33 | 181.94 | 203.16 | 220.59 |
| 2000 | 65.08 | 68.14 | 71.16 | 77.15 | 84.64 | 93.55 | 102.30 | 110.85 | 127.36 | 143.00 | 157.69 | 171.37 | 195.33 | – | – |
| 2400 | 75.33 | 78.87 | 82.36 | 89.27 | 97.31 | 107.21 | 116.81 | 126.09 | 143.60 | 159.62 | 174.01 | 186.62 | – | – | – |
| 2800 | 84.99 | 88.97 | 92.88 | 100.63 | 108.23 | 118.12 | 128.09 | 137.55 | 154.82 | 169.72 | – | – | – | – | – |
| 3000 | 89.60 | 93.78 | 97.89 | 106.02 | 113.98 | 122.39 | 132.34 | 141.66 | 158.28 | – | – | – | – | – | – |
| 3500 | 100.49 | 105.13 | 109.69 | 118.65 | 127.38 | 135.86 | 144.09 | 152.07 | – | – | – | – | – | – | – |
| 4000 | 110.45 | 115.48 | 120.40 | 130.03 | 139.34 | 148.31 | – | – | – | – | – | – | – | – | – |

| 14M-55 | 55 mm Width - Current Power Ratings Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 64 | 72 | 80 |
| | 4.912 | 5.088 | 5.263 | 5.614 | 5.965 | 6.316 | 6.667 | 7.018 | 7.720 | 8.421 | 9.123 | 9.825 | 11.229 | 12.632 | 14.036 |
| 10 | 0.92 | 0.96 | 0.99 | 1.07 | 1.14 | 1.23 | 1.31 | 1.38 | 1.53 | 1.68 | 1.82 | 1.97 | 2.27 | 2.55 | 2.84 |
| 20 | 1.73 | 1.80 | 1.88 | 2.01 | 2.16 | 2.31 | 2.45 | 2.60 | 2.88 | 3.15 | 3.44 | 3.72 | 4.28 | 4.82 | 5.36 |
| 40 | 3.23 | 3.36 | 3.50 | 3.78 | 4.05 | 4.32 | 4.59 | 4.86 | 5.40 | 5.94 | 6.47 | 6.99 | 8.04 | 9.06 | 10.08 |
| 60 | 4.64 | 4.85 | 5.04 | 5.45 | 5.84 | 6.24 | 6.63 | 7.02 | 7.80 | 8.57 | 9.33 | 10.10 | 11.61 | 13.10 | 14.57 |
| 100 | 7.34 | 7.65 | 8.61 | 8.61 | 9.24 | 9.87 | 10.50 | 11.12 | 12.36 | 13.59 | 14.81 | 16.02 | 18.41 | 20.78 | 23.12 |
| 200 | 13.56 | 14.16 | 15.95 | 15.95 | 17.15 | 18.32 | 19.49 | 20.66 | 22.98 | 25.28 | 27.56 | 29.82 | 34.29 | 39.88 | 45.57 |
| 300 | 19.37 | 20.24 | 22.82 | 22.82 | 24.53 | 26.22 | 27.92 | 29.60 | 32.94 | 36.24 | 39.51 | 42.77 | 51.12 | 59.62 | 68.09 |
| 400 | 24.90 | 26.03 | 29.37 | 29.37 | 31.58 | 33.78 | 35.97 | 38.15 | 42.45 | 46.73 | 50.98 | 56.63 | 67.91 | 79.13 | 90.28 |
| 500 | 30.23 | 31.59 | 35.69 | 35.69 | 38.39 | 41.07 | 43.74 | 46.38 | 51.65 | 56.85 | 63.50 | 70.51 | 84.47 | 98.31 | 112.04 |
| 600 | 35.39 | 37.01 | 41.81 | 41.81 | 44.99 | 48.14 | 51.27 | 54.39 | 60.57 | 67.50 | 75.87 | 84.21 | 100.75 | 117.11 | 133.26 |
| 700 | 40.41 | 42.26 | 47.78 | 47.78 | 51.41 | 55.02 | 58.62 | 62.19 | 69.26 | 78.40 | 88.07 | 97.68 | 116.70 | 135.43 | 153.82 |
| 800 | 45.30 | 47.40 | 53.60 | 53.60 | 57.69 | 61.76 | 65.79 | 69.80 | 78.12 | 89.13 | 100.05 | 110.89 | 132.27 | 153.20 | 173.63 |
| 870 | 48.68 | 50.93 | 57.60 | 57.60 | 62.00 | 66.38 | 70.71 | 75.03 | 84.65 | 96.53 | 108.30 | 119.96 | 142.90 | 165.27 | 186.99 |
| 1000 | 54.80 | 57.35 | 64.88 | 64.88 | 69.86 | 74.79 | 79.68 | 84.54 | 96.57 | 110.01 | 123.28 | 136.39 | 162.01 | 186.76 | 210.54 |
| 1160 | 62.13 | 65.03 | 73.59 | 73.59 | 79.25 | 84.86 | 90.42 | 95.93 | 110.81 | 126.04 | 141.02 | 155.73 | 184.22 | 211.37 | 236.99 |
| 1200 | 63.93 | 66.92 | 75.74 | 75.74 | 81.56 | 87.33 | 93.05 | 98.72 | 114.29 | 129.95 | 145.32 | 160.39 | 189.53 | 217.17 | 243.12 |
| 1400 | 72.75 | 76.16 | 86.22 | 86.22 | 92.85 | 99.42 | 105.93 | 113.14 | 131.16 | 148.77 | 165.94 | 182.62 | 214.39 | 243.79 | 270.51 |
| 1600 | 81.30 | 85.11 | 96.38 | 96.38 | 103.79 | 111.12 | 118.38 | 127.13 | 147.01 | 166.28 | 184.88 | 202.77 | 236.15 | 265.98 | 291.82 |
| 1750 | 87.54 | 91.64 | 103.77 | 103.77 | 111.75 | 119.64 | 127.44 | 137.07 | 158.15 | 178.44 | 197.86 | 216.33 | 250.16 | 279.35 | 303.31 |
| 2000 | 97.62 | 102.21 | 115.73 | 115.73 | 124.61 | 133.38 | 142.04 | 152.42 | 175.12 | 196.62 | 216.83 | 235.63 | 268.57 | – | – |
| 2400 | 113.00 | 118.31 | 133.91 | 133.91 | 144.12 | 154.17 | 164.07 | 173.79 | 197.46 | 219.48 | 239.26 | 256.61 | – | – | – |
| 2800 | 127.49 | 133.46 | 150.95 | 150.95 | 162.35 | 173.52 | 184.47 | 195.20 | 215.97 | 235.76 | – | – | – | – | – |
| 3000 | 134.40 | 140.67 | 159.03 | 159.03 | 170.97 | 182.64 | 194.06 | 205.22 | 226.70 | – | – | – | – | – | – |
| 3500 | 150.74 | 157.70 | 177.98 | 177.98 | 191.07 | 203.79 | 216.14 | 228.11 | – | – | – | – | – | – | – |
| 4000 | 165.68 | 173.22 | 195.05 | 195.05 | 209.01 | 222.47 | – | – | – | – | – | – | – | – | – |

# Selection

## HT250 Basic Horsepower Rating

| 14M-85 | 85 mm Width - Current Power Ratings Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 64 | 72 | 80 |
| | 4.912 | 5.088 | 5.263 | 5.614 | 5.965 | 6.316 | 6.667 | 7.018 | 7.720 | 8.421 | 9.123 | 9.825 | 11.229 | 12.632 | 14.036 |
| 10 | 1.53 | 1.60 | 1.65 | 1.78 | 1.90 | 2.05 | 2.18 | 2.30 | 2.55 | 2.80 | 3.03 | 3.28 | 3.78 | 4.25 | 4.73 |
| 20 | 2.88 | 3.00 | 3.13 | 3.35 | 3.60 | 3.85 | 4.08 | 4.33 | 4.80 | 5.25 | 5.73 | 6.20 | 7.13 | 8.03 | 8.93 |
| 40 | 5.38 | 5.60 | 5.83 | 6.30 | 6.75 | 7.20 | 7.65 | 8.10 | 9.00 | 9.90 | 10.78 | 11.65 | 13.40 | 15.10 | 16.80 |
| 60 | 7.73 | 8.08 | 8.40 | 9.08 | 9.73 | 10.40 | 11.05 | 11.70 | 13.00 | 14.28 | 15.55 | 16.83 | 19.35 | 21.83 | 24.28 |
| 100 | 12.23 | 12.75 | 13.28 | 14.35 | 15.40 | 16.45 | 17.50 | 18.53 | 20.60 | 22.65 | 24.68 | 26.70 | 30.68 | 34.63 | 38.53 |
| 200 | 22.60 | 23.60 | 24.60 | 26.58 | 28.58 | 30.53 | 32.48 | 34.43 | 38.30 | 42.13 | 45.93 | 49.70 | 57.15 | 64.50 | 71.78 |
| 300 | 32.28 | 33.73 | 35.15 | 38.03 | 40.88 | 43.70 | 46.53 | 49.33 | 54.90 | 60.40 | 65.85 | 71.28 | 81.98 | 92.53 | 105.23 |
| 400 | 41.50 | 43.38 | 45.23 | 48.95 | 52.63 | 56.30 | 59.95 | 63.58 | 70.75 | 77.88 | 84.93 | 91.93 | 105.73 | 122.28 | 139.53 |
| 500 | 50.38 | 52.65 | 54.93 | 59.48 | 63.98 | 68.45 | 72.90 | 77.30 | 86.08 | 94.75 | 103.33 | 111.83 | 130.54 | 151.94 | 173.15 |
| 600 | 58.98 | 61.68 | 64.35 | 69.68 | 74.98 | 80.23 | 85.45 | 90.65 | 100.95 | 111.10 | 121.18 | 131.15 | 155.71 | 180.99 | 205.94 |
| 700 | 67.35 | 70.43 | 73.50 | 79.63 | 85.68 | 91.70 | 97.70 | 103.65 | 115.43 | 127.05 | 138.58 | 150.96 | 180.36 | 209.30 | 237.73 |
| 800 | 75.50 | 79.00 | 82.45 | 89.33 | 96.15 | 102.93 | 109.65 | 116.33 | 129.58 | 142.63 | 155.53 | 171.38 | 204.41 | 236.76 | 268.34 |
| 870 | 81.13 | 84.88 | 88.58 | 96.00 | 103.33 | 110.63 | 117.85 | 125.05 | 139.28 | 153.30 | 167.38 | 185.40 | 220.85 | 255.41 | 288.98 |
| 1000 | 91.33 | 95.58 | 99.78 | 108.13 | 116.43 | 124.65 | 132.80 | 140.90 | 156.93 | 172.73 | 190.53 | 210.78 | 250.37 | 288.63 | 325.38 |
| 1160 | 103.55 | 108.38 | 113.15 | 122.65 | 132.08 | 141.43 | 150.70 | 159.88 | 178.05 | 195.90 | 217.94 | 240.67 | 284.71 | 326.66 | 366.26 |
| 1200 | 106.55 | 111.53 | 116.43 | 126.23 | 135.93 | 145.55 | 155.08 | 164.53 | 183.23 | 201.60 | 224.59 | 247.88 | 292.91 | 335.62 | 375.74 |
| 1400 | 121.25 | 126.93 | 132.55 | 143.70 | 154.75 | 165.70 | 176.55 | 187.30 | 208.53 | 229.92 | 256.45 | 282.23 | 331.33 | 376.76 | 418.05 |
| 1600 | 135.50 | 141.85 | 148.13 | 160.63 | 172.98 | 185.20 | 197.30 | 209.30 | 232.88 | 256.98 | 285.73 | 313.37 | 364.96 | 411.06 | 451.00 |
| 1750 | 145.90 | 152.73 | 159.50 | 172.95 | 186.25 | 199.40 | 212.40 | 225.28 | 250.55 | 275.77 | 305.78 | 334.33 | 386.61 | 431.72 | 468.76 |
| 2000 | 162.70 | 170.35 | 177.90 | 192.88 | 207.68 | 222.30 | 236.73 | 250.98 | 278.88 | 306.03 | 335.10 | 364.16 | 415.07 | – | – |
| 2400 | 188.33 | 197.18 | 205.90 | 223.18 | 240.20 | 256.95 | 273.45 | 289.65 | 321.28 | 351.75 | 381.13 | 409.35 | – | – | – |
| 2800 | 212.48 | 222.43 | 232.20 | 251.58 | 270.58 | 289.20 | 307.45 | 325.33 | 359.95 | 392.93 | – | – | – | – | – |
| 3000 | 224.00 | 234.45 | 244.73 | 265.05 | 284.95 | 304.40 | 323.43 | 342.03 | 377.83 | – | – | – | – | – | – |
| 3500 | 251.23 | 262.83 | 274.23 | 296.63 | 318.45 | 339.65 | 360.23 | 380.18 | – | – | – | – | – | – | – |
| 4000 | 276.13 | 288.70 | 301.00 | 325.08 | 348.35 | 370.78 | – | – | – | – | – | – | – | – | – |

| 14M-115 | 115 mm Width - Current Power Ratings Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 64 | 72 | 80 |
| | 4.912 | 5.088 | 5.263 | 5.614 | 5.965 | 6.316 | 6.667 | 7.018 | 7.720 | 8.421 | 9.123 | 9.825 | 11.229 | 12.632 | 14.036 |
| 10 | 2.12 | 2.23 | 2.30 | 2.47 | 2.64 | 2.85 | 3.03 | 3.20 | 3.55 | 3.90 | 4.21 | 4.56 | 5.25 | 5.92 | 6.58 |
| 20 | 4.00 | 4.18 | 4.35 | 4.66 | 5.01 | 5.36 | 5.67 | 6.02 | 6.68 | 7.31 | 7.97 | 8.63 | 9.92 | 11.17 | 12.42 |
| 40 | 7.48 | 7.80 | 8.11 | 8.77 | 9.40 | 10.02 | 10.65 | 11.28 | 12.53 | 13.78 | 15.00 | 16.22 | 18.65 | 21.02 | 23.39 |
| 60 | 10.75 | 11.24 | 11.69 | 12.63 | 13.54 | 14.48 | 15.38 | 16.29 | 18.10 | 19.87 | 21.65 | 23.42 | 26.94 | 30.38 | 33.79 |
| 100 | 17.02 | 17.75 | 18.48 | 19.98 | 21.44 | 22.90 | 24.36 | 25.79 | 28.68 | 31.53 | 34.35 | 37.17 | 42.70 | 48.20 | 53.63 |
| 200 | 31.46 | 32.85 | 34.24 | 36.99 | 39.78 | 42.49 | 45.21 | 47.92 | 53.31 | 58.64 | 63.93 | 69.18 | 79.55 | 89.78 | 99.91 |
| 300 | 44.93 | 46.95 | 48.93 | 52.93 | 56.90 | 60.83 | 64.76 | 68.66 | 76.42 | 84.08 | 91.66 | 99.21 | 114.11 | 128.79 | 143.31 |
| 400 | 57.77 | 60.38 | 62.95 | 68.14 | 73.25 | 78.37 | 83.45 | 88.50 | 98.48 | 108.40 | 118.22 | 127.96 | 147.17 | 166.07 | 188.77 |
| 500 | 70.12 | 73.29 | 76.46 | 82.79 | 89.05 | 95.28 | 101.48 | 107.60 | 119.82 | 131.89 | 143.83 | 155.66 | 179.05 | 205.57 | 234.26 |
| 600 | 82.09 | 85.85 | 89.58 | 96.99 | 104.37 | 111.67 | 118.95 | 126.18 | 140.52 | 154.65 | 168.68 | 182.56 | 210.66 | 244.86 | 278.63 |
| 700 | 93.75 | 98.03 | 102.31 | 110.84 | 119.26 | 127.65 | 136.00 | 144.28 | 160.67 | 176.85 | 192.90 | 208.73 | 244.02 | 283.17 | 321.63 |
| 800 | 105.10 | 109.97 | 114.77 | 124.34 | 133.84 | 143.27 | 152.63 | 161.92 | 180.37 | 198.53 | 216.49 | 234.27 | 276.56 | 320.32 | 363.05 |
| 870 | 112.93 | 118.15 | 123.30 | 133.63 | 143.83 | 153.99 | 164.05 | 174.07 | 193.87 | 213.39 | 232.71 | 251.78 | 298.79 | 345.56 | 390.98 |
| 1000 | 127.12 | 133.04 | 138.89 | 150.51 | 162.06 | 173.51 | 184.86 | 196.13 | 218.44 | 240.43 | 262.11 | 285.17 | 338.74 | 390.50 | 440.23 |
| 1160 | 144.14 | 150.86 | 157.50 | 170.73 | 183.85 | 196.86 | 209.77 | 222.55 | 247.85 | 272.69 | 297.23 | 325.61 | 385.19 | 441.95 | 495.53 |
| 1200 | 148.32 | 155.24 | 162.06 | 175.71 | 189.21 | 202.61 | 215.86 | 229.02 | 255.05 | 280.63 | 305.82 | 335.37 | 396.29 | 454.08 | 508.35 |
| 1400 | 168.78 | 176.68 | 184.51 | 200.03 | 215.41 | 230.65 | 245.76 | 260.72 | 290.27 | 319.22 | 347.69 | 381.84 | 448.27 | 509.73 | 565.60 |
| 1600 | 188.62 | 197.46 | 206.19 | 223.59 | 240.78 | 257.80 | 274.64 | 291.35 | 324.16 | 356.28 | 387.81 | 423.97 | 493.76 | 556.14 | 610.18 |
| 1750 | 203.09 | 212.59 | 222.02 | 240.75 | 259.26 | 277.56 | 295.66 | 313.58 | 348.77 | 383.15 | 416.73 | 452.33 | 523.06 | 584.09 | 634.20 |
| 2000 | 226.48 | 237.13 | 247.64 | 268.48 | 289.08 | 309.44 | 329.52 | 349.36 | 388.19 | 425.99 | 462.77 | 498.48 | 566.65 | – | – |
| 2400 | 262.15 | 274.47 | 286.61 | 310.66 | 334.36 | 357.67 | 380.64 | 403.19 | 447.21 | 489.64 | 530.53 | 569.82 | – | – | – |
| 2800 | 295.77 | 309.62 | 323.22 | 350.19 | 376.64 | 402.57 | 427.97 | 452.85 | 501.05 | 546.95 | – | – | – | – | – |
| 3000 | 311.81 | 326.35 | 340.66 | 368.95 | 396.65 | 423.72 | 450.21 | 476.10 | 525.93 | – | – | – | – | – | – |
| 3500 | 349.71 | 365.85 | 381.72 | 412.90 | 443.28 | 472.79 | 501.43 | 529.20 | – | – | – | – | – | – | – |
| 4000 | 384.37 | 401.87 | 418.99 | 452.50 | 484.90 | 516.12 | – | – | – | – | – | – | – | – | – |

# Selection

## HT250 Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 14M-170 | 170 mm Width - Current Power Ratings<br>Rated Horsepower for Small Sprocket | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RPM** | **28**<br>**4.912** | **29**<br>**5.088** | **30**<br>**5.263** | **32**<br>**5.614** | **34**<br>**5.965** | **36**<br>**6.316** | **38**<br>**6.667** | **40**<br>**7.018** | **44**<br>**7.720** | **48**<br>**8.421** | **52**<br>**9.123** | **56**<br>**9.825** | **64**<br>**11.229** | **72**<br>**12.632** | **80**<br>**14.036** |
| 10 | 3.23 | 3.39 | 3.49 | 3.76 | 4.02 | 4.34 | 4.60 | 4.87 | 5.40 | 5.92 | 6.40 | 6.93 | 7.99 | 8.99 | 10.00 |
| 20 | 6.08 | 6.35 | 6.61 | 7.09 | 7.62 | 8.15 | 8.62 | 9.15 | 10.16 | 11.11 | 12.11 | 13.12 | 15.08 | 16.98 | 18.89 |
| 40 | 11.37 | 11.85 | 12.33 | 13.33 | 14.28 | 15.24 | 16.19 | 17.14 | 19.04 | 20.95 | 22.80 | 24.65 | 28.35 | 31.95 | 35.55 |
| 60 | 16.35 | 17.09 | 17.77 | 19.20 | 20.58 | 22.01 | 23.38 | 24.76 | 27.51 | 30.21 | 32.90 | 35.60 | 40.94 | 46.18 | 51.37 |
| 100 | 25.87 | 26.98 | 28.09 | 30.36 | 32.59 | 34.81 | 37.03 | 39.20 | 43.59 | 47.93 | 52.21 | 56.50 | 64.91 | 73.27 | 81.52 |
| 200 | 47.82 | 49.94 | 52.05 | 56.23 | 60.46 | 64.59 | 68.72 | 72.84 | 81.04 | 89.14 | 97.18 | 105.17 | 120.93 | 136.48 | 151.88 |
| 300 | 68.29 | 71.36 | 74.38 | 80.46 | 86.49 | 92.47 | 98.45 | 104.37 | 116.17 | 127.81 | 139.34 | 150.82 | 173.46 | 195.78 | 217.84 |
| 400 | 87.81 | 91.78 | 95.70 | 103.58 | 111.35 | 119.13 | 126.85 | 134.52 | 149.71 | 164.78 | 179.70 | 194.51 | 223.71 | 252.44 | 280.85 |
| 500 | 106.59 | 111.41 | 116.22 | 125.85 | 135.37 | 144.84 | 154.26 | 163.57 | 182.13 | 200.49 | 218.64 | 236.62 | 272.17 | 307.08 | 346.30 |
| 600 | 124.79 | 130.50 | 136.16 | 147.43 | 158.65 | 169.76 | 180.81 | 191.82 | 213.61 | 235.09 | 256.41 | 277.51 | 319.15 | 361.97 | 411.88 |
| 700 | 142.51 | 149.02 | 155.53 | 168.49 | 181.29 | 194.04 | 206.73 | 219.32 | 244.24 | 268.84 | 293.22 | 317.29 | 364.80 | 418.60 | 475.45 |
| 800 | 159.76 | 167.16 | 174.46 | 189.01 | 203.45 | 217.79 | 232.02 | 246.14 | 274.18 | 301.79 | 329.09 | 356.12 | 409.29 | 473.52 | 536.68 |
| 870 | 171.66 | 179.60 | 187.42 | 203.14 | 218.64 | 234.08 | 249.37 | 264.61 | 294.71 | 324.38 | 353.74 | 382.73 | 441.69 | 510.82 | 577.97 |
| 1000 | 193.24 | 202.24 | 211.12 | 228.79 | 246.36 | 263.76 | 281.00 | 298.14 | 332.05 | 365.49 | 398.44 | 431.03 | 500.75 | 577.26 | 650.77 |
| 1160 | 219.11 | 229.32 | 239.43 | 259.53 | 279.47 | 299.26 | 318.88 | 338.30 | 376.75 | 414.52 | 451.82 | 488.53 | 569.42 | 653.32 | 732.53 |
| 1200 | 225.46 | 235.99 | 246.36 | 267.09 | 287.62 | 307.98 | 328.14 | 348.13 | 387.70 | 426.59 | 464.89 | 502.60 | 585.82 | 671.25 | 751.47 |
| 1400 | 256.57 | 268.57 | 280.48 | 304.07 | 327.45 | 350.62 | 373.58 | 396.33 | 441.24 | 485.25 | 528.52 | 571.06 | 662.66 | 753.52 | 836.11 |
| 1600 | 286.72 | 300.15 | 313.43 | 339.88 | 366.02 | 391.88 | 417.49 | 442.88 | 492.76 | 541.59 | 589.52 | 636.39 | 729.91 | 822.12 | 902.00 |
| 1750 | 308.72 | 323.17 | 337.50 | 365.96 | 394.11 | 421.93 | 449.44 | 476.68 | 530.16 | 582.43 | 633.48 | 683.36 | 779.48 | 870.42 | 956.17 |
| 2000 | 344.27 | 360.46 | 376.44 | 408.12 | 439.44 | 470.39 | 500.91 | 531.06 | 590.10 | 647.55 | 703.46 | 757.74 | 861.37 | – | – |
| 2400 | 398.50 | 417.22 | 435.68 | 472.24 | 508.26 | 543.71 | 578.62 | 612.90 | 679.82 | 744.30 | 806.46 | 866.18 | – | – | – |
| 2800 | 449.60 | 470.65 | 491.34 | 532.33 | 572.54 | 611.95 | 650.56 | 688.39 | 761.65 | 831.43 | – | – | – | – | – |
| 3000 | 473.98 | 496.10 | 517.84 | 560.85 | 602.95 | 644.11 | 684.37 | 723.72 | 799.48 | – | – | – | – | – | – |
| 3500 | 531.59 | 556.14 | 580.26 | 627.66 | 673.84 | 718.70 | 762.24 | 804.45 | – | – | – | – | – | – | – |
| 4000 | 584.28 | 610.89 | 636.92 | 687.86 | 737.11 | 784.56 | – | – | – | – | – | – | – | – | – |

# Selection

## 5 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 300-5M | 355-5M | 375-5M | 400-5M | 425-5M | 450-5M | 550-5M | 535-5M | 565-5M | 600-5M | 650-5M | 700-5M | 750-5M | 800-5M | 900-5M | 1000-5M | 1150-5M | 1300-5M | 1450-5M | 1600-5M | 1720-5M | 2100-5M |
| | No. of Teeth | Pitch Dia. In. | No. of Teeth | Pitch Dia. In. | | | | | | | | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **0.77** | **0.81** | **0.83** | **0.84** | **0.86** | **0.88** | **0.90** | **0.92** | **0.94** | **0.95** | **0.98** | **1.00** | **1.01** | **1.03** | **1.06** | **1.09** | **1.13** | **1.16** | **1.19** | **1.22** | **1.24** | **1.29** |
| 1.00 | 32 | 2.005 | 32 | 2.005 | 2.76 | 3.84 | 4.23 | 4.73 | 5.22 | 5.71 | 6.69 | 7.38 | 7.97 | 8.66 | 9.65 | 10.63 | 11.62 | 12.60 | 14.57 | 16.54 | 19.49 | 22.44 | 25.40 | 28.35 | 30.71 | 38.19 |
| 1.00 | 34 | 2.130 | 34 | 2.130 | 2.56 | 3.64 | 4.03 | 4.53 | 5.02 | 5.51 | 6.49 | 7.18 | 7.77 | 8.46 | 9.45 | 10.43 | 11.42 | 12.40 | 14.37 | 16.34 | 19.29 | 22.24 | 25.20 | 28.15 | 30.51 | 37.99 |
| 1.00 | 36 | 2.256 | 36 | 2.256 | – | 3.45 | 3.84 | 4.33 | 4.82 | 5.32 | 6.30 | 6.99 | 7.58 | 8.27 | 9.25 | 10.24 | 11.22 | 12.21 | 14.17 | 16.14 | 19.10 | 22.05 | 25.00 | 27.95 | 30.32 | 37.80 |
| 1.00 | 38 | 2.381 | 38 | 2.381 | – | 3.25 | 3.64 | 4.13 | 4.62 | 5.12 | 6.10 | 6.79 | 7.38 | 8.07 | 9.05 | 10.04 | 11.02 | 12.01 | 13.97 | 15.94 | 18.90 | 21.85 | 24.80 | 27.75 | 30.12 | 37.60 |
| 1.00 | 40 | 2.506 | 40 | 2.506 | – | 3.05 | 3.44 | 3.94 | 4.43 | 4.92 | 5.90 | 6.59 | 7.18 | 7.87 | 8.86 | 9.84 | 10.83 | 11.81 | 13.78 | 15.75 | 18.70 | 21.65 | 24.61 | 27.56 | 29.92 | 37.40 |
| 1.00 | 44 | 2.757 | 44 | 2.757 | – | – | – | 3.54 | 4.03 | 4.53 | 5.51 | 6.20 | 6.79 | 7.48 | 8.46 | 9.45 | 10.43 | 11.42 | 13.38 | 15.35 | 18.31 | 21.26 | 24.21 | 27.16 | 29.53 | 37.01 |
| 1.00 | 48 | 3.008 | 48 | 3.008 | – | – | – | – | 3.64 | 4.14 | 5.12 | 5.81 | 6.40 | 7.09 | 8.07 | 9.06 | 10.04 | 11.03 | 12.99 | 14.96 | 17.92 | 20.87 | 23.82 | 26.77 | 29.14 | 36.62 |
| 1.00 | 52 | 3.258 | 52 | 3.258 | – | – | – | – | – | 3.74 | 4.72 | 5.41 | 6.00 | 6.69 | 7.68 | 8.66 | 9.65 | 10.63 | 12.60 | 14.57 | 17.52 | 20.47 | 23.43 | 26.38 | 28.74 | 36.22 |
| 1.00 | 56 | 3.509 | 56 | 3.509 | – | – | – | – | – | – | 4.33 | 5.02 | 5.61 | 6.30 | 7.28 | 8.27 | 9.25 | 10.24 | 12.20 | 14.17 | 17.13 | 20.08 | 23.03 | 25.98 | 28.35 | 35.83 |
| 1.00 | 60 | 3.760 | 60 | 3.760 | – | – | – | – | – | – | – | 4.62 | 5.21 | 5.90 | 6.89 | 7.87 | 8.86 | 9.84 | 11.81 | 13.78 | 16.73 | 19.68 | 22.64 | 25.59 | 27.95 | 35.43 |
| 1.00 | 64 | 4.010 | 64 | 4.010 | – | – | – | – | – | – | – | – | 4.82 | 5.51 | 6.50 | 7.48 | 8.47 | 9.45 | 11.42 | 13.39 | 16.34 | 19.29 | 22.25 | 25.20 | 27.56 | 35.04 |
| 1.00 | 68 | 4.261 | 68 | 4.261 | – | – | – | – | – | – | – | – | – | 5.12 | 6.10 | 7.09 | 8.07 | 9.06 | 11.02 | 12.99 | 15.95 | 18.90 | 21.85 | 24.80 | 27.17 | 34.65 |
| 1.04 | 50 | 3.133 | 52 | 3.258 | – | – | – | – | – | 3.84 | 4.82 | 5.51 | 6.10 | 6.79 | 7.78 | 8.76 | 9.75 | 10.73 | 12.70 | 14.67 | 17.62 | 20.57 | 23.53 | 26.48 | 28.84 | 36.32 |
| 1.05 | 38 | 2.381 | 40 | 2.506 | – | 3.15 | 3.54 | 4.04 | 4.53 | 5.02 | 6.00 | 6.69 | 7.28 | 7.97 | 8.96 | 9.94 | 10.93 | 11.91 | 13.88 | 15.85 | 18.80 | 21.75 | 24.71 | 27.66 | 30.02 | 37.50 |
| 1.06 | 36 | 2.256 | 38 | 2.381 | – | 3.35 | 3.74 | 4.23 | 4.72 | 5.22 | 6.20 | 6.89 | 7.48 | 8.17 | 9.15 | 10.14 | 11.12 | 12.11 | 14.07 | 16.04 | 19.00 | 21.95 | 24.90 | 27.85 | 30.22 | 37.70 |
| 1.06 | 34 | 2.130 | 36 | 2.256 | – | 3.54 | 3.93 | 4.43 | 4.92 | 5.41 | 6.39 | 7.08 | 7.67 | 8.37 | 9.35 | 10.34 | 11.32 | 12.31 | 14.27 | 16.24 | 19.20 | 22.15 | 25.10 | 28.05 | 30.42 | 37.90 |
| 1.06 | 68 | 4.261 | 72 | 4.511 | – | – | – | – | – | – | – | – | – | 4.92 | 5.90 | 6.89 | 7.87 | 8.86 | 10.82 | 12.79 | 15.75 | 18.70 | 21.66 | 24.61 | 26.97 | 34.45 |
| 1.06 | 32 | 2.005 | 34 | 2.130 | 2.66 | 3.74 | 4.13 | 4.63 | 5.12 | 5.61 | 6.59 | 7.28 | 7.87 | 8.56 | 9.55 | 10.53 | 11.52 | 12.50 | 14.47 | 16.44 | 19.39 | 22.34 | 25.30 | 28.25 | 30.61 | 38.09 |
| 1.06 | 64 | 4.010 | 68 | 4.261 | – | – | – | – | – | – | – | – | 4.62 | 5.31 | 6.30 | 7.28 | 8.27 | 9.25 | 11.22 | 13.19 | 16.14 | 19.09 | 22.05 | 25.00 | 27.36 | 34.84 |
| 1.07 | 60 | 3.760 | 64 | 4.010 | – | – | – | – | – | – | – | 4.43 | 5.02 | 5.71 | 6.69 | 7.68 | 8.66 | 9.65 | 11.61 | 13.58 | 16.54 | 19.49 | 22.44 | 25.39 | 27.76 | 35.24 |
| 1.07 | 56 | 3.509 | 60 | 3.760 | – | – | – | – | – | – | 4.13 | 4.82 | 5.41 | 6.10 | 7.08 | 8.07 | 9.06 | 10.04 | 12.01 | 13.98 | 16.93 | 19.88 | 22.84 | 25.79 | 28.15 | 35.63 |
| 1.08 | 52 | 3.258 | 56 | 3.509 | – | – | – | – | – | – | 4.52 | 5.21 | 5.80 | 6.49 | 7.48 | 8.46 | 9.45 | 10.43 | 12.40 | 14.37 | 17.32 | 20.27 | 23.23 | 26.18 | 28.54 | 36.02 |
| 1.08 | 48 | 3.008 | 52 | 3.258 | – | – | – | – | – | 3.94 | 4.92 | 5.61 | 6.20 | 6.89 | 7.87 | 8.86 | 9.84 | 10.83 | 12.79 | 14.76 | 17.72 | 20.67 | 23.62 | 26.57 | 28.94 | 36.42 |
| 1.09 | 44 | 2.757 | 48 | 3.008 | – | – | – | 3.34 | 3.84 | 4.33 | 5.31 | 6.00 | 6.59 | 7.28 | 8.27 | 9.25 | 10.24 | 11.22 | 13.19 | 15.16 | 18.11 | 21.06 | 24.02 | 26.97 | 29.33 | 36.81 |
| 1.10 | 40 | 2.506 | 44 | 2.757 | – | – | 3.24 | 3.74 | 4.23 | 4.72 | 5.71 | 6.40 | 6.99 | 7.68 | 8.66 | 9.65 | 10.63 | 11.62 | 13.58 | 15.55 | 18.51 | 21.46 | 24.41 | 27.36 | 29.73 | 37.21 |
| 1.11 | 36 | 2.256 | 40 | 2.506 | – | 3.25 | 3.64 | 4.13 | 4.62 | 5.12 | 6.10 | 6.79 | 7.38 | 8.07 | 9.05 | 10.04 | 11.02 | 12.01 | 13.97 | 15.94 | 18.90 | 21.85 | 24.80 | 27.75 | 30.12 | 37.60 |
| 1.12 | 34 | 2.130 | 38 | 2.381 | – | 3.44 | 3.84 | 4.33 | 4.82 | 5.32 | 6.30 | 6.99 | 7.58 | 8.27 | 9.25 | 10.24 | 11.22 | 12.21 | 14.17 | 16.14 | 19.10 | 22.05 | 25.00 | 27.95 | 30.32 | 37.80 |
| 1.13 | 32 | 2.005 | 36 | 2.256 | 2.56 | 3.64 | 4.03 | 4.53 | 5.02 | 5.51 | 6.49 | 7.18 | 7.77 | 8.46 | 9.45 | 10.43 | 11.42 | 12.40 | 14.37 | 16.34 | 19.29 | 22.24 | 25.20 | 28.15 | 30.51 | 37.99 |
| 1.13 | 64 | 4.010 | 72 | 4.511 | – | – | – | – | – | – | – | – | 4.42 | 5.11 | 6.10 | 7.08 | 8.07 | 9.05 | 11.02 | 12.99 | 15.95 | 18.90 | 21.85 | 24.80 | 27.17 | 34.65 |
| 1.13 | 60 | 3.760 | 68 | 4.261 | – | – | – | – | – | – | – | – | 4.81 | 5.50 | 6.49 | 7.48 | 8.46 | 9.45 | 11.41 | 13.38 | 16.34 | 19.29 | 22.24 | 25.19 | 27.56 | 35.04 |
| 1.14 | 56 | 3.509 | 64 | 4.010 | – | – | – | – | – | – | – | 4.62 | 5.21 | 5.90 | 6.89 | 7.87 | 8.86 | 9.84 | 11.81 | 13.78 | 16.73 | 19.68 | 22.64 | 25.59 | 27.95 | 35.43 |
| 1.15 | 52 | 3.258 | 60 | 3.760 | – | – | – | – | – | – | 4.32 | 5.01 | 5.60 | 6.29 | 7.28 | 8.26 | 9.25 | 10.23 | 12.20 | 14.17 | 17.13 | 20.08 | 23.03 | 25.98 | 28.35 | 35.83 |
| 1.16 | 38 | 2.381 | 44 | 2.757 | – | 2.95 | 3.34 | 3.84 | 4.33 | 4.82 | 5.80 | 6.49 | 7.08 | 7.77 | 8.76 | 9.74 | 10.73 | 11.71 | 13.68 | 15.65 | 18.60 | 21.55 | 24.51 | 27.46 | 29.82 | 37.30 |
| 1.17 | 48 | 3.008 | 56 | 3.509 | – | – | – | – | – | 3.73 | 4.71 | 5.41 | 6.00 | 6.69 | 7.67 | 8.66 | 9.64 | 10.63 | 12.59 | 14.56 | 17.52 | 20.47 | 23.43 | 26.38 | 28.74 | 36.22 |
| 1.18 | 34 | 2.130 | 40 | 2.506 | – | 3.34 | 3.73 | 4.23 | 4.72 | 5.22 | 6.20 | 6.89 | 7.48 | 8.17 | 9.15 | 10.14 | 11.12 | 12.11 | 14.07 | 16.04 | 19.00 | 21.95 | 24.90 | 27.85 | 30.22 | 37.70 |
| 1.18 | 68 | 4.261 | 80 | 5.013 | – | – | – | – | – | – | – | – | – | – | 5.50 | 6.49 | 7.47 | 8.46 | 10.42 | 12.40 | 15.35 | 18.30 | 21.26 | 24.21 | 26.57 | 34.05 |
| 1.18 | 44 | 2.757 | 52 | 3.258 | – | – | – | – | 3.63 | 4.13 | 5.11 | 5.80 | 6.39 | 7.08 | 8.07 | 9.05 | 10.04 | 11.02 | 12.99 | 14.96 | 17.91 | 20.86 | 23.82 | 26.77 | 29.13 | 36.61 |
| 1.19 | 32 | 2.005 | 38 | 2.381 | – | 3.54 | 3.93 | 4.43 | 4.92 | 5.41 | 6.39 | 7.08 | 7.67 | 8.36 | 9.35 | 10.33 | 11.32 | 12.30 | 14.27 | 16.24 | 19.19 | 22.14 | 25.10 | 28.05 | 30.41 | 37.89 |
| 1.20 | 40 | 2.506 | 48 | 3.008 | – | – | – | 3.54 | 4.03 | 4.52 | 5.50 | 6.19 | 6.78 | 7.48 | 8.46 | 9.45 | 10.43 | 11.42 | 13.38 | 15.35 | 18.31 | 21.26 | 24.21 | 27.16 | 29.53 | 37.01 |
| 1.20 | 60 | 3.760 | 72 | 4.511 | – | – | – | – | – | – | – | – | 4.61 | 5.30 | 6.29 | 7.27 | 8.26 | 9.25 | 11.21 | 13.18 | 16.14 | 19.09 | 22.05 | 25.00 | 27.36 | 34.84 |
| 1.21 | 56 | 3.509 | 68 | 4.261 | – | – | – | – | – | – | – | 4.41 | 5.00 | 5.70 | 6.68 | 7.67 | 8.65 | 9.64 | 11.61 | 13.58 | 16.53 | 19.48 | 22.44 | 25.39 | 27.75 | 35.24 |
| 1.22 | 36 | 2.256 | 44 | 2.757 | – | 3.04 | 3.43 | 3.93 | 4.42 | 4.92 | 5.90 | 6.59 | 7.18 | 7.87 | 8.85 | 9.84 | 10.82 | 11.81 | 13.78 | 15.75 | 18.70 | 21.65 | 24.61 | 27.56 | 29.92 | 37.40 |
| 1.23 | 52 | 3.258 | 64 | 4.010 | – | – | – | – | – | – | 4.11 | 4.81 | 5.40 | 6.09 | 7.08 | 8.06 | 9.05 | 10.03 | 12.00 | 13.97 | 16.93 | 19.88 | 22.83 | 25.78 | 28.15 | 35.63 |
| 1.25 | 32 | 2.005 | 40 | 2.506 | – | 3.44 | 3.83 | 4.32 | 4.82 | 5.31 | 6.29 | 6.98 | 7.57 | 8.26 | 9.25 | 10.23 | 11.22 | 12.20 | 14.17 | 16.14 | 19.10 | 22.05 | 25.00 | 27.95 | 30.32 | 37.80 |
| 1.25 | 48 | 3.008 | 60 | 3.760 | – | – | – | – | – | – | 4.51 | 5.20 | 5.79 | 6.48 | 7.47 | 8.46 | 9.44 | 10.43 | 12.39 | 14.36 | 17.32 | 20.27 | 23.23 | 26.18 | 28.54 | 36.02 |
| 1.25 | 64 | 4.010 | 80 | 5.013 | – | – | – | – | – | – | – | – | – | 4.70 | 5.69 | 6.67 | 7.66 | 8.65 | 10.62 | 12.59 | 15.55 | 18.50 | 21.45 | 24.40 | 26.77 | 34.25 |
| 1.26 | 38 | 2.381 | 48 | 3.008 | – | – | 3.13 | 3.63 | 4.12 | 4.62 | 5.60 | 6.29 | 6.88 | 7.57 | 8.56 | 9.54 | 10.53 | 11.51 | 13.48 | 15.45 | 18.40 | 21.36 | 24.31 | 27.26 | 29.63 | 37.11 |
| 1.27 | 44 | 2.757 | 56 | 3.509 | – | – | – | – | – | 3.92 | 4.90 | 5.60 | 6.19 | 6.88 | 7.86 | 8.85 | 9.84 | 10.82 | 12.79 | 14.76 | 17.71 | 20.67 | 23.62 | 26.57 | 28.94 | 36.42 |
| 1.29 | 56 | 3.509 | 72 | 4.511 | – | – | – | – | – | – | – | 4.20 | 4.79 | 5.49 | 6.48 | 7.46 | 8.45 | 9.44 | 11.41 | 13.38 | 16.33 | 19.28 | 22.24 | 25.19 | 27.56 | 35.04 |
| 1.29 | 34 | 2.130 | 44 | 2.757 | – | 3.14 | 3.53 | 4.02 | 4.52 | 5.01 | 5.99 | 6.68 | 7.28 | 7.97 | 8.95 | 9.94 | 10.92 | 11.91 | 13.87 | 15.84 | 18.80 | 21.75 | 24.70 | 27.65 | 30.02 | 37.50 |
| 1.30 | 40 | 2.506 | 52 | 3.258 | – | – | – | 3.33 | 3.82 | 4.32 | 5.30 | 5.99 | 6.58 | 7.27 | 8.26 | 9.25 | 10.23 | 11.22 | 13.18 | 15.15 | 18.11 | 21.06 | 24.02 | 26.97 | 29.33 | 36.81 |
| 1.31 | 52 | 3.258 | 68 | 4.261 | – | – | – | – | – | – | – | 4.60 | 5.19 | 5.88 | 6.87 | 7.86 | 8.85 | 9.83 | 11.80 | 13.77 | 16.73 | 19.68 | 22.63 | 25.58 | 27.95 | 35.43 |
| 1.32 | 68 | 4.261 | 90 | 5.639 | – | – | – | – | – | – | – | – | – | – | – | 5.96 | 6.96 | 7.94 | 9.92 | 11.89 | 14.85 | 17.80 | 20.76 | 23.71 | 26.08 | 33.56 |
| 1.33 | 36 | 2.256 | 48 | 3.008 | – | – | 3.22 | 3.72 | 4.21 | 4.71 | 5.69 | 6.38 | 6.98 | 7.67 | 8.65 | 9.64 | 10.62 | 11.61 | 13.58 | 15.55 | 18.50 | 21.45 | 24.41 | 27.36 | 29.72 | 37.20 |
| 1.33 | 48 | 3.008 | 64 | 4.010 | – | – | – | – | – | – | 4.30 | 4.99 | 5.59 | 6.28 | 7.27 | 8.25 | 9.24 | 10.23 | 12.19 | 14.16 | 17.12 | 20.07 | 23.03 | 25.98 | 28.34 | 35.82 |
| 1.33 | 60 | 3.760 | 80 | 5.013 | – | – | – | – | – | – | – | – | – | 4.88 | 5.87 | 6.86 | 7.85 | 8.84 | 10.81 | 12.78 | 15.74 | 18.69 | 21.65 | 24.60 | 26.96 | 34.44 |
| 1.36 | 44 | 2.757 | 60 | 3.760 | – | – | – | – | – | 3.71 | 4.69 | 5.39 | 5.98 | 6.67 | 7.66 | 8.65 | 9.63 | 10.62 | 12.59 | 14.56 | 17.51 | 20.47 | 23.42 | 26.37 | 28.74 | 36.22 |
| 1.37 | 38 | 2.381 | 52 | 3.258 | – | – | – | 3.42 | 3.91 | 4.41 | 5.39 | 6.09 | 6.68 | 7.37 | 8.35 | 9.34 | 10.33 | 11.31 | 13.28 | 15.25 | 18.21 | 21.16 | 24.11 | 27.06 | 29.43 | 36.91 |
| 1.38 | 32 | 2.005 | 44 | 2.757 | – | 3.23 | 3.62 | 4.12 | 4.61 | 5.11 | 6.09 | 6.78 | 7.37 | 8.06 | 9.05 | 10.03 | 11.02 | 12.00 | 13.97 | 15.94 | 18.90 | 21.85 | 24.80 | 27.75 | 30.12 | 37.60 |
| **Length Factor*** | | | | | **0.77** | **0.81** | **0.83** | **0.84** | **0.86** | **0.88** | **0.90** | **0.92** | **0.94** | **0.95** | **0.98** | **1.00** | **1.01** | **1.03** | **1.06** | **1.09** | **1.13** | **1.16** | **1.19** | **1.22** | **1.24** | **1.29** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

# Selection

## 5 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations Driver No. of Teeth | Driver Pitch Dia. In. | Driven No. of Teeth | Driven Pitch Dia. In. | Center Distance, Inches 300-5M | 355-5M | 375-5M | 400-5M | 425-5M | 450-5M | 550-5M | 535-5M | 565-5M | 600-5M | 650-5M | 700-5M | 750-5M | 800-5M | 900-5M | 1000-5M | 1150-5M | 1300-5M | 1450-5M | 1600-5M | 1720-5M | 2100-5M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Length Factor*** | | | | | **0.77** | **0.81** | **0.83** | **0.84** | **0.86** | **0.88** | **0.90** | **0.92** | **0.94** | **0.95** | **0.98** | **1.00** | **1.01** | **1.03** | **1.06** | **1.09** | **1.13** | **1.16** | **1.19** | **1.22** | **1.24** | **1.29** |
| 1.39 | 52 | 3.258 | 72 | 4.511 | – | – | – | – | – | – | – | 4.38 | 4.98 | 5.67 | 6.66 | 7.65 | 8.64 | 9.63 | 11.60 | 13.57 | 16.53 | 19.48 | 22.43 | 25.39 | 27.75 | 35.23 |
| 1.40 | 40 | 2.506 | 56 | 3.509 | – | – | – | – | 3.61 | 4.11 | 5.09 | 5.78 | 6.38 | 7.07 | 8.06 | 9.04 | 10.03 | 11.01 | 12.98 | 14.95 | 17.91 | 20.86 | 23.82 | 26.77 | 29.13 | 36.61 |
| 1.41 | 64 | 4.010 | 90 | 5.639 | – | – | – | – | – | – | – | – | – | – | 5.15 | 6.15 | 7.14 | 8.13 | 10.10 | 12.08 | 15.04 | 17.99 | 20.95 | 23.90 | 26.27 | 33.75 |
| 1.41 | 34 | 2.130 | 48 | 3.008 | – | 2.92 | 3.32 | 3.81 | 4.31 | 4.80 | 5.79 | 6.48 | 7.07 | 7.76 | 8.75 | 9.73 | 10.72 | 11.71 | 13.67 | 15.64 | 18.60 | 21.55 | 24.51 | 27.46 | 29.82 | 37.30 |
| 1.42 | 48 | 3.008 | 68 | 4.261 | – | – | – | – | – | – | 4.08 | 4.78 | 5.37 | 6.07 | 7.06 | 8.05 | 9.03 | 10.02 | 11.99 | 13.96 | 16.92 | 19.87 | 22.83 | 25.78 | 28.14 | 35.63 |
| 1.43 | 56 | 3.509 | 80 | 5.013 | – | – | – | – | – | – | – | – | – | 5.06 | 6.06 | 7.05 | 8.04 | 9.03 | 11.00 | 12.97 | 15.93 | 18.88 | 21.84 | 24.79 | 27.16 | 34.64 |
| 1.44 | 36 | 2.256 | 52 | 3.258 | – | – | – | 3.51 | 4.00 | 4.50 | 5.49 | 6.18 | 6.77 | 7.46 | 8.45 | 9.44 | 10.42 | 11.41 | 13.37 | 15.35 | 18.30 | 21.25 | 24.21 | 27.16 | 29.53 | 37.01 |
| 1.46 | 44 | 2.757 | 64 | 4.010 | – | – | – | – | – | – | 4.48 | 5.18 | 5.77 | 6.46 | 7.45 | 8.44 | 9.43 | 10.42 | 12.38 | 14.36 | 17.31 | 20.27 | 23.22 | 26.17 | 28.54 | 36.02 |
| 1.47 | 38 | 2.381 | 56 | 3.509 | – | – | – | – | 3.70 | 4.20 | 5.18 | 5.88 | 6.47 | 7.16 | 8.15 | 9.14 | 10.12 | 11.11 | 13.08 | 15.05 | 18.01 | 20.96 | 23.91 | 26.86 | 29.23 | 36.71 |
| 1.50 | 32 | 2.005 | 48 | 3.008 | – | 3.01 | 3.41 | 3.91 | 4.40 | 4.90 | 5.88 | 6.57 | 7.17 | 7.86 | 8.84 | 9.83 | 10.82 | 11.80 | 13.77 | 15.74 | 18.70 | 21.65 | 24.60 | 27.55 | 29.92 | 37.40 |
| 1.50 | 40 | 2.506 | 60 | 3.760 | – | – | – | – | – | 3.89 | 4.88 | 5.57 | 6.17 | 6.86 | 7.85 | 8.84 | 9.82 | 10.81 | 12.78 | 14.75 | 17.71 | 20.66 | 23.62 | 26.57 | 28.93 | 36.41 |
| 1.50 | 48 | 3.008 | 72 | 4.511 | – | – | – | – | – | – | – | 4.56 | 5.16 | 5.86 | 6.85 | 7.84 | 8.83 | 9.82 | 11.79 | 13.76 | 16.72 | 19.67 | 22.63 | 25.58 | 27.94 | 35.43 |
| 1.50 | 60 | 3.760 | 90 | 5.639 | – | – | – | – | – | – | – | – | – | – | 5.33 | 6.33 | 7.32 | 8.31 | 10.29 | 12.27 | 15.23 | 18.18 | 21.14 | 24.09 | 26.46 | 33.95 |
| 1.53 | 34 | 2.130 | 52 | 3.258 | – | – | 3.10 | 3.60 | 4.09 | 4.59 | 5.58 | 6.27 | 6.87 | 7.56 | 8.54 | 9.53 | 10.52 | 11.50 | 13.47 | 15.44 | 18.40 | 21.35 | 24.31 | 27.26 | 29.62 | 37.10 |
| 1.54 | 52 | 3.258 | 80 | 5.013 | – | – | – | – | – | – | – | – | 4.54 | 5.24 | 6.24 | 7.23 | 8.22 | 9.21 | 11.18 | 13.16 | 16.12 | 19.07 | 22.03 | 24.98 | 27.35 | 34.83 |
| 1.55 | 44 | 2.757 | 68 | 4.261 | – | – | – | – | – | – | 4.26 | 4.96 | 5.56 | 6.25 | 7.24 | 8.23 | 9.22 | 10.21 | 12.18 | 14.15 | 17.11 | 20.06 | 23.02 | 25.97 | 28.34 | 35.82 |
| 1.56 | 36 | 2.256 | 56 | 3.509 | – | – | – | 3.29 | 3.79 | 4.29 | 5.27 | 5.97 | 6.56 | 7.26 | 8.24 | 9.23 | 10.22 | 11.20 | 13.17 | 15.14 | 18.10 | 21.05 | 24.01 | 26.96 | 29.33 | 36.81 |
| 1.58 | 38 | 2.381 | 60 | 3.760 | – | – | – | – | 3.47 | 3.98 | 4.97 | 5.66 | 6.26 | 6.95 | 7.94 | 8.93 | 9.92 | 10.91 | 12.87 | 14.85 | 17.80 | 20.76 | 23.71 | 26.66 | 29.03 | 36.51 |
| 1.60 | 40 | 2.506 | 64 | 4.010 | – | – | – | – | – | 3.66 | 4.66 | 5.36 | 5.95 | 6.65 | 7.64 | 8.63 | 9.62 | 10.61 | 12.57 | 14.55 | 17.51 | 20.46 | 23.42 | 26.37 | 28.73 | 36.21 |
| 1.61 | 56 | 3.509 | 90 | 5.639 | – | – | – | – | – | – | – | – | – | – | 5.51 | 6.51 | 7.50 | 8.50 | 10.48 | 12.45 | 15.42 | 18.37 | 21.33 | 24.29 | 26.65 | 34.14 |
| 1.63 | 32 | 2.005 | 52 | 3.258 | – | – | 3.18 | 3.69 | 4.18 | 4.68 | 5.67 | 6.37 | 6.96 | 7.65 | 8.64 | 9.63 | 10.61 | 11.60 | 13.57 | 15.54 | 18.50 | 21.45 | 24.40 | 27.35 | 29.72 | 37.20 |
| 1.64 | 44 | 2.757 | 72 | 4.511 | – | – | – | – | – | – | 4.04 | 4.74 | 5.34 | 6.04 | 7.03 | 8.02 | 9.01 | 10.00 | 11.97 | 13.95 | 16.91 | 19.86 | 22.82 | 25.77 | 28.14 | 35.62 |
| 1.65 | 34 | 2.130 | 56 | 3.509 | – | – | – | 3.38 | 3.87 | 4.38 | 5.37 | 6.06 | 6.66 | 7.35 | 8.34 | 9.33 | 10.31 | 11.30 | 13.27 | 15.24 | 18.20 | 21.15 | 24.11 | 27.06 | 29.42 | 36.90 |
| 1.65 | 68 | 4.261 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | – | – | 6.75 | 8.75 | 10.74 | 13.71 | 16.67 | 19.64 | 22.59 | 24.96 | 32.45 |
| 1.67 | 36 | 2.256 | 60 | 3.760 | – | – | – | – | 3.56 | 4.07 | 5.06 | 5.76 | 6.35 | 7.04 | 8.03 | 9.02 | 10.01 | 11.00 | 12.97 | 14.94 | 17.90 | 20.85 | 23.81 | 26.76 | 29.13 | 36.61 |
| 1.67 | 48 | 3.008 | 80 | 5.013 | – | – | – | – | – | – | – | – | 4.71 | 5.42 | 6.42 | 7.41 | 8.41 | 9.40 | 11.37 | 13.35 | 16.31 | 19.26 | 22.22 | 25.18 | 27.54 | 35.03 |
| 1.68 | 38 | 2.381 | 64 | 4.010 | – | – | – | – | – | 3.75 | 4.75 | 5.45 | 6.05 | 6.74 | 7.73 | 8.72 | 9.71 | 10.70 | 12.67 | 14.64 | 17.60 | 20.55 | 23.51 | 26.46 | 28.83 | 36.31 |
| 1.70 | 40 | 2.506 | 68 | 4.261 | – | – | – | – | – | – | 4.44 | 5.14 | 5.74 | 6.44 | 7.43 | 8.42 | 9.41 | 10.40 | 12.37 | 14.34 | 17.30 | 20.26 | 23.21 | 26.17 | 28.53 | 36.01 |
| 1.73 | 52 | 3.258 | 90 | 5.639 | – | – | – | – | – | – | – | – | – | 4.67 | 5.68 | 6.69 | 7.68 | 8.68 | 10.66 | 12.64 | 15.61 | 18.56 | 21.52 | 24.48 | 26.85 | 34.33 |
| 1.75 | 32 | 2.005 | 56 | 3.509 | – | – | – | 3.46 | 3.96 | 4.47 | 5.46 | 6.15 | 6.75 | 7.44 | 8.43 | 9.42 | 10.41 | 11.39 | 13.36 | 15.34 | 18.29 | 21.25 | 24.20 | 27.15 | 29.52 | 37.00 |
| 1.75 | 64 | 4.010 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | – | 5.91 | 6.92 | 8.93 | 10.92 | 13.90 | 16.86 | 19.83 | 22.78 | 25.15 | 32.64 |
| 1.77 | 34 | 2.130 | 60 | 3.760 | – | – | – | – | 3.65 | 4.15 | 5.15 | 5.85 | 6.44 | 7.14 | 8.13 | 9.12 | 10.11 | 11.09 | 13.06 | 15.04 | 18.00 | 20.95 | 23.91 | 26.86 | 29.22 | 36.70 |
| 1.78 | 36 | 2.256 | 64 | 4.010 | – | – | – | – | – | 3.84 | 4.84 | 5.54 | 6.14 | 6.83 | 7.82 | 8.82 | 9.80 | 10.79 | 12.76 | 14.74 | 17.70 | 20.65 | 23.61 | 26.56 | 28.93 | 36.41 |
| 1.79 | 38 | 2.381 | 68 | 4.261 | – | – | – | – | – | – | 4.53 | 5.23 | 5.83 | 6.53 | 7.52 | 8.51 | 9.50 | 10.49 | 12.46 | 14.44 | 17.40 | 20.35 | 23.31 | 26.26 | 28.63 | 36.11 |
| 1.80 | 40 | 2.506 | 72 | 4.511 | – | – | – | – | – | – | 4.21 | 4.92 | 5.52 | 6.22 | 7.21 | 8.21 | 9.20 | 10.19 | 12.16 | 14.14 | 17.10 | 20.05 | 23.01 | 25.96 | 28.33 | 35.81 |
| 1.80 | 50 | 3.133 | 90 | 5.639 | – | – | – | – | – | – | – | – | – | 4.75 | 5.77 | 6.77 | 7.77 | 8.77 | 10.75 | 12.73 | 15.70 | 18.66 | 21.62 | 24.57 | 26.94 | 34.43 |
| 1.82 | 44 | 2.757 | 80 | 5.013 | – | – | – | – | – | – | – | 4.28 | 4.89 | 5.59 | 6.60 | 7.59 | 8.59 | 9.58 | 11.56 | 13.54 | 16.50 | 19.45 | 22.41 | 25.37 | 27.73 | 35.22 |
| 1.87 | 60 | 3.760 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | – | 6.08 | 7.10 | 9.10 | 11.10 | 14.08 | 17.05 | 20.01 | 22.97 | 25.34 | 32.83 |
| 1.88 | 32 | 2.005 | 60 | 3.760 | – | – | – | 3.23 | 3.73 | 4.24 | 5.24 | 5.94 | 6.53 | 7.23 | 8.22 | 9.21 | 10.20 | 11.19 | 13.16 | 15.13 | 18.09 | 21.04 | 24.00 | 26.95 | 29.32 | 36.80 |
| 1.88 | 48 | 3.008 | 90 | 5.639 | – | – | – | – | – | – | – | – | – | 4.84 | 5.86 | 6.86 | 7.86 | 8.86 | 10.84 | 12.83 | 15.79 | 18.75 | 21.71 | 24.67 | 27.04 | 34.52 |
| 1.88 | 34 | 2.130 | 64 | 4.010 | – | – | – | – | 3.41 | 3.92 | 4.93 | 5.63 | 6.23 | 6.92 | 7.92 | 8.91 | 9.90 | 10.89 | 12.86 | 14.83 | 17.79 | 20.75 | 23.70 | 26.66 | 29.02 | 36.51 |
| 1.89 | 36 | 2.256 | 68 | 4.261 | – | – | – | – | – | 3.60 | 4.61 | 5.32 | 5.92 | 6.62 | 7.61 | 8.60 | 9.59 | 10.58 | 12.56 | 14.53 | 17.49 | 20.45 | 23.41 | 26.36 | 28.72 | 36.21 |
| 1.90 | 38 | 2.381 | 72 | 4.511 | – | – | – | – | – | – | 4.29 | 5.00 | 5.61 | 6.31 | 7.30 | 8.30 | 9.29 | 10.28 | 12.26 | 14.23 | 17.19 | 20.15 | 23.11 | 26.06 | 28.43 | 35.91 |
| 2.00 | 32 | 2.005 | 64 | 4.010 | – | – | – | – | 3.50 | 4.01 | 5.02 | 5.72 | 6.32 | 7.01 | 8.01 | 9.00 | 9.99 | 10.98 | 12.95 | 14.93 | 17.89 | 20.84 | 23.80 | 26.75 | 29.12 | 36.60 |
| 2.00 | 34 | 2.130 | 68 | 4.261 | – | – | – | – | – | 3.69 | 4.70 | 5.41 | 6.01 | 6.71 | 7.70 | 8.70 | 9.69 | 10.68 | 12.65 | 14.63 | 17.59 | 20.54 | 23.50 | 26.45 | 28.82 | 36.30 |
| 2.00 | 36 | 2.256 | 72 | 4.511 | – | – | – | – | – | – | 4.38 | 5.09 | 5.69 | 6.40 | 7.39 | 8.39 | 9.38 | 10.37 | 12.35 | 14.33 | 17.29 | 20.24 | 23.20 | 26.16 | 28.52 | 36.01 |
| 2.00 | 40 | 2.506 | 80 | 5.013 | – | – | – | – | – | – | – | 4.45 | 5.06 | 5.77 | 6.77 | 7.77 | 8.77 | 9.76 | 11.74 | 13.72 | 16.69 | 19.64 | 22.60 | 25.56 | 27.93 | 35.41 |
| 2.00 | 56 | 3.509 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | – | 6.25 | 7.27 | 9.28 | 11.28 | 14.26 | 17.23 | 20.20 | 23.16 | 25.53 | 33.03 |
| 2.05 | 44 | 2.757 | 90 | 5.639 | – | – | – | – | – | – | – | – | – | 5.01 | 6.03 | 7.04 | 8.04 | 9.04 | 11.03 | 13.01 | 15.98 | 18.94 | 21.90 | 24.86 | 27.23 | 34.72 |
| 2.11 | 38 | 2.381 | 80 | 5.013 | – | – | – | – | – | – | – | 4.53 | 5.14 | 5.85 | 6.86 | 7.86 | 8.86 | 9.85 | 11.83 | 13.82 | 16.78 | 19.74 | 22.70 | 25.65 | 28.02 | 35.51 |
| 2.12 | 34 | 2.130 | 72 | 4.511 | – | – | – | – | – | – | .4.46 | 5.18 | 5.78 | 6.48 | 7.48 | 8.48 | 9.47 | 10.47 | 12.44 | 14.42 | 17.38 | 20.34 | 23.30 | 26.25 | 28.62 | 36.10 |
| 2.13 | 32 | 2.005 | 68 | 4.261 | – | – | – | – | – | 3.77 | 4.79 | 5.49 | 6.09 | 6.79 | 7.79 | 8.79 | 9.78 | 10.77 | 12.74 | 14.72 | 17.68 | 20.64 | 23.60 | 26.55 | 28.92 | 36.40 |
| 2.15 | 52 | 3.258 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | 5.38 | 6.42 | 7.44 | 9.46 | 11.46 | 14.45 | 17.42 | 20.39 | 23.35 | 25.72 | 33.22 |
| 2.22 | 36 | 2.256 | 80 | 5.013 | – | – | – | – | – | – | 3.88 | 4.61 | 5.23 | 5.94 | 6.95 | 7.95 | 8.95 | 9.95 | 11.93 | 13.91 | 16.87 | 19.83 | 22.79 | 25.75 | 28.12 | 35.60 |
| 2.25 | 32 | 2.005 | 72 | 4.511 | – | – | – | – | – | 3.52 | 4.55 | 5.26 | 5.87 | 6.57 | 7.57 | 8.57 | 9.57 | 10.56 | 12.53 | 14.51 | 17.48 | 20.43 | 23.39 | 26.35 | 28.72 | 36.20 |
| 2.25 | 40 | 2.506 | 90 | 5.639 | – | – | – | – | – | – | – | – | 4.44 | 5.17 | 6.20 | 7.21 | 8.22 | 9.22 | 11.21 | 13.19 | 16.17 | 19.13 | 22.09 | 25.05 | 27.42 | 34.91 |
| 2.33 | 48 | 3.008 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | 5.54 | 6.58 | 7.61 | 9.63 | 11.64 | 14.63 | 17.60 | 20.57 | 23.54 | 25.91 | 33.41 |
| 2.35 | 34 | 2.130 | 80 | 5.013 | – | – | – | – | – | – | 3.96 | 4.70 | 5.31 | 6.03 | 7.04 | 8.04 | 9.04 | 10.04 | 12.02 | 14.00 | 16.97 | 19.93 | 22.89 | 25.84 | 28.21 | 35.70 |
| 2.37 | 38 | 2.381 | 90 | 5.639 | – | – | – | – | – | – | – | – | 4.52 | 5.26 | 6.28 | 7.30 | 8.31 | 9.31 | 11.30 | 13.29 | 16.26 | 19.22 | 22.19 | 25.14 | 27.51 | 35.00 |
| **Length Factor*** | | | | | **0.77** | **0.81** | **0.83** | **0.84** | **0.86** | **0.88** | **0.90** | **0.92** | **0.94** | **0.95** | **0.98** | **1.00** | **1.01** | **1.03** | **1.06** | **1.09** | **1.13** | **1.16** | **1.19** | **1.22** | **1.24** | **1.29** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

# Selection

## 5 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. In. | No. of Teeth | Pitch Dia. In. | 300-5M | 355-5M | 375-5M | 400-5M | 425-5M | 450-5M | 550-5M | 535-5M | 565-5M | 600-5M | 650-5M | 700-5M | 750-5M | 800-5M | 900-5M | 1000-5M | 1150-5M | 1300-5M | 1450-5M | 1600-5M | 1720-5M | 2100-5M |
| **Length Factor*** | | | | | **0.77** | **0.81** | **0.83** | **0.84** | **0.86** | **0.88** | **0.90** | **0.92** | **0.94** | **0.95** | **0.98** | **1.00** | **1.01** | **1.03** | **1.06** | **1.09** | **1.13** | **1.16** | **1.19** | **1.22** | **1.24** | **1.29** |
| 2.50 | 32 | 2.005 | 80 | 5.013 | – | – | – | – | – | – | 4.05 | 4.78 | 5.40 | 6.11 | 7.12 | 8.13 | 9.13 | 10.13 | 12.11 | 14.09 | 17.06 | 20.02 | 22.98 | 25.94 | 28.31 | 35.80 |
| 2.50 | 36 | 2.256 | 90 | 5.639 | – | – | – | – | – | – | – | – | 4.60 | 5.34 | 6.37 | 7.38 | 8.39 | 9.40 | 11.39 | 13.38 | 16.35 | 19.32 | 22.28 | 25.24 | 27.61 | 35.10 |
| 2.55 | 44 | 2.757 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | 5.70 | 6.75 | 7.78 | 9.81 | 11.82 | 14.81 | 17.78 | 20.76 | 23.72 | 26.10 | 33.60 |
| 2.65 | 34 | 2.130 | 90 | 5.639 | – | – | – | – | – | – | – | – | 4.69 | 5.42 | 6.45 | 7.47 | 8.48 | 9.49 | 11.48 | 13.47 | 16.44 | 19.41 | 22.37 | 25.33 | 27.70 | 35.19 |
| 2.80 | 40 | 2.506 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | 5.86 | 6.91 | 7.95 | 9.98 | 11.99 | 14.99 | 17.97 | 20.94 | 23.91 | 26.28 | 33.78 |
| 2.81 | 32 | 2.005 | 90 | 5.639 | – | – | – | – | – | – | – | 4.12 | 4.77 | 5.50 | 6.54 | 7.56 | 8.57 | 9.57 | 11.57 | 13.56 | 16.54 | 19.50 | 22.47 | 25.43 | 27.80 | 35.29 |
| 2.95 | 38 | 2.381 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | – | 5.94 | 7.00 | 8.03 | 10.06 | 12.08 | 15.08 | 18.06 | 21.04 | 24.00 | 26.38 | 33.88 |
| 3.11 | 36 | 2.256 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | 4.92 | 6.02 | 7.08 | 8.11 | 10.15 | 12.17 | 15.17 | 18.15 | 21.13 | 24.09 | 26.47 | 33.97 |
| 3.29 | 34 | 2.130 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | 5.00 | 6.10 | 7.16 | 8.20 | 10.24 | 12.26 | 15.26 | 18.24 | 21.22 | 24.19 | 26.56 | 34.07 |
| 3.50 | 32 | 2.005 | 112 | 7.018 | – | – | – | – | – | – | – | – | – | – | 5.08 | 6.18 | 7.24 | 8.28 | 10.32 | 12.34 | 15.35 | 18.33 | 21.31 | 24.28 | 26.66 | 34.16 |
| **Length Factor*** | | | | | **0.77** | **0.81** | **0.83** | **0.84** | **0.86** | **0.88** | **0.90** | **0.92** | **0.94** | **0.95** | **0.98** | **1.00** | **1.01** | **1.03** | **1.06** | **1.09** | **1.13** | **1.16** | **1.19** | **1.22** | **1.24** | **1.29** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 384-8M | 480-8M | 560-8M | 600-8M | 640-8M | 720-8M | 800-8M | 840-8M | 880-8M | 920-8M | 960-8M | 1040-8M | 1064-8M | 1120-8M | 1160-8M | 1200-8M |
| **Length Factor*** | | | | | **0.70** | **0.80** | **0.80** | **0.80** | **0.90** | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |
| 1.00 | 22 | 2.206 | 22 | 2.206 | 4.09 | 5.98 | 7.56 | 8.34 | 9.13 | 10.71 | 12.28 | 13.07 | 13.86 | 14.64 | 15.43 | 17.00 | 17.48 | 18.58 | 19.37 | 20.15 |
| 1.00 | 24 | 2.406 | 24 | 2.406 | 3.78 | 5.67 | 7.25 | 8.03 | 8.82 | 10.40 | 11.97 | 12.76 | 13.55 | 14.33 | 15.12 | 16.69 | 17.17 | 18.27 | 19.06 | 19.84 |
| 1.00 | 26 | 2.607 | 26 | 2.607 | 3.46 | 5.35 | 6.93 | 7.71 | 8.50 | 10.08 | 11.65 | 12.44 | 13.23 | 14.01 | 14.80 | 16.37 | 16.85 | 17.95 | 18.74 | 19.52 |
| 1.00 | 28 | 2.807 | 28 | 2.807 | – | 5.04 | 6.62 | 7.40 | 8.19 | 9.77 | 11.34 | 12.13 | 12.92 | 13.70 | 14.49 | 16.06 | 16.54 | 17.64 | 18.43 | 19.21 |
| 1.00 | 30 | 3.008 | 30 | 3.008 | – | 4.73 | 6.30 | 7.09 | 7.88 | 9.45 | 11.03 | 11.81 | 12.60 | 13.39 | 14.18 | 15.75 | 16.22 | 17.32 | 18.11 | 18.90 |
| 1.00 | 32 | 3.208 | 32 | 3.208 | – | 4.41 | 5.99 | 6.77 | 7.56 | 9.14 | 10.71 | 11.50 | 12.29 | 13.07 | 13.86 | 15.43 | 15.91 | 17.01 | 17.80 | 18.58 |
| 1.00 | 34 | 3.409 | 34 | 3.409 | – | 4.10 | 5.67 | 6.46 | 7.25 | 8.82 | 10.40 | 11.18 | 11.97 | 12.76 | 13.55 | 15.12 | 15.59 | 16.69 | 17.48 | 18.27 |
| 1.00 | 36 | 3.609 | 36 | 3.609 | – | – | 5.36 | 6.14 | 6.93 | 8.51 | 10.08 | 10.87 | 11.66 | 12.44 | 13.23 | 14.80 | 15.28 | 16.38 | 17.17 | 17.95 |
| 1.00 | 38 | 3.810 | 38 | 3.810 | – | – | 5.04 | 5.83 | 6.62 | 8.19 | 9.77 | 10.55 | 11.34 | 12.13 | 12.92 | 14.49 | 14.96 | 16.06 | 16.85 | 17.64 |
| 1.00 | 40 | 4.010 | 40 | 4.010 | – | – | 4.73 | 5.51 | 6.30 | 7.88 | 9.45 | 10.24 | 11.03 | 11.81 | 12.60 | 14.17 | 14.65 | 15.75 | 16.54 | 17.32 |
| 1.00 | 44 | 4.411 | 44 | 4.411 | – | – | – | – | 5.67 | 7.25 | 8.82 | 9.61 | 10.40 | 11.18 | 11.97 | 13.54 | 14.02 | 15.12 | 15.91 | 16.69 |
| 1.00 | 48 | 4.812 | 48 | 4.812 | – | – | – | – | – | 6.62 | 8.19 | 8.98 | 9.77 | 10.55 | 11.34 | 12.91 | 13.39 | 14.49 | 15.28 | 16.06 |
| 1.00 | 56 | 5.614 | 56 | 5.614 | – | – | – | – | – | – | 6.93 | 7.72 | 8.51 | 9.29 | 10.08 | 11.65 | 12.13 | 13.23 | 14.02 | 14.80 |
| 1.00 | 64 | 6.416 | 64 | 6.416 | – | – | – | – | – | – | – | – | 7.25 | 8.03 | 8.82 | 10.39 | 10.87 | 11.97 | 12.76 | 13.54 |
| 1.00 | 72 | 7.218 | 72 | 7.218 | – | – | – | – | – | – | – | – | – | – | – | 9.13 | 9.61 | 10.71 | 11.50 | 12.28 |
| 1.00 | 80 | 8.020 | 80 | 8.020 | – | – | – | – | – | – | – | – | – | – | – | – | – | 9.45 | 10.24 | 11.02 |
| 1.05 | 38 | 3.810 | 40 | 4.010 | – | – | 4.88 | 5.67 | 6.46 | 8.03 | 9.61 | 10.39 | 11.18 | 11.97 | 12.76 | 14.33 | 14.80 | 15.90 | 16.69 | 17.48 |
| 1.06 | 36 | 3.609 | 38 | 3.810 | – | – | 5.20 | 5.98 | 6.77 | 8.35 | 9.92 | 10.71 | 11.50 | 12.28 | 13.07 | 14.64 | 15.12 | 16.22 | 17.01 | 17.79 |
| 1.06 | 34 | 3.409 | 36 | 3.609 | – | – | 5.51 | 6.30 | 7.09 | 8.66 | 10.24 | 11.02 | 11.81 | 12.60 | 13.39 | 14.96 | 15.43 | 16.53 | 17.32 | 18.11 |
| 1.06 | 32 | 3.208 | 34 | 3.409 | – | 4.25 | 5.83 | 6.61 | 7.40 | 8.98 | 10.55 | 11.34 | 12.13 | 12.91 | 13.70 | 15.27 | 15.75 | 16.85 | 17.64 | 18.42 |
| 1.07 | 30 | 3.008 | 32 | 3.208 | – | 4.57 | 6.14 | 6.93 | 7.72 | 9.29 | 10.87 | 11.65 | 12.44 | 13.23 | 14.02 | 15.59 | 16.06 | 17.16 | 17.95 | 18.74 |
| 1.07 | 28 | 2.807 | 30 | 3.008 | – | 4.88 | 6.46 | 7.24 | 8.03 | 9.61 | 11.18 | 11.97 | 12.76 | 13.54 | 14.33 | 15.90 | 16.38 | 17.48 | 18.27 | 19.05 |
| 1.08 | 26 | 2.607 | 28 | 2.807 | 3.31 | 5.20 | 6.77 | 7.56 | 8.35 | 9.92 | 11.50 | 12.28 | 13.07 | 13.86 | 14.65 | 16.22 | 16.69 | 17.79 | 18.58 | 19.37 |
| 1.08 | 24 | 2.406 | 26 | 2.607 | 3.62 | 5.51 | 7.09 | 7.87 | 8.66 | 10.24 | 11.81 | 12.60 | 13.39 | 14.17 | 14.96 | 16.53 | 17.01 | 18.11 | 18.90 | 19.68 |
| 1.09 | 22 | 2.206 | 24 | 2.406 | 3.94 | 5.83 | 7.40 | 8.19 | 8.98 | 10.55 | 12.13 | 12.91 | 13.70 | 14.49 | 15.28 | 16.85 | 17.32 | 18.42 | 19.21 | 20.00 |
| 1.09 | 44 | 4.411 | 48 | 4.812 | – | – | – | – | 5.35 | 6.93 | 8.50 | 9.29 | 10.08 | 10.86 | 11.65 | 13.22 | 13.70 | 14.80 | 15.59 | 16.38 |
| 1.10 | 40 | 4.010 | 44 | 4.411 | – | – | – | 5.19 | 5.98 | 7.56 | 9.13 | 9.92 | 10.71 | 11.49 | 12.28 | 13.85 | 14.33 | 15.43 | 16.22 | 17.00 |
| 1.11 | 36 | 3.609 | 40 | 4.010 | – | – | 5.04 | 5.82 | 6.61 | 8.19 | 9.76 | 10.55 | 11.34 | 12.12 | 12.91 | 14.48 | 14.96 | 16.06 | 16.85 | 17.63 |
| 1.11 | 72 | 7.218 | 80 | 8.020 | – | – | – | – | – | – | – | – | – | – | – | 8.49 | 8.97 | 10.07 | 10.86 | 11.65 |
| 1.12 | 34 | 3.409 | 38 | 3.810 | – | – | 5.35 | 6.14 | 6.93 | 8.50 | 10.08 | 10.86 | 11.65 | 12.44 | 13.23 | 14.80 | 15.27 | 16.37 | 17.16 | 17.95 |
| 1.13 | 32 | 3.208 | 36 | 3.609 | – | 4.09 | 5.67 | 6.45 | 7.24 | 8.82 | 10.39 | 11.18 | 11.97 | 12.75 | 13.54 | 15.11 | 15.59 | 16.69 | 17.48 | 18.26 |
| 1.13 | 64 | 6.416 | 72 | 7.218 | – | – | – | – | – | – | – | – | – | 7.39 | 8.18 | 9.75 | 10.23 | 11.33 | 12.12 | 12.91 |
| 1.13 | 80 | 8.020 | 90 | 9.023 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 9.44 | 10.22 |
| 1.13 | 30 | 3.008 | 34 | 3.409 | – | 4.41 | 5.98 | 6.77 | 7.56 | 9.13 | 10.71 | 11.49 | 12.28 | 13.07 | 13.86 | 15.43 | 15.90 | 17.00 | 17.79 | 18.58 |
| 1.14 | 28 | 2.807 | 32 | 3.208 | – | 4.72 | 6.30 | 7.08 | 7.87 | 9.45 | 11.02 | 11.81 | 12.60 | 13.38 | 14.17 | 15.74 | 16.22 | 17.32 | 18.11 | 18.89 |
| 1.14 | 56 | 5.614 | 64 | 6.416 | – | – | – | – | – | – | – | 7.08 | 7.87 | 8.65 | 9.44 | 11.01 | 11.49 | 12.59 | 13.38 | 14.17 |
| 1.15 | 26 | 2.607 | 30 | 3.008 | – | 5.04 | 6.61 | 7.40 | 8.19 | 9.76 | 11.34 | 12.12 | 12.91 | 13.70 | 14.49 | 16.06 | 16.53 | 17.63 | 18.42 | 19.21 |
| 1.16 | 38 | 3.810 | 44 | 4.411 | – | – | – | 5.34 | 6.14 | 7.71 | 9.29 | 10.07 | 10.86 | 11.65 | 12.44 | 14.01 | 14.49 | 15.59 | 16.38 | 17.16 |
| **Length Factor*** | | | | | **0.70** | **0.80** | **0.80** | **0.80** | **0.90** | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1224-8M | 1280-8M | 1440-8M | 1512-8M | 1584-8M | 1600-8M | 1760-8M | 1800-8M | 2000-8M | 2200-8M | 2400-8M | 2600-8M | 2800-8M | 3048-8M | 3280-8M | 3600-8M | 4400-8M |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |
| 1.00 | 22 | 2.206 | 22 | 2.206 | 20.63 | 21.73 | 24.88 | 26.30 | 27.71 | 28.03 | 31.18 | 31.97 | 35.90 | 39.84 | 43.78 | 47.71 | 51.65 | 56.53 | 61.10 | 67.40 | 83.15 |
| 1.00 | 24 | 2.406 | 24 | 2.406 | 20.32 | 21.42 | 24.57 | 25.99 | 27.40 | 27.72 | 30.87 | 31.66 | 35.59 | 39.53 | 43.47 | 47.40 | 51.34 | 56.22 | 60.79 | 67.09 | 82.84 |
| 1.00 | 26 | 2.607 | 26 | 2.607 | 20.00 | 21.10 | 24.25 | 25.67 | 27.08 | 27.40 | 30.55 | 31.34 | 35.27 | 39.21 | 43.15 | 47.08 | 51.02 | 55.90 | 60.47 | 66.77 | 82.52 |
| 1.00 | 28 | 2.807 | 28 | 2.807 | 19.69 | 20.79 | 23.94 | 25.36 | 26.77 | 27.09 | 30.24 | 31.03 | 34.96 | 38.90 | 42.84 | 46.77 | 50.71 | 55.59 | 60.16 | 66.46 | 82.21 |
| 1.00 | 30 | 3.008 | 30 | 3.008 | 19.37 | 20.47 | 23.62 | 25.04 | 26.46 | 26.77 | 29.92 | 30.71 | 34.65 | 38.58 | 42.52 | 46.46 | 50.40 | 55.28 | 59.84 | 66.14 | 81.89 |
| 1.00 | 32 | 3.208 | 32 | 3.208 | 19.06 | 20.16 | 23.31 | 24.73 | 26.14 | 26.46 | 29.61 | 30.40 | 34.33 | 38.27 | 42.21 | 46.14 | 50.08 | 54.96 | 59.53 | 65.83 | 81.58 |
| 1.00 | 34 | 3.409 | 34 | 3.409 | 18.74 | 19.84 | 22.99 | 24.41 | 25.83 | 26.14 | 29.29 | 30.08 | 34.02 | 37.95 | 41.89 | 45.83 | 49.77 | 54.65 | 59.21 | 65.51 | 81.26 |
| 1.00 | 36 | 3.609 | 36 | 3.609 | 18.43 | 19.53 | 22.68 | 24.10 | 25.51 | 25.83 | 28.98 | 29.77 | 33.70 | 37.64 | 41.58 | 45.51 | 49.45 | 54.33 | 58.90 | 65.20 | 80.95 |
| 1.00 | 38 | 3.810 | 38 | 3.810 | 18.11 | 19.21 | 22.36 | 23.78 | 25.20 | 25.51 | 28.66 | 29.45 | 33.39 | 37.32 | 41.26 | 45.20 | 49.14 | 54.02 | 58.58 | 64.88 | 80.63 |
| 1.00 | 40 | 4.010 | 40 | 4.010 | 17.80 | 18.90 | 22.05 | 23.47 | 24.88 | 25.20 | 28.35 | 29.14 | 33.07 | 37.01 | 40.95 | 44.88 | 48.82 | 53.70 | 58.27 | 64.57 | 80.32 |
| 1.00 | 44 | 4.411 | 44 | 4.411 | 17.17 | 18.27 | 21.42 | 22.84 | 24.25 | 24.57 | 27.72 | 28.51 | 32.44 | 36.38 | 40.32 | 44.25 | 48.19 | 53.07 | 57.64 | 63.94 | 79.69 |
| 1.00 | 48 | 4.812 | 48 | 4.812 | 16.54 | 17.64 | 20.79 | 22.21 | 23.62 | 23.94 | 27.09 | 27.88 | 31.81 | 35.75 | 39.69 | 43.62 | 47.56 | 52.44 | 57.01 | 63.31 | 79.06 |
| 1.00 | 56 | 5.614 | 56 | 5.614 | 15.28 | 16.38 | 19.53 | 20.95 | 22.36 | 22.68 | 25.83 | 26.62 | 30.55 | 34.49 | 38.43 | 42.36 | 46.30 | 51.18 | 55.75 | 62.05 | 77.80 |
| 1.00 | 64 | 6.416 | 64 | 6.416 | 14.02 | 15.12 | 18.27 | 19.69 | 21.10 | 21.42 | 24.57 | 25.36 | 29.29 | 33.23 | 37.17 | 41.10 | 45.04 | 49.92 | 54.49 | 60.79 | 76.54 |
| 1.00 | 72 | 7.218 | 72 | 7.218 | 12.76 | 13.86 | 17.01 | 18.43 | 19.84 | 20.16 | 23.31 | 24.10 | 28.03 | 31.97 | 35.91 | 39.84 | 43.78 | 48.66 | 53.23 | 59.53 | 75.28 |
| 1.00 | 80 | 8.020 | 80 | 8.020 | 11.50 | 12.60 | 15.75 | 17.17 | 18.58 | 18.90 | 22.05 | 22.84 | 26.77 | 30.71 | 34.65 | 38.58 | 42.52 | 47.40 | 51.97 | 58.27 | 74.02 |
| 1.05 | 38 | 3.810 | 40 | 4.010 | 17.95 | 19.05 | 22.20 | 23.62 | 25.04 | 25.35 | 28.50 | 29.29 | 33.23 | 37.16 | 41.10 | 45.04 | 48.98 | 53.86 | 58.42 | 64.72 | 80.47 |
| 1.06 | 36 | 3.609 | 38 | 3.810 | 18.27 | 19.37 | 22.52 | 23.94 | 25.35 | 25.67 | 28.82 | 29.61 | 33.54 | 37.48 | 41.42 | 45.35 | 49.29 | 54.17 | 58.74 | 65.04 | 80.79 |
| 1.06 | 34 | 3.409 | 36 | 3.609 | 18.58 | 19.68 | 22.83 | 24.25 | 25.67 | 25.98 | 29.13 | 29.92 | 33.86 | 37.79 | 41.73 | 45.67 | 49.61 | 54.49 | 59.05 | 65.35 | 81.10 |
| 1.06 | 32 | 3.208 | 34 | 3.409 | 18.90 | 20.00 | 23.15 | 24.57 | 25.98 | 26.30 | 29.45 | 30.24 | 34.17 | 38.11 | 42.05 | 45.98 | 49.92 | 54.80 | 59.37 | 65.67 | 81.42 |
| 1.07 | 30 | 3.008 | 32 | 3.208 | 19.21 | 20.31 | 23.46 | 24.88 | 26.30 | 26.61 | 29.76 | 30.55 | 34.49 | 38.42 | 42.36 | 46.30 | 50.24 | 55.12 | 59.68 | 65.98 | 81.73 |
| 1.07 | 28 | 2.807 | 30 | 3.008 | 19.53 | 20.63 | 23.78 | 25.20 | 26.61 | 26.93 | 30.08 | 30.87 | 34.80 | 38.74 | 42.68 | 46.61 | 50.55 | 55.43 | 60.00 | 66.30 | 82.05 |
| 1.08 | 26 | 2.607 | 28 | 2.807 | 19.84 | 20.94 | 24.09 | 25.51 | 26.93 | 27.24 | 30.39 | 31.18 | 35.12 | 39.05 | 42.99 | 46.93 | 50.87 | 55.75 | 60.31 | 66.61 | 82.36 |
| 1.08 | 24 | 2.406 | 26 | 2.607 | 20.16 | 21.26 | 24.41 | 25.83 | 27.24 | 27.56 | 30.71 | 31.50 | 35.43 | 39.37 | 43.31 | 47.24 | 51.18 | 56.06 | 60.63 | 66.93 | 82.68 |
| 1.09 | 22 | 2.206 | 24 | 2.406 | 20.47 | 21.57 | 24.72 | 26.14 | 27.56 | 27.87 | 31.02 | 31.81 | 35.75 | 39.68 | 43.62 | 47.56 | 51.50 | 56.38 | 60.94 | 67.24 | 82.99 |
| 1.09 | 44 | 4.411 | 48 | 4.812 | 16.85 | 17.95 | 21.10 | 22.52 | 23.94 | 24.25 | 27.40 | 28.19 | 32.13 | 36.06 | 40.00 | 43.94 | 47.88 | 52.76 | 57.32 | 63.62 | 79.37 |
| 1.10 | 40 | 4.010 | 44 | 4.411 | 17.48 | 18.58 | 21.73 | 23.15 | 24.57 | 24.88 | 28.03 | 28.82 | 32.76 | 36.69 | 40.63 | 44.57 | 48.51 | 53.39 | 57.95 | 64.25 | 80.00 |
| 1.11 | 36 | 3.609 | 40 | 4.010 | 18.11 | 19.21 | 22.36 | 23.78 | 25.20 | 25.51 | 28.66 | 29.45 | 33.39 | 37.32 | 41.26 | 45.20 | 49.14 | 54.02 | 58.58 | 64.88 | 80.63 |
| 1.11 | 72 | 7.218 | 80 | 8.020 | 12.12 | 13.22 | 16.37 | 17.79 | 19.21 | 19.52 | 22.67 | 23.46 | 27.40 | 31.33 | 35.27 | 39.21 | 43.15 | 48.03 | 52.60 | 58.90 | 74.65 |
| 1.12 | 34 | 3.409 | 38 | 3.810 | 18.42 | 19.52 | 22.67 | 24.09 | 25.51 | 25.82 | 28.97 | 29.76 | 33.70 | 37.63 | 41.57 | 45.51 | 49.45 | 54.33 | 58.89 | 65.19 | 80.94 |
| 1.13 | 32 | 3.208 | 36 | 3.609 | 18.74 | 19.84 | 22.99 | 24.41 | 25.83 | 26.14 | 29.29 | 30.08 | 34.02 | 37.95 | 41.89 | 45.83 | 49.77 | 54.65 | 59.21 | 65.51 | 81.26 |
| 1.13 | 64 | 6.416 | 72 | 7.218 | 13.38 | 14.48 | 17.63 | 19.05 | 20.47 | 20.78 | 23.93 | 24.72 | 28.66 | 32.59 | 36.53 | 40.47 | 44.41 | 49.29 | 53.86 | 60.16 | 75.91 |
| 1.13 | 80 | 8.020 | 90 | 9.023 | 10.70 | 11.80 | 14.95 | 16.37 | 17.79 | 18.10 | 21.25 | 22.04 | 25.98 | 29.92 | 33.86 | 37.79 | 41.73 | 46.61 | 51.18 | 57.48 | 73.23 |
| 1.13 | 30 | 3.008 | 34 | 3.409 | 19.05 | 20.15 | 23.30 | 24.72 | 26.14 | 26.45 | 29.60 | 30.39 | 34.33 | 38.26 | 42.20 | 46.14 | 50.08 | 54.96 | 59.52 | 65.82 | 81.57 |
| 1.14 | 28 | 2.807 | 32 | 3.208 | 19.37 | 20.47 | 23.62 | 25.04 | 26.46 | 26.77 | 29.92 | 30.71 | 34.65 | 38.58 | 42.52 | 46.46 | 50.40 | 55.28 | 59.84 | 66.14 | 81.89 |
| 1.14 | 56 | 5.614 | 64 | 6.416 | 14.64 | 15.74 | 18.89 | 20.31 | 21.73 | 22.04 | 25.19 | 25.98 | 29.92 | 33.85 | 37.79 | 41.73 | 45.67 | 50.55 | 55.12 | 61.42 | 77.17 |
| 1.15 | 26 | 2.607 | 30 | 3.008 | 19.68 | 20.78 | 23.93 | 25.35 | 26.77 | 27.08 | 30.23 | 31.02 | 34.96 | 38.89 | 42.83 | 46.77 | 50.71 | 55.59 | 60.15 | 66.45 | 82.20 |
| 1.16 | 38 | 3.810 | 44 | 4.411 | 17.64 | 18.74 | 21.89 | 23.31 | 24.72 | 25.04 | 28.19 | 28.98 | 32.91 | 36.85 | 40.79 | 44.72 | 48.66 | 53.54 | 58.11 | 64.41 | 80.16 |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 384-8M | 480-8M | 560-8M | 600-8M | 640-8M | 720-8M | 800-8M | 840-8M | 880-8M | 920-8M | 960-8M | 1040-8M | 1064-8M | 1120-8M | 1160-8M | 1200-8M |
| **Length Factor*** | | | | | **0.70** | **0.80** | **0.80** | **0.80** | **0.90** | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |
| 1.17 | 24 | 2.406 | 28 | 2.807 | 3.46 | 5.35 | 6.93 | 7.71 | 8.50 | 10.08 | 11.65 | 12.44 | 13.23 | 14.01 | 14.80 | 16.37 | 16.85 | 17.95 | 18.74 | 19.52 |
| 1.17 | 48 | 4.812 | 56 | 5.614 | – | – | – | – | – | 5.97 | 7.55 | 8.34 | 9.13 | 9.91 | 10.70 | 12.27 | 12.75 | 13.85 | 14.64 | 15.43 |
| 1.18 | 34 | 3.409 | 40 | 4.010 | – | – | 5.19 | 5.98 | 6.77 | 8.34 | 9.92 | 10.70 | 11.49 | 12.28 | 13.07 | 14.64 | 15.12 | 16.22 | 17.01 | 17.79 |
| 1.18 | 22 | 2.206 | 26 | 2.607 | 3.77 | 5.67 | 7.24 | 8.03 | 8.82 | 10.39 | 11.97 | 12.75 | 13.54 | 14.33 | 15.12 | 16.69 | 17.16 | 18.26 | 19.05 | 19.84 |
| 1.19 | 32 | 3.208 | 38 | 3.810 | – | – | 5.50 | 6.29 | 7.08 | 8.66 | 10.23 | 11.02 | 11.81 | 12.59 | 13.38 | 14.96 | 15.43 | 16.53 | 17.32 | 18.11 |
| 1.20 | 30 | 3.008 | 36 | 3.609 | – | 4.24 | 5.82 | 6.61 | 7.40 | 8.97 | 10.55 | 11.33 | 12.12 | 12.91 | 13.70 | 15.27 | 15.75 | 16.85 | 17.64 | 18.42 |
| 1.20 | 40 | 4.010 | 48 | 4.812 | – | – | – | – | 5.66 | 7.24 | 8.81 | 9.60 | 10.39 | 11.17 | 11.96 | 13.54 | 14.01 | 15.11 | 15.90 | 16.69 |
| 1.21 | 28 | 2.807 | 34 | 3.409 | – | 4.56 | 6.14 | 6.92 | 7.71 | 9.29 | 10.86 | 11.65 | 12.44 | 13.22 | 14.01 | 15.59 | 16.06 | 17.16 | 17.95 | 18.74 |
| 1.22 | 36 | 3.609 | 44 | 4.411 | – | – | 4.71 | 5.50 | 6.29 | 7.87 | 9.44 | 10.23 | 11.02 | 11.80 | 12.59 | 14.17 | 14.64 | 15.74 | 16.53 | 17.32 |
| 1.23 | 26 | 2.607 | 32 | 3.208 | – | 4.87 | 6.45 | 7.24 | 8.03 | 9.60 | 11.18 | 11.96 | 12.75 | 13.54 | 14.33 | 15.90 | 16.38 | 17.48 | 18.27 | 19.05 |
| 1.25 | 24 | 2.406 | 30 | 3.008 | 3.29 | 5.19 | 6.77 | 7.55 | 8.34 | 9.92 | 11.49 | 12.28 | 13.07 | 13.85 | 14.64 | 16.22 | 16.69 | 17.79 | 18.58 | 19.37 |
| 1.25 | 32 | 3.208 | 40 | 4.010 | – | – | 5.34 | 6.13 | 6.92 | 8.50 | 10.07 | 10.86 | 11.65 | 12.43 | 13.22 | 14.80 | 15.27 | 16.37 | 17.16 | 17.95 |
| 1.25 | 64 | 6.416 | 80 | 8.020 | – | – | – | – | – | – | – | – | – | – | – | 9.10 | 9.57 | 10.68 | 11.47 | 12.26 |
| 1.25 | 72 | 7.218 | 90 | 9.023 | – | – | – | – | – | – | – | – | – | – | – | – | – | 9.25 | 10.04 | 10.83 |
| 1.26 | 38 | 3.810 | 48 | 4.812 | – | – | – | 5.01 | 5.81 | 7.39 | 8.96 | 9.75 | 10.54 | 11.33 | 12.12 | 13.69 | 14.16 | 15.27 | 16.06 | 16.84 |
| 1.27 | 30 | 3.008 | 38 | 3.810 | – | 4.08 | 5.66 | 6.44 | 7.23 | 8.81 | 10.39 | 11.17 | 11.96 | 12.75 | 13.54 | 15.11 | 15.58 | 16.69 | 17.48 | 18.26 |
| 1.27 | 22 | 2.206 | 28 | 2.807 | 3.61 | 5.50 | 7.08 | 7.87 | 8.66 | 10.23 | 11.81 | 12.59 | 13.38 | 14.17 | 14.96 | 16.53 | 17.01 | 18.11 | 18.90 | 19.68 |
| 1.27 | 44 | 4.411 | 56 | 5.614 | – | – | – | – | – | 6.27 | 7.85 | 8.64 | 9.43 | 10.22 | 11.01 | 12.58 | 13.06 | 14.16 | 14.95 | 15.73 |
| 1.29 | 28 | 2.807 | 36 | 3.609 | – | 4.39 | 5.97 | 6.76 | 7.55 | 9.13 | 10.70 | 11.49 | 12.28 | 13.06 | 13.86 | 15.43 | 15.90 | 17.00 | 17.79 | 18.58 |
| 1.29 | 56 | 5.614 | 72 | 7.218 | – | – | – | – | – | – | – | – | 7.20 | 7.99 | 8.79 | 10.36 | 10.84 | 11.94 | 12.73 | 13.52 |
| 1.29 | 34 | 3.409 | 44 | 4.411 | – | – | 4.86 | 5.65 | 6.44 | 8.02 | 9.60 | 10.38 | 11.17 | 11.96 | 12.75 | 14.32 | 14.79 | 15.90 | 16.69 | 17.47 |
| 1.31 | 26 | 2.607 | 34 | 3.409 | – | 4.71 | 6.29 | 7.07 | 7.86 | 9.44 | 11.02 | 11.80 | 12.59 | 13.38 | 14.17 | 15.74 | 16.22 | 17.32 | 18.11 | 18.89 |
| 1.33 | 24 | 2.406 | 32 | 3.208 | – | 5.02 | 6.60 | 7.39 | 8.18 | 9.76 | 11.33 | 12.12 | 12.91 | 13.69 | 14.49 | 16.06 | 16.53 | 17.63 | 18.42 | 19.21 |
| 1.33 | 30 | 3.008 | 40 | 4.010 | – | – | 5.49 | 6.28 | 7.07 | 8.65 | 10.23 | 11.01 | 11.80 | 12.59 | 13.38 | 14.95 | 15.42 | 16.53 | 17.32 | 18.10 |
| 1.33 | 36 | 3.609 | 48 | 4.812 | – | – | – | 5.16 | 5.96 | 7.54 | 9.12 | 9.90 | 10.69 | 11.48 | 12.27 | 13.84 | 14.32 | 15.42 | 16.21 | 17.00 |
| 1.33 | 48 | 4.812 | 64 | 6.416 | – | – | – | – | – | – | 6.88 | 7.67 | 8.47 | 9.26 | 10.05 | 11.62 | 12.10 | 13.20 | 13.99 | 14.78 |
| 1.36 | 28 | 2.807 | 38 | 3.810 | – | 4.22 | 5.81 | 6.59 | 7.39 | 8.96 | 10.54 | 11.33 | 12.12 | 12.90 | 13.69 | 15.26 | 15.74 | 16.84 | 17.63 | 18.42 |
| 1.36 | 22 | 2.206 | 30 | 3.008 | 3.44 | 5.34 | 6.92 | 7.70 | 8.50 | 10.07 | 11.65 | 12.43 | 13.22 | 14.01 | 14.80 | 16.37 | 16.85 | 17.95 | 18.74 | 19.52 |
| 1.38 | 32 | 3.208 | 44 | 4.411 | – | – | 5.00 | 5.79 | 6.59 | 8.17 | 9.75 | 10.53 | 11.33 | 12.11 | 12.90 | 14.47 | 14.95 | 16.05 | 16.84 | 17.63 |
| 1.39 | 26 | 2.607 | 36 | 3.609 | – | 4.54 | 6.12 | 6.91 | 7.70 | 9.28 | 10.86 | 11.64 | 12.43 | 13.22 | 14.01 | 15.58 | 16.06 | 17.16 | 17.95 | 18.73 |
| 1.40 | 40 | 4.010 | 56 | 5.614 | – | – | – | – | – | 6.57 | 8.15 | 8.94 | 9.73 | 10.52 | 11.31 | 12.89 | 13.36 | 14.46 | 15.26 | 16.04 |
| 1.40 | 80 | 8.020 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 1.41 | 64 | 6.416 | 90 | 9.023 | – | – | – | – | – | – | – | – | – | – | – | 8.24 | 8.72 | 9.83 | 10.63 | 11.42 |
| 1.41 | 34 | 3.409 | 48 | 4.812 | – | – | – | 5.31 | 6.10 | 7.69 | 9.27 | 10.05 | 10.85 | 11.63 | 12.42 | 14.00 | 14.47 | 15.57 | 16.36 | 17.15 |
| 1.42 | 24 | 2.406 | 34 | 3.409 | – | 4.86 | 6.44 | 7.23 | 8.02 | 9.59 | 11.17 | 11.96 | 12.75 | 13.53 | 14.32 | 15.89 | 16.37 | 17.47 | 18.26 | 19.05 |
| 1.43 | 28 | 2.807 | 40 | 4.010 | – | 4.05 | 5.64 | 6.43 | 7.22 | 8.80 | 10.38 | 11.16 | 11.96 | 12.74 | 13.53 | 15.10 | 15.58 | 16.68 | 17.47 | 18.26 |
| 1.43 | 56 | 5.614 | 80 | 8.020 | – | – | – | – | – | – | – | – | – | – | 8.10 | 9.69 | 10.17 | 11.27 | 12.07 | 12.86 |
| 1.46 | 22 | 2.206 | 32 | 3.208 | 3.27 | 5.17 | 6.75 | 7.54 | 8.33 | 9.91 | 11.49 | 12.27 | 13.06 | 13.85 | 14.64 | 16.21 | 16.69 | 17.79 | 18.58 | 19.36 |
| **Length Factor*** | | | | | **0.70** | **0.80** | **0.80** | **0.80** | **0.90** | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1224-8M | 1280-8M | 1440-8M | 1512-8M | 1584-8M | 1600-8M | 1760-8M | 1800-8M | 2000-8M | 2200-8M | 2400-8M | 2600-8M | 2800-8M | 3048-8M | 3280-8M | 3600-8M | 4400-8M |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |
| 1.17 | 24 | 2.406 | 28 | 2.807 | 20.00 | 21.10 | 24.25 | 25.67 | 27.08 | 27.40 | 30.55 | 31.34 | 35.28 | 39.21 | 43.15 | 47.09 | 51.03 | 55.91 | 60.47 | 66.77 | 82.52 |
| 1.17 | 48 | 4.812 | 56 | 5.614 | 15.90 | 17.00 | 20.15 | 21.57 | 22.99 | 23.30 | 26.45 | 27.24 | 31.18 | 35.11 | 39.05 | 42.99 | 46.93 | 51.81 | 56.38 | 62.68 | 78.43 |
| 1.18 | 34 | 3.409 | 40 | 4.010 | 18.27 | 19.37 | 22.52 | 23.94 | 25.35 | 25.67 | 28.82 | 29.61 | 33.54 | 37.48 | 41.42 | 45.35 | 49.29 | 54.17 | 58.74 | 65.04 | 80.79 |
| 1.18 | 22 | 2.206 | 26 | 2.607 | 20.31 | 21.41 | 24.56 | 25.98 | 27.40 | 27.71 | 30.86 | 31.65 | 35.59 | 39.52 | 43.46 | 47.40 | 51.34 | 56.22 | 60.78 | 67.08 | 82.83 |
| 1.19 | 32 | 3.208 | 38 | 3.810 | 18.58 | 19.68 | 22.83 | 24.25 | 25.67 | 25.98 | 29.13 | 29.92 | 33.86 | 37.79 | 41.73 | 45.67 | 49.61 | 54.49 | 59.05 | 65.35 | 81.10 |
| 1.20 | 30 | 3.008 | 36 | 3.609 | 18.90 | 20.00 | 23.15 | 24.57 | 25.98 | 26.30 | 29.45 | 30.24 | 34.17 | 38.11 | 42.05 | 45.98 | 49.92 | 54.80 | 59.37 | 65.67 | 81.42 |
| 1.20 | 40 | 4.010 | 48 | 4.812 | 17.16 | 18.26 | 21.41 | 22.83 | 24.25 | 24.56 | 27.71 | 28.50 | 32.44 | 36.37 | 40.31 | 44.25 | 48.19 | 53.07 | 57.63 | 63.93 | 79.69 |
| 1.21 | 28 | 2.807 | 34 | 3.409 | 19.21 | 20.31 | 23.46 | 24.88 | 26.30 | 26.61 | 29.76 | 30.55 | 34.49 | 38.42 | 42.36 | 46.30 | x50.24 | 55.12 | 59.68 | 65.98 | 81.73 |
| 1.22 | 36 | 3.609 | 44 | 4.411 | 17.79 | 18.89 | 22.04 | 23.46 | 24.88 | 25.19 | 28.34 | 29.13 | 33.07 | 37.00 | 40.94 | 44.88 | 48.82 | 53.70 | 58.26 | 64.56 | 80.32 |
| 1.23 | 26 | 2.607 | 32 | 3.208 | 19.53 | 20.63 | 23.78 | 25.20 | 26.61 | 26.93 | 30.08 | 30.87 | 34.80 | 38.74 | 42.68 | 46.61 | 50.55 | 55.43 | 60.00 | 66.30 | 82.05 |
| 1.25 | 24 | 2.406 | 30 | 3.008 | 19.84 | 20.94 | 24.09 | 25.51 | 26.93 | 27.24 | 30.39 | 31.18 | 35.12 | 39.05 | 42.99 | 46.93 | 50.87 | 55.75 | 60.31 | 66.61 | 82.36 |
| 1.25 | 32 | 3.208 | 40 | 4.010 | 18.42 | 19.52 | 22.67 | 24.09 | 25.51 | 25.82 | 28.97 | 29.76 | 33.70 | 37.63 | 41.57 | 45.51 | 49.45 | 54.33 | 58.89 | 65.19 | 80.95 |
| 1.25 | 64 | 6.416 | 80 | 8.020 | 12.73 | 13.83 | 16.99 | 18.41 | 19.83 | 20.14 | 23.29 | 24.08 | 28.02 | 31.96 | 35.90 | 39.83 | 43.77 | 48.66 | 53.22 | 59.52 | 75.27 |
| 1.25 | 72 | 7.218 | 90 | 9.023 | 11.30 | 12.41 | 15.56 | 16.99 | 18.40 | 18.72 | 21.87 | 22.66 | 26.60 | 30.54 | 34.48 | 38.41 | 42.35 | 47.24 | 51.80 | 58.10 | 73.85 |
| 1.26 | 38 | 3.810 | 48 | 4.812 | 17.32 | 18.42 | 21.57 | 22.99 | 24.40 | 24.72 | 27.87 | 28.66 | 32.59 | 36.53 | 40.47 | 44.41 | 48.35 | 53.23 | 57.79 | 64.09 | 79.84 |
| 1.27 | 30 | 3.008 | 38 | 3.810 | 18.74 | 19.84 | 22.99 | 24.41 | 25.82 | 26.14 | 29.29 | 30.08 | 34.01 | 37.95 | 41.89 | 45.82 | 49.76 | 54.64 | 59.21 | 65.51 | 81.26 |
| 1.27 | 22 | 2.206 | 28 | 2.807 | 20.16 | 21.26 | 24.41 | 25.83 | 27.24 | 27.56 | 30.71 | 31.50 | 35.43 | 39.37 | 43.31 | 47.24 | 51.18 | 56.06 | 60.63 | 66.93 | 82.68 |
| 1.27 | 44 | 4.411 | 56 | 5.614 | 16.21 | 17.31 | 20.46 | 21.88 | 23.30 | 23.61 | 26.76 | 27.55 | 31.49 | 35.43 | 39.37 | 43.30 | 47.24 | 52.12 | 56.69 | 62.99 | 78.74 |
| 1.29 | 28 | 2.807 | 36 | 3.609 | 19.05 | 20.15 | 23.30 | 24.72 | 26.14 | 26.45 | 29.60 | 30.39 | 34.33 | 38.26 | 42.20 | 46.14 | 50.08 | 54.96 | 59.52 | 65.82 | 81.57 |
| 1.29 | 56 | 5.614 | 72 | 7.218 | 13.99 | 15.10 | 18.25 | 19.67 | 21.09 | 21.40 | 24.55 | 25.34 | 29.28 | 33.22 | 37.16 | 41.09 | 45.03 | 49.92 | 54.48 | 60.78 | 76.53 |
| 1.29 | 34 | 3.409 | 44 | 4.411 | 17.95 | 19.05 | 22.20 | 23.62 | 25.03 | 25.35 | 28.50 | 29.29 | 33.22 | 37.16 | 41.10 | 45.04 | 48.98 | 53.86 | 58.42 | 64.72 | 80.47 |
| 1.31 | 26 | 2.607 | 34 | 3.409 | 19.37 | 20.47 | 23.62 | 25.04 | 26.45 | 26.77 | 29.92 | 30.71 | 34.64 | 38.58 | 42.52 | 46.45 | 50.39 | 55.27 | 59.84 | 66.14 | 81.89 |
| 1.33 | 24 | 2.406 | 32 | 3.208 | 19.68 | 20.78 | 23.93 | 25.35 | 26.77 | 27.08 | 30.23 | 31.02 | 34.96 | 38.89 | 42.83 | 46.77 | 50.71 | 55.59 | 60.15 | 66.45 | 82.20 |
| 1.33 | 30 | 3.008 | 40 | 4.010 | 18.58 | 19.68 | 22.83 | 24.25 | 25.66 | 25.98 | 29.13 | 29.92 | 33.85 | 37.79 | 41.73 | 45.67 | 49.61 | 54.49 | 59.05 | 65.35 | 81.10 |
| 1.33 | 36 | 3.609 | 48 | 4.812 | 17.47 | 18.57 | 21.72 | 23.14 | 24.56 | 24.87 | 28.02 | 28.81 | 32.75 | 36.69 | 40.63 | 44.56 | 48.50 | 53.38 | 57.95 | 64.25 | 80.00 |
| 1.33 | 48 | 4.812 | 64 | 6.416 | 15.26 | 16.36 | 19.51 | 20.93 | 22.35 | 22.66 | 25.81 | 26.60 | 30.54 | 34.48 | 38.42 | 42.35 | 46.29 | 51.18 | 55.74 | 62.04 | 77.79 |
| 1.36 | 28 | 2.807 | 38 | 3.810 | 18.89 | 19.99 | 23.14 | 24.56 | 25.98 | 26.29 | 29.44 | 30.23 | 34.17 | 38.10 | 42.05 | 45.98 | 49.92 | 54.80 | 59.37 | 65.67 | 81.42 |
| 1.36 | 22 | 2.206 | 30 | 3.008 | 20.00 | 21.10 | 24.25 | 25.67 | 27.08 | 27.40 | 30.55 | 31.34 | 35.27 | 39.21 | 43.15 | 47.08 | 51.02 | 55.90 | 60.47 | 66.77 | 82.52 |
| 1.38 | 32 | 3.208 | 44 | 4.411 | 18.10 | 19.20 | 22.35 | 23.77 | 25.19 | 25.50 | 28.65 | 29.44 | 33.38 | 37.32 | 41.26 | 45.19 | 49.13 | 54.01 | 58.58 | 64.88 | 80.63 |
| 1.39 | 26 | 2.607 | 36 | 3.609 | 19.21 | 20.31 | 23.46 | 24.88 | 26.29 | 26.61 | 29.76 | 30.55 | 34.48 | 38.42 | 42.36 | 46.30 | 50.24 | 55.12 | 59.68 | 65.98 | 81.73 |
| 1.40 | 40 | 4.010 | 56 | 5.614 | 16.52 | 17.62 | 20.77 | 22.19 | 23.61 | 23.92 | 27.07 | 27.86 | 31.80 | 35.74 | 39.68 | 43.61 | 47.55 | 52.44 | 57.00 | 63.30 | 79.05 |
| 1.40 | 80 | 8.020 | 112 | 11.229 | – | 9.95 | 13.13 | 14.56 | 15.98 | 16.30 | 19.46 | 20.25 | 24.20 | 28.14 | 32.09 | 36.03 | 39.97 | 44.85 | 49.42 | 55.72 | 71.48 |
| 1.41 | 64 | 6.416 | 90 | 9.023 | 11.90 | 13.00 | 16.17 | 17.59 | 19.01 | 19.33 | 22.48 | 23.27 | 27.21 | 31.15 | 35.10 | 39.03 | 42.97 | 47.86 | 52.42 | 58.72 | 74.48 |
| 1.41 | 34 | 3.409 | 48 | 4.812 | 17.62 | 18.73 | 21.88 | 23.30 | 24.71 | 25.03 | 28.18 | 28.97 | 32.91 | 36.84 | 40.78 | 44.72 | 48.66 | 53.54 | 58.10 | 64.40 | 80.16 |
| 1.42 | 24 | 2.406 | 34 | 3.409 | 19.52 | 20.62 | 23.77 | 25.19 | 26.61 | 26.92 | 30.07 | 30.86 | 34.80 | 38.73 | 42.67 | 46.61 | 50.55 | 55.43 | 60.00 | 66.30 | 82.05 |
| 1.43 | 28 | 2.807 | 40 | 4.010 | 18.73 | 19.83 | 22.98 | 24.40 | 25.82 | 26.13 | 29.28 | 30.07 | 34.01 | 37.95 | 41.89 | 45.82 | 49.76 | 54.64 | 59.21 | 65.51 | 81.26 |
| 1.43 | 56 | 5.614 | 80 | 8.020 | 13.33 | 14.44 | 17.60 | 19.02 | 20.44 | 20.75 | 23.91 | 24.70 | 28.64 | 32.57 | 36.52 | 40.45 | 44.40 | 49.28 | 53.84 | 60.14 | 75.90 |
| 1.46 | 22 | 2.206 | 32 | 3.208 | 19.84 | 20.94 | 24.09 | 25.51 | 26.92 | 27.24 | 30.39 | 31.18 | 35.11 | 39.05 | 42.99 | 46.93 | 50.87 | 55.75 | 60.31 | 66.61 | 82.36 |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 480-8M | 560-8M | 600-8M | 640-8M | 720-8M | 800-8M | 840-8M | 880-8M | 920-8M | 960-8M | 1040-8M | 1064-8M | 1120-8M | 1160-8M | 1200-8M |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.80** | **0.90** | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |
| 1.46 | 44 | 4.411 | 64 | 6.416 | – | – | – | – | – | 7.18 | 7.97 | 8.76 | 9.55 | 10.35 | 11.92 | 12.40 | 13.50 | 14.30 | 15.08 |
| 1.46 | 26 | 2.607 | 38 | 3.810 | 4.37 | 5.95 | 6.74 | 7.54 | 9.12 | 10.69 | 11.48 | 12.27 | 13.06 | 13.85 | 15.42 | 15.89 | 16.99 | 17.78 | 18.57 |
| 1.47 | 30 | 3.008 | 44 | 4.411 | – | 5.15 | 5.94 | 6.74 | 8.32 | 9.90 | 10.69 | 11.48 | 12.26 | 13.05 | 14.63 | 15.10 | 16.20 | 16.99 | 17.78 |
| 1.47 | 38 | 3.810 | 56 | 5.614 | – | – | – | – | 6.71 | 8.30 | 9.09 | 9.88 | 10.67 | 11.46 | 13.04 | 13.51 | 14.62 | 15.41 | 16.19 |
| 1.50 | 24 | 2.406 | 36 | 3.609 | 4.69 | 6.27 | 7.06 | 7.85 | 9.43 | 11.01 | 11.80 | 12.59 | 13.37 | 14.16 | 15.73 | 16.21 | 17.31 | 18.10 | 18.89 |
| 1.50 | 32 | 3.208 | 48 | 4.812 | – | 4.66 | 5.45 | 6.25 | 7.84 | 9.42 | 10.20 | 11.00 | 11.78 | 12.58 | 14.15 | 14.62 | 15.73 | 16.52 | 17.30 |
| 1.50 | 48 | 4.812 | 72 | 7.218 | – | – | – | – | – | – | 6.98 | 7.78 | 8.58 | 9.37 | 10.96 | 11.43 | 12.54 | 13.33 | 14.12 |
| 1.54 | 26 | 2.607 | 40 | 4.010 | 4.19 | 5.79 | 6.58 | 7.37 | 8.95 | 10.53 | 11.32 | 12.11 | 12.89 | 13.69 | 15.26 | 15.73 | 16.83 | 17.62 | 18.41 |
| 1.55 | 22 | 2.206 | 34 | 3.409 | 5.00 | 6.59 | 7.38 | 8.17 | 9.75 | 11.32 | 12.11 | 12.90 | 13.69 | 14.48 | 16.05 | 16.52 | 17.62 | 18.42 | 19.20 |
| 1.56 | 36 | 3.609 | 56 | 5.614 | – | – | – | 5.26 | 6.86 | 8.45 | 9.24 | 10.03 | 10.82 | 11.61 | 13.19 | 13.66 | 14.77 | 15.56 | 16.35 |
| 1.56 | 72 | 7.218 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 1.57 | 28 | 2.807 | 44 | 4.411 | – | 5.30 | 6.09 | 6.88 | 8.47 | 10.05 | 10.84 | 11.63 | 12.42 | 13.21 | 14.78 | 15.25 | 16.36 | 17.15 | 17.93 |
| 1.58 | 24 | 2.406 | 38 | 3.810 | 4.51 | 6.10 | 6.89 | 7.69 | 9.27 | 10.85 | 11.63 | 12.42 | 13.21 | 14.00 | 15.57 | 16.05 | 17.15 | 17.94 | 18.72 |
| 1.60 | 30 | 3.008 | 48 | 4.812 | – | 4.80 | 5.60 | 6.39 | 7.98 | 9.57 | 10.35 | 11.15 | 11.93 | 12.73 | 14.30 | 14.78 | 15.88 | 16.67 | 17.45 |
| 1.60 | 40 | 4.010 | 64 | 6.416 | – | – | – | – | 5.86 | 7.46 | 8.26 | 9.06 | 9.85 | 10.64 | 12.22 | 12.70 | 13.80 | 14.60 | 15.38 |
| 1.61 | 56 | 5.614 | 90 | 9.023 | – | – | – | – | – | – | – | – | – | – | 8.81 | 9.29 | 10.41 | 11.21 | 12.00 |
| 1.64 | 22 | 2.206 | 36 | 3.609 | 4.83 | 6.42 | 7.21 | 8.00 | 9.58 | 11.16 | 11.95 | 12.74 | 13.52 | 14.32 | 15.89 | 16.36 | 17.46 | 18.25 | 19.04 |
| 1.64 | 44 | 4.411 | 72 | 7.218 | – | – | – | – | – | 6.46 | 7.27 | 8.07 | 8.87 | 9.66 | 11.25 | 11.73 | 12.83 | 13.63 | 14.42 |
| 1.65 | 34 | 3.409 | 56 | 5.614 | – | – | – | 5.40 | 7.00 | 8.59 | 9.38 | 10.18 | 10.97 | 11.76 | 13.34 | 13.81 | 14.92 | 15.71 | 16.50 |
| 1.67 | 24 | 2.406 | 40 | 4.010 | 4.34 | 5.93 | 6.72 | 7.52 | 9.10 | 10.68 | 11.47 | 12.26 | 13.05 | 13.84 | 15.41 | 15.89 | 16.99 | 17.78 | 18.56 |
| 1.67 | 48 | 4.812 | 80 | 8.020 | – | – | – | – | – | – | – | 7.06 | 7.87 | 8.67 | 10.27 | 10.75 | 11.86 | 12.65 | 13.45 |
| 1.68 | 38 | 3.810 | 64 | 6.416 | – | – | – | – | 6.00 | 7.61 | 8.40 | 9.20 | 9.99 | 10.79 | 12.37 | 12.85 | 13.95 | 14.75 | 15.53 |
| 1.69 | 26 | 2.607 | 44 | 4.411 | – | 5.44 | 6.23 | 7.03 | 8.62 | 10.20 | 10.99 | 11.78 | 12.57 | 13.36 | 14.93 | 15.41 | 16.51 | 17.30 | 18.09 |
| 1.71 | 28 | 2.807 | 48 | 4.812 | – | 4.94 | 5.74 | 6.54 | 8.13 | 9.71 | 10.50 | 11.30 | 12.08 | 12.88 | 14.45 | 14.93 | 16.03 | 16.82 | 17.61 |
| 1.73 | 22 | 2.206 | 38 | 3.810 | 4.66 | 6.25 | 7.04 | 7.83 | 9.42 | 11.00 | 11.78 | 12.57 | 13.36 | 14.15 | 15.72 | 16.20 | 17.30 | 18.09 | 18.88 |
| 1.75 | 32 | 3.208 | 56 | 5.614 | – | – | – | 5.54 | 7.14 | 8.74 | 9.53 | 10.33 | 11.12 | 11.91 | 13.49 | 13.96 | 15.07 | 15.86 | 16.65 |
| 1.75 | 64 | 6.416 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 9.45 |
| 1.78 | 36 | 3.609 | 64 | 6.416 | – | – | – | – | 6.14 | 7.75 | 8.55 | 9.35 | 10.14 | 10.94 | 12.52 | 13.00 | 14.10 | 14.90 | 15.68 |
| 1.80 | 40 | 4.010 | 72 | 7.218 | – | – | – | – | – | 6.74 | 7.55 | 8.35 | 9.15 | 9.95 | 11.54 | 12.02 | 13.13 | 13.92 | 14.71 |
| 1.80 | 80 | 8.020 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 1.82 | 22 | 2.206 | 40 | 4.010 | 4.48 | 6.08 | 6.87 | 7.66 | 9.25 | 10.83 | 11.62 | 12.41 | 13.20 | 13.99 | 15.56 | 16.04 | 17.14 | 17.93 | 18.72 |
| 1.82 | 44 | 4.411 | 80 | 8.020 | – | – | – | – | – | – | – | 7.34 | 8.15 | 8.95 | 10.55 | 11.03 | 12.15 | 12.95 | 13.74 |
| 1.83 | 24 | 2.406 | 44 | 4.411 | 3.97 | 5.58 | 6.38 | 7.18 | 8.76 | 10.35 | 11.14 | 11.93 | 12.72 | 13.51 | 15.08 | 15.56 | 16.66 | 17.45 | 18.24 |
| 1.85 | 26 | 2.607 | 48 | 4.812 | – | 5.08 | 5.88 | 6.68 | 8.27 | 9.86 | 10.65 | 11.44 | 12.23 | 13.03 | 14.60 | 15.08 | 16.18 | 16.97 | 17.76 |
| 1.87 | 30 | 3.008 | 56 | 5.614 | – | – | 4.86 | 5.68 | 7.29 | 8.88 | 9.68 | 10.47 | 11.26 | 12.06 | 13.64 | 14.11 | 15.22 | 16.01 | 16.80 |
| 1.88 | 48 | 4.812 | 90 | 9.023 | – | – | – | – | – | – | – | – | – | 7.75 | 9.37 | 9.85 | 10.98 | 11.78 | 12.58 |
| 1.88 | 34 | 3.409 | 64 | 6.416 | – | – | – | – | 6.28 | 7.89 | 8.69 | 9.49 | 10.28 | 11.08 | 12.66 | 13.14 | 14.25 | 15.04 | 15.83 |
| 1.90 | 38 | 3.810 | 72 | 7.218 | – | – | – | – | – | 6.88 | 7.68 | 8.49 | 9.29 | 10.09 | 11.68 | 12.16 | 13.27 | 14.07 | 14.86 |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.80** | **0.90** | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 1224-8M | 1280-8M | 1440-8M | 1512-8M | 1584-8M | 1600-8M | 1760-8M | 1800-8M | 2000-8M | 2200-8M | 2400-8M | 2600-8M | 2800-8M | 3048-8M | 3280-8M | 3600-8M | 4400-8M |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |
| 1.46 | 44 | 4.411 | 64 | 6.416 | 15.56 | 16.66 | 19.82 | 21.24 | 22.65 | 22.97 | 26.12 | 26.91 | 30.85 | 34.79 | 38.73 | 42.66 | 46.61 | 51.49 | 56.05 | 62.35 | 78.11 |
| 1.46 | 26 | 2.607 | 38 | 3.810 | 19.05 | 20.15 | 23.30 | 24.72 | 26.13 | 26.45 | 29.60 | 30.39 | 34.32 | 38.26 | 42.20 | 46.14 | 50.08 | 54.96 | 59.52 | 65.82 | 81.57 |
| 1.47 | 30 | 3.008 | 44 | 4.411 | 18.25 | 19.36 | 22.51 | 23.93 | 25.34 | 25.66 | 28.81 | 29.60 | 33.54 | 37.47 | 41.41 | 45.35 | 49.29 | 54.17 | 58.73 | 65.03 | 80.79 |
| 1.47 | 38 | 3.810 | 56 | 5.614 | 16.67 | 17.77 | 20.92 | 22.35 | 23.76 | 24.08 | 27.23 | 28.02 | 31.96 | 35.89 | 39.83 | 43.77 | 47.71 | 52.59 | 57.16 | 63.46 | 79.21 |
| 1.50 | 24 | 2.406 | 36 | 3.609 | 19.36 | 20.46 | 23.61 | 25.03 | 26.45 | 26.76 | 29.91 | 30.70 | 34.64 | 38.58 | 42.52 | 46.45 | 50.39 | 55.27 | 59.84 | 66.14 | 81.89 |
| 1.50 | 32 | 3.208 | 48 | 4.812 | 17.78 | 18.88 | 22.03 | 23.45 | 24.87 | 25.18 | 28.33 | 29.13 | 33.06 | 37.00 | 40.94 | 44.87 | 48.81 | 53.70 | 58.26 | 64.56 | 80.31 |
| 1.50 | 48 | 4.812 | 72 | 7.218 | 14.60 | 15.70 | 18.86 | 20.28 | 21.70 | 22.01 | 25.17 | 25.96 | 29.90 | 33.84 | 37.78 | 41.71 | 45.66 | 50.54 | 55.10 | 61.40 | 77.16 |
| 1.54 | 26 | 2.607 | 40 | 4.010 | 18.88 | 19.99 | 23.14 | 24.56 | 25.97 | 26.29 | 29.44 | 30.23 | 34.17 | 38.10 | 42.04 | 45.98 | 49.92 | 54.80 | 59.36 | 65.66 | 81.41 |
| 1.55 | 22 | 2.206 | 34 | 3.409 | 19.68 | 20.78 | 23.93 | 25.35 | 26.76 | 27.08 | 30.23 | 31.02 | 34.95 | 38.89 | 42.83 | 46.77 | 50.71 | 55.59 | 60.15 | 66.45 | 82.20 |
| 1.56 | 36 | 3.609 | 56 | 5.614 | 16.82 | 17.92 | 21.08 | 22.50 | 23.92 | 24.23 | 27.38 | 28.17 | 32.11 | 36.05 | 39.99 | 43.92 | 47.87 | 52.75 | 57.31 | 63.61 | 79.36 |
| 1.56 | 72 | 7.218 | 112 | 11.229 | – | 10.51 | 13.71 | 15.14 | 16.57 | 16.89 | 20.06 | 20.85 | 24.80 | 28.75 | 32.70 | 36.64 | 40.58 | 45.47 | 50.04 | 56.34 | 72.10 |
| 1.57 | 28 | 2.807 | 44 | 4.411 | 18.41 | 19.51 | 22.66 | 24.08 | 25.50 | 25.81 | 28.96 | 29.76 | 33.69 | 37.63 | 41.57 | 45.50 | 49.44 | 54.33 | 58.89 | 65.19 | 80.94 |
| 1.58 | 24 | 2.406 | 38 | 3.810 | 19.20 | 20.30 | 23.45 | 24.87 | 26.29 | 26.60 | 29.75 | 30.54 | 34.48 | 38.42 | 42.36 | 46.29 | 50.23 | 55.11 | 59.68 | 65.98 | 81.73 |
| 1.60 | 30 | 3.008 | 48 | 4.812 | 17.93 | 19.03 | 22.18 | 23.61 | 25.02 | 25.34 | 28.49 | 29.28 | 33.22 | 37.15 | 41.09 | 45.03 | 48.97 | 53.85 | 58.42 | 64.72 | 80.47 |
| 1.60 | 40 | 4.010 | 64 | 6.416 | 15.86 | 16.96 | 20.12 | 21.54 | 22.96 | 23.28 | 26.43 | 27.22 | 31.16 | 35.10 | 39.04 | 42.97 | 46.92 | 51.80 | 56.36 | 62.66 | 78.42 |
| 1.61 | 56 | 5.614 | 90 | 9.023 | 12.48 | 13.59 | 16.76 | 18.19 | 19.61 | 19.93 | 23.09 | 23.88 | 27.82 | 31.76 | 35.71 | 39.65 | 43.59 | 48.47 | 53.04 | 59.34 | 75.10 |
| 1.64 | 22 | 2.206 | 36 | 3.609 | 19.52 | 20.62 | 23.77 | 25.19 | 26.60 | 26.92 | 30.07 | 30.86 | 34.80 | 38.73 | 42.67 | 46.61 | 50.55 | 55.43 | 59.99 | 66.29 | 82.04 |
| 1.64 | 44 | 4.411 | 72 | 7.218 | 14.90 | 16.00 | 19.16 | 20.58 | 22.00 | 22.32 | 25.47 | 26.26 | 30.20 | 34.14 | 38.09 | 42.02 | 45.97 | 50.85 | 55.41 | 61.72 | 77.47 |
| 1.65 | 34 | 3.409 | 56 | 5.614 | 16.97 | 18.07 | 21.23 | 22.65 | 24.07 | 24.38 | 27.54 | 28.33 | 32.26 | 36.20 | 40.14 | 44.08 | 48.02 | 52.90 | 57.47 | 63.77 | 79.52 |
| 1.67 | 24 | 2.406 | 40 | 4.010 | 19.04 | 20.14 | 23.29 | 24.71 | 26.13 | 26.44 | 29.60 | 30.39 | 34.32 | 38.26 | 42.20 | 46.13 | 50.07 | 54.96 | 59.52 | 65.82 | 81.57 |
| 1.67 | 48 | 4.812 | 80 | 8.020 | 13.92 | 15.03 | 18.20 | 19.62 | 21.04 | 21.36 | 24.51 | 25.31 | 29.25 | 33.19 | 37.13 | 41.07 | 45.01 | 49.90 | 54.46 | 60.77 | 76.52 |
| 1.68 | 38 | 3.810 | 64 | 6.416 | 16.01 | 17.11 | 20.27 | 21.69 | 23.11 | 23.43 | 26.58 | 27.37 | 31.31 | 35.25 | 39.19 | 43.13 | 47.07 | 51.95 | 56.52 | 62.82 | 78.57 |
| 1.69 | 26 | 2.607 | 44 | 4.411 | 18.56 | 19.66 | 22.82 | 24.24 | 25.65 | 25.97 | 29.12 | 29.91 | 33.85 | 37.78 | 41.72 | 45.66 | 49.60 | 54.48 | 59.05 | 65.35 | 81.10 |
| 1.71 | 28 | 2.807 | 48 | 4.812 | 18.08 | 19.18 | 22.34 | 23.76 | 25.18 | 25.49 | 28.64 | 29.43 | 33.37 | 37.31 | 41.25 | 45.18 | 49.13 | 54.01 | 58.57 | 64.87 | 80.62 |
| 1.73 | 22 | 2.206 | 38 | 3.810 | 19.35 | 20.45 | 23.61 | 25.03 | 26.44 | 26.76 | 29.91 | 30.70 | 34.64 | 38.57 | 42.51 | 46.45 | 50.39 | 55.27 | 59.83 | 66.14 | 81.89 |
| 1.75 | 32 | 3.208 | 56 | 5.614 | 17.12 | 18.23 | 21.38 | 22.80 | 24.22 | 24.54 | 27.69 | 28.48 | 32.42 | 36.36 | 40.30 | 44.23 | 48.18 | 53.06 | 57.62 | 63.92 | 79.68 |
| 1.75 | 64 | 6.416 | 112 | 11.229 | 9.94 | 11.07 | 14.28 | 15.72 | 17.15 | 17.47 | 20.65 | 21.44 | 25.40 | 29.35 | 33.30 | 37.24 | 41.19 | 46.08 | 50.65 | 56.96 | 72.72 |
| 1.78 | 36 | 3.609 | 64 | 6.416 | 16.16 | 17.26 | 20.42 | 21.85 | 23.26 | 23.58 | 26.73 | 27.53 | 31.47 | 35.40 | 39.35 | 43.28 | 47.23 | 52.11 | 56.67 | 62.98 | 78.73 |
| 1.80 | 40 | 4.010 | 72 | 7.218 | 15.19 | 16.30 | 19.46 | 20.88 | 22.30 | 22.62 | 25.78 | 26.57 | 30.51 | 34.45 | 38.39 | 42.33 | 46.27 | 51.16 | 55.72 | 62.03 | 77.78 |
| 1.80 | 80 | 8.020 | 144 | 14.437 | – | – | – | 11.68 | 13.15 | 13.47 | 16.70 | 17.50 | 21.49 | 25.46 | 29.43 | 33.39 | 37.34 | 42.24 | 46.82 | 53.13 | 68.90 |
| 1.82 | 22 | 2.206 | 40 | 4.010 | 19.19 | 20.29 | 23.45 | 24.87 | 26.28 | 26.60 | 29.75 | 30.54 | 34.48 | 38.41 | 42.35 | 46.29 | 50.23 | 55.11 | 59.68 | 65.98 | 81.73 |
| 1.82 | 44 | 4.411 | 80 | 8.020 | 14.22 | 15.33 | 18.49 | 19.92 | 21.34 | 21.66 | 24.82 | 25.61 | 29.55 | 33.49 | 37.44 | 41.38 | 45.32 | 50.20 | 54.77 | 61.08 | 76.83 |
| 1.83 | 24 | 2.406 | 44 | 4.411 | 18.71 | 19.82 | 22.97 | 24.39 | 25.81 | 26.12 | 29.27 | 30.06 | 34.00 | 37.94 | 41.88 | 45.81 | 49.76 | 54.64 | 59.20 | 65.50 | 81.25 |
| 1.85 | 26 | 2.607 | 48 | 4.812 | 18.23 | 19.34 | 22.49 | 23.91 | 25.33 | 25.64 | 28.80 | 29.59 | 33.53 | 37.46 | 41.40 | 45.34 | 49.28 | 54.16 | 58.73 | 65.03 | 80.78 |
| 1.87 | 30 | 3.008 | 56 | 5.614 | 17.27 | 18.38 | 21.53 | 22.96 | 24.37 | 24.69 | 27.84 | 28.63 | 32.57 | 36.51 | 40.45 | 44.39 | 48.33 | 53.21 | 57.78 | 64.08 | 79.83 |
| 1.88 | 48 | 4.812 | 90 | 9.023 | 13.06 | 14.17 | 17.35 | 18.78 | 20.20 | 20.52 | 23.69 | 24.48 | 28.43 | 32.37 | 36.32 | 40.26 | 44.20 | 49.09 | 53.66 | 59.96 | 75.72 |
| 1.88 | 34 | 3.409 | 64 | 6.416 | 16.31 | 17.41 | 20.57 | 22.00 | 23.42 | 23.73 | 26.89 | 27.68 | 31.62 | 35.56 | 39.50 | 43.44 | 47.38 | 52.26 | 56.83 | 63.13 | 78.88 |
| 1.90 | 38 | 3.810 | 72 | 7.218 | 15.34 | 16.45 | 19.61 | 21.03 | 22.45 | 22.77 | 25.93 | 26.72 | 30.66 | 34.60 | 38.55 | 42.48 | 46.43 | 51.31 | 55.88 | 62.18 | 77.94 |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 560-8M | 600-8M | 640-8M | 720-8M | 800-8M | 840-8M | 880-8M | 920-8M | 960-8M | 1040-8M | 1064-8M | 1120-8M | 1160-8M | 1200-8M |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |
| 2.00 | 22 | 2.206 | 44 | 4.411 | 5.72 | 6.52 | 7.32 | 8.91 | 10.50 | 11.28 | 12.08 | 12.87 | 13.66 | 15.23 | 15.71 | 16.81 | 17.60 | 18.39 |
| 2.00 | 24 | 2.406 | 48 | 4.812 | 5.22 | 6.02 | 6.82 | 8.42 | 10.01 | 10.80 | 11.59 | 12.38 | 13.18 | 14.75 | 15.23 | 16.33 | 17.12 | 17.91 |
| 2.00 | 28 | 2.807 | 56 | 5.614 | – | 5.00 | 5.82 | 7.43 | 9.03 | 9.82 | 10.62 | 11.41 | 12.21 | 13.78 | 14.26 | 15.37 | 16.16 | 16.95 |
| 2.00 | 32 | 3.208 | 64 | 6.416 | – | – | – | 6.41 | 8.03 | 8.83 | 9.63 | 10.43 | 11.23 | 12.81 | 13.29 | 14.40 | 15.19 | 15.98 |
| 2.00 | 36 | 3.609 | 72 | 7.218 | – | – | – | – | 7.01 | 7.82 | 8.63 | 9.43 | 10.24 | 11.83 | 12.31 | 13.42 | 14.22 | 15.01 |
| 2.00 | 40 | 4.010 | 80 | 8.020 | – | – | – | – | – | 6.79 | 7.61 | 8.42 | 9.23 | 10.84 | 11.32 | 12.43 | 13.23 | 14.03 |
| 2.00 | 56 | 5.614 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | – | – | 9.17 | 9.99 |
| 2.00 | 72 | 7.218 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.05 | 44 | 4.411 | 90 | 9.023 | – | – | – | – | – | – | – | 7.19 | 8.01 | 9.64 | 10.13 | 11.26 | 12.06 | 12.86 |
| 2.11 | 38 | 3.810 | 80 | 8.020 | – | – | – | – | – | 6.92 | 7.75 | 8.56 | 9.37 | 10.98 | 11.46 | 12.58 | 13.38 | 14.17 |
| 2.12 | 34 | 3.409 | 72 | 7.218 | – | – | – | – | 7.15 | 7.96 | 8.77 | 9.57 | 10.38 | 11.97 | 12.45 | 13.56 | 14.36 | 15.15 |
| 2.13 | 30 | 3.008 | 64 | 6.416 | – | – | – | 6.55 | 8.17 | 8.97 | 9.77 | 10.57 | 11.37 | 12.96 | 13.44 | 14.54 | 15.34 | 16.13 |
| 2.15 | 26 | 2.607 | 56 | 5.614 | – | 5.13 | 5.95 | 7.57 | 9.17 | 9.96 | 10.76 | 11.56 | 12.35 | 13.93 | 14.41 | 15.52 | 16.31 | 17.10 |
| 2.18 | 22 | 2.206 | 48 | 4.812 | 5.35 | 6.16 | 6.97 | 8.56 | 10.15 | 10.95 | 11.74 | 12.53 | 13.32 | 14.90 | 15.38 | 16.48 | 17.27 | 18.06 |
| 2.22 | 36 | 3.609 | 80 | 8.020 | – | – | – | – | – | 7.05 | 7.88 | 8.70 | 9.51 | 11.12 | 11.60 | 12.72 | 13.52 | 14.32 |
| 2.25 | 32 | 3.208 | 72 | 7.218 | – | – | – | – | 7.28 | 8.10 | 8.91 | 9.71 | 10.52 | 12.12 | 12.60 | 13.71 | 14.51 | 15.30 |
| 2.25 | 40 | 4.010 | 90 | 9.023 | – | – | – | – | – | – | – | 7.45 | 8.28 | 9.92 | 10.41 | 11.54 | 12.34 | 13.14 |
| 2.25 | 64 | 6.416 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.29 | 28 | 2.807 | 64 | 6.416 | – | – | – | 6.69 | 8.31 | 9.11 | 9.92 | 10.71 | 11.51 | 13.10 | 13.58 | 14.69 | 15.49 | 16.28 |
| 2.33 | 24 | 2.406 | 56 | 5.614 | – | 5.26 | 6.09 | 7.71 | 9.31 | 10.11 | 10.91 | 11.70 | 12.50 | 14.08 | 14.56 | 15.66 | 16.46 | 17.25 |
| 2.33 | 48 | 4.812 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | – | 8.86 | 9.70 | 10.53 |
| 2.35 | 34 | 3.409 | 80 | 8.020 | – | – | – | – | 6.35 | 7.19 | 8.01 | 8.83 | 9.65 | 11.26 | 11.74 | 12.86 | 13.66 | 14.46 |
| 2.37 | 38 | 3.810 | 90 | 9.023 | – | – | – | – | – | – | 6.74 | 7.58 | 8.41 | 10.05 | 10.54 | 11.67 | 12.48 | 13.28 |
| 2.40 | 30 | 3.008 | 72 | 7.218 | – | – | – | 5.75 | 7.42 | 8.23 | 9.05 | 9.85 | 10.66 | 12.26 | 12.74 | 13.85 | 14.65 | 15.44 |
| 240 | 80 | 8.020 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.46 | 26 | 2.607 | 64 | 6.416 | – | – | 5.16 | 6.82 | 8.45 | 9.25 | 10.06 | 10.86 | 11.66 | 13.25 | 13.73 | 14.84 | 15.63 | 16.42 |
| 2.50 | 32 | 3.208 | 80 | 8.020 | – | – | – | – | 6.48 | 7.32 | 8.15 | 8.97 | 9.78 | 11.40 | 11.88 | 13.00 | 13.81 | 14.60 |
| 2.50 | 36 | 3.609 | 90 | 9.023 | – | – | – | – | – | – | 6.86 | 7.71 | 8.55 | 10.19 | 10.68 | 11.81 | 12.62 | 13.43 |
| 2.55 | 22 | 2.206 | 56 | 5.614 | 4.56 | 5.40 | 6.22 | 7.85 | 9.45 | 10.25 | 11.05 | 11.85 | 12.64 | 14.23 | 14.70 | 15.81 | 16.61 | 17.39 |
| 2.55 | 44 | 4.411 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | – | 9.12 | 9.96 | 10.79 |
| 2.57 | 28 | 2.807 | 72 | 7.218 | – | – | – | 5.88 | 7.55 | 8.37 | 9.19 | 9.99 | 10.80 | 12.40 | 12.88 | 14.00 | 14.80 | 15.59 |
| 2.57 | 56 | 5.614 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.65 | 34 | 3.409 | 90 | 9.023 | – | – | – | – | – | – | 6.99 | 7.84 | 8.68 | 10.32 | 10.81 | 11.95 | 12.76 | 13.56 |
| 2.67 | 24 | 2.406 | 64 | 6.416 | – | – | 5.29 | 6.96 | 8.59 | 9.39 | 10.20 | 11.00 | 11.80 | 13.39 | 13.87 | 14.98 | 15.78 | 16.57 |
| 2.67 | 30 | 3.008 | 80 | 8.020 | – | – | – | – | 6.61 | 7.45 | 8.28 | 9.10 | 9.92 | 11.54 | 12.02 | 13.14 | 13.95 | 14.75 |
| 2.67 | 72 | 7.218 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 2.77 | 26 | 2.607 | 72 | 7.218 | – | – | – | 6.01 | 7.68 | 8.50 | 9.32 | 10.13 | 10.94 | 12.54 | 13.02 | 14.14 | 14.94 | 15.73 |
| 2.80 | 40 | 4.010 | 112 | 11.229 | – | – | – | – | – | – | – | – | – | – | 8.16 | 9.37 | 10.22 | 11.06 |
| 2.81 | 32 | 3.208 | 90 | 9.023 | – | – | – | – | – | – | 7.12 | 7.97 | 8.81 | 10.46 | 10.95 | 12.09 | 12.90 | 13.70 |
| 2.86 | 28 | 2.807 | 80 | 8.020 | – | – | – | – | 6.74 | 7.58 | 8.41 | 9.24 | 10.06 | 11.67 | 12.16 | 13.28 | 14.09 | 14.89 |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1224-8M | 1280-8M | 1440-8M | 1512-8M | 1584-8M | 1600-8M | 1760-8M | 1800-8M | 2000-8M | 2200-8M | 2400-8M | 2600-8M | 2800-8M | 3048-8M | 3280-8M | 3600-8M | 4400-8M |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |
| 2.00 | 22 | 2.206 | 44 | 4.411 | 18.87 | 19.97 | 23.12 | 24.54 | 25.96 | 26.27 | 29.43 | 30.22 | 34.16 | 38.09 | 42.03 | 45.97 | 49.91 | 54.79 | 59.36 | 65.66 | 81.41 |
| 2.00 | 24 | 2.406 | 48 | 4.812 | 18.39 | 19.49 | 22.64 | 24.07 | 25.48 | 25.80 | 28.95 | 29.74 | 33.68 | 37.62 | 41.56 | 45.50 | 49.44 | 54.32 | 58.88 | 65.18 | 80.94 |
| 2.00 | 28 | 2.807 | 56 | 5.614 | 17.42 | 18.53 | 21.69 | 23.11 | 24.53 | 24.84 | 28.00 | 28.79 | 32.73 | 36.66 | 40.61 | 44.54 | 48.49 | 53.37 | 57.93 | 64.24 | 79.99 |
| 2.00 | 32 | 3.208 | 64 | 6.416 | 16.46 | 17.56 | 20.72 | 22.15 | 23.57 | 23.88 | 27.04 | 27.83 | 31.77 | 35.71 | 39.65 | 43.59 | 47.53 | 52.42 | 56.98 | 63.29 | 79.04 |
| 2.00 | 36 | 3.609 | 72 | 7.218 | 15.49 | 16.59 | 19.76 | 21.18 | 22.60 | 22.92 | 26.08 | 26.87 | 30.81 | 34.75 | 38.70 | 42.64 | 46.58 | 51.46 | 56.03 | 62.34 | 78.09 |
| 2.00 | 40 | 4.010 | 80 | 8.020 | 14.51 | 15.62 | 18.79 | 20.22 | 21.64 | 21.96 | 25.12 | 25.91 | 29.85 | 33.80 | 37.74 | 41.68 | 45.63 | 50.51 | 55.08 | 61.38 | 77.14 |
| 2.00 | 56 | 5.614 | 112 | 11.229 | 10.49 | 11.63 | 14.85 | 16.29 | 17.73 | 18.05 | 21.23 | 22.03 | 25.99 | 29.94 | 33.90 | 37.85 | 41.80 | 46.69 | 51.26 | 57.57 | 73.33 |
| 2.00 | 72 | 7.218 | 144 | 14.437 | – | – | – | 12.22 | 13.69 | 14.02 | 17.26 | 18.07 | 22.07 | 26.05 | 30.02 | 33.98 | 37.94 | 42.84 | 47.42 | 53.74 | 69.51 |
| 2.05 | 44 | 4.411 | 90 | 9.023 | 13.34 | 14.46 | 17.64 | 19.07 | 20.50 | 20.82 | 23.98 | 24.78 | 28.73 | 32.67 | 36.62 | 40.56 | 44.51 | 49.40 | 53.96 | 60.27 | 76.03 |
| 2.11 | 38 | 3.810 | 80 | 8.020 | 14.65 | 15.76 | 18.94 | 20.36 | 21.79 | 22.10 | 25.27 | 26.06 | 30.00 | 33.95 | 37.90 | 41.84 | 45.78 | 50.67 | 55.23 | 61.54 | 77.30 |
| 2.12 | 34 | 3.409 | 72 | 7.218 | 15.63 | 16.74 | 19.91 | 21.33 | 22.75 | 23.07 | 26.23 | 27.02 | 30.97 | 34.91 | 38.85 | 42.79 | 46.73 | 51.62 | 56.19 | 62.49 | 78.25 |
| 2.13 | 30 | 3.008 | 64 | 6.416 | 16.61 | 17.71 | 20.87 | 22.30 | 23.72 | 24.03 | 27.19 | 27.98 | 31.92 | 35.86 | 39.81 | 43.75 | 47.69 | 52.57 | 57.14 | 63.44 | 79.20 |
| 2.15 | 26 | 2.607 | 56 | 5.614 | 17.57 | 18.68 | 21.84 | 23.26 | 24.68 | 24.99 | 28.15 | 28.94 | 32.88 | 36.82 | 40.76 | 44.70 | 48.64 | 53.52 | 58.09 | 64.39 | 80.14 |
| 2.18 | 22 | 2.206 | 48 | 4.812 | 18.54 | 19.64 | 22.80 | 24.22 | 25.63 | 25.95 | 29.10 | 29.89 | 33.83 | 37.77 | 41.71 | 45.65 | 49.59 | 54.47 | 59.04 | 65.34 | 81.09 |
| 2.22 | 36 | 3.609 | 80 | 8.020 | 14.80 | 15.91 | 19.08 | 20.51 | 21.94 | 22.25 | 25.42 | 26.21 | 30.16 | 34.10 | 38.05 | 41.99 | 45.93 | 50.82 | 55.39 | 61.69 | 77.45 |
| 2.25 | 32 | 3.208 | 72 | 7.218 | 15.78 | 16.89 | 20.06 | 21.48 | 22.90 | 23.22 | 26.38 | 27.17 | 31.12 | 35.06 | 39.00 | 42.94 | 46.89 | 51.77 | 56.34 | 62.64 | 78.40 |
| 2.25 | 40 | 4.010 | 90 | 9.023 | 13.63 | 14.75 | 17.93 | 19.37 | 20.79 | 21.11 | 24.28 | 25.07 | 29.03 | 32.97 | 36.92 | 40.87 | 44.81 | 49.70 | 54.27 | 60.58 | 76.34 |
| 2.25 | 64 | 6.416 | 144 | 14.437 | – | – | 11.24 | 12.75 | 14.23 | 14.56 | 17.81 | 18.62 | 22.64 | 26.62 | 30.60 | 34.57 | 38.53 | 43.44 | 48.02 | 54.34 | 70.12 |
| 2.29 | 28 | 2.807 | 64 | 6.416 | 16.75 | 17.86 | 21.02 | 22.45 | 23.87 | 24.18 | 27.34 | 28.13 | 32.08 | 36.02 | 39.96 | 43.90 | 47.84 | 52.73 | 57.29 | 63.60 | 79.35 |
| 2.33 | 24 | 2.406 | 56 | 5.614 | 17.72 | 18.83 | 21.99 | 23.41 | 24.83 | 25.14 | 28.30 | 29.09 | 33.03 | 36.97 | 40.91 | 44.85 | 48.79 | 53.68 | 58.24 | 64.55 | 80.30 |
| 2.33 | 48 | 4.812 | 112 | 11.229 | 11.03 | 12.17 | 15.41 | 16.86 | 18.30 | 18.62 | 21.81 | 22.61 | 26.58 | 30.54 | 34.50 | 38.45 | 42.40 | 47.29 | 51.87 | 58.18 | 73.95 |
| 2.35 | 34 | 3.409 | 80 | 8.020 | 14.94 | 16.05 | 19.23 | 20.66 | 22.08 | 22.40 | 25.56 | 26.36 | 30.31 | 34.25 | 38.20 | 42.14 | 46.09 | 50.97 | 55.54 | 61.85 | 77.60 |
| 2.37 | 38 | 3.810 | 90 | 9.023 | 13.77 | 14.89 | 18.08 | 19.51 | 20.94 | 21.26 | 24.43 | 25.22 | 29.17 | 33.12 | 37.07 | 41.02 | 44.97 | 49.85 | 54.42 | 60.73 | 76.49 |
| 2.40 | 30 | 3.008 | 72 | 7.218 | 15.92 | 17.03 | 20.20 | 21.63 | 23.05 | 23.37 | 26.53 | 27.32 | 31.27 | 35.21 | 39.16 | 43.10 | 47.04 | 51.93 | 56.49 | 62.80 | 78.56 |
| 240 | 80 | 8.020 | 192 | 19.249 | – | – | – | – | – | – | – | – | 17.04 | 21.16 | 25.21 | 29.24 | 33.24 | 38.18 | 42.79 | 49.14 | 64.97 |
| 2.46 | 26 | 2.607 | 64 | 6.416 | 16.90 | 18.01 | 21.17 | 22.60 | 24.02 | 24.33 | 27.49 | 28.28 | 32.23 | 36.17 | 40.11 | 44.05 | 48.00 | 52.88 | 57.45 | 63.75 | 79.51 |
| 2.50 | 32 | 3.208 | 80 | 8.020 | 15.08 | 16.20 | 19.38 | 20.81 | 22.23 | 22.55 | 25.71 | 26.51 | 30.46 | 34.40 | 38.35 | 42.29 | 46.24 | 51.12 | 55.69 | 62.00 | 77.76 |
| 2.50 | 36 | 3.609 | 90 | 9.023 | 13.91 | 15.03 | 18.22 | 19.66 | 21.08 | 21.40 | 24.57 | 25.37 | 29.32 | 33.27 | 37.23 | 41.17 | 45.12 | 50.01 | 54.58 | 60.88 | 76.65 |
| 2.55 | 22 | 2.206 | 56 | 5.614 | 17.87 | 18.98 | 22.14 | 23.56 | 24.98 | 25.30 | 28.45 | 29.24 | 33.18 | 37.12 | 41.07 | 45.01 | 48.95 | 53.83 | 58.40 | 64.70 | 80.46 |
| 2.55 | 44 | 4.411 | 112 | 11.229 | 11.29 | 12.44 | 15.69 | 17.14 | 18.58 | 18.90 | 22.10 | 22.90 | 26.87 | 30.83 | 34.79 | 38.75 | 42.70 | 47.59 | 52.17 | 58.48 | 74.25 |
| 2.57 | 28 | 2.807 | 72 | 7.218 | 16.07 | 17.18 | 20.35 | 21.78 | 23.20 | 23.52 | 26.68 | 27.47 | 31.42 | 35.36 | 39.31 | 43.25 | 47.19 | 52.08 | 56.65 | 62.95 | 78.71 |
| 2.57 | 56 | 5.614 | 144 | 14.437 | – | – | 11.76 | 13.28 | 14.77 | 15.10 | 18.36 | 19.18 | 23.20 | 27.20 | 31.18 | 35.15 | 39.12 | 44.03 | 48.62 | 54.94 | 70.73 |
| 2.65 | 34 | 3.409 | 90 | 9.023 | 14.05 | 15.17 | 18.37 | 19.80 | 21.23 | 21.55 | 24.72 | 25.52 | 29.47 | 33.42 | 37.38 | 41.32 | 45.27 | 50.16 | 54.73 | 61.04 | 76.80 |
| 2.67 | 24 | 2.406 | 64 | 6.416 | 17.05 | 18.16 | 21.32 | 22.75 | 24.17 | 24.48 | 27.64 | 28.44 | 32.38 | 36.32 | 40.27 | 44.21 | 48.15 | 53.03 | 57.60 | 63.90 | 79.66 |
| 2.67 | 30 | 3.008 | 80 | 8.020 | 15.23 | 16.34 | 19.52 | 20.95 | 22.38 | 22.70 | 25.86 | 26.66 | 30.61 | 34.55 | 38.50 | 42.44 | 46.39 | 51.28 | 55.85 | 62.15 | 77.91 |
| 2.67 | 72 | 7.218 | 192 | 19.249 | – | – | – | – | – | – | – | – | 17.56 | 21.70 | 25.77 | 29.80 | 33.81 | 38.76 | 43.37 | 49.73 | 65.56 |
| 2.77 | 26 | 2.607 | 72 | 7.218 | 16.21 | 17.32 | 20.50 | 21.93 | 23.35 | 23.67 | 26.83 | 27.62 | 31.57 | 35.51 | 39.46 | 43.40 | 47.35 | 52.23 | 56.80 | 63.11 | 78.86 |
| 2.80 | 40 | 4.010 | 112 | 11.229 | 11.56 | 12.71 | 15.97 | 17.42 | 18.86 | 19.19 | 22.38 | 23.18 | 27.16 | 31.13 | 35.09 | 39.04 | 43.00 | 47.90 | 52.47 | 58.79 | 74.56 |
| 2.81 | 32 | 3.208 | 90 | 9.023 | 14.19 | 15.31 | 18.51 | 19.95 | 21.38 | 21.69 | 24.87 | 25.66 | 29.62 | 33.57 | 37.53 | 41.47 | 45.42 | 50.31 | 54.88 | 61.19 | 76.95 |
| 2.86 | 28 | 2.807 | 80 | 8.020 | 15.37 | 16.49 | 19.67 | 21.10 | 22.53 | 22.84 | 26.01 | 26.80 | 30.76 | 34.70 | 38.65 | 42.60 | 46.54 | 51.43 | 56.00 | 62.31 | 78.07 |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 720-8M | 800-8M | 840-8M | 880-8M | 920-8M | 960-8M | 1040-8M | 1064-8M | 1120-8M | 1160-8M | 1200-8M |
| **Length Factor*** | | | | | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |
| 2.91 | 22 | 2.206 | 64 | 6.416 | 7.09 | 8.72 | 9.53 | 10.34 | 11.14 | 11.94 | 13.53 | 14.01 | 15.13 | 15.92 | 16.72 |
| 2.95 | 38 | 3.810 | 112 | 11.229 | – | – | – | – | – | – | – | 8.29 | 9.50 | 10.35 | 11.19 |
| 3.00 | 24 | 2.406 | 72 | 7.218 | 6.14 | 7.82 | 8.64 | 9.46 | 10.27 | 11.08 | 12.68 | 13.17 | 14.28 | 15.08 | 15.88 |
| 3.00 | 30 | 3.008 | 90 | 9.023 | – | – | 6.36 | 7.24 | 8.10 | 8.94 | 10.59 | 11.09 | 12.22 | 13.04 | 13.84 |
| 3.00 | 48 | 4.812 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 3.00 | 64 | 6.416 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 3.08 | 26 | 2.607 | 80 | 8.020 | – | 6.86 | 7.71 | 8.55 | 9.37 | 10.19 | 11.81 | 12.30 | 13.42 | 14.23 | 15.03 |
| 3.11 | 36 | 3.609 | 112 | 11.229 | – | – | – | – | – | – | 7.88 | 8.41 | 9.63 | 10.48 | 11.32 |
| 3.21 | 28 | 2.807 | 90 | 9.023 | – | – | 6.48 | 7.37 | 8.22 | 9.07 | 10.73 | 11.22 | 12.36 | 13.18 | 13.98 |
| 3.27 | 22 | 2.206 | 72 | 7.218 | 6.27 | 7.95 | 8.77 | 9.59 | 10.41 | 11.22 | 12.82 | 13.31 | 14.43 | 15.23 | 16.02 |
| 3.27 | 44 | 4.411 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 3.29 | 34 | 3.409 | 112 | 11.229 | – | – | – | – | – | – | 8.00 | 8.54 | 9.75 | 10.61 | 11.45 |
| 3.33 | 24 | 2.406 | 80 | 8.020 | – | 6.99 | 7.84 | 8.68 | 9.50 | 10.33 | 11.95 | 12.44 | 13.56 | 14.37 | 15.17 |
| 3.43 | 56 | 5.614 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 3.46 | 26 | 2.607 | 90 | 9.023 | – | – | 6.61 | 7.49 | 8.35 | 9.20 | 10.86 | 11.35 | 12.50 | 13.31 | 14.12 |
| 3.50 | 32 | 3.208 | 112 | 11.229 | – | – | – | – | – | – | 8.12 | 8.66 | 9.88 | 10.74 | 11.58 |
| 3.60 | 40 | 4.010 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 3.64 | 22 | 2.206 | 80 | 8.020 | – | 7.12 | 7.97 | 8.81 | 9.64 | 10.46 | 12.09 | 12.58 | 13.70 | 14.51 | 15.31 |
| 3.73 | 30 | 3.008 | 112 | 11.229 | – | – | – | – | – | – | 8.24 | 8.78 | 10.01 | 10.87 | 11.71 |
| 3.75 | 24 | 2.406 | 90 | 9.023 | – | – | 6.73 | 7.62 | 8.48 | 9.33 | 10.99 | 11.49 | 12.63 | 13.45 | 14.26 |
| 3.79 | 38 | 3.810 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 4.00 | 28 | 2.807 | 112 | 11.229 | – | – | – | – | – | – | 8.36 | 8.91 | 10.13 | 10.99 | 11.84 |
| 4.00 | 36 | 3.609 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 4.00 | 48 | 4.812 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 4.09 | 22 | 2.206 | 90 | 9.023 | – | 5.92 | 6.85 | 7.74 | 8.61 | 9.46 | 11.12 | 11.62 | 12.77 | 13.59 | 14.40 |
| 4.24 | 34 | 3.409 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 4.31 | 26 | 2.607 | 112 | 11.229 | – | – | – | – | – | – | 8.48 | 9.03 | 10.26 | 11.12 | 11.97 |
| 4.36 | 44 | 4.411 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 4.50 | 32 | 3.208 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 4.67 | 24 | 2.406 | 112 | 11.229 | – | – | – | – | – | – | 8.60 | 9.15 | 10.38 | 11.25 | 12.10 |
| 4.80 | 30 | 3.008 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 4.80 | 40 | 4.010 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 5.05 | 38 | 3.810 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 5.09 | 22 | 2.206 | 112 | 11.229 | – | – | – | – | – | – | 8.72 | 9.27 | 10.51 | 11.38 | 12.23 |
| 5.14 | 28 | 2.807 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 5.33 | 36 | 3.609 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 5.54 | 26 | 2.607 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 5.65 | 34 | 3.409 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 6.00 | 24 | 2.406 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 6.00 | 32 | 3.208 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 6.40 | 30 | 3.008 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| 6.55 | 22 | 2.206 | 144 | 14.437 | – | – | – | – | – | – | – | – | – | – | – |
| 6.86 | 28 | 2.807 | 192 | 19.249 | – | – | – | – | – | – | – | – | – | – | – |
| **Length Factor*** | | | | | **0.90** | **0.90** | **0.90** | **0.90** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** | **1.00** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 8 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | 1224-8M | 1280-8M | 1440-8M | 1512-8M | 1584-8M | 1600-8M | 1760-8M | 1800-8M | 2000-8M | 2200-8M | 2400-8M | 2600-8M | 2800-8M | 3048-8M | 3280-8M | 3600-8M | 4400-8M |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | | | | | | | | | | | | | | | | | |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |
| 2.91 | 22 | 2.206 | 64 | 6.416 | 17.19 | 18.30 | 21.47 | 22.90 | 24.32 | 24.63 | 27.79 | 28.59 | 32.53 | 36.47 | 40.42 | 44.36 | 48.30 | 53.19 | 57.75 | 64.06 | 79.82 |
| 2.95 | 38 | 3.810 | 112 | 11.229 | 11.69 | 12.84 | 16.10 | 17.56 | 19.01 | 19.33 | 22.53 | 23.33 | 27.31 | 31.27 | 35.24 | 39.19 | 43.15 | 48.05 | 52.62 | 58.94 | 74.71 |
| 3.00 | 24 | 2.406 | 72 | 7.218 | 16.36 | 17.47 | 20.65 | 22.08 | 23.50 | 23.81 | 26.98 | 27.77 | 31.72 | 35.67 | 39.61 | 43.55 | 47.50 | 52.39 | 56.96 | 63.26 | 79.02 |
| 3.00 | 30 | 3.008 | 90 | 9.023 | 14.33 | 15.45 | 18.65 | 20.09 | 21.52 | 21.84 | 25.01 | 25.81 | 29.77 | 33.72 | 37.68 | 41.62 | 45.57 | 50.46 | 55.03 | 61.34 | 77.11 |
| 3.00 | 48 | 4.812 | 144 | 14.437 | – | – | 12.27 | 13.80 | 15.30 | 15.63 | 18.91 | 19.73 | 23.76 | 27.77 | 31.76 | 35.74 | 39.71 | 44.62 | 49.21 | 55.54 | 71.33 |
| 3.00 | 64 | 6.416 | 192 | 19.249 | – | – | – | – | – | – | – | – | 18.08 | 22.23 | 26.31 | 30.36 | 34.37 | 39.33 | 43.95 | 50.31 | 66.16 |
| 3.08 | 26 | 2.607 | 80 | 8.020 | 15.51 | 16.63 | 19.81 | 21.25 | 22.67 | 22.99 | 26.16 | 26.95 | 30.90 | 34.85 | 38.80 | 42.75 | 46.70 | 51.58 | 56.15 | 62.46 | 78.22 |
| 3.11 | 36 | 3.609 | 112 | 11.229 | 11.82 | 12.98 | 16.24 | 17.70 | 19.15 | 19.47 | 22.67 | 23.47 | 27.45 | 31.42 | 35.39 | 39.34 | 43.30 | 48.20 | 52.77 | 59.09 | 74.86 |
| 3.21 | 28 | 2.807 | 90 | 9.023 | 14.47 | 15.59 | 18.80 | 20.23 | 21.67 | 21.98 | 25.16 | 25.96 | 29.92 | 33.87 | 37.83 | 41.77 | 45.72 | 50.61 | 55.19 | 61.50 | 77.26 |
| 3.27 | 22 | 2.206 | 72 | 7.218 | 16.50 | 17.61 | 20.79 | 22.22 | 23.65 | 23.96 | 27.13 | 27.92 | 31.87 | 35.82 | 39.76 | 43.71 | 47.65 | 52.54 | 57.11 | 63.41 | 79.17 |
| 3.27 | 44 | 4.411 | 144 | 14.437 | – | – | 12.52 | 14.06 | 15.56 | 15.89 | 19.18 | 20.00 | 24.04 | 28.05 | 32.05 | 36.03 | 40.00 | 44.92 | 49.51 | 55.84 | 71.64 |
| 3.29 | 34 | 3.409 | 112 | 11.229 | 11.95 | 13.11 | 16.38 | 17.84 | 19.29 | 19.61 | 22.81 | 23.61 | 27.60 | 31.57 | 35.53 | 39.49 | 43.45 | 48.35 | 52.92 | 59.24 | 75.02 |
| 3.33 | 24 | 2.406 | 80 | 8.020 | 15.65 | 16.77 | 19.96 | 21.39 | 22.82 | 23.14 | 26.31 | 27.10 | 31.05 | 35.00 | 38.96 | 42.90 | 46.85 | 51.74 | 56.31 | 62.61 | 78.38 |
| 3.43 | 56 | 5.614 | 192 | 19.249 | – | – | – | – | – | – | 13.39 | 14.29 | 18.60 | 22.77 | 26.86 | 30.91 | 34.94 | 39.90 | 44.53 | 50.89 | 66.75 |
| 3.46 | 26 | 2.607 | 90 | 9.023 | 14.61 | 15.73 | 18.94 | 20.38 | 21.81 | 22.13 | 25.31 | 26.10 | 30.06 | 34.02 | 37.98 | 41.92 | 45.87 | 50.76 | 55.34 | 61.65 | 77.41 |
| 3.50 | 32 | 3.208 | 112 | 11.229 | 12.08 | 13.24 | 16.52 | 17.98 | 19.43 | 19.75 | 22.95 | 23.76 | 27.74 | 31.71 | 35.68 | 39.64 | 43.60 | 48.50 | 53.07 | 59.39 | 75.17 |
| 3.60 | 40 | 4.010 | 144 | 14.437 | – | – | 12.78 | 14.32 | 15.82 | 16.16 | 19.45 | 20.27 | 24.32 | 28.34 | 32.34 | 36.32 | 40.29 | 45.21 | 49.80 | 56.13 | 71.94 |
| 3.64 | 22 | 2.206 | 80 | 8.020 | 15.80 | 16.91 | 20.10 | 21.54 | 22.96 | 23.28 | 26.45 | 27.25 | 31.20 | 35.15 | 39.11 | 43.05 | 47.00 | 51.89 | 56.46 | 62.77 | 78.53 |
| 3.73 | 30 | 3.008 | 112 | 11.229 | 12.21 | 13.38 | 16.65 | 18.11 | 19.56 | 19.89 | 23.10 | 23.90 | 27.88 | 31.86 | 35.83 | 39.79 | 43.75 | 48.64 | 53.22 | 59.54 | 75.32 |
| 3.75 | 24 | 2.406 | 90 | 9.023 | 14.75 | 15.87 | 19.08 | 20.52 | 21.95 | 22.27 | 25.45 | 26.25 | 30.21 | 34.17 | 38.13 | 42.07 | 46.02 | 50.92 | 55.49 | 61.80 | 77.57 |
| 3.79 | 38 | 3.810 | 144 | 14.437 | – | – | 12.90 | 14.45 | 15.96 | 16.29 | 19.59 | 20.41 | 24.46 | 28.48 | 32.48 | 36.46 | 40.44 | 45.36 | 49.95 | 56.28 | 72.09 |
| 4.00 | 28 | 2.807 | 112 | 11.229 | 12.35 | 13.51 | 16.79 | 18.25 | 19.70 | 20.03 | 23.24 | 24.04 | 28.03 | 32.00 | 35.97 | 39.93 | 43.89 | 48.79 | 53.37 | 59.69 | 75.47 |
| 4.00 | 36 | 3.609 | 144 | 14.437 | – | 9.42 | 13.03 | 14.57 | 16.09 | 16.42 | 19.72 | 20.54 | 24.60 | 28.62 | 32.62 | 36.61 | 40.59 | 45.50 | 50.10 | 56.43 | 72.24 |
| 4.00 | 48 | 4.812 | 192 | 19.249 | – | – | – | – | – | – | 13.88 | 14.78 | 19.12 | 23.30 | 27.41 | 31.47 | 35.50 | 40.47 | 45.10 | 51.47 | 67.34 |
| 4.09 | 22 | 2.206 | 90 | 9.023 | 14.88 | 16.01 | 19.22 | 20.66 | 22.10 | 22.42 | 25.60 | 26.40 | 30.36 | 34.32 | 38.27 | 42.22 | 46.17 | 51.07 | 55.64 | 61.95 | 77.72 |
| 4.24 | 34 | 3.409 | 144 | 14.437 | – | 9.53 | 13.16 | 14.70 | 16.22 | 16.55 | 19.86 | 20.68 | 24.74 | 28.76 | 32.76 | 36.75 | 40.73 | 45.65 | 50.25 | 56.58 | 72.39 |
| 4.31 | 26 | 2.607 | 112 | 11.229 | 12.48 | 13.64 | 16.93 | 18.39 | 19.84 | 20.17 | 23.38 | 24.18 | 28.17 | 32.15 | 36.12 | 40.08 | 44.04 | 48.94 | 53.52 | 59.84 | 75.63 |
| 4.36 | 44 | 4.411 | 192 | 19.249 | – | – | – | – | – | – | 4.12 | 15.03 | 19.38 | 25.57 | 27.68 | 31.74 | 35.78 | 40.75 | 45.39 | 51.76 | 67.63 |
| 4.50 | 32 | 3.208 | 144 | 14.437 | – | 9.65 | 13.28 | 14.83 | 16.35 | 16.68 | 19.99 | 20.81 | 24.88 | 28.90 | 32.91 | 36.89 | 40.88 | 45.80 | 50.39 | 56.73 | 72.54 |
| 4.67 | 24 | 2.406 | 112 | 11.229 | 12.61 | 13.77 | 17.06 | 18.53 | 19.98 | 20.30 | 23.52 | 24.32 | 28.32 | 32.29 | 36.27 | 40.23 | 44.19 | 49.09 | 53.67 | 59.99 | 75.78 |
| 4.80 | 30 | 3.008 | 144 | 14.437 | – | 9.77 | 13.41 | 14.96 | 16.48 | 16.81 | 20.13 | 20.95 | 25.01 | 29.04 | 33.05 | 37.04 | 41.02 | 45.94 | 50.54 | 56.88 | 72.69 |
| 4.80 | 40 | 4.010 | 192 | 19.249 | – | – | – | – | – | – | 14.37 | 15.27 | 19.63 | 23.83 | 27.95 | 32.02 | 36.05 | 41.03 | 45.67 | 52.05 | 67.93 |
| 5.05 | 38 | 3.810 | 192 | 19.249 | – | – | – | – | – | – | 14.49 | 15.40 | 19.76 | 23.96 | 28.08 | 32.15 | 36.19 | 41.18 | 45.82 | 52.19 | 68.08 |
| 5.09 | 22 | 2.206 | 112 | 11.229 | 12.74 | 13.90 | 17.20 | 18.67 | 20.12 | 20.44 | 23.66 | 24.47 | 28.46 | 32.44 | 36.41 | 40.38 | 44.34 | 49.24 | 53.82 | 60.14 | 75.93 |
| 5.14 | 28 | 2.807 | 144 | 14.437 | – | 9.89 | 13.53 | 15.09 | 16.61 | 16.94 | 20.26 | 21.08 | 25.15 | 29.18 | 33.19 | 37.18 | 41.17 | 46.09 | 50.69 | 57.02 | 72.84 |
| 5.33 | 36 | 3.609 | 192 | 19.249 | – | – | – | – | – | – | 14.61 | 15.52 | 19.89 | 24.09 | 28.22 | 32.29 | 36.33 | 41.32 | 45.96 | 52.34 | 68.22 |
| 5.54 | 26 | 2.607 | 144 | 14.437 | – | 10.00 | 13.66 | 15.21 | 16.74 | 17.07 | 20.39 | 21.22 | 25.29 | 29.32 | 33.33 | 37.32 | 41.31 | 46.23 | 50.83 | 57.17 | 72.99 |
| 5.65 | 34 | 3.409 | 192 | 19.249 | – | – | – | – | – | – | 14.73 | 15.64 | 20.02 | 24.23 | 28.35 | 32.43 | 36.47 | 41.46 | 46.10 | 52.48 | 68.37 |
| 6.00 | 24 | 2.406 | 144 | 14.437 | – | 10.12 | 13.78 | 15.34 | 16.87 | 17.20 | 20.53 | 21.35 | 25.43 | 29.46 | 33.47 | 37.47 | 41.45 | 46.38 | 50.98 | 57.32 | 73.14 |
| 6.00 | 32 | 3.208 | 192 | 19.249 | – | – | – | – | – | – | 14.85 | 15.76 | 20.14 | 24.36 | 28.49 | 32.56 | 36.61 | 41.60 | 46.24 | 52.63 | 68.52 |
| 6.40 | 30 | 3.008 | 192 | 19.249 | – | – | – | – | – | – | 14.97 | 15.89 | 20.27 | 24.49 | 28.62 | 32.70 | 36.75 | 41.74 | 46.38 | 52.77 | 68.66 |
| 6.55 | 22 | 2.206 | 144 | 14.437 | 8.80 | 10.24 | 13.91 | 15.47 | 17.00 | 17.33 | 20.66 | 21.49 | 25.56 | 29.60 | 33.62 | 37.61 | 41.60 | 46.53 | 51.13 | 57.47 | 73.29 |
| 6.86 | 28 | 2.807 | 192 | 19.249 | – | – | – | – | – | – | 15.09 | 16.01 | 20.40 | 24.62 | 28.75 | 32.84 | 36.89 | 41.88 | 46.53 | 52.91 | 68.81 |
| **Length Factor*** | | | | | **1.00** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** | **1.20** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 966-14M | 1190-14M | 1400-14M | 1610-14M | 1778-14M | 1890-14M | 2100-14M | 2310-14M | 2450-14M | 2590-14M | 2800-14M |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |
| 1.00 | 28 | 4.912 | 28 | 4.912 | 11.30 | 15.71 | 19.84 | 23.98 | 27.28 | 29.49 | 33.62 | 37.75 | 40.51 | 43.27 | 47.40 |
| 1.00 | 29 | 5.088 | 29 | 5.088 | 11.02 | 15.43 | 19.57 | 23.70 | 27.01 | 29.21 | 33.35 | 37.48 | 40.24 | 42.99 | 47.13 |
| 1.00 | 30 | 5.263 | 30 | 5.263 | 10.75 | 15.16 | 19.29 | 23.43 | 26.73 | 28.94 | 33.07 | 37.20 | 39.96 | 42.72 | 46.85 |
| 1.00 | 32 | 5.614 | 32 | 5.614 | 10.20 | 14.61 | 18.74 | 22.88 | 26.18 | 28.39 | 32.52 | 36.65 | 39.41 | 42.17 | 46.30 |
| 1.00 | 34 | 5.965 | 34 | 5.965 | 9.65 | 14.06 | 18.19 | 22.33 | 25.63 | 27.84 | 31.97 | 36.10 | 38.86 | 41.62 | 45.75 |
| 1.00 | 36 | 6.316 | 36 | 6.316 | 9.09 | 13.50 | 17.64 | 21.77 | 25.08 | 27.28 | 31.42 | 35.55 | 38.31 | 41.06 | 45.20 |
| 1.00 | 38 | 6.667 | 38 | 6.667 | 8.54 | 12.95 | 17.09 | 21.22 | 24.53 | 26.73 | 30.87 | 35.00 | 37.76 | 40.51 | 44.65 |
| 1.00 | 40 | 7.018 | 40 | 7.018 | 7.99 | 12.40 | 16.54 | 20.67 | 23.98 | 26.18 | 30.32 | 34.45 | 37.21 | 39.96 | 44.10 |
| 1.00 | 44 | 7.720 | 44 | 7.720 | – | 11.30 | 15.43 | 19.57 | 22.87 | 25.08 | 29.21 | 33.34 | 36.10 | 38.86 | 42.99 |
| 1.00 | 48 | 8.421 | 48 | 8.421 | – | 10.20 | 14.33 | 18.47 | 21.77 | 23.98 | 28.11 | 32.24 | 35.00 | 37.76 | 41.89 |
| 1.00 | 52 | 9.123 | 52 | 9.123 | – | – | 13.23 | 17.36 | 20.67 | 22.87 | 27.01 | 31.14 | 33.90 | 36.65 | 40.79 |
| 1.00 | 56 | 9.825 | 56 | 9.825 | – | – | 12.13 | 16.26 | 19.57 | 21.77 | 25.91 | 30.04 | 32.80 | 35.55 | 39.69 |
| 1.00 | 60 | 10.527 | 60 | 10.527 | – | – | – | 15.16 | 18.46 | 20.67 | 24.80 | 28.93 | 31.69 | 34.45 | 38.58 |
| 1.00 | 64 | 11.229 | 64 | 11.229 | – | – | – | 14.06 | 17.36 | 19.57 | 23.70 | 27.83 | 30.59 | 33.35 | 37.48 |
| 1.00 | 68 | 11.930 | 68 | 11.930 | – | – | – | 12.96 | 16.26 | 18.47 | 22.60 | 26.73 | 29.49 | 32.25 | 36.38 |
| 1.00 | 72 | 12.632 | 72 | 12.632 | – | – | – | – | 15.16 | 17.36 | 21.50 | 25.63 | 28.39 | 31.14 | 35.28 |
| 1.00 | 80 | 14.036 | 80 | 14.036 | – | – | – | – | – | 15.16 | 19.29 | 23.42 | 26.18 | 28.94 | 33.07 |
| 1.03 | 29 | 5.088 | 30 | 5.263 | 10.88 | 15.30 | 19.43 | 23.57 | 26.87 | 29.08 | 33.21 | 37.34 | 40.10 | 42.86 | 46.99 |
| 1.04 | 28 | 4.912 | 29 | 5.088 | 11.16 | 15.57 | 19.71 | 23.84 | 27.15 | 29.35 | 33.49 | 37.62 | 40.38 | 43.13 | 47.27 |
| 1.05 | 38 | 6.667 | 40 | 7.018 | 8.26 | 12.68 | 16.81 | 20.95 | 24.25 | 26.46 | 30.59 | 34.72 | 37.48 | 40.24 | 44.37 |
| 1.06 | 36 | 6.316 | 38 | 6.667 | 8.82 | 13.23 | 17.36 | 21.50 | 24.80 | 27.01 | 31.14 | 35.27 | 38.03 | 40.79 | 44.92 |
| 1.06 | 34 | 5.965 | 36 | 6.316 | 9.37 | 13.78 | 17.91 | 22.05 | 25.35 | 27.56 | 31.69 | 35.82 | 38.58 | 41.34 | 45.47 |
| 1.06 | 68 | 11.930 | 72 | 12.632 | – | – | – | – | 15.71 | 17.91 | 22.05 | 26.18 | 28.94 | 31.69 | 35.83 |
| 1.06 | 32 | 5.614 | 34 | 5.965 | 9.92 | 14.33 | 18.47 | 22.60 | 25.91 | 28.11 | 32.25 | 36.38 | 39.14 | 41.89 | 46.03 |
| 1.06 | 64 | 11.229 | 68 | 11.930 | – | – | – | 13.50 | 16.81 | 19.01 | 23.15 | 27.28 | 30.04 | 32.79 | 36.93 |
| 1.07 | 30 | 5.263 | 32 | 5.614 | 10.47 | 14.88 | 19.02 | 23.15 | 26.46 | 28.66 | 32.80 | 36.93 | 39.69 | 42.44 | 46.58 |
| 1.07 | 60 | 10.527 | 64 | 11.229 | – | – | – | 14.60 | 17.91 | 20.11 | 24.25 | 28.38 | 31.14 | 33.90 | 38.03 |
| 1.07 | 28 | 4.912 | 30 | 5.263 | 11.02 | 15.43 | 19.57 | 23.70 | 27.01 | 29.21 | 33.35 | 37.48 | 40.24 | 42.99 | 47.13 |
| 1.07 | 56 | 9.825 | 60 | 10.527 | – | – | 11.57 | 15.71 | 19.01 | 21.22 | 25.35 | 29.48 | 32.24 | 35.00 | 39.13 |
| 1.08 | 52 | 9.123 | 56 | 9.825 | – | – | 12.67 | 16.81 | 20.12 | 22.32 | 26.46 | 30.59 | 33.35 | 36.10 | 40.24 |
| 1.08 | 48 | 8.421 | 52 | 9.123 | – | 9.64 | 13.78 | 17.91 | 21.22 | 23.42 | 27.56 | 31.69 | 34.45 | 37.20 | 41.34 |
| 1.09 | 44 | 7.720 | 48 | 8.421 | – | 10.74 | 14.88 | 19.01 | 22.32 | 24.53 | 28.66 | 32.79 | 35.55 | 38.31 | 42.44 |
| 1.10 | 40 | 7.018 | 44 | 7.720 | – | 11.84 | 15.98 | 20.12 | 23.42 | 25.63 | 29.76 | 33.89 | 36.65 | 39.41 | 43.54 |
| 1.10 | 29 | 5.088 | 32 | 5.614 | 10.61 | 15.02 | 19.15 | 23.29 | 26.59 | 28.80 | 32.93 | 37.06 | 39.82 | 42.58 | 46.71 |
| 1.11 | 36 | 6.316 | 40 | 7.018 | 8.54 | 12.95 | 17.08 | 21.22 | 24.52 | 26.73 | 30.87 | 35.00 | 37.76 | 40.51 | 44.65 |
| 1.11 | 72 | 12.632 | 80 | 14.036 | – | – | – | – | 14.04 | 16.24 | 20.38 | 24.51 | 27.28 | 30.03 | 34.17 |
| 1.12 | 34 | 5.965 | 38 | 6.667 | 9.09 | 13.5.0 | 17.64 | 21.77 | 25.08 | 27.28 | 31.42 | 35.55 | 38.31 | 41.06 | 45.20 |
| 1.13 | 32 | 5.614 | 36 | 6.316 | 9.64 | 14.05 | 18.19 | 22.32 | 25.63 | 27.83 | 31.97 | 36.10 | 38.86 | 41.61 | 45.75 |
| 1.13 | 64 | 11.229 | 72 | 12.632 | – | – | – | 12.94 | 16.24 | 18.45 | 22.59 | 26.72 | 29.48 | 32.24 | 36.37 |
| 1.13 | 80 | 14.036 | 90 | 15.790 | – | – | – | – | – | – | 17.89 | 22.03 | 24.79 | 27.55 | 31.68 |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 3150-14M | 3360-14M | 3500-14M | 3850-14M | 4326-14M | 4578-14M | 4956-14M | 5320-14M | 5740-14M | 6160-14M | 6860-14M |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |
| 1.00 | 28 | 4.912 | 28 | 4.912 | 54.29 | 58.42 | 61.18 | 68.07 | 77.44 | 82.40 | 89.84 | 97.01 | 105.27 | 113.54 | 127.32 |
| 1.00 | 29 | 5.088 | 29 | 5.088 | 54.02 | 58.15 | 60.91 | 67.79 | 77.16 | 82.13 | 89.57 | 96.73 | 105.00 | 113.27 | 127.05 |
| 1.00 | 30 | 5.263 | 30 | 5.263 | 53.74 | 57.87 | 60.63 | 67.52 | 76.89 | 81.85 | 89.29 | 96.46 | 104.72 | 112.99 | 126.77 |
| 1.00 | 32 | 5.614 | 32 | 5.614 | 53.19 | 57.32 | 60.08 | 66.97 | 76.34 | 81.30 | 88.74 | 95.91 | 104.17 | 112.44 | 126.22 |
| 1.00 | 34 | 5.965 | 34 | 5.965 | 52.64 | 56.77 | 59.53 | 66.42 | 75.79 | 80.75 | 88.19 | 95.36 | 103.62 | 111.89 | 125.67 |
| 1.00 | 36 | 6.316 | 36 | 6.316 | 52.09 | 56.22 | 58.98 | 65.86 | 75.23 | 80.20 | 87.64 | 94.80 | 103.07 | 111.34 | 125.12 |
| 1.00 | 38 | 6.667 | 38 | 6.667 | 51.54 | 55.67 | 58.43 | 65.31 | 74.68 | 79.65 | 87.09 | 94.25 | 102.52 | 110.79 | 124.57 |
| 1.00 | 40 | 7.018 | 40 | 7.018 | 50.99 | 55.12 | 57.88 | 64.76 | 74.13 | 79.10 | 86.54 | 93.70 | 101.97 | 110.24 | 124.02 |
| 1.00 | 44 | 7.720 | 44 | 7.720 | 49.88 | 54.01 | 56.77 | 63.66 | 73.03 | 77.99 | 85.43 | 92.60 | 100.86 | 109.13 | 122.91 |
| 1.00 | 48 | 8.421 | 48 | 8.421 | 48.78 | 52.91 | 55.67 | 62.56 | 71.93 | 76.89 | 84.33 | 91.50 | 99.76 | 108.03 | 121.81 |
| 1.00 | 52 | 9.123 | 52 | 9.123 | 47.68 | 51.81 | 54.57 | 61.45 | 70.82 | 75.79 | 83.23 | 90.39 | 98.66 | 106.93 | 120.71 |
| 1.00 | 56 | 9.825 | 56 | 9.825 | 46.58 | 50.71 | 53.47 | 60.35 | 69.72 | 74.69 | 82.13 | 89.29 | 97.56 | 105.83 | 119.61 |
| 1.00 | 60 | 10.527 | 60 | 10.527 | 45.47 | 49.60 | 52.36 | 59.25 | 68.62 | 73.58 | 81.02 | 88.19 | 96.45 | 104.72 | 118.50 |
| 1.00 | 64 | 11.229 | 64 | 11.229 | 44.37 | 48.50 | 51.26 | 58.15 | 67.52 | 72.48 | 79.92 | 87.09 | 95.35 | 103.62 | 117.40 |
| 1.00 | 68 | 11.930 | 68 | 11.930 | 43.27 | 47.40 | 50.16 | 57.05 | 66.42 | 71.38 | 78.82 | 85.99 | 94.25 | 102.52 | 116.30 |
| 1.00 | 72 | 12.632 | 72 | 12.632 | 42.17 | 46.30 | 49.06 | 55.94 | 65.31 | 70.28 | 77.72 | 84.88 | 93.15 | 101.42 | 115.20 |
| 1.00 | 80 | 14.036 | 80 | 14.036 | 39.96 | 44.09 | 46.85 | 53.74 | 63.11 | 68.07 | 75.51 | 82.68 | 90.94 | 99.21 | 112.99 |
| 1.03 | 29 | 5.088 | 30 | 5.263 | 53.88 | 58.01 | 60.77 | 67.66 | 77.03 | 81.99 | 89.43 | 96.60 | 104.86 | 113.13 | 126.91 |
| 1.04 | 28 | 4.912 | 29 | 5.088 | 54.16 | 58.29 | 61.05 | 67.93 | 77.30 | 82.27 | 89.71 | 96.87 | 105.14 | 113.41 | 127.19 |
| 1.05 | 38 | 6.667 | 40 | 7.018 | 51.26 | 55.39 | 58.15 | 65.04 | 74.41 | 79.37 | 86.81 | 93.98 | 102.24 | 110.51 | 124.29 |
| 1.06 | 36 | 6.316 | 38 | 6.667 | 51.81 | 55.94 | 58.70 | 65.59 | 74.96 | 79.92 | 87.36 | 94.53 | 102.79 | 111.06 | 124.84 |
| 1.06 | 34 | 5.965 | 36 | 6.316 | 52.36 | 56.49 | 59.25 | 66.14 | 75.51 | 80.47 | 87.91 | 95.08 | 103.34 | 111.61 | 125.39 |
| 1.06 | 68 | 11.930 | 72 | 12.632 | 42.72 | 46.85 | 49.61 | 56.49 | 65.86 | 70.83 | 78.27 | 85.43 | 93.70 | 101.97 | 115.75 |
| 1.06 | 32 | 5.614 | 34 | 5.965 | 52.92 | 57.05 | 59.81 | 66.69 | 76.06 | 81.03 | 88.47 | 95.63 | 103.90 | 112.17 | 125.95 |
| 1.06 | 64 | 11.229 | 68 | 11.930 | 43.82 | 47.95 | 50.71 | 57.59 | 66.97 | 71.93 | 79.37 | 86.54 | 94.80 | 103.07 | 116.85 |
| 1.07 | 30 | 5.263 | 32 | 5.614 | 53.47 | 57.60 | 60.36 | 67.24 | 76.61 | 81.58 | 89.02 | 96.18 | 104.45 | 112.72 | 126.50 |
| 1.07 | 60 | 10.527 | 64 | 11.229 | 44.92 | 49.05 | 51.81 | 58.70 | 68.07 | 73.03 | 80.47 | 87.64 | 95.90 | 104.17 | 117.95 |
| 1.07 | 28 | 4.912 | 30 | 5.263 | 54.02 | 58.15 | 60.91 | 67.79 | 77.16 | 82.13 | 89.57 | 96.73 | 105.00 | 113.27 | 127.05 |
| 1.07 | 56 | 9.825 | 60 | 10.527 | 46.02 | 50.15 | 52.91 | 59.80 | 69.17 | 74.13 | 81.57 | 88.74 | 97.00 | 105.27 | 119.06 |
| 1.08 | 52 | 9.123 | 56 | 9.825 | 47.13 | 51.26 | 54.02 | 60.90 | 70.27 | 75.24 | 82.68 | 89.84 | 98.11 | 106.38 | 120.16 |
| 1.08 | 48 | 8.421 | 52 | 9.123 | 48.23 | 52.36 | 55.12 | 62.00 | 71.38 | 76.34 | 83.78 | 90.95 | 99.21 | 107.48 | 121.26 |
| 1.09 | 44 | 7.720 | 48 | 8.421 | 49.33 | 53.46 | 56.22 | 63.11 | 72.48 | 77.44 | 84.88 | 92.05 | 100.31 | 108.58 | 122.36 |
| 1.10 | 40 | 7.018 | 44 | 7.720 | 50.43 | 54.56 | 57.32 | 64.21 | 73.58 | 78.54 | 85.98 | 93.15 | 101.41 | 109.68 | 123.46 |
| 1.10 | 29 | 5.088 | 32 | 5.614 | 53.60 | 57.73 | 60.49 | 67.38 | 76.75 | 81.71 | 89.15 | 96.32 | 104.58 | 112.85 | 126.63 |
| 1.11 | 36 | 6.316 | 40 | 7.018 | 51.54 | 55.67 | 58.43 | 65.31 | 74.68 | 79.65 | 87.09 | 94.25 | 102.52 | 110.79 | 124.57 |
| 1.11 | 72 | 12.632 | 80 | 14.036 | 41.06 | 45.19 | 47.95 | 54.84 | 64.21 | 69.17 | 76.61 | 83.78 | 92.04 | 100.31 | 114.09 |
| 1.12 | 34 | 5.965 | 38 | 6.667 | 52.09 | 56.22 | 58.98 | 65.86 | 75.23 | 80.20 | 87.64 | 94.80 | 103.07 | 111.34 | 125.12 |
| 1.13 | 32 | 5.614 | 36 | 6.316 | 52.64 | 56.77 | 59.53 | 66.41 | 75.78 | 80.75 | 88.19 | 95.35 | 103.62 | 111.89 | 125.67 |
| 1.13 | 64 | 11.229 | 72 | 12.632 | 43.26 | 47.39 | 50.15 | 57.04 | 66.41 | 71.38 | 78.82 | 85.98 | 94.25 | 102.52 | 116.30 |
| 1.13 | 80 | 14.036 | 90 | 15.790 | 38.57 | 42.71 | 45.47 | 52.35 | 61.72 | 66.69 | 74.13 | 81.29 | 89.56 | 97.83 | 111.61 |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 966-14M | 1190-14M | 1400-14M | 1610-14M | 1778-14M | 1890-14M | 2100-14M | 2310-14M | 2450-14M | 2590-14M | 2800-14M |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |
| 1.13 | 30 | 5.263 | 34 | 5.965 | 10.19 | 14.60 | 18.74 | 22.87 | 26.18 | 28.38 | 32.52 | 36.65 | 39.41 | 42.17 | 46.30 |
| 1.13 | 60 | 10.527 | 68 | 11.930 | – | – | – | 14.04 | 17.35 | 19.55 | 23.69 | 27.82 | 30.58 | 33.34 | 37.48 |
| 1.14 | 28 | 4.912 | 32 | 5.614 | 10.74 | 15.15 | 19.29 | 23.43 | 26.73 | 28.94 | 33.07 | 37.20 | 39.96 | 42.72 | 46.85 |
| 1.14 | 56 | 9.825 | 64 | 11.229 | – | – | – | 15.14 | 18.45 | 20.66 | 24.79 | 28.93 | 31.69 | 34.44 | 38.58 |
| 1.15 | 52 | 9.123 | 60 | 10.527 | – | – | 12.11 | 16.25 | 19.55 | 21.76 | 25.90 | 30.03 | 32.79 | 35.54 | 39.68 |
| 1.16 | 38 | 6.667 | 44 | 7.720 | – | 12.11 | 16.25 | 20.39 | 23.69 | 25.90 | 30.04 | 34.17 | 36.93 | 39.68 | 43.82 |
| 1.17 | 48 | 8.421 | 56 | 9.825 | – | – | 13.21 | 17.35 | 20.66 | 22.86 | 27.00 | 31.13 | 33.89 | 36.65 | 40.78 |
| 1.17 | 29 | 5.088 | 34 | 5.965 | 10.32 | 14.74 | 18.87 | 23.01 | 26.32 | 28.52 | 32.66 | 36.79 | 39.55 | 42.30 | 46.44 |
| 1.18 | 34 | 5.965 | 40 | 7.018 | 8.80 | 13.22 | 17.36 | 21.49 | 24.80 | 27.00 | 31.14 | 35.27 | 38.03 | 40.78 | 44.92 |
| 1.18 | 68 | 11.930 | 80 | 14.036 | – | – | – | – | 14.57 | 16.78 | 20.92 | 25.05 | 27.82 | 30.57 | 34.71 |
| 1.18 | 44 | 7.720 | 52 | 9.123 | – | 10.17 | 14.31 | 18.45 | 21.76 | 23.97 | 28.10 | 32.23 | 34.99 | 37.75 | 41.89 |
| 1.19 | 32 | 5.614 | 38 | 6.667 | 9.35 | 13.77 | 17.91 | 22.04 | 25.35 | 27.55 | 31.69 | 35.82 | 38.58 | 41.34 | 45.47 |
| 1.20 | 30 | 5.263 | 36 | 6.316 | 9.91 | 14.32 | 18.46 | 22.59 | 25.90 | 28.11 | 32.24 | 36.37 | 39.13 | 41.89 | 46.02 |
| 1.20 | 40 | 7.018 | 48 | 8.421 | – | 11.28 | 15.42 | 19.56 | 22.86 | 25.07 | 29.21 | 33.34 | 36.10 | 38.85 | 42.99 |
| 1.20 | 60 | 10.527 | 72 | 12.632 | – | – | – | 13.46 | 16.78 | 18.99 | 23.13 | 27.26 | 30.02 | 32.78 | 36.92 |
| 1.21 | 28 | 4.912 | 34 | 5.965 | 10.46 | 14.87 | 19.01 | 23.15 | 26.45 | 28.66 | 32.79 | 36.92 | 39.68 | 42.44 | 46.57 |
| 1.21 | 56 | 9.825 | 68 | 11.930 | – | – | – | 14.57 | 17.88 | 20.09 | 24.23 | 28.36 | 31.13 | 33.88 | 38.02 |
| 1.22 | 36 | 6.316 | 44 | 7.720 | 7.96 | 12.38 | 16.52 | 20.66 | 23.97 | 26.17 | 30.31 | 34.44 | 37.20 | 39.95 | 44.09 |
| 1.23 | 52 | 9.123 | 64 | 11.229 | – | – | 11.53 | 15.68 | 18.99 | 21.19 | 25.33 | 29.47 | 32.23 | 34.98 | 39.12 |
| 1.24 | 29 | 5.088 | 36 | 6.316 | 10.04 | 14.46 | 18.59 | 22.73 | 26.04 | 28.24 | 32.38 | 36.51 | 39.27 | 42.02 | 46.16 |
| 1.25 | 32 | 5.614 | 40 | 7.018 | 9.07 | 13.49 | 17.62 | 21.76 | 25.07 | 27.27 | 31.41 | 35.54 | 38.30 | 41.06 | 45.19 |
| 1.25 | 48 | 8.421 | 60 | 10.527 | – | – | 12.63 | 16.78 | 20.09 | 22.30 | 26.44 | 30.57 | 33.33 | 36.09 | 40.22 |
| 1.25 | 64 | 11.229 | 80 | 14.036 | – | – | – | – | 15.09 | 17.30 | 21.45 | 25.59 | 28.35 | 31.11 | 35.25 |
| 1.25 | 72 | 12.632 | 90 | 15.790 | – | – | – | – | – | 14.80 | 18.95 | 23.09 | 25.86 | 28.62 | 32.76 |
| 1.26 | 38 | 6.667 | 48 | 8.421 | – | 11.54 | 15.69 | 19.83 | 23.13 | 25.34 | 29.48 | 33.61 | 36.37 | 39.13 | 43.26 |
| 1.27 | 30 | 5.263 | 38 | 6.667 | 9.62 | 14.04 | 18.18 | 22.31 | 25.62 | 27.83 | 31.96 | 36.09 | 38.85 | 41.61 | 45.74 |
| 1.27 | 44 | 7.720 | 56 | 9.825 | – | 9.59 | 13.74 | 17.88 | 21.19 | 23.40 | 27.54 | 31.67 | 34.43 | 37.19 | 41.33 |
| 1.29 | 28 | 4.912 | 36 | 6.316 | 10.17 | 14.59 | 18.73 | 22.87 | 26.17 | 28.38 | 32.51 | 36.64 | 39.41 | 42.16 | 46.30 |
| 1.29 | 56 | 9.825 | 72 | 12.632 | – | – | – | 13.99 | 17.31 | 19.52 | 23.66 | 27.80 | 30.56 | 33.32 | 37.46 |
| 1.29 | 34 | 5.965 | 44 | 7.720 | 8.22 | 12.65 | 16.79 | 20.93 | 24.24 | 26.44 | 30.58 | 34.71 | 37.47 | 40.23 | 44.36 |
| 1.30 | 40 | 7.018 | 52 | 9.123 | – | 10.70 | 14.85 | 18.99 | 22.30 | 24.51 | 28.64 | 32.78 | 35.54 | 38.29 | 42.43 |
| 1.31 | 52 | 9.123 | 68 | 11.930 | – | – | – | 15.09 | 18.41 | 20.62 | 24.77 | 28.90 | 31.66 | 34.42 | 38.56 |
| 1.31 | 29 | 5.088 | 38 | 6.667 | 9.75 | 14.17 | 18.31 | 22.45 | 25.76 | 27.96 | 32.10 | 36.23 | 38.99 | 41.75 | 45.88 |
| 1.32 | 68 | 11.930 | 90 | 15.790 | – | – | – | – | – | 15.31 | 19.47 | 23.62 | 26.39 | 29.15 | 33.29 |
| 1.33 | 30 | 5.263 | 40 | 7.018 | 9.33 | 13.75 | 17.89 | 22.03 | 25.34 | 27.55 | 31.68 | 35.81 | 38.57 | 41.33 | 45.47 |
| 1.33 | 36 | 6.316 | 48 | 8.421 | – | 11.80 | 15.95 | 20.09 | 23.40 | 25.61 | 29.75 | 33.88 | 36.64 | 39.40 | 43.53 |
| 1.33 | 48 | 8.421 | 64 | 11.229 | – | – | 12.05 | 16.20 | 19.52 | 21.73 | 25.87 | 30.00 | 32.77 | 35.52 | 39.66 |
| 1.33 | 60 | 10.527 | 80 | 14.036 | – | – | – | – | 15.61 | 17.83 | 21.98 | 26.12 | 28.88 | 31.64 | 35.79 |
| 1.36 | 28 | 4.912 | 38 | 6.667 | 9.88 | 14.30 | 18.45 | 22.58 | 25.89 | 28.10 | 32.23 | 36.37 | 39.13 | 41.88 | 46.02 |
| 1.36 | 44 | 7.720 | 60 | 10.527 | – | – | 13.15 | 17.31 | 20.62 | 22.83 | 26.97 | 31.11 | 33.87 | 36.63 | 40.76 |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 3150-14M | 3360-14M | 3500-14M | 3850-14M | 4326-14M | 4578-14M | 4956-14M | 5320-14M | 5740-14M | 6160-14M | 6860-14M |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |
| 1.13 | 30 | 5.263 | 34 | 5.965 | 53.19 | 57.32 | 60.08 | 66.97 | 76.34 | 81.30 | 88.74 | 95.91 | 104.17 | 112.44 | 126.22 |
| 1.13 | 60 | 10.527 | 68 | 11.930 | 44.37 | 48.50 | 51.26 | 58.14 | 67.51 | 72.48 | 79.92 | 87.08 | 95.35 | 103.62 | 117.40 |
| 1.14 | 28 | 4.912 | 32 | 5.614 | 53.74 | 57.87 | 60.63 | 67.52 | 76.89 | 81.85 | 89.29 | 96.46 | 104.72 | 112.99 | 126.77 |
| 1.14 | 56 | 9.825 | 64 | 11.229 | 45.47 | 49.60 | 52.36 | 59.25 | 68.62 | 73.58 | 81.02 | 88.19 | 96.45 | 104.72 | 118.50 |
| 1.15 | 52 | 9.123 | 60 | 10.527 | 46.57 | 50.70 | 53.46 | 60.35 | 69.72 | 74.68 | 82.12 | 89.29 | 97.55 | 105.82 | 119.60 |
| 1.16 | 38 | 6.667 | 44 | 7.720 | 50.71 | 54.84 | 57.60 | 64.48 | 73.85 | 78.82 | 86.26 | 93.42 | 101.69 | 109.96 | 123.74 |
| 1.17 | 48 | 8.421 | 56 | 9.825 | 47.67 | 51.80 | 54.57 | 61.45 | 70.82 | 75.79 | 83.23 | 90.39 | 98.66 | 106.93 | 120.71 |
| 1.17 | 29 | 5.088 | 34 | 5.965 | 53.33 | 57.46 | 60.22 | 67.10 | 76.47 | 81.44 | 88.88 | 96.04 | 104.31 | 112.58 | 126.36 |
| 1.18 | 34 | 5.965 | 40 | 7.018 | 51.81 | 55.94 | 58.70 | 65.59 | 74.96 | 79.92 | 87.36 | 94.53 | 102.79 | 111.06 | 124.84 |
| 1.18 | 68 | 11.930 | 80 | 14.036 | 41.60 | 45.73 | 48.49 | 55.38 | 64.75 | 69.72 | 77.16 | 84.32 | 92.59 | 100.86 | 114.64 |
| 1.18 | 44 | 7.720 | 52 | 9.123 | 48.78 | 52.91 | 55.67 | 62.55 | 71.92 | 76.89 | 84.33 | 91.49 | 99.76 | 108.03 | 121.81 |
| 1.19 | 32 | 5.614 | 38 | 6.667 | 52.36 | 56.49 | 59.25 | 66.14 | 75.51 | 80.47 | 87.91 | 95.08 | 103.34 | 111.61 | 125.39 |
| 1.20 | 30 | 5.263 | 36 | 6.316 | 52.91 | 57.04 | 59.80 | 66.69 | 76.06 | 81.02 | 88.46 | 95.63 | 103.89 | 112.16 | 125.94 |
| 1.20 | 40 | 7.018 | 48 | 8.421 | 49.88 | 54.01 | 56.77 | 63.66 | 73.03 | 77.99 | 85.43 | 92.60 | 100.86 | 109.13 | 122.91 |
| 1.20 | 60 | 10.527 | 72 | 12.632 | 43.81 | 47.94 | 50.70 | 57.59 | 66.96 | 71.92 | 79.36 | 86.53 | 94.80 | 103.07 | 116.85 |
| 1.21 | 28 | 4.912 | 34 | 5.965 | 53.46 | 57.59 | 60.35 | 67.24 | 76.61 | 81.58 | 89.02 | 96.18 | 104.45 | 112.72 | 126.50 |
| 1.21 | 56 | 9.825 | 68 | 11.930 | 44.91 | 49.04 | 51.80 | 58.69 | 68.06 | 73.03 | 80.47 | 87.63 | 95.90 | 104.17 | 117.95 |
| 1.22 | 36 | 6.316 | 44 | 7.720 | 50.98 | 55.11 | 57.87 | 64.76 | 74.13 | 79.09 | 86.53 | 93.70 | 101.96 | 110.23 | 124.01 |
| 1.23 | 52 | 9.123 | 64 | 11.229 | 46.01 | 50.14 | 52.91 | 59.79 | 69.16 | 74.13 | 81.57 | 88.73 | 97.00 | 105.27 | 119.05 |
| 1.24 | 29 | 5.088 | 36 | 6.316 | 53.05 | 57.18 | 59.94 | 66.83 | 76.20 | 81.16 | 88.60 | 95.77 | 104.03 | 112.30 | 126.08 |
| 1.25 | 32 | 5.614 | 40 | 7.018 | 52.08 | 56.21 | 58.97 | 65.86 | 75.23 | 80.20 | 87.64 | 94.80 | 103.07 | 111.34 | 125.12 |
| 1.25 | 48 | 8.421 | 60 | 10.527 | 47.12 | 51.25 | 54.01 | 60.89 | 70.27 | 75.23 | 82.67 | 89.84 | 98.10 | 106.37 | 120.15 |
| 1.25 | 64 | 11.229 | 80 | 14.036 | 42.14 | 46.28 | 49.04 | 55.92 | 65.30 | 70.26 | 77.70 | 84.87 | 93.14 | 101.41 | 115.19 |
| 1.25 | 72 | 12.632 | 90 | 15.790 | 39.66 | 43.79 | 46.55 | 53.44 | 62.81 | 67.78 | 75.22 | 82.39 | 90.65 | 98.92 | 112.71 |
| 1.26 | 38 | 6.667 | 48 | 8.421 | 50.15 | 54.28 | 57.04 | 63.93 | 73.30 | 78.26 | 85.71 | 92.87 | 101.14 | 109.41 | 123.19 |
| 1.27 | 30 | 5.263 | 38 | 6.667 | 52.64 | 56.77 | 59.53 | 66.41 | 75.78 | 80.75 | 88.19 | 95.35 | 103.62 | 111.89 | 125.67 |
| 1.27 | 44 | 7.720 | 56 | 9.825 | 48.22 | 52.35 | 55.11 | 62.00 | 71.37 | 76.33 | 83.77 | 90.94 | 99.20 | 107.48 | 121.26 |
| 1.29 | 28 | 4.912 | 36 | 6.316 | 53.19 | 57.32 | 60.08 | 66.96 | 76.33 | 81.30 | 88.74 | 95.90 | 104.17 | 112.44 | 126.22 |
| 1.29 | 56 | 9.825 | 72 | 12.632 | 44.35 | 48.48 | 51.24 | 58.13 | 67.50 | 72.47 | 79.91 | 87.08 | 95.34 | 103.61 | 117.39 |
| 1.29 | 34 | 5.965 | 44 | 7.720 | 51.25 | 55.38 | 58.15 | 65.03 | 74.40 | 79.37 | 86.81 | 93.97 | 102.24 | 110.51 | 124.29 |
| 1.30 | 40 | 7.018 | 52 | 9.123 | 49.32 | 53.45 | 56.21 | 63.10 | 72.47 | 77.44 | 84.88 | 92.04 | 100.31 | 108.58 | 122.36 |
| 1.31 | 52 | 9.123 | 68 | 11.930 | 45.45 | 49.59 | 52.35 | 59.23 | 68.61 | 73.57 | 81.01 | 88.18 | 96.44 | 104.72 | 118.50 |
| 1.31 | 29 | 5.088 | 38 | 6.667 | 52.77 | 56.90 | 59.66 | 66.55 | 75.92 | 80.88 | 88.32 | 95.49 | 103.75 | 112.02 | 125.81 |
| 1.32 | 68 | 11.930 | 90 | 15.790 | 40.19 | 44.33 | 47.09 | 53.98 | 63.35 | 68.32 | 75.76 | 82.93 | 91.20 | 99.47 | 113.25 |
| 1.33 | 30 | 5.263 | 40 | 7.018 | 52.36 | 56.49 | 59.25 | 66.13 | 75.50 | 80.47 | 87.91 | 95.08 | 103.34 | 111.61 | 125.39 |
| 1.33 | 36 | 6.316 | 48 | 8.421 | 50.42 | 54.56 | 57.32 | 64.20 | 73.57 | 78.54 | 85.98 | 93.14 | 101.41 | 109.68 | 123.46 |
| 1.33 | 48 | 8.421 | 64 | 11.229 | 46.56 | 50.69 | 53.45 | 60.34 | 69.71 | 74.67 | 82.11 | 89.28 | 97.55 | 105.82 | 119.60 |
| 1.33 | 60 | 10.527 | 80 | 14.036 | 42.68 | 46.82 | 49.58 | 56.47 | 65.84 | 70.81 | 78.25 | 85.42 | 93.68 | 101.95 | 115.73 |
| 1.36 | 28 | 4.912 | 38 | 6.667 | 52.91 | 57.04 | 59.80 | 66.69 | 76.06 | 81.02 | 88.46 | 95.63 | 103.89 | 112.16 | 125.94 |
| 1.36 | 44 | 7.720 | 60 | 10.527 | 47.66 | 51.79 | 54.55 | 61.44 | 70.81 | 75.78 | 83.22 | 90.38 | 98.65 | 106.92 | 120.70 |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 966-14M | 1190-14M | 1400-14M | 1610-14M | 1778-14M | 1890-14M | 2100-14M | 2310-14M | 2450-14M | 2590-14M | 2800-14M |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |
| 1.37 | 38 | 6.667 | 52 | 9.123 | – | 10.95 | 15.11 | 19.25 | 22.57 | 24.77 | 28.91 | 33.05 | 35.81 | 38.56 | 42.70 |
| 1.38 | 32 | 5.614 | 44 | 7.720 | 8.48 | 12.91 | 17.05 | 21.20 | 24.50 | 26.71 | 30.85 | 34.98 | 37.74 | 40.50 | 44.64 |
| 1.38 | 29 | 5.088 | 40 | 7.018 | 9.46 | 13.88 | 18.03 | 22.17 | 25.47 | 27.68 | 31.82 | 35.95 | 38.71 | 41.47 | 45.60 |
| 1.39 | 52 | 9.123 | 72 | 12.632 | – | – | – | 14.50 | 17.83 | 20.04 | 24.19 | 28.33 | 31.09 | 33.85 | 37.99 |
| 1.40 | 40 | 7.018 | 56 | 9.825 | – | 10.10 | 14.26 | 18.41 | 21.73 | 23.94 | 28.08 | 32.21 | 34.97 | 37.73 | 41.87 |
| 1.40 | 80 | 14.036 | 112 | 19.650 | – | – | – | – | – | – | – | 18.80 | 21.59 | 24.37 | 28.52 |
| 1.41 | 64 | 11.229 | 90 | 15.790 | – | – | – | – | – | 15.82 | 19.99 | 24.14 | 26.91 | 29.68 | 33.82 |
| 1.41 | 34 | 5.965 | 48 | 8.421 | – | 12.06 | 16.21 | 20.36 | 23.67 | 25.88 | 30.02 | 34.15 | 36.91 | 39.67 | 43.80 |
| 1.42 | 48 | 8.421 | 68 | 11.930 | – | – | 11.44 | 15.61 | 18.94 | 21.15 | 25.30 | 29.43 | 32.20 | 34.96 | 39.10 |
| 1.43 | 28 | 4.912 | 40 | 7.018 | 9.59 | 14.02 | 18.16 | 22.30 | 25.61 | 27.82 | 31.95 | 36.08 | 38.85 | 41.60 | 45.74 |
| 1.43 | 56 | 9.825 | 80 | 14.036 | – | – | – | 12.78 | 16.12 | 18.34 | 22.50 | 26.65 | 29.41 | 32.18 | 36.32 |
| 1.44 | 36 | 6.316 | 52 | 9.123 | – | 11.21 | 15.37 | 19.52 | 22.83 | 25.04 | 29.18 | 33.31 | 36.08 | 38.83 | 42.97 |
| 1.46 | 44 | 7.720 | 64 | 11.229 | – | – | 12.55 | 16.72 | 20.04 | 22.25 | 26.40 | 30.54 | 33.30 | 36.06 | 40.20 |
| 1.47 | 30 | 5.263 | 44 | 7.720 | 8.73 | 13.17 | 17.32 | 21.46 | 24.77 | 26.98 | 31.12 | 35.25 | 38.01 | 40.77 | 44.91 |
| 1.47 | 38 | 6.667 | 56 | 9.825 | – | 10.35 | 14.52 | 18.68 | 21.99 | 24.20 | 28.34 | 32.48 | 35.24 | 38.00 | 42.14 |
| 1.50 | 32 | 5.614 | 48 | 8.421 | 7.8.7 | 12.32 | 16.48 | 20.62 | 23.94 | 26.14 | 30.28 | 34.42 | 37.18 | 39.94 | 44.07 |
| 1.50 | 40 | 7.018 | 60 | 10.527 | – | 9.48 | 13.67 | 17.83 | 21.15 | 23.36 | 27.50 | 31.64 | 34.41 | 37.16 | 41.30 |
| 1.50 | 48 | 8.421 | 72 | 12.632 | – | – | – | 15.01 | 18.34 | 20.56 | 24.72 | 28.86 | 31.62 | 34.39 | 38.53 |
| 1.50 | 60 | 10.527 | 90 | 15.790 | – | – | – | – | 14.08 | 16.32 | 20.50 | 24.66 | 27.43 | 30.20 | 34.35 |
| 1.52 | 29 | 5.088 | 44 | 7.720 | 8.86 | 13.30 | 17.45 | 21.60 | 24.91 | 27.11 | 31.25 | 35.39 | 38.15 | 40.90 | 45.04 |
| 1.53 | 34 | 5.965 | 52 | 9.123 | – | 11.47 | 15.63 | 19.78 | 23.10 | 25.31 | 29.45 | 33.58 | 36.35 | 39.10 | 43.24 |
| 1.54 | 52 | 9.123 | 80 | 14.036 | – | – | – | 13.28 | 16.63 | 18.86 | 23.02 | 27.17 | 29.94 | 32.70 | 36.85 |
| 1.55 | 44 | 7.720 | 68 | 11.930 | – | – | 11.94 | 16.12 | 19.45 | 21.67 | 25.82 | 29.96 | 32.73 | 35.49 | 39.63 |
| 1.56 | 36 | 6.316 | 56 | 9.825 | – | 10.60 | 14.78 | 18.94 | 22.25 | 24.46 | 28.61 | 32.75 | 35.51 | 38.27 | 42.41 |
| 1.56 | 72 | 12.632 | 112 | 19.650 | – | – | – | – | – | – | – | 19.80 | 22.60 | 25.39 | 29.56 |
| 1.57 | 28 | 4.912 | 44 | 7.720 | 8.98 | 13.43 | 17.58 | 21.73 | 25.04 | 27.25 | 31.39 | 35.52 | 38.28 | 41.04 | 45.18 |
| 1.58 | 38 | 6.667 | 60 | 10.527 | – | 9.73 | 13.92 | 18.09 | 21.41 | 23.62 | 27.77 | 31.91 | 34.67 | 37.43 | 41.57 |
| 1.60 | 30 | 5.263 | 48 | 8.421 | 8.11 | 12.58 | 16.74 | 20.89 | 24.20 | 26.41 | 30.55 | 34.69 | 37.45 | 40.21 | 44.34 |
| 1.60 | 40 | 7.018 | 64 | 11.229 | – | – | 13.06 | 17.24 | 20.56 | 22.78 | 26.93 | 31.07 | 33.83 | 36.59 | 40.73 |
| 1.61 | 56 | 9.825 | 90 | 15.790 | – | – | – | – | 14.58 | 16.82 | 21.01 | 25.18 | 27.95 | 30.72 | 34.87 |
| 1.63 | 32 | 5.614 | 52 | 9.123 | – | 11.72 | 15.89 | 20.04 | 23.36 | 25.57 | 29.71 | 33.85 | 36.61 | 39.37 | 43.51 |
| 1.64 | 44 | 7.720 | 72 | 12.632 | – | – | 11.31 | 15.52 | 18.86 | 21.08 | 25.24 | 29.38 | 32.15 | 34.91 | 39.06 |
| 1.65 | 34 | 5.965 | 56 | 9.825 | – | 10.85 | 15.03 | 19.20 | 22.52 | 24.73 | 28.87 | 33.01 | 35.78 | 38.54 | 42.67 |
| 1.65 | 68 | 11.930 | 112 | 19.650 | – | – | – | – | – | – | – | 20.30 | 23.10 | 25.89 | 30.07 |
| 1.66 | 29 | 5.088 | 48 | 8.421 | 8.24 | 12.71 | 16.87 | 21.02 | 24.33 | 26.54 | 30.68 | 34.82 | 37.58 | 40.34 | 44.48 |
| 1.67 | 36 | 6.316 | 60 | 10.527 | – | 9.97 | 14.17 | 18.35 | 21.67 | 23.88 | 28.03 | 32.17 | 34.94 | 37.70 | 41.84 |
| 1.67 | 48 | 8.421 | 80 | 14.036 | – | – | – | 13.77 | 17.13 | 19.36 | 23.53 | 27.69 | 30.46 | 33.23 | 37.38 |
| 1.68 | 38 | 6.667 | 64 | 11.229 | – | – | 13.31 | 17.49 | 20.82 | 23.04 | 27.19 | 31.33 | 34.10 | 36.86 | 41.00 |
| 1.70 | 40 | 7.018 | 68 | 11.930 | – | – | 12.43 | 16.63 | 19.97 | 22.19 | 26.34 | 30.49 | 33.26 | 36.02 | 40.16 |
| 1.71 | 28 | 4.912 | 48 | 8.421 | 8.36 | 12.83 | 17.00 | 21.15 | 24.47 | 26.68 | 30.82 | 34.95 | 37.72 | 40.48 | 44.61 |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 3150-14M | 3360-14M | 3500-14M | 3850-14M | 4326-14M | 4578-14M | 4956-14M | 5320-14M | 5740-14M | 6160-14M | 6860-14M |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |
| 1.37 | 38 | 6.667 | 52 | 9.123 | 49.59 | 53.72 | 56.49 | 63.37 | 72.74 | 77.71 | 85.15 | 92.32 | 100.58 | 108.85 | 122.63 |
| 1.38 | 32 | 5.614 | 44 | 7.720 | 51.53 | 55.66 | 58.42 | 65.30 | 74.68 | 79.64 | 87.08 | 94.25 | 102.51 | 110.78 | 124.56 |
| 1.38 | 29 | 5.088 | 40 | 7.018 | 52.49 | 56.62 | 59.38 | 66.27 | 75.64 | 80.61 | 88.05 | 95.21 | 103.48 | 111.75 | 125.53 |
| 1.39 | 52 | 9.123 | 72 | 12.632 | 44.89 | 49.02 | 51.78 | 58.67 | 68.05 | 73.01 | 80.45 | 87.62 | 95.89 | 104.16 | 117.94 |
| 1.40 | 40 | 7.018 | 56 | 9.825 | 48.76 | 52.89 | 55.65 | 62.54 | 71.91 | 76.88 | 84.32 | 91.49 | 99.75 | 108.02 | 121.80 |
| 1.40 | 80 | 14.036 | 112 | 19.650 | 35.44 | 39.58 | 42.35 | 49.25 | 58.63 | 63.60 | 71.05 | 78.22 | 86.49 | 94.76 | 108.55 |
| 1.41 | 64 | 11.229 | 90 | 15.790 | 40.73 | 44.86 | 47.62 | 54.52 | 63.89 | 68.86 | 76.31 | 83.47 | 91.74 | 100.01 | 113.80 |
| 1.41 | 34 | 5.965 | 48 | 8.421 | 50.70 | 54.83 | 57.59 | 64.47 | 73.85 | 78.81 | 86.25 | 93.42 | 101.68 | 109.95 | 123.74 |
| 1.42 | 48 | 8.421 | 68 | 11.930 | 45.99 | 50.13 | 52.89 | 59.78 | 69.15 | 74.12 | 81.56 | 88.72 | 96.99 | 105.26 | 119.04 |
| 1.43 | 28 | 4.912 | 40 | 7.018 | 52.63 | 56.76 | 59.52 | 66.41 | 75.78 | 80.74 | 88.18 | 95.35 | 103.61 | 111.89 | 125.67 |
| 1.43 | 56 | 9.825 | 80 | 14.036 | 43.22 | 47.35 | 50.12 | 57.01 | 66.38 | 71.35 | 78.79 | 85.96 | 94.23 | 102.50 | 116.28 |
| 1.44 | 36 | 6.316 | 52 | 9.123 | 49.86 | 54.00 | 56.76 | 63.64 | 73.02 | 77.98 | 85.42 | 92.59 | 100.85 | 109.13 | 122.91 |
| 1.46 | 44 | 7.720 | 64 | 11.229 | 47.09 | 51.23 | 53.99 | 60.88 | 70.25 | 75.22 | 82.66 | 89.83 | 98.09 | 106.36 | 120.14 |
| 1.47 | 30 | 5.263 | 44 | 7.720 | 51.80 | 55.93 | 58.69 | 65.58 | 74.95 | 79.91 | 87.35 | 94.52 | 102.79 | 111.06 | 124.84 |
| 1.47 | 38 | 6.667 | 56 | 9.825 | 49.03 | 53.16 | 55.92 | 62.81 | 72.18 | 77.15 | 84.59 | 91.76 | 100.02 | 108.30 | 122.08 |
| 1.50 | 32 | 5.614 | 48 | 8.421 | 50.97 | 55.10 | 57.86 | 64.75 | 74.12 | 79.08 | 86.53 | 93.69 | 101.96 | 110.23 | 124.01 |
| 1.50 | 40 | 7.018 | 60 | 10.527 | 48.20 | 52.33 | 55.09 | 61.98 | 71.35 | 76.32 | 83.76 | 90.93 | 99.19 | 107.47 | 121.25 |
| 1.50 | 48 | 8.421 | 72 | 12.632 | 45.43 | 49.56 | 52.32 | 59.21 | 68.59 | 73.55 | 81.00 | 88.16 | 96.43 | 104.70 | 118.49 |
| 1.50 | 60 | 10.527 | 90 | 15.790 | 41.26 | 45.39 | 48.16 | 55.05 | 64.43 | 69.40 | 76.85 | 84.01 | 92.28 | 100.56 | 114.34 |
| 1.52 | 29 | 5.088 | 44 | 7.720 | 51.93 | 56.07 | 58.83 | 65.71 | 75.08 | 80.05 | 87.49 | 94.66 | 102.92 | 111.19 | 124.97 |
| 1.53 | 34 | 5.965 | 52 | 9.123 | 50.14 | 54.27 | 57.03 | 63.92 | 73.29 | 78.25 | 85.70 | 92.86 | 101.13 | 109.40 | 123.18 |
| 1.54 | 52 | 9.123 | 80 | 14.036 | 43.75 | 47.89 | 50.65 | 57.54 | 66.92 | 71.89 | 79.33 | 86.50 | 94.77 | 103.04 | 116.83 |
| 1.55 | 44 | 7.720 | 68 | 11.930 | 46.53 | 50.66 | 53.43 | 60.32 | 69.69 | 74.66 | 82.10 | 89.27 | 97.53 | 105.81 | 119.59 |
| 1.56 | 36 | 6.316 | 56 | 9.825 | 49.30 | 53.43 | 56.20 | 63.08 | 72.46 | 77.42 | 84.86 | 92.03 | 100.30 | 108.57 | 122.35 |
| 1.56 | 72 | 12.632 | 112 | 19.650 | 36.49 | 40.63 | 43.40 | 50.31 | 59.70 | 64.67 | 72.12 | 79.29 | 87.57 | 95.84 | 109.63 |
| 1.57 | 28 | 4.912 | 44 | 7.720 | 52.07 | 56.20 | 58.96 | 65.85 | 75.22 | 80.19 | 87.63 | 94.79 | 103.06 | 111.33 | 125.11 |
| 1.58 | 38 | 6.667 | 60 | 10.527 | 48.47 | 52.60 | 55.36 | 62.25 | 71.62 | 76.59 | 84.03 | 91.20 | 99.47 | 107.74 | 121.52 |
| 1.60 | 30 | 5.263 | 48 | 8.421 | 51.24 | 55.37 | 58.13 | 65.02 | 74.39 | 79.36 | 86.80 | 93.96 | 102.23 | 110.50 | 124.28 |
| 1.60 | 40 | 7.018 | 64 | 11.229 | 47.63 | 51.77 | 54.53 | 61.42 | 70.79 | 75.76 | 83.20 | 90.37 | 98.64 | 106.91 | 120.69 |
| 1.61 | 56 | 9.825 | 90 | 15.790 | 41.79 | 45.93 | 48.69 | 55.59 | 64.97 | 69.94 | 77.38 | 84.55 | 92.82 | 101.10 | 114.88 |
| 1.63 | 32 | 5.614 | 52 | 9.123 | 50.41 | 54.54 | 57.30 | 64.19 | 73.56 | 78.53 | 85.97 | 93.13 | 101.40 | 109.67 | 123.45 |
| 1.64 | 44 | 7.720 | 72 | 12.632 | 45.96 | 50.10 | 52.86 | 59.75 | 69.13 | 74.09 | 81.54 | 88.71 | 96.97 | 105.25 | 119.03 |
| 1.65 | 34 | 5.965 | 56 | 9.825 | 49.57 | 53.70 | 56.47 | 63.35 | 72.73 | 77.69 | 85.14 | 92.30 | 100.57 | 108.84 | 122.62 |
| 1.65 | 68 | 11.930 | 112 | 19.650 | 37.01 | 41.16 | 43.93 | 50.84 | 60.23 | 65.20 | 72.65 | 79.83 | 88.10 | 96.38 | 110.17 |
| 1.66 | 29 | 5.088 | 48 | 8.421 | 51.37 | 55.51 | 58.27 | 65.15 | 74.53 | 79.49 | 86.93 | 94.10 | 102.37 | 110.64 | 124.42 |
| 1.67 | 36 | 6.316 | 60 | 10.527 | 48.74 | 52.87 | 55.63 | 62.52 | 71.90 | 76.86 | 84.31 | 91.47 | 99.74 | 108.01 | 121.79 |
| 1.67 | 48 | 8.421 | 80 | 14.036 | 44.28 | 48.42 | 51.19 | 58.08 | 67.46 | 72.43 | 79.87 | 87.04 | 95.31 | 103.58 | 117.37 |
| 1.68 | 38 | 6.667 | 64 | 11.229 | 47.90 | 52.03 | 54.80 | 61.69 | 71.06 | 76.03 | 83.47 | 90.64 | 98.91 | 107.18 | 120.96 |
| 1.70 | 40 | 7.018 | 68 | 11.930 | 47.06 | 51.20 | 53.96 | 60.85 | 70.23 | 75.20 | 82.64 | 89.81 | 98.08 | 106.35 | 120.13 |
| 1.71 | 28 | 4.912 | 48 | 8.421 | 51.51 | 55.64 | 58.40 | 65.29 | 74.66 | 79.63 | 87.07 | 94.24 | 102.50 | 110.77 | 124.56 |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 966-14M | 1190-14M | 1400-14M | 1610-14M | 1778-14M | 1890-14M | 2100-14M | 2310-14M | 2450-14M | 2590-14M | 2800-14M |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |
| 1.73 | 52 | 9.123 | 90 | 15.790 | – | – | – | – | 15.06 | 17.32 | 21.51 | 25.69 | 28.47 | 31.24 | 35.40 |
| 1.73 | 30 | 5.263 | 52 | 9.123 | – | 11.97 | 16.15 | 20.30 | 23.62 | 25.83 | 29.98 | 34.12 | 36.88 | 39.64 | 43.78 |
| 1.75 | 32 | 5.614 | 56 | 9.825 | – | 11.10 | 15.29 | 19.46 | 22.78 | 24.99 | 29.14 | 33.28 | 36.04 | 38.80 | 42.94 |
| 1.75 | 64 | 11.229 | 112 | 19.650 | – | – | – | – | – | – | 16.55 | 20.79 | 23.60 | 26.40 | 30.58 |
| 1.77 | 34 | 5.965 | 60 | 10.527 | – | 10.22 | 14.43 | 18.60 | 21.93 | 24.14 | 28.30 | 32.44 | 35.20 | 37.96 | 42.11 |
| 1.78 | 36 | 6.316 | 64 | 11.229 | – | – | 13.56 | 17.74 | 21.08 | 23.30 | 27.45 | 31.59 | 34.36 | 37.12 | 41.27 |
| 1.79 | 38 | 6.667 | 68 | 11.930 | – | – | 12.68 | 16.88 | 20.22 | 22.44 | 26.60 | 30.75 | 33.52 | 36.28 | 40.43 |
| 1.79 | 29 | 5.088 | 52 | 9.123 | – | 12.10 | 16.27 | 20.43 | 23.75 | 25.97 | 30.11 | 34.25 | 37.01 | 39.77 | 43.91 |
| 1.80 | 40 | 7.018 | 72 | 12.632 | – | – | 11.79 | 16.02 | 19.36 | 21.59 | 25.75 | 29.91 | 32.68 | 35.44 | 39.59 |
| 1.80 | 80 | 14.036 | 144 | 25.264 | – | – | – | – | – | – | – | – | – | – | 23.58 |
| 1.82 | 44 | 7.720 | 80 | 14.036 | – | – | – | 14.26 | 17.63 | 19.87 | 24.05 | 28.21 | 30.98 | 33.75 | 37.90 |
| 1.86 | 28 | 4.912 | 52 | 9.123 | 7.70 | 12.22 | 16.40 | 20.56 | 23.88 | 26.10 | 30.24 | 34.38 | 37.15 | 39.91 | 44.05 |
| 1.87 | 30 | 5.263 | 56 | 9.825 | – | 11.34 | 15.54 | 19.71 | 23.04 | 25.25 | 29.40 | 33.54 | 36.31 | 39.07 | 43.21 |
| 1.87 | 60 | 10.527 | 112 | 19.650 | – | – | – | – | – | – | 17.02 | 21.28 | 24.10 | 26.90 | 31.08 |
| 1.88 | 32 | 5.614 | 60 | 10.527 | – | 10.46 | 14.68 | 18.86 | 22.19 | 24.40 | 28.56 | 32.70 | 35.47 | 38.23 | 42.37 |
| 1.88 | 48 | 8.421 | 90 | 15.790 | – | – | – | – | 15.55 | 17.81 | 22.02 | 26.20 | 28.98 | 31.76 | 35.92 |
| 1.88 | 34 | 5.965 | 64 | 11.229 | – | 9.56 | 13.80 | 18.00 | 21.33 | 23.55 | 27.71 | 31.86 | 34.63 | 37.39 | 41.53 |
| 1.89 | 36 | 6.316 | 68 | 11.930 | – | – | 12.92 | 17.13 | 20.48 | 22.70 | 26.86 | 31.01 | 33.78 | 36.55 | 40.69 |
| 1.90 | 38 | 6.667 | 72 | 12.632 | – | – | 12.03 | 16.26 | 19.62 | 21.84 | 26.01 | 30.17 | 32.94 | 35.70 | 39.85 |
| 1.93 | 29 | 5.088 | 56 | 9.825 | – | 11.47 | 15.67 | 19.84 | 23.17 | 25.38 | 29.53 | 33.67 | 36.44 | 39.20 | 43.34 |
| 2.00 | 28 | 4.912 | 56 | 9.825 | – | 11.59 | 15.79 | 19.97 | 23.30 | 25.51 | 29.66 | 33.81 | 36.57 | 39.33 | 43.48 |
| 2.00 | 30 | 5.263 | 60 | 10.527 | – | 10.70 | 14.93 | 19.11 | 22.44 | 24.66 | 28.82 | 32.96 | 35.73 | 38.49 | 42.64 |
| 2.00 | 32 | 5.614 | 64 | 11.229 | – | 9.79 | 14.05 | 18.25 | 21.59 | 23.81 | 27.97 | 32.12 | 34.89 | 37.65 | 41.80 |
| 2.00 | 34 | 5.965 | 68 | 11.930 | – | – | 13.17 | 17.38 | 20.73 | 22.96 | 27.12 | 31.27 | 34.04 | 36.81 | 40.96 |
| 2.00 | 36 | 6.316 | 72 | 12.632 | – | – | 12.27 | 16.51 | 19.87 | 22.10 | 26.27 | 30.42 | 33.20 | 35.96 | 40.11 |
| 2.00 | 40 | 7.018 | 80 | 14.036 | – | – | – | 14.74 | 18.12 | 20.37 | 24.55 | 28.72 | 31.50 | 34.27 | 38.42 |
| 2.00 | 56 | 9.825 | 112 | 19.650 | – | – | – | – | – | – | 17.50 | 21.76 | 24.59 | 27.39 | 31.59 |
| 2.00 | 72 | 12.632 | 144 | 25.264 | – | – | – | – | – | – | – | – | – | 20.23 | 24.54 |
| 2.05 | 44 | 7.720 | 90 | 15.790 | – | – | – | 12.58 | 16.02 | 18.29 | 22.51 | 26.70 | 29.49 | 32.27 | 36.43 |
| 2.07 | 29 | 5.088 | 60 | 10.527 | – | 10.82 | 15.05 | 19.24 | 22.57 | 24.79 | 28.95 | 33.09 | 35.86 | 38.63 | 42.77 |
| 2.10 | 80 | 14.036 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – |
| 2.11 | 38 | 6.667 | 80 | 14.036 | – | – | – | 14.98 | 18.37 | 20.61 | 24.81 | 28.98 | 31.76 | 34.53 | 38.68 |
| 2.12 | 34 | 5.965 | 72 | 12.632 | – | – | 12.51 | 16.76 | 20.12 | 22.35 | 26.52 | 30.68 | 33.46 | 36.23 | 40.38 |
| 2.12 | 68 | 11.930 | 144 | 25.264 | – | – | – | – | – | – | – | – | – | 20.69 | 25.01 |
| 2.13 | 32 | 5.614 | 68 | 11.930 | – | – | 13.41 | 17.63 | 20.98 | 23.21 | 27.38 | 31.53 | 34.31 | 37.07 | 41.22 |
| 2.13 | 30 | 5.263 | 64 | 11.229 | – | 10.03 | 14.29 | 18.50 | 21.84 | 24.07 | 28.23 | 32.38 | 35.15 | 37.91 | 42.06 |
| 2.14 | 28 | 4.912 | 60 | 10.527 | – | 10.94 | 15.17 | 19.37 | 22.70 | 24.92 | 29.08 | 33.23 | 35.99 | 38.76 | 42.90 |
| 2.15 | 52 | 9.123 | 112 | 19.650 | – | – | – | – | – | – | 17.97 | 22.25 | 25.08 | 27.89 | 32.09 |
| 2.21 | 29 | 5.088 | 64 | 11.229 | – | 10.14 | 14.42 | 18.63 | 21.97 | 24.19 | 28.36 | 32.51 | 35.28 | 38.05 | 42.19 |
| 2.22 | 36 | 6.316 | 80 | 14.036 | – | – | 10.88 | 15.22 | 18.61 | 20.86 | 25.06 | 29.23 | 32.01 | 34.79 | 38.94 |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 3150-14M | 3360-14M | 3500-14M | 3850-14M | 4326-14M | 4578-14M | 4956-14M | 5320-14M | 5740-14M | 6160-14M | 6860-14M |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |
| 1.73 | 52 | 9.123 | 90 | 15.790 | 42.31 | 46.45 | 49.22 | 56.12 | 65.50 | 70.47 | 77.92 | 85.09 | 93.36 | 101.64 | 115.43 |
| 1.73 | 30 | 5.263 | 52 | 9.123 | 50.67 | 54.81 | 57.57 | 64.46 | 73.83 | 78.80 | 86.24 | 93.41 | 101.67 | 109.94 | 123.73 |
| 1.75 | 32 | 5.614 | 56 | 9.825 | 49.84 | 53.97 | 56.74 | 63.62 | 73.00 | 77.97 | 85.41 | 92.58 | 100.84 | 109.11 | 122.90 |
| 1.75 | 64 | 11.229 | 112 | 19.650 | 37.52 | 41.67 | 44.45 | 51.36 | 60.76 | 65.73 | 73.19 | 80.36 | 88.64 | 96.92 | 110.71 |
| 1.77 | 34 | 5.965 | 60 | 10.527 | 49.00 | 53.14 | 55.90 | 62.79 | 72.17 | 77.13 | 84.58 | 91.74 | 100.01 | 108.28 | 122.07 |
| 1.78 | 36 | 6.316 | 64 | 11.229 | 48.17 | 52.30 | 55.07 | 61.96 | 71.33 | 76.30 | 83.74 | 90.91 | 99.18 | 107.45 | 121.24 |
| 1.79 | 38 | 6.667 | 68 | 11.930 | 47.33 | 51.47 | 54.23 | 61.12 | 70.50 | 75.47 | 82.91 | 90.08 | 98.35 | 106.62 | 120.41 |
| 1.79 | 29 | 5.088 | 52 | 9.123 | 50.81 | 54.94 | 57.70 | 64.59 | 73.97 | 78.93 | 86.38 | 93.54 | 101.81 | 110.08 | 123.86 |
| 1.80 | 40 | 7.018 | 72 | 12.632 | 46.49 | 50.63 | 53.39 | 60.29 | 69.67 | 74.63 | 82.08 | 89.25 | 97.52 | 105.79 | 119.57 |
| 1.80 | 80 | 14.036 | 144 | 25.264 | 30.63 | 34.82 | 37.61 | 44.56 | 54.00 | 58.99 | 66.46 | 73.64 | 81.93 | 90.22 | 104.02 |
| 1.82 | 44 | 7.720 | 80 | 14.036 | 44.81 | 48.95 | 51.72 | 58.61 | 67.99 | 72.96 | 80.41 | 87.58 | 95.85 | 104.12 | 117.91 |
| 1.86 | 28 | 4.912 | 52 | 9.123 | 50.94 | 55.08 | 57.84 | 64.73 | 74.10 | 79.07 | 86.51 | 93.68 | 101.95 | 110.22 | 124.00 |
| 1.87 | 30 | 5.263 | 56 | 9.825 | 50.11 | 54.24 | 57.00 | 63.89 | 73.27 | 78.24 | 85.68 | 92.85 | 101.11 | 109.39 | 123.17 |
| 1.87 | 60 | 10.527 | 112 | 19.650 | 38.04 | 42.19 | 44.97 | 51.88 | 61.28 | 66.26 | 73.72 | 80.90 | 89.17 | 97.45 | 111.25 |
| 1.88 | 32 | 5.614 | 60 | 10.527 | 49.27 | 53.41 | 56.17 | 63.06 | 72.44 | 77.40 | 84.85 | 92.02 | 100.28 | 108.56 | 122.34 |
| 1.88 | 48 | 8.421 | 90 | 15.790 | 42.84 | 46.98 | 49.75 | 56.65 | 66.04 | 71.01 | 78.46 | 85.63 | 93.90 | 102.18 | 115.97 |
| 1.88 | 34 | 5.965 | 64 | 11.229 | 48.43 | 52.57 | 55.33 | 62.23 | 71.60 | 76.57 | 84.01 | 91.18 | 99.45 | 107.72 | 121.51 |
| 1.89 | 36 | 6.316 | 68 | 11.930 | 47.60 | 51.73 | 54.50 | 61.39 | 70.77 | 75.74 | 83.18 | 90.35 | 98.62 | 106.89 | 120.68 |
| 1.90 | 38 | 6.667 | 72 | 12.632 | 46.76 | 50.90 | 53.66 | 60.55 | 69.93 | 74.90 | 82.35 | 89.52 | 97.79 | 106.06 | 119.85 |
| 1.93 | 29 | 5.088 | 56 | 9.825 | 50.24 | 54.38 | 57.14 | 64.03 | 73.40 | 78.37 | 85.81 | 92.98 | 101.25 | 109.52 | 123.30 |
| 2.00 | 28 | 4.912 | 56 | 9.825 | 50.38 | 54.51 | 57.27 | 64.16 | 73.54 | 78.51 | 85.95 | 93.12 | 101.39 | 109.66 | 123.44 |
| 2.00 | 30 | 5.263 | 60 | 10.527 | 49.54 | 53.67 | 56.44 | 63.33 | 72.71 | 77.67 | 85.12 | 92.29 | 100.55 | 108.83 | 122.61 |
| 2.00 | 32 | 5.614 | 64 | 11.229 | 48.70 | 52.84 | 55.60 | 62.49 | 71.87 | 76.84 | 84.28 | 91.45 | 99.72 | 108.00 | 121.78 |
| 2.00 | 34 | 5.965 | 68 | 11.930 | 47.86 | 52.00 | 54.76 | 61.66 | 71.04 | 76.01 | 83.45 | 90.62 | 98.89 | 107.16 | 120.95 |
| 2.00 | 36 | 6.316 | 72 | 12.632 | 47.02 | 51.16 | 53.93 | 60.82 | 70.20 | 75.17 | 82.62 | 89.79 | 98.06 | 106.33 | 120.12 |
| 2.00 | 40 | 7.018 | 80 | 14.036 | 45.34 | 49.48 | 52.25 | 59.15 | 68.53 | 73.50 | 80.95 | 88.12 | 96.39 | 104.67 | 118.45 |
| 2.00 | 56 | 9.825 | 112 | 19.650 | 38.55 | 42.71 | 45.48 | 52.40 | 61.81 | 66.79 | 74.25 | 81.43 | 89.71 | 97.99 | 111.78 |
| 2.00 | 72 | 12.632 | 144 | 25.264 | 31.61 | 35.82 | 38.62 | 45.58 | 55.03 | 60.02 | 67.50 | 74.69 | 82.99 | 91.28 | 105.09 |
| 2.05 | 44 | 7.720 | 90 | 15.790 | 43.36 | 47.50 | 50.27 | 57.18 | 66.57 | 71.54 | 78.99 | 86.17 | 94.44 | 102.72 | 116.51 |
| 2.07 | 29 | 5.088 | 60 | 10.527 | 49.6C | 53.81 | 56.57 | 63.46 | 72.84 | 77.81 | 85.25 | 92.42 | 100.69 | 108.96 | 122.75 |
| 2.10 | 80 | 14.036 | 168 | 29.475 | 26.71 | 31.00 | 33.84 | 40.88 | 50.39 | 55.41 | 62.91 | 70.13 | 78.44 | 86.74 | 100.57 |
| 2.11 | 38 | 6.667 | 80 | 14.036 | 45.60 | 49.74 | 52.51 | 59.41 | 68.80 | 73.77 | 81.22 | 88.39 | 96.66 | 104.94 | 118.72 |
| 2.12 | 34 | 5.965 | 72 | 12.632 | 47.29 | 51.43 | 54.19 | 61.09 | 70.47 | 75.44 | 82.89 | 90.06 | 98.33 | 106.60 | 120.39 |
| 2.12 | 68 | 11.930 | 144 | 25.264 | 32.10 | 36.31 | 39.12 | 46.09 | 55.54 | 60.54 | 68.02 | 75.22 | 83.51 | 91.81 | 105.62 |
| 2.13 | 32 | 5.614 | 68 | 11.930 | 48.13 | 52.27 | 55.03 | 61.93 | 71.31 | 76.28 | 83.72 | 90.89 | 99.16 | 107.43 | 121.22 |
| 2.13 | 30 | 5.263 | 64 | 11.229 | 48.97 | 53.10 | 55.87 | 62.76 | 72.14 | 77.11 | 84.55 | 91.72 | 99.99 | 108.27 | 122.05 |
| 2.14 | 28 | 4.912 | 60 | 10.527 | 49.81 | 53.94 | 56.70 | 63.60 | 72.98 | 77.94 | 85.39 | 92.56 | 100.83 | 109.10 | 122.88 |
| 2.15 | 52 | 9.123 | 112 | 19.650 | 39.06 | 43.22 | 46.00 | 52.92 | 62.33 | 67.32 | 74.78 | 81.96 | 90.24 | 98.52 | 112.32 |
| 2.21 | 29 | 5.088 | 64 | 11.229 | 49.10 | 53.24 | 56.00 | 62.89 | 72.27 | 77.24 | 84.69 | 91.86 | 100.13 | 108.40 | 122.19 |
| 2.22 | 36 | 6.316 | 80 | 14.036 | 45.86 | 50.01 | 52.77 | 59.68 | 69.06 | 74.03 | 81.48 | 88.66 | 96.93 | 105.20 | 118.99 |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 966-14M | 1190-14M | 1400-14M | 1610-14M | 1778-14M | 1890-14M | 2100-14M | 2310-14M | 2450-14M | 2590-14M | 2800-14M |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |
| 2.25 | 32 | 5.614 | 72 | 12.632 | – | – | 12.74 | 17.00 | 20.37 | 22.60 | 26.78 | 30.94 | 33.72 | 36.49 | 40.64 |
| 2.25 | 40 | 7.018 | 90 | 15.790 | – | – | – | 13.04 | 16.50 | 18.78 | 23.01 | 27.20 | 30.00 | 32.78 | 36.95 |
| 2.25 | 64 | 11.229 | 144 | 25.264 | – | – | – | – | – | – | – | – | – | 21.15 | 25.49 |
| 2.27 | 30 | 5.263 | 68 | 11.930 | – | 9.32 | 13.65 | 17.88 | 21.23 | 23.46 | 27.64 | 31.79 | 34.57 | 37.33 | 41.48 |
| 2.29 | 28 | 4.912 | 64 | 11.229 | – | 10.26 | 14.54 | 18.75 | 22.10 | 24.32 | 28.49 | 32.64 | 35.41 | 38.18 | 42.32 |
| 2.33 | 48 | 8.421 | 112 | 19.650 | – | – | – | – | – | – | 18.43 | 22.73 | 25.56 | 28.38 | 32.59 |
| 2.33 | 72 | 12.632 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – |
| 2.35 | 29 | 5.088 | 68 | 11.930 | – | 9.43 | 13.77 | 18.00 | 21.36 | 23.59 | 27.76 | 31.92 | 34.70 | 37.46 | 41.61 |
| 2.35 | 34 | 5.965 | 80 | 14.036 | – | – | 11.11 | 15.46 | 18.86 | 21.11 | 25.31 | 29.48 | 32.27 | 35.04 | 39.20 |
| 2.37 | 38 | 6.667 | 90 | 15.790 | – | – | – | 13.27 | 16.74 | 19.02 | 23.25 | 27.45 | 30.25 | 33.03 | 37.20 |
| 2.40 | 30 | 5.263 | 72 | 12.632 | – | – | 12.98 | 17.25 | 20.62 | 22.85 | 27.03 | 31.20 | 33.98 | 36.75 | 40.90 |
| 2.40 | 60 | 10.527 | 144 | 25.264 | – | – | – | – | – | – | – | – | 18.64 | 21.61 | 25.96 |
| 2.40 | 80 | 14.036 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 2.43 | 28 | 4.912 | 68 | 11.930 | – | 9.54 | 13.89 | 18.13 | 21.49 | 23.72 | 27.89 | 32.05 | 34.83 | 37.59 | 41.74 |
| 2.47 | 68 | 11.930 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | – |
| 2.48 | 29 | 5.088 | 72 | 12.632 | – | – | 13.10 | 17.37 | 20.74 | 22.98 | 27.16 | 31.33 | 34.10 | 36.87 | 41.03 |
| 2.50 | 32 | 5.614 | 80 | 14.036 | – | – | 11.34 | 15.69 | 19.10 | 21.36 | 25.56 | 29.74 | 32.52 | 35.30 | 39.46 |
| 2.50 | 36 | 6.316 | 90 | 15.790 | – | – | – | 13.49 | 16.97 | 19.26 | 23.50 | 27.70 | 30.50 | 33.29 | 37.46 |
| 2.55 | 44 | 7.720 | 112 | 19.650 | – | – | – | – | – | 14.46 | 18.89 | 23.20 | 26.05 | 28.87 | 33.08 |
| 2.57 | 28 | 4.912 | 72 | 12.632 | – | – | 13.21 | 17.49 | 20.86 | 23.10 | 27.29 | 31.45 | 34.23 | 37.00 | 41.16 |
| 2.57 | 56 | 9.825 | 144 | 25.264 | – | – | – | – | – | – | – | – | 19.09 | 22.06 | 26.43 |
| 2.63 | 64 | 11.229 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | 21.15 |
| 2.65 | 34 | 5.965 | 90 | 15.790 | – | – | – | 13.72 | 17.21 | 19.50 | 23.74 | 27.95 | 30.75 | 33.54 | 37.71 |
| 2.67 | 30 | 5.263 | 80 | 14.036 | – | – | 11.56 | 15.93 | 19.34 | 21.60 | 25.81 | 29.99 | 32.78 | 35.56 | 39.72 |
| 2.67 | 72 | 12.632 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 2.70 | 80 | 14.036 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 2.76 | 29 | 5.088 | 80 | 14.036 | – | – | 11.67 | 16.05 | 19.46 | 21.72 | 25.93 | 30.12 | 32.91 | 35.68 | 39.85 |
| 2.77 | 52 | 9.123 | 144 | 25.264 | – | – | – | – | – | – | – | – | 19.53 | 22.51 | 26.89 |
| 2.80 | 40 | 7.018 | 112 | 19.650 | – | – | – | – | – | 14.90 | 19.36 | 23.68 | 26.53 | 29.36 | 33.58 |
| 2.80 | 60 | 10.527 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | 21.59 |
| 2.81 | 32 | 5.614 | 90 | 15.790 | – | – | – | 13.95 | 17.44 | 19.73 | 23.99 | 28.20 | 31.00 | 33.79 | 37.97 |
| 2.82 | 68 | 11.930 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 2.86 | 28 | 4.912 | 80 | 14.036 | – | – | 11.78 | 16.17 | 19.58 | 21.85 | 26.06 | 30.24 | 33.03 | 35.81 | 39.98 |
| 2.95 | 38 | 6.667 | 112 | 19.650 | – | – | – | – | – | 15.12 | 19.58 | 23.91 | 26.77 | 29.60 | 33.83 |
| 3.00 | 30 | 5.263 | 90 | 15.790 | – | – | – | 14.17 | 17.68 | 19.97 | 24.23 | 28.45 | 31.25 | 34.04 | 38.22 |
| 3.00 | 48 | 8.421 | 144 | 25.264 | – | – | – | – | – | – | – | – | 19.97 | 22.97 | 27.36 |
| 3.00 | 56 | 9.825 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | 22.02 |
| 3.00 | 64 | 11.229 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 3.00 | 72 | 12.632 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 3.10 | 29 | 5.088 | 90 | 15.790 | – | – | – | 14.28 | 17.79 | 20.09 | 24.35 | 28.57 | 31.38 | 34.17 | 38.35 |
| 3.11 | 36 | 6.316 | 112 | 19.650 | – | – | – | – | – | 15.34 | 19.81 | 24.15 | 27.01 | 29.84 | 34.07 |
| 3.20 | 60 | 10.527 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 3150-14M | 3360-14M | 3500-14M | 3850-14M | 4326-14M | 4578-14M | 4956-14M | 5320-14M | 5740-14M | 6160-14M | 6860-14M |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |
| 2.25 | 32 | 5.614 | 72 | 12.632 | 47.55 | 51.69 | 54.46 | 61.35 | 70.74 | 75.71 | 83.16 | 90.33 | 98.60 | 106.87 | 120.66 |
| 2.25 | 40 | 7.018 | 90 | 15.790 | 43.88 | 48.03 | 50.80 | 57.70 | 67.10 | 72.07 | 79.53 | 86.70 | 94.98 | 103.25 | 117.04 |
| 2.25 | 64 | 11.229 | 144 | 25.264 | 32.59 | 36.81 | 39.62 | 46.59 | 56.05 | 61.05 | 68.54 | 75.74 | 84.04 | 92.33 | 106.15 |
| 2.27 | 30 | 5.263 | 68 | 11.930 | 48.39 | 52.53 | 55.30 | 62.19 | 71.57 | 76.54 | 83.99 | 91.16 | 99.43 | 107.71 | 121.49 |
| 2.29 | 28 | 4.912 | 64 | 11.229 | 49.23 | 53.37 | 56.13 | 63.03 | 72.41 | 77.38 | 84.82 | 91.99 | 100.26 | 108.54 | 122.32 |
| 2.33 | 48 | 8.421 | 112 | 19.650 | 39.56 | 43.73 | 46.51 | 53.44 | 62.86 | 67.84 | 75.30 | 82.49 | 90.77 | 99.05 | 112.85 |
| 2.33 | 72 | 12.632 | 168 | 29.475 | 27.65 | 31.95 | 34.81 | 41.86 | 51.39 | 56.42 | 63.93 | 71.16 | 79.47 | 87.78 | 101.62 |
| 2.35 | 29 | 5.088 | 68 | 11.930 | 48.52 | 52.66 | 55.43 | 62.33 | 71.71 | 76.68 | 84.12 | 91.29 | 99.57 | 107.84 | 121.63 |
| 2.35 | 34 | 5.965 | 80 | 14.036 | 46.12 | 50.27 | 53.04 | 59.94 | 69.33 | 74.30 | 81.75 | 88.92 | 97.20 | 105.47 | 119.26 |
| 2.37 | 38 | 6.667 | 90 | 15.790 | 44.14 | 48.29 | 51.06 | 57.97 | 67.36 | 72.34 | 79.79 | 86.97 | 95.24 | 103.52 | 117.31 |
| 2.40 | 30 | 5.263 | 72 | 12.632 | 47.81 | 51.95 | 54.72 | 61.62 | 71.00 | 75.98 | 83.42 | 90.60 | 98.87 | 107.14 | 120.93 |
| 2.40 | 60 | 10.527 | 144 | 25.264 | 33.08 | 37.30 | 40.11 | 47.10 | 56.56 | 61.57 | 69.06 | 76.26 | 84.56 | 92.86 | 106.68 |
| 2.40 | 80 | 14.036 | 192 | 33.686 | – | 26.89 | 29.82 | 37.02 | 46.66 | 51.72 | 59.28 | 66.54 | 74.89 | 83.22 | 97.08 |
| 2.43 | 28 | 4.912 | 68 | 11.930 | 48.66 | 52.80 | 55.56 | 62.46 | 71.84 | 76.81 | 84.26 | 91.43 | 99.70 | 107.98 | 121.76 |
| 2.47 | 68 | 11.930 | 168 | 29.475 | 28.11 | 32.43 | 35.28 | 42.35 | 51.89 | 56.92 | 64.44 | 71.67 | 79.99 | 88.30 | 102.14 |
| 2.48 | 29 | 5.088 | 72 | 12.632 | 47.94 | 52.09 | 54.85 | 61.75 | 71.14 | 76.11 | 83.56 | 90.73 | 99.00 | 107.28 | 121.06 |
| 2.50 | 32 | 5.614 | 80 | 14.036 | 46.39 | 50.53 | 53.30 | 60.20 | 69.59 | 74.57 | 82.02 | 89.19 | 97.47 | 105.74 | 119.53 |
| 2.50 | 36 | 6.316 | 90 | 15.790 | 44.40 | 48.55 | 51.32 | 58.23 | 67.63 | 72.60 | 80.06 | 87.23 | 95.51 | 103.79 | 117.58 |
| 2.55 | 44 | 7.720 | 112 | 19.650 | 40.07 | 44.24 | 47.02 | 53.96 | 63.38 | 68.36 | 75.83 | 83.01 | 91.30 | 99.58 | 113.39 |
| 2.57 | 28 | 4.912 | 72 | 12.632 | 48.08 | 52.22 | 54.99 | 61.89 | 71.27 | 76.24 | 83.69 | 90.86 | 99.14 | 107.41 | 121.20 |
| 2.57 | 56 | 9.825 | 144 | 25.264 | 33.56 | 37.79 | 40.61 | 47.60 | 57.07 | 62.08 | 69.57 | 76.78 | 85.08 | 93.38 | 107.20 |
| 2.63 | 64 | 11.229 | 168 | 29.475 | 28.57 | 32.90 | 35.76 | 42.84 | 52.39 | 57.42 | 64.95 | 72.18 | 80.50 | 88.82 | 102.67 |
| 2.65 | 34 | 5.965 | 90 | 15.790 | 44.65 | 48.81 | 51.58 | 58.49 | 67.89 | 72.87 | 80.32 | 87.50 | 95.78 | 104.06 | 117.85 |
| 2.67 | 30 | 5.263 | 80 | 14.036 | 46.65 | 50.79 | 53.56 | 60.47 | 69.86 | 74.83 | 82.29 | 89.46 | 97.73 | 106.01 | 119.80 |
| 2.67 | 72 | 12.632 | 192 | 33.686 | – | 27.79 | 30.74 | 37.97 | 47.63 | 52.71 | 60.28 | 67.54 | 75.90 | 84.24 | 98.12 |
| 2.70 | 80 | 14.036 | 216 | 37.896 | – | 22.16 | 25.32 | 32.85 | 42.73 | 47.86 | 55.51 | 62.82 | 72.23 | 79.60 | 93.51 |
| 2.76 | 29 | 5.088 | 80 | 14.036 | 46.78 | 50.92 | 53.69 | 60.60 | 69.99 | 74.97 | 82.42 | 89.59 | 97.87 | 106.15 | 119.94 |
| 2.77 | 52 | 9.123 | 144 | 25.264 | 34.04 | 38.28 | 41.10 | 48.10 | 57.58 | 62.59 | 70.09 | 77.30 | 85.60 | 93.91 | 107.73 |
| 2.80 | 40 | 7.018 | 112 | 19.650 | 40.57 | 44.75 | 47.53 | 54.47 | 63.90 | 68.89 | 76.35 | 83.54 | 91.83 | 100.12 | 113.92 |
| 2.80 | 60 | 10.527 | 168 | 29.475 | 29.03 | 33.37 | 36.24 | 43.33 | 52.89 | 57.93 | 65.46 | 72.69 | 81.02 | 89.34 | 103.19 |
| 2.81 | 32 | 5.614 | 90 | 15.790 | 44.91 | 49.07 | 51.84 | 58.75 | 68.15 | 73.13 | 80.59 | 87.77 | 96.04 | 104.33 | 118.12 |
| 2.82 | 68 | 11.930 | 192 | 33.686 | 23.63 | 28.19 | 31.15 | 38.41 | 48.09 | 53.18 | 60.76 | 68.03 | 76.39 | 84.73 | 98.61 |
| 2.86 | 28 | 4.912 | 80 | 14.036 | 46.91 | 51.05 | 53.82 | 60.73 | 70.12 | 75.10 | 82.55 | 89.73 | 98.00 | 106.28 | 120.07 |
| 2.95 | 38 | 6.667 | 112 | 19.650 | 40.82 | 45.00 | 47.79 | 54.73 | 64.16 | 69.15 | 76.62 | 83.80 | 92.09 | 100.38 | 114.19 |
| 3.00 | 30 | 5.263 | 90 | 15.790 | 45.17 | 49.32 | 52.10 | 59.02 | 68.42 | 73.40 | 80.85 | 88.03 | 96.31 | 104.59 | 118.39 |
| 3.00 | 48 | 8.421 | 144 | 25.264 | 34.52 | 38.77 | 41.59 | 48.60 | 58.09 | 63.10 | 70.60 | 77.81 | 86.12 | 94.43 | 108.26 |
| 3.00 | 56 | 9.825 | 168 | 29.475 | 29.49 | 33.84 | 36.71 | 43.81 | 53.38 | 58.43 | 65.96 | 73.20 | 81.53 | 89.86 | 103.71 |
| 3.00 | 64 | 11.229 | 192 | 33.686 | 24.14 | 28.69 | 31.65 | 38.91 | 48.60 | 53.69 | 61.27 | 68.55 | 76.91 | 85.26 | 99.15 |
| 3.00 | 72 | 12.632 | 216 | 37.896 | – | 23.01 | 26.19 | 33.76 | 43.67 | 48.82 | 56.48 | 63.81 | 72.22 | 80.61 | 94.53 |
| 3.10 | 29 | 5.088 | 90 | 15.790 | 45.30 | 49.45 | 52.23 | 59.15 | 68.55 | 73.53 | 80.99 | 88.17 | 96.44 | 104.73 | 118.52 |
| 3.11 | 36 | 6.316 | 112 | 19.650 | 41.07 | 45.25 | 48.04 | 54.99 | 64.42 | 69.41 | 76.88 | 84.07 | 92.36 | 100.65 | 114.45 |
| 3.20 | 60 | 10.527 | 192 | 33.686 | 24.49 | 29.08 | 32.06 | 39.34 | 49.06 | 54.15 | 61.75 | 69.03 | 77.40 | 85.75 | 99.64 |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. Of Teeth | Pitch Dia. Inches | No. Of Teeth | Pitch Dia. Inches | 966-14M | 1190-14M | 1400-14M | 1610-14M | 1778-14M | 1890-14M | 2100-14M | 2310-14M | 2450-14M | 2590-14M | 2800-14M |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |
| 3.21 | 28 | 4.912 | 90 | 15.790 | – | – | – | 14.40 | 17.91 | 20.21 | 24.47 | 28.69 | 31.50 | 34.29 | 38.48 |
| 3.23 | 52 | 9.123 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | 22.46 |
| 3.27 | 44 | 7.720 | 144 | 25.264 | – | – | – | – | – | – | – | 17.29 | 20.41 | 23.42 | 27.82 |
| 3.29 | 34 | 5.965 | 112 | 19.650 | – | – | – | – | – | 15.56 | 20.04 | 24.39 | 27.25 | 30.09 | 34.32 |
| 3.38 | 64 | 11.229 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 3.43 | 56 | 9.825 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 3.50 | 32 | 5.614 | 112 | 19.650 | – | – | – | – | 13.25 | 15.77 | 20.27 | 24.62 | 27.49 | 30.33 | 34.56 |
| 3.50 | 48 | 8.421 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | 22.89 |
| 3.60 | 40 | 7.018 | 144 | 25.264 | – | – | – | – | – | – | – | 17.71 | 20.85 | 23.86 | 28.28 |
| 3.69 | 52 | 9.123 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 3.73 | 30 | 5.263 | 112 | 19.650 | – | – | – | – | 13.46 | 15.99 | 20.50 | 24.85 | 27.72 | 30.57 | 34.81 |
| 3.79 | 38 | 6.667 | 144 | 25.264 | – | – | – | – | – | – | – | 17.92 | 21.06 | 24.09 | 28.51 |
| 3.82 | 44 | 7.720 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | – | 23.32 |
| 3.86 | 29 | 5.088 | 112 | 19.650 | – | – | – | – | 13.57 | 16.10 | 20.61 | 24.97 | 27.84 | 30.69 | 34.93 |
| 3.86 | 56 | 9.825 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 4.00 | 28 | 4.912 | 112 | 19.650 | – | – | – | – | 13.67 | 16.21 | 20.72 | 25.09 | 27.96 | 30.81 | 35.05 |
| 4.00 | 36 | 6.316 | 144 | 25.264 | – | – | – | – | – | – | – | 18.13 | 21.28 | 24.31 | 28.74 |
| 4.00 | 48 | 8.421 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 4.20 | 40 | 7.018 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | 18.87 | 23.75 |
| 4.24 | 34 | 5.965 | 144 | 25.264 | – | – | – | – | – | – | – | 18.34 | 21.50 | 24.53 | 28.97 |
| 4.36 | 44 | 7.720 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 4.42 | 38 | 6.667 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | 19.08 | 23.97 |
| 4.50 | 32 | 5.614 | 144 | 25.264 | – | – | – | – | – | – | – | 18.55 | 21.72 | 24.76 | 29.20 |
| 4.50 | 48 | 8.421 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 4.67 | 36 | 6.316 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | 19.28 | 24.18 |
| 4.80 | 30 | 5.263 | 144 | 25.264 | – | – | – | – | – | – | – | 18.76 | 21.93 | 24.98 | 29.43 |
| 4.80 | 40 | 7.018 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 4.91 | 44 | 7.720 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 4.94 | 34 | 5.965 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | 19.48 | 24.39 |
| 4.97 | 29 | 5.088 | 144 | 25.264 | – | – | – | – | – | – | – | 18.86 | 22.04 | 25.09 | 29.54 |
| 5.05 | 38 | 6.667 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 5.14 | 28 | 4.912 | 144 | 25.264 | – | – | – | – | – | – | – | 18.97 | 22.15 | 25.20 | 29.66 |
| 5.25 | 32 | 5.614 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | 19.69 | 24.61 |
| 5.33 | 36 | 6.316 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 5.40 | 40 | 7.018 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 5.60 | 30 | 5.263 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | 19.89 | 24.82 |
| 5.65 | 34 | 5.965 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 5.65 | 38 | 6.667 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 5.79 | 29 | 5.088 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | 19.99 | 24.93 |
| 6.00 | 28 | 4.912 | 168 | 29.475 | – | – | – | – | – | – | – | – | – | 20.09 | 25.03 |
| 6.00 | 32 | 5.614 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 6.00 | 36 | 6.316 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 6.35 | 34 | 5.965 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 6.40 | 30 | 5.263 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 6.62 | 29 | 5.088 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| 6.75 | 32 | 5.614 | 216 | 37.896 | – | – | – | – | – | – | – | – | – | – | – |
| 6.86 | 28 | 4.912 | 192 | 33.686 | – | – | – | – | – | – | – | – | – | – | – |
| **Length Factor*** | | | | | **0.80** | **0.80** | **0.90** | **0.90** | **0.95** | **0.95** | **1.00** | **1.00** | **1.00** | **1.05** | **1.05** |

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Selection

## 14 mm Pitch HT250 Belt Drive Selection Table

| Speed Ratio | Sprocket Combinations | | | | Center Distance, Inches | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | | Driven | | | | | | | | | | | | |
| | No. of Teeth | Pitch Dia. Inches | No. of Teeth | Pitch Dia. Inches | 3150-14M | 3360-14M | 3500-14M | 3850-14M | 4326-14M | 4578-14M | 4956-14M | 5320-14M | 5740-14M | 6160-14M | 6860-14M |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |
| 3.21 | 28 | 4.912 | 90 | 15.790 | 45.42 | 49.58 | 52.36 | 59.28 | 68.68 | 73.66 | 81.12 | 88.30 | 96.58 | 104.86 | 118.66 |
| 3.23 | 52 | 9.123 | 168 | 29.475 | 29.95 | 34.30 | 37.18 | 44.30 | 53.88 | 58.92 | 66.46 | 73.71 | 82.04 | 90.37 | 104.23 |
| 3.27 | 44 | 7.720 | 144 | 25.264 | 35.00 | 39.25 | 42.08 | 49.09 | 58.59 | 63.61 | 71.11 | 78.33 | 86.64 | 94.95 | 108.78 |
| 3.29 | 34 | 5.965 | 112 | 19.650 | 41.32 | 45.51 | 48.30 | 55.24 | 64.67 | 69.67 | 77.14 | 84.33 | 92.62 | 100.91 | 114.72 |
| 3.38 | 64 | 11.229 | 216 | 37.896 | – | 23.85 | 27.05 | 34.66 | 44.60 | 49.77 | 57.45 | 64.79 | 73.21 | 81.61 | 95.55 |
| 3.43 | 56 | 9.825 | 192 | 33.686 | 25.01 | 29.58 | 32.56 | 39.85 | 49.57 | 54.66 | 62.26 | 69.55 | 77.92 | 86.28 | 100.17 |
| 3.50 | 32 | 5.614 | 112 | 19.650 | 41.57 | 45.76 | 48.55 | 55.50 | 64.93 | 69.93 | 77.40 | 84.59 | 92.88 | 101.17 | 114.98 |
| 3.50 | 48 | 8.421 | 168 | 29.475 | 30.41 | 34.77 | 37.66 | 44.78 | 54.37 | 59.42 | 66.97 | 74.21 | 82.55 | 90.89 | 104.75 |
| 3.60 | 40 | 7.018 | 144 | 25.264 | 35.48 | 39.73 | 42.56 | 49.59 | 59.10 | 64.12 | 71.62 | 78.84 | 87.16 | 95.47 | 109.30 |
| 3.69 | 52 | 9.123 | 192 | 33.686 | 25.35 | 29.96 | 32.96 | 40.28 | 50.02 | 55.12 | 62.73 | 70.02 | 78.40 | 86.77 | 100.67 |
| 3.73 | 30 | 5.263 | 112 | 19.650 | 41.82 | 46.01 | 48.80 | 55.75 | 65.19 | 70.18 | 77.66 | 84.85 | 93.15 | 101.44 | 115.25 |
| 3.79 | 38 | 6.667 | 144 | 25.264 | 35.71 | 39.98 | 42.81 | 49.84 | 59.35 | 64.37 | 71.88 | 79.10 | 87.42 | 95.73 | 109.57 |
| 3.82 | 44 | 7.720 | 168 | 29.475 | 30.86 | 35.23 | 38.12 | 45.26 | 54.86 | 59.92 | 67.47 | 74.72 | 83.06 | 91.40 | 105.26 |
| 3.86 | 29 | 5.088 | 112 | 19.650 | 41.95 | 46.14 | 48.93 | 55.88 | 65.32 | 70.31 | 77.79 | 84.98 | 93.28 | 101.57 | 115.38 |
| 3.86 | 56 | 9.825 | 216 | 37.896 | – | 24.69 | 27.91 | 35.56 | 45.53 | 50.71 | 58.41 | 65.77 | 74.20 | 82.61 | 96.56 |
| 4.00 | 28 | 4.912 | 112 | 19.650 | 42.07 | 46.26 | 49.05 | 56.01 | 65.45 | 70.44 | 77.92 | 85.11 | 93.41 | 101.70 | 115.51 |
| 4.00 | 36 | 6.316 | 144 | 25.264 | 35.95 | 40.22 | 43.05 | 50.08 | 59.60 | 64.62 | 72.13 | 79.36 | 87.67 | 95.99 | 109.83 |
| 4.00 | 48 | 8.421 | 192 | 33.686 | 25.87 | 30.47 | 33.46 | 40.78 | 50.52 | 55.63 | 63.24 | 70.54 | 78.93 | 87.29 | 101.20 |
| 4.20 | 40 | 7.018 | 168 | 29.475 | 31.31 | 35.70 | 38.59 | 45.74 | 55.35 | 60.41 | 67.97 | 75.22 | 83.57 | 91.91 | 105.78 |
| 4.24 | 34 | 5.965 | 144 | 25.264 | 36.19 | 40.46 | 43.29 | 50.33 | 59.85 | 64.87 | 72.39 | 79.61 | 87.93 | 96.25 | 110.09 |
| 4.36 | 44 | 7.720 | 192 | 33.686 | 26.30 | 30.91 | 33.91 | 41.24 | 51.00 | 56.11 | 63.73 | 71.03 | 79.43 | 87.80 | 101.71 |
| 4.42 | 38 | 6.667 | 168 | 29.475 | 31.54 | 35.93 | 38.83 | 45.98 | 55.60 | 60.66 | 68.22 | 75.48 | 83.83 | 92.17 | 106.04 |
| 4.50 | 32 | 5.614 | 144 | 25.264 | 36.43 | 40.70 | 43.54 | 50.58 | 60.10 | 65.13 | 72.64 | 79.87 | 88.19 | 96.51 | 110.35 |
| 4.50 | 48 | 8.421 | 216 | 37.896 | – | 25.53 | 28.76 | 36.45 | 46.46 | 51.66 | 59.37 | 66.74 | 75.19 | 83.60 | 97.57 |
| 4.67 | 36 | 6.316 | 168 | 29.475 | 31.76 | 36.16 | 39.06 | 46.22 | 55.84 | 60.91 | 68.47 | 75.73 | 84.08 | 92.42 | 106.30 |
| 4.80 | 30 | 5.263 | 144 | 25.264 | 36.66 | 40.94 | 43.78 | 50.82 | 60.35 | 65.38 | 72.90 | 80.12 | 88.45 | 96.77 | 110.61 |
| 4.80 | 40 | 7.018 | 192 | 33.686 | 26.73 | 31.35 | 34.36 | 41.70 | 51.48 | 56.60 | 64.22 | 71.53 | 79.93 | 88.30 | 102.22 |
| 4.91 | 44 | 7.720 | 216 | 37.896 | – | 25.95 | 29.19 | 36.89 | 46.92 | 52.13 | 59.85 | 67.22 | 75.68 | 84.10 | 98.07 |
| 4.94 | 34 | 5.965 | 168 | 29.475 | 31.99 | 36.39 | 39.29 | 46.46 | 56.08 | 61.15 | 68.72 | 75.98 | 84.33 | 92.68 | 106.56 |
| 4.97 | 29 | 5.088 | 144 | 25.264 | 36.78 | 41.06 | 43.90 | 50.94 | 60.47 | 65.50 | 73.02 | 80.25 | 88.58 | 96.90 | 110.74 |
| 5.05 | 38 | 6.667 | 192 | 33.686 | 26.94 | 31.57 | 34.58 | 41.93 | 51.72 | 56.84 | 64.47 | 71.78 | 80.18 | 88.55 | 102.47 |
| 5.14 | 28 | 4.912 | 144 | 25.264 | 36.90 | 41.18 | 44.02 | 51.07 | 60.60 | 65.63 | 73.15 | 80.38 | 88.71 | 97.03 | 110.87 |
| 5.25 | 32 | 5.614 | 168 | 29.475 | 32.22 | 36.62 | 39.53 | 46.69 | 56.33 | 61.40 | 68.97 | 76.23 | 84.59 | 92.93 | 106.81 |
| 5.33 | 36 | 6.316 | 192 | 33.686 | 27.16 | 31.80 | 34.81 | 42.17 | 51.95 | 57.08 | 64.71 | 72.02 | 80.43 | 88.80 | 102.73 |
| 5.40 | 40 | 7.018 | 216 | 37.896 | – | 26.36 | 29.62 | 37.34 | 47.38 | 52.59 | 60.33 | 67.71 | 76.17 | 84.59 | 98.57 |
| 5.60 | 30 | 5.263 | 168 | 29.475 | 32.44 | 36.85 | 39.76 | 46.93 | 56.57 | 61.64 | 69.22 | 76.48 | 84.84 | 93.19 | 107.07 |
| 5.65 | 34 | 5.965 | 192 | 33.686 | 27.26 | 31.94 | 34.97 | 42.35 | 52.16 | 57.29 | 64.93 | 72.25 | 80.65 | 89.04 | 102.96 |
| 5.65 | 38 | 6.667 | 216 | 37.896 | – | 26.57 | 29.83 | 37.56 | 47.61 | 52.83 | 60.56 | 67.95 | 76.41 | 84.84 | 98.82 |
| 5.79 | 29 | 5.088 | 168 | 29.475 | 32.55 | 36.96 | 39.87 | 47.05 | 56.69 | 61.77 | 69.34 | 76.61 | 84.97 | 93.32 | 107.20 |
| 6.00 | 28 | 4.912 | 168 | 29.475 | 32.67 | 37.08 | 39.99 | 47.17 | 56.81 | 61.89 | 69.46 | 76.73 | 85.09 | 93.44 | 107.33 |
| 6.00 | 32 | 5.614 | 192 | 33.686 | 27.59 | 32.24 | 35.25 | 42.63 | 52.43 | 57.56 | 65.20 | 72.52 | 80.92 | 89.31 | 103.23 |
| 6.00 | 36 | 6.316 | 216 | 37.896 | – | 26.78 | 30.04 | 37.78 | 47.85 | 53.06 | 60.80 | 68.19 | 76.66 | 85.09 | 99.07 |
| 6.35 | 34 | 5.965 | 216 | 37.896 | – | 26.99 | 30.25 | 38.00 | 48.08 | 53.30 | 61.04 | 68.43 | 76.90 | 85.33 | 99.32 |
| 6.40 | 30 | 5.263 | 192 | 33.686 | 27.80 | 32.46 | 35.48 | 42.86 | 52.67 | 57.80 | 65.44 | 72.76 | 81.17 | 89.56 | 103.49 |
| 6.62 | 29 | 5.088 | 192 | 33.686 | 27.79 | 32.49 | 35.53 | 42.93 | 52.75 | 57.89 | 65.54 | 72.86 | 81.28 | 89.66 | 103.60 |
| 6.75 | 32 | 5.614 | 216 | 37.896 | – | 27.20 | 30.47 | 38.22 | 48.30 | 53.53 | 61.28 | 68.67 | 77.15 | 85.58 | 99.58 |
| 6.86 | 28 | 4.912 | 192 | 33.686 | 28.01 | 32.67 | 35.70 | 43.09 | 52.90 | 58.04 | 65.68 | 73.01 | 81.42 | 89.81 | 103.74 |
| **Length Factor*** | | | | | **1.05** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** | **1.10** |

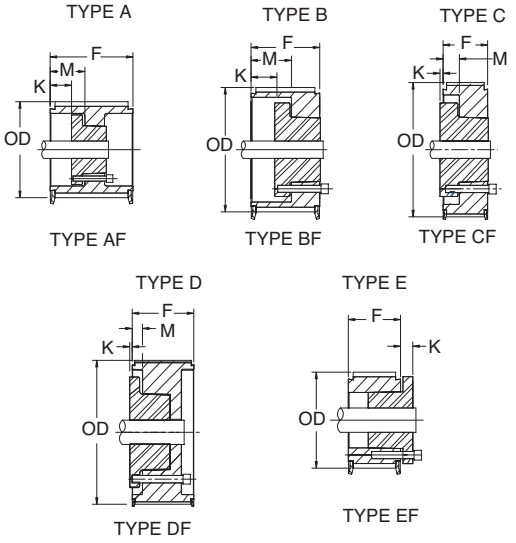
Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

# Notes

# Specification

## QD HTD Sprockets



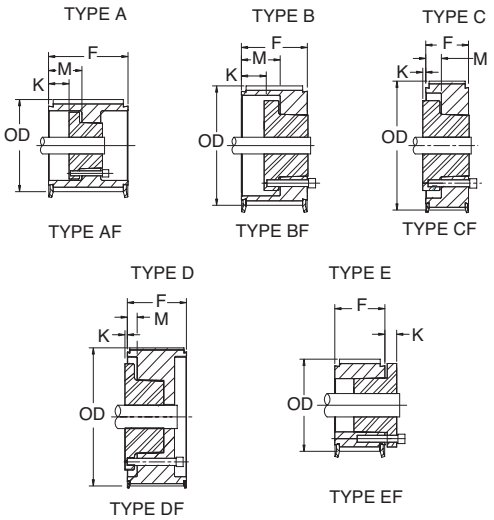

The figure following the sketch reference letter in the “Type” column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter ”F” indicates that the sprocket has flanges.

**5 mm QD HTD Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | M | K | Min. | Max | | |
| **5M-15** | | | | | **F=0.89”** | | | | | | | |
| P38-5M-15-JA | **114641** | 38 | 2.381 | 2.336 | 2.613 | E1F | 0.00 | 0.51 | 1/2 | 1-1/4 | 0.6 | 0.0030 |
| P40-5M-15-JA | **114642** | 40 | 2.506 | 2.461 | 2.733 | E1F | 0.00 | 0.51 | 1/2 | 1-1/4 | 0.7 | 0.0039 |
| P44-5M-15-JA | **114643** | 44 | 2.757 | 2.712 | 3.090 | E1F | 0.00 | 0.51 | 1/2 | 1-1/4 | 0.9 | 0.0061 |
| P48-5M-15-JA | **114644** | 48 | 3.008 | 2.963 | 3.328 | D1F | 0.31 | 0.20 | 1/2 | 1-1/4 | 0.9 | 0.0076 |
| P52-5M-15-JA | **114645** | 52 | 3.258 | 3.213 | 3.566 | D1F | 0.31 | 0.20 | 1/2 | 1-1/4 | 1.1 | 0.0106 |
| P56-5M-15-SH | **114646** | 56 | 3.509 | 3.464 | 3.805 | E1F | 0.00 | 0.68 | 1/2 | 1-11/16 | 1.5 | 0.0169 |
| P60-5M-15-SH | **114647** | 60 | 3.760 | 3.715 | 4.044 | E1F | 0.00 | 0.68 | 1/2 | 1-11/16 | 1.8 | 0.0233 |
| P64-5M-15-SH | **114648** | 64 | 4.010 | 3.965 | 4.170 | E1F | 0.00 | 0.68 | 1/2 | 1-11/16 | 2.1 | 0.0312 |
| P68-5M-15-SDS | **114649** | 68 | 4.261 | 4.216 | 4.520 | D1F | 0.14 | 0.56 | 1/2 | 2 | 2.1 | 0.0369 |
| P72-5M-15-SDS | **114650** | 72 | 4.511 | 4.466 | 4.670 | D1F | 0.14 | 0.56 | 1/2 | 2 | 2.4 | 0.0463 |
| P80-5M-15-SDS | **114651** | 80 | 5.013 | 4.968 | – | C1 | 0.14 | 0.56 | 1/2 | 2 | 3.1 | 0.0732 |
| P90-5M-15-SDS | **114652** | 90 | 5.639 | 5.594 | – | C1 | 0.14 | 0.56 | 1/2 | 2 | 4.1 | 0.1204 |
| P112-5M-15-SDS | **114653** | 112 | 7.018 | 6.973 | – | C1 | 0.14 | 0.56 | 1/2 | 2 | 6.9 | 0.3033 |
| **5M-25** | | | | | **F=1.28”** | | | | | | | |
| P38-5M-25-JA | **114655** | 38 | 2.381 | 2.336 | 2.613 | E1F | 0.00 | 0.51 | 1/2 | 1-1/4 | 0.9 | 0.0043 |
| P40-5M-25-JA | **114656** | 40 | 2.506 | 2.461 | 2.733 | E1F | 0.00 | 0.51 | 1/2 | 1-1/4 | 1.0 | 0.0056 |
| P44-5M-25-JA | **114657** | 44 | 2.757 | 2.712 | 3.090 | E1F | 0.00 | 0.51 | 1/2 | 1-1/4 | 1.3 | 0.0088 |
| P48-5M-25-JA | **114658** | 48 | 3.008 | 2.963 | 3.328 | B1F | 0.72 | 0.21 | 1/2 | 1-1/4 | 1.1 | 0.0097 |
| P52-5M-25-JA | **114659** | 52 | 3.258 | 3.213 | 3.566 | B1F | 0.72 | 0.21 | 1/2 | 1-1/4 | 1.3 | 0.0133 |
| P56-5M-25-SH | **114660** | 56 | 3.509 | 3.464 | 3.805 | C1F | 0.47 | 0.21 | 1/2 | 1-11/16 | 1.7 | 0.0206 |
| P60-5M-25-SH | **114661** | 60 | 3.760 | 3.715 | 4.044 | C1F | 0.47 | 0.21 | 1/2 | 1-11/16 | 2.1 | 0.0285 |
| P64-5M-25-SH | **114662** | 64 | 4.010 | 3.965 | 4.170 | C1F | 0.47 | 0.21 | 1/2 | 1-11/16 | 2.4 | 0.0379 |
| P68-5M-25-SDS | **114663** | 68 | 4.261 | 4.216 | 4.520 | C1F | 0.53 | 0.17 | 1/2 | 2 | 2.6 | 0.0479 |
| P72-5M-25-SDS | **114664** | 72 | 4.511 | 4.466 | 4.670 | C1F | 0.53 | 0.17 | 1/2 | 2 | 2.8 | 0.0564 |
| P80-5M-25-SDS | **114665** | 80 | 5.013 | 4.968 | – | C1 | 0.53 | 0.17 | 1/2 | 2 | 3.6 | 0.0875 |
| P90-5M-25-SDS | **114666** | 90 | 5.639 | 5.594 | – | C1 | 0.53 | 0.17 | 1/2 | 2 | 4.7 | 0.1414 |
| P112-5M-25-SDS | **114667** | 112 | 7.018 | 6.973 | – | C1 | 0.53 | 0.17 | 1/2 | 2 | 7.7 | 0.3595 |

# Specification

## QD HTD Sprockets



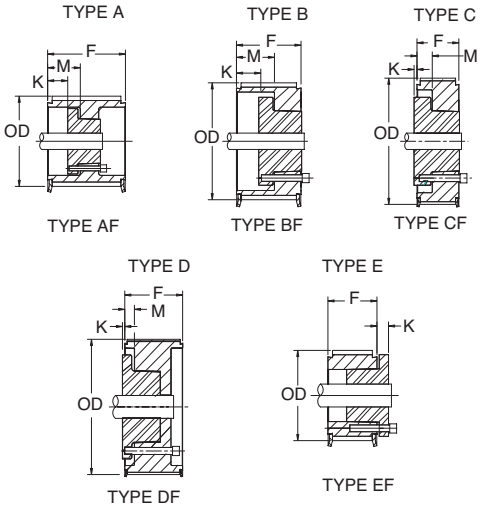
The figure following the sketch reference letter in the “Type” column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter ”F” indicates that the sprocket has flanges.

**8 mm QD HTD Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | M | K | Min. | Max | | |
| **8M-20** | | | | | **F = 1.125”** | | | | | | | |
| P24-8M-20-JA | **110701** | 24 | 2.406 | 2.352 | 2.756 | E1F | 0.00 | 0.51 | 1/2 | 1-1/4 | 0.8 | 0.0039 |
| P26-8M-20-JA | **110702** | 26 | 2.607 | 2.553 | 2.906 | E1F | 0.00 | 0.51 | 1/2 | 1-1/4 | 1.0 | 0.0059 |
| P28-8M-20-QT | **110703** | 28 | 2.807 | 2.759 | 3.207 | E1F | 0.00 | 1.42 | 3/8 | 1-1/2 | 1.1 | 0.0078 |
| P30-8M-20-QT | **110704** | 30 | 3.008 | 2.958 | 3.408 | E1F | 0.00 | 1.42 | 3/8 | 1-1/2 | 1.3 | 0.0110 |
| P32-8M-20-QT | **110705** | 32 | 3.208 | 3.156 | 3.608 | E1F | 0.00 | 1.42 | 3/8 | 1-1/2 | 1.6 | 0.0148 |
| P34-8M-20-SH | **110706** | 34 | 3.409 | 3.355 | 3.810 | E1F | 0.00 | 0.68 | 1/2 | 1-11/16 | 1.6 | 0.0181 |
| P36-8M-20-SH | **110707** | 36 | 3.609 | 3.555 | 4.009 | C1F | 0.31 | 0.37 | 1/2 | 1-11/16 | 1.7 | 0.0213 |
| P38-8M-20-SH | **110708** | 38 | 3.810 | 3.756 | 4.210 | C1F | 0.31 | 0.37 | 1/2 | 2 | 2.0 | 0.0272 |
| P40-8M-20-SH | **110709** | 40 | 4.010 | 3.956 | 4.410 | C1F | 0.31 | 0.37 | 1/2 | 2 | 2.3 | 0.0353 |
| P44-8M-20-SDS | **110710** | 44 | 4.411 | 4.357 | 4.764 | C1F | 0.38 | 0.32 | 1/2 | 2 | 2.6 | 0.0490 |
| P48-8M-20-SDS | **110711** | 48 | 4.812 | 4.758 | 5.212 | C1F | 0.38 | 0.32 | 1/2 | 2 | 3.4 | 0.0771 |
| P56-8M-20-SDS | **110712** | 56 | 5.614 | 5.560 | 6.014 | C1F | 0.38 | 0.32 | 1/2 | 2 | 4.6 | 0.1370 |
| P64-8M-20-SDS | **110713** | 64 | 6.416 | 6.362 | 6.716 | C1F | 0.38 | 0.32 | 1/2 | 2 | 6.8 | 0.2639 |
| P72-8M-20-SDS | **110714** | 72 | 7.218 | 7.164 | 7.500 | C1F | 0.38 | 0.32 | 1/2 | 2 | 8.8 | 0.4298 |
| P80-8M-20-SDS | **110715** | 80 | 8.020 | 7.966 | 8.420 | C1F | 0.38 | 0.32 | 1/2 | 2 | 11 | 0.6433 |
| P90-8M-20-SDS | **110716** | 90 | 9.023 | 8.969 | – | C2 | 0.38 | 0.32 | 1/2 | 2 | 12 | 0.9369 |
| **8M-30** | | | | | **F = 1.5”** | | | | | | | |
| P28-8M-30-QT | **110723** | 28 | 2.807 | 2.759 | 3.207 | E1F | 0.00 | 0.37 | 1/2 | 1-1/2 | 1.4 | 0.0104 |
| P30-8M-30-QT | **110724** | 30 | 3.008 | 2.958 | 3.408 | E1F | 0.00 | 0.37 | 3/8 | 1-1/2 | 1.8 | 0.0146 |
| P32-8M-30-QT | **110725** | 32 | 3.208 | 3.156 | 3.608 | E1F | 0.00 | 0.37 | 3/8 | 1-1/2 | 2.1 | 0.0197 |
| P34-8M-30-SH | **110726** | 34 | 3.409 | 3.355 | 3.810 | B1F | 0.69 | 0.01 | 1/2 | 1-11/16 | 1.6 | 0.0186 |
| P36-8M-30-SH | **110727** | 36 | 3.609 | 3.555 | 4.009 | B1F | 0.69 | 0.01 | 1/2 | 1-11/16 | 2.0 | 0.0259 |
| P38-8M-30-SH | **110728** | 38 | 3.810 | 3.756 | 4.210 | B1F | 0.69 | 0.01 | 1/2 | 1-11/16 | 2.3 | 0.0328 |
| P40-8M-30-SH | **110729** | 40 | 4.010 | 3.956 | 4.410 | B1F | 0.69 | 0.01 | 1/2 | 1-11/16 | 2.8 | 0.0435 |
| P44-8M-30-SDS | **110730** | 44 | 4.411 | 4.357 | 4.764 | B1F | 0.75 | 0.05 | 1/2 | 2 | 3.0 | 0.0595 |
| P48-8M-30-SDS | **110731** | 48 | 4.812 | 4.758 | 5.212 | B1F | 0.75 | 0.05 | 1/2 | 2 | 3.8 | 0.0880 |
| P56-8M-30-SDS | **110732** | 56 | 5.614 | 5.560 | 6.014 | B1F | 0.75 | 0.05 | 1/2 | 2 | 5.2 | 0.1633 |
| P64-8M-30-SK | **110733** | 64 | 6.416 | 6.362 | 6.716 | C1F | 0.25 | 0.64 | 1/2 | 2-5/8 | 8.6 | 0.3421 |
| P72-8M-30-SK | **110734** | 72 | 7.218 | 7.164 | 7.500 | C1F | 0.25 | 0.64 | 1/2 | 2-5/8 | 12 | 0.5710 |
| P80-8M-30-SK | **110735** | 80 | 8.020 | 7.966 | 8.420 | C2 | 0.25 | 0.64 | 1/2 | 2-5/8 | 11 | 0.6487 |
| P90-8M-30-SK | **110736** | 90 | 9.023 | 8.969 | – | C2 | 0.25 | 0.64 | 1/2 | 2-5/8 | 16 | 1.2862 |
| P112-8M-30-SK | **110737** | 112 | 11.229 | 11.175 | – | C2 | 0.25 | 0.64 | 1/2 | 2-5/8 | 22 | 2.703 |

# Specification

## QD HTD Sprockets



The figure following the sketch reference letter in the “Type” column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter ”F” indicates that the sprocket has flanges.

**8 mm QD HTD Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | M | K | Min. | Max | | |
| **8M-50** | | | | | **F = 2.38”** | | | | | | | |
| P28-8M-50-JA | **110738** | 28 | 2.807 | 2.759 | 3.207 | A1F | 0.81 | 0.30 | 1/2 | 1-1/4 | 1.7 | 0.0127 |
| P30-8M-50-JA | **110739** | 30 | 3.008 | 2.958 | 3.408 | A1F | 0.81 | 0.30 | 1/2 | 1-1/4 | 1.9 | 0.0172 |
| P32-8M-50-QT | **110742** | 32 | 3.208 | 3.156 | 3.608 | A1F | 0.81 | 0.30 | 3/8 | 1-1/2 | 2.1 | 0.0214 |
| P34-8M-50-SH | **110743** | 34 | 3.409 | 3.355 | 3.810 | D1F | 0.50 | 0.18 | 1/2 | 1-11/16 | 2.2 | 0.0263 |
| P36-8M-50-SH | **110744** | 36 | 3.609 | 3.555 | 4.009 | D1F | 0.50 | 0.18 | 1/2 | 1-11/16 | 2.8 | 0.0367 |
| P38-8M-50-SH | **110745** | 38 | 3.810 | 3.756 | 4.210 | D1F | 0.50 | 0.18 | 1/2 | 1-11/16 | 3.1 | 0.0462 |
| P40-8M-50-SH | **110746** | 40 | 4.010 | 3.956 | 4.410 | D1F | 0.50 | 0.18 | 1/2 | 1-11/16 | 3.9 | 0.0632 |
| P44-8M-50-SD | **110747** | 44 | 4.411 | 4.357 | 4.764 | D1F | 0.56 | 1.74 | 1/2 | 2 | 5.5 | 0.1068 |
| P48-8M-50-SD | **110748** | 48 | 4.812 | 4.758 | 5.212 | D1F | 0.56 | 1.74 | 1/2 | 2 | 7.2 | 0.1644 |
| P56-8M-50-SK | **110749** | 56 | 5.614 | 5.560 | 6.014 | D1F | 0.56 | 0.33 | 1/2 | 2-15/16 | 11 | 0.3314 |
| P64-8M-50-SK | **110750** | 64 | 6.416 | 6.362 | 6.716 | D1F | 0.56 | 0.33 | 1/2 | 2-15/16 | 10 | 0.4400 |
| P72-8M-50-SK | **110751** | 72 | 7.218 | 7.164 | 7.500 | D1F | 0.56 | 0.33 | 1/2 | 2-15/16 | 16 | 0.8488 |
| P80-8M-50-SF | **110752** | 80 | 8.020 | 7.966 | 8.420 | D1F | 0.56 | 0.38 | 1/2 | 2-15/16 | 20 | 1.335 |
| P90-8M-50-SF | **110753** | 90 | 9.023 | 8.969 | – | D1 | 0.56 | 0.38 | 1/2 | 2-15/16 | 25 | 2.102c |
| P112-8M-50-SF | **110754** | 112 | 11.229 | 11.175 | – | D2 | 0.75 | 0.19 | 1/2 | 2-15/16 | 32 | 4.152 |
| P144-8M-50-E | **110755** | 144 | 14.437 | 14.383 | – | D3 | 0.38 | 0.82 | 7/8 | 3-1/2 | 45 | 9.391 |
| P192-8M-50-E | **110756** | 192 | 19.249 | 19.195 | – | D3 | 0.38 | 0.82 | 7/8 | 3-1/2 | 65 | 20.42 |
| **8M-85** | | | | | **F = 3.75”** | | | | | | | |
| P34-8M-85-SH | **110760** | 34 | 3.409 | 3.355 | 3.810 | A1F | 1.50 | 0.82 | 1/2 | 1-11/16 | 3.1 | 0.0376 |
| P36-8M-85-SH | **110761** | 36 | 3.609 | 3.555 | 4.009 | A1F | 1.50 | 0.82 | 1/2 | 1-11/16 | 3.9 | 0.0535 |
| P38-8M-85-SH | **110762** | 38 | 3.810 | 3.756 | 4.210 | A1F | 1.50 | 0.82 | 1/2 | 1-11/16 | 4.4 | 0.0671 |
| P40-8M-85-SD | **110763** | 40 | 4.010 | 3.956 | 4.410 | A1F | 1.25 | 0.55 | 1/2 | 2 | 4.9 | 0.0836 |
| P44-8M-85-SD | **110764** | 44 | 4.411 | 4.357 | 4.764 | A1F | 1.25 | 0.55 | 1/2 | 2 | 7.8 | 0.1589 |
| P48-8M-85-SD | **110765** | 48 | 4.812 | 4.758 | 5.212 | A1F | 1.25 | 0.55 | 1/2 | 2 | 11 | 0.2496 |
| P56-8M-85-SK | **110766** | 56 | 5.614 | 5.560 | 6.014 | A1F | 1.25 | 0.36 | 1/2 | 2-5/8 | 12 | 0.4191 |
| P64-8M-85-SK | **110767** | 64 | 6.42 | 6.362 | 6.716 | A1F | 1.25 | 0.36 | 1/2 | 2-5/8 | 17 | 0.7664 |
| P72-8M-85-SF | **110768** | 72 | 7.218 | 7.164 | 7.500 | A1F | 1.25 | 0.31 | 1/2 | 2-15/16 | 19 | 1.114 |
| P80-8M-85-SF | **110769** | 80 | 8.020 | 7.966 | 8.420 | A1F | 1.25 | 0.31 | 1/2 | 2-15/16 | 29 | 1.982 |
| P90-8M-85-SF | **110770** | 90 | 9.023 | 8.969 | – | A1 | 1.25 | 0.31 | 1/2 | 2-15/16 | 26 | 2.253 |
| P112-8M-85-SF | **110771** | 112 | 11.229 | 11.175 | – | A2 | 1.25 | 0.31 | 1/2 | 2-15/16 | 38 | 5.286 |
| P144-8M-85-E | **110772** | 144 | 14.437 | 14.383 | – | D3 | 1.06 | 0.14 | 7/8 | 3-1/2 | 61 | 14.031 |
| P192-8M-85-E | **110773** | 192 | 19.249 | 19.195 | – | D3 | 1.06 | 0.14 | 7/8 | 3-1/2 | 76 | 26.80 |

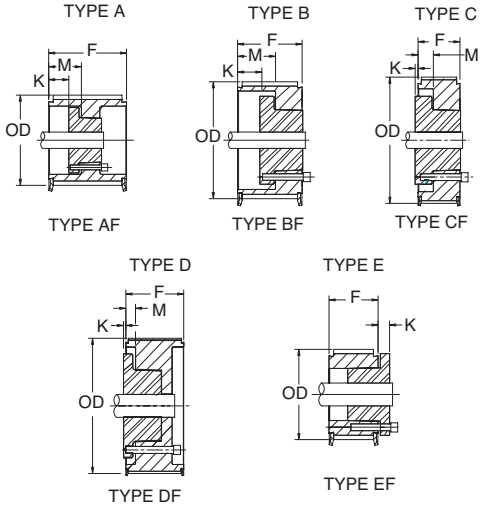
# Specification

**14 mm QD HTD Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | M | K | Min. | Max | | |
| **14M-40** | | | | | **F = 2.13”** | | | | | | | |
| P28-14M-40-SK | **110780** | 28 | 4.912 | 4.808 | 5.562 | E1F | 0.00 | 0.89 | 0.5 | 2-5/8 | 5.8 | 0.1301 |
| P29-14M-40-SK | **110781** | 29 | 5.088 | 4.983 | 5.562 | E1F | 0.00 | 0.89 | 0.5 | 2-5/8 | 6.5 | 0.1561 |
| P30-14M-40-SK | **110782** | 30 | 5.263 | 5.157 | 5.763 | D1F | 0.44 | 0.45 | 0.5 | 2-5/8 | 6.2 | 0.1629 |
| P32-14M-40-SK | **110783** | 32 | 5.614 | 5.507 | 6.114 | D1F | 0.44 | 0.45 | 0.5 | 2-5/8 | 7.8 | 0.2310 |
| P34-14M-40-SK | **110784** | 34 | 5.965 | 5.858 | 6.465 | D1F | 0.44 | 0.45 | 0.5 | 2-5/8 | 9.4 | 0.3113 |
| P36-14M-40-SF | **110785** | 36 | 6.316 | 6.208 | 6.816 | D1F | 0.44 | 0.50 | 0.5 | 2-15/16 | 9.6 | 0.3693 |
| P38-14M-40-SF | **110786** | 38 | 6.667 | 6.559 | 7.167 | D1F | 0.44 | 0.50 | 0.5 | 2-15/16 | 12 | 0.5080 |
| P40-14M-40-SF | **110787** | 40 | 7.018 | 6.909 | 7.518 | D1F | 0.44 | 0.50 | 0.5 | 2-15/16 | 13 | 0.6096 |
| P44-14M-40-E | **110788** | 44 | 7.720 | 7.610 | 8.395 | D1F | 0.38 | 0.82 | 0.875 | 3-1/2 | 16 | 0.9305 |
| P48-14M-40-E | **110789** | 48 | 8.421 | 8.311 | 8.941 | D1F | 0.38 | 0.82 | 0.875 | 3-1/2 | 20 | 1.360 |
| P52-14M-40-E | **110790** | 52 | 9.123 | 9.013 | 9.687 | D1F | 0.25 | 0.95 | 0.875 | 3-1/2 | 25 | 1.991 |
| P56-14M-40-E | **110791** | 56 | 9.825 | 9.715 | 10.355 | D1F | 0.25 | 0.95 | 0.875 | 3-1/2 | 29 | 2.583 |
| P60-14M-40-E | **110792** | 60 | 10.527 | 10.417 | 11.067 | D1F | 0.44 | 0.76 | 0.875 | 3-1/2 | 34 | 3.494 |
| P64-14M-40-E | **110793** | 64 | 11.229 | 11.119 | 11.750 | D1F | 0.44 | 0.76 | 0.875 | 3-1/2 | 39 | 4.489 |
| P68-14M-40-E | **110794** | 68 | 11.930 | 11.820 | 12.500 | D2F | 0.44 | 0.76 | 0.875 | 3-1/2 | 34 | 4.368 |
| P72-14M-40-E | **110795** | 72 | 12.632 | 12.522 | 13.066 | D2F | 0.31 | 0.89 | 0.875 | 3-1/2 | 40 | 5.811 |
| P80-14M-40-E | **110796** | 80 | 14.036 | 13.926 | 14.620 | D3F | 0.44 | 0.76 | 0.875 | 3-1/2 | 39 | 7.005 |
| P90-14M-40-E | **110797** | 90 | 15.790 | 15.680 | – | D3 | 0.25 | 0.95 | 0.875 | 3-1/2 | 40 | 8.633 |
| P112-14M-40-E | **110798** | 112 | 19.650 | 19.540 | – | D3 | 0.25 | 0.95 | 0.875 | 3-1/2 | 67 | 21.62 |
| P144-14M-40-E | **110799** | 144 | 25.264 | 25.154 | – | D3 | 0.25 | 0.95 | 0.875 | 3-1/2 | 66 | 38.99 |
| P168-14M-40-F | **110759** | 168 | 29.475 | 29.265 | – | C3 | 0.37 | 1.79 | 1 | 4 | 91 | 74.83 |
| P192-14M-40-F | **110774** | 192 | 33.686 | 33.576 | – | C3 | 0.37 | 1.79 | 1 | 4 | 108 | 117.1 |
| **14M-55** | | | | | **F = 2.75”** | | | | | | | |
| P28-14M-55-SK | **110805** | 28 | 4.912 | 4.808 | 5.562 | E1F | 0.00 | 0.89 | 0.5 | 2-5/8 | 7.3 | 0.1657 |
| P29-14M-55-SK | **110806** | 29 | 5.088 | 4.983 | 5.562 | E1F | 0.00 | 0.89 | 0.5 | 2-5/8 | 8.2 | 0.1991 |
| P30-14M-55-SK | **110807** | 30 | 5.263 | 5.157 | 5.763 | D1F | 0.75 | 0.14 | 0.5 | 2-5/8 | 7.5 | 0.1989 |
| P32-14M-55-SK | **110808** | 32 | 5.614 | 5.507 | 6.114 | D1F | 0.75 | 0.14 | 0.5 | 2-5/8 | 9.5 | 0.2868 |
| P34-14M-55-SK | **110809** | 34 | 5.965 | 5.858 | 6.465 | D1F | 0.75 | 0.14 | 0.5 | 2-5/8 | 11 | 0.3851 |
| P36-14M-55-SF | **110810** | 36 | 6.316 | 6.208 | 6.816 | D1F | 0.75 | 0.19 | 0.5 | 2-15/16 | 11 | 0.4515 |
| P38-14M-55-SF | **110811** | 38 | 6.667 | 6.559 | 7.167 | D1F | 0.75 | 0.19 | 0.5 | 2-15/16 | 14 | 0.6139 |
| P40-14M-55-SF | **110812** | 40 | 7.018 | 6.909 | 7.518 | D1F | 0.75 | 0.19 | 0.5 | 2-15/16 | 15 | 0.7440 |
| P44-14M-55-E | **110813** | 44 | 7.720 | 7.610 | 8.395 | D1F | 0.56 | 0.64 | 0.875 | 3-1/2 | 19 | 1.136 |
| P48-14M-55-E | **110814** | 48 | 8.421 | 8.311 | 8.941 | D1F | 0.56 | 0.64 | 0.875 | 3-1/2 | 23 | 1.641 |
| P52-14M-55-E | **110815** | 52 | 9.123 | 9.013 | 9.687 | D1F | 0.56 | 0.64 | 0.875 | 3-1/2 | 30 | 2.454 |
| P56-14M-55-E | **110816** | 56 | 9.825 | 9.715 | 10.355 | D1F | 0.56 | 0.64 | 0.875 | 3-1/2 | 32 | 3.030 |
| P60-14M-55-E | **110817** | 60 | 10.527 | 10.417 | 11.067 | D1F | 0.56 | 0.64 | 0.875 | 3-1/2 | 38 | 4.038 |
| P64-14M-55-F | **110818** | 64 | 11.229 | 11.119 | 11.750 | D1F | 0.13 | 1.29 | 1 | 4 | 54 | 6.267 |
| P68-14M-55-F | **110819** | 68 | 11.930 | 11.820 | 12.500 | D1F | 0.13 | 1.29 | 1 | 4 | 62 | 8.029 |
| P72-14M-55-F | **110820** | 72 | 12.632 | 12.522 | 13.066 | D1F | 0.13 | 1.29 | 1 | 4 | 71 | 10.32 |
| P80-14M-55-F | **110821** | 80 | 14.036 | 13.926 | 14.620 | D1F | 0.13 | 1.29 | 1 | 4 | 89 | 15.76 |
| P90-14M-55-F | **110822** | 90 | 15.790 | 15.680 | – | D2 | 0.13 | 1.29 | 1 | 4 | 61 | 12.67 |
| P112-14M-55-F | **110823** | 112 | 19.650 | 19.540 | – | D3 | 0.13 | 1.29 | 1 | 4 | 80 | 25.72 |
| P144-14M-55-F | **110824** | 144 | 25.264 | 25.154 | – | D3 | 0.13 | 1.29 | 1 | 4 | 90 | 55.45 |
| P168-14M-55-F | **110825** | 168 | 29.475 | 29.265 | – | D3 | 0.13 | 1.29 | 1 | 4 | 111 | 95.26 |
| P192-14M-55-F | **110826** | 192 | 33.686 | 33.576 | – | D3 | 0.13 | 1.29 | 1 | 4 | 134 | 149.7 |
| P216-14M-55-F | **110827** | 216 | 37.896 | 37.786 | – | D3 | 0.13 | 1.29 | 1 | 4 | 159 | 223.9 |
| **14M-85** | | | | | **F = 4”** | | | | | | | |
| P30-14M-85-SK | **110832** | 30 | 5.263 | 5.157 | 5.763 | A1F | 1.38 | 0.49 | 1/2 | 2-11/16 | 10 | 0.2715 |
| P32-14M-85-SK | **110833** | 32 | 5.614 | 5.507 | 6.114 | A1F | 1.38 | 0.49 | 1/2 | 2-5/8 | 13 | 0.3993 |
| P34-14M-85-SK | **110834** | 34 | 5.965 | 5.858 | 6.465 | A1F | 1.38 | 0.49 | 1/2 | 2-5/8 | 15 | 0.5387 |
| P36-14M-85-SF | **110835** | 36 | 6.316 | 6.208 | 6.816 | A1F | 1.5 | 0.56 | 1/2 | 2-15/16 | 15 | 0.6171 |
| P38-14M-85-SF | **110836** | 38 | 6.667 | 6.559 | 7.167 | A1F | 1.38 | 0.44 | 1/2 | 2-15/16 | 19 | 0.8559 |
| P40-14M-85-SF | **110837** | 40 | 7.018 | 6.909 | 7.518 | A1F | 1.38 | 0.44 | 1/2 | 2-15/16 | 22 | 1.097 |
| P44-14M-85-E | **110838** | 44 | 7.720 | 7.610 | 8.395 | D1F | 1.19 | 0.01 | 7/8 | 3-1/2 | 23 | 1.390 |
| P48-14M-85-E | **110839** | 48 | 8.421 | 8.311 | 8.941 | D1F | 1.19 | 0.01 | 7/8 | 3-1/2 | 29 | 2.133 |
| P52-14M-85-E | **110840** | 52 | 9.123 | 9.013 | 9.687 | D1F | 1.19 | 0.01 | 7/8 | 3-1/2 | 35 | 2.972 |
| P56-14M-85-F | **110841** | 56 | 9.825 | 9.715 | 10.355 | D1F | 0.75 | 0.67 | 1 | 4 | 46 | 4.426 |
| P60-14M-85-F | **110842** | 60 | 10.527 | 10.417 | 11.067 | D1F | 0.75 | 0.67 | 1 | 4 | 57 | 6.259 |
| P64-14M-85-F | **110843** | 64 | 11.229 | 11.119 | 11.750 | D1F | 0.75 | 0.67 | 1 | 4 | 64 | 7.866 |
| P68-14M-85-F | **110852** | 68 | 11.930 | 11.820 | 12.500 | D1F | 0.75 | 0.67 | 1 | 4 | 75 | 10.40 |
| P72-14M-85-F | **110844** | 72 | 12.632 | 12.522 | 13.066 | D1F | 0.75 | 0.67 | 1 | 4 | 89 | 13.74 |
| P80-14M-85-F | **110845** | 80 | 14.036 | 13.926 | 14.620 | D1F | 0.75 | 0.67 | 1 | 4 | 100 | 18.65 |
| P90-14M-85-F | **110846** | 90 | 15.790 | 15.680 | – | D3 | 0.75 | 0.67 | 1 | 4 | 57 | 12.19 |
| P112-14M-85-F | **110847** | 112 | 19.650 | 19.540 | – | D3 | 0.75 | 0.67 | 1 | 4 | 94 | 32.92 |
| P144-14M-85-F | **110848** | 144 | 25.264 | 25.154 | – | D3 | 0.75 | 0.67 | 1 | 4 | 129 | 73.66 |
| P168-14M-85-F | **110849** | 168 | 29.475 | 29.265 | – | D3 | 0.69 | 0.73 | 1 | 4 | 144 | 126.7 |
| P192-14M-85-F | **110850** | 192 | 33.686 | 33.576 | – | D3 | 0.69 | 0.73 | 1 | 4 | 178 | 203.8 |
| P216-14M-85-F | **110851** | 216 | 37.896 | 37.786 | – | D3 | 0.69 | 0.73 | 1 | 4 | 216 | 315.6 |

# Specification

## QD HTD Sprockets



The figure following the sketch reference letter in the “Type” column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter ”F” indicates that the sprocket has flanges.

**14 mm QD HTD Sprockets**

| Sprocket Number | Part No. | No. Of Teeth | Diameters | | | Type | Dimensions (In.) | | Bore Sizes | | Approx. Weight (Lbs.) | Approx. Wr^2 (Lb-Ft^2) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P.D. | O.D. | Flange | | M | K | Min. | Max | | |
| **14M-115** | | | | | **F = 5.25”** | | | | | | | |
| P30-14M-115-SK | **110857** | 30 | 5.263 | 5.157 | 5.763 | A1F | 2.00 | 1.11 | 1/2 | 2-5/8 | 12 | 0.3441 |
| P32-14M-115-SK | **110858** | 32 | 5.614 | 5.507 | 6.114 | A1F | 2.00 | 1.11 | 1/2 | 2-5/8 | 16 | 0.5084 |
| P34-14M-115-SK | **110859** | 34 | 5.965 | 5.858 | 6.465 | A1F | 2.00 | 1.11 | 1/2 | 2-5/8 | 20 | 0.7035 |
| P36-14M-115-SF | **110860** | 36 | 6.316 | 6.208 | 6.816 | A1F | 2.00 | 1.06 | 1/2 | 2-15/16 | 19 | 0.7834 |
| P38-14M-115-SF | **110861** | 38 | 6.667 | 6.559 | 7.167 | A1F | 2.00 | 1.06 | 1/2 | 2-15/16 | 22 | 1.000 |
| P40-14M-115-SF | **110862** | 40 | 7.018 | 6.909 | 7.518 | A1F | 2.00 | 1.06 | 1/2 | 2-15/16 | 26 | 1.306 |
| P44-14M-115-E | **110863** | 44 | 7.720 | 7.610 | 8.395 | A1F | 2.00 | 0.80 | 7/8 | 3-1/2 | 27 | 1.717 |
| P48-14M-115-E | **110864** | 48 | 8.421 | 8.311 | 8.941 | A1F | 1.94 | 0.74 | 7/8 | 3-1/2 | 36 | 2.657 |
| P52-14M-115-F | **110865** | 52 | 9.123 | 9.013 | 9.687 | D1F | 1.38 | 0.05 | 1 | 4 | 48 | 4.133 |
| P56-14M-115-F | **110866** | 56 | 9.825 | 9.715 | 10.355 | D1F | 1.38 | 0.05 | 1 | 4 | 54 | 5.326 |
| P60-14M-115-F | **110867** | 60 | 10.527 | 10.417 | 11.067 | D1F | 1.38 | 0.05 | 1 | 4 | 63 | 7.105 |
| P64-14M-115-J | **110868** | 64 | 11.229 | 11.119 | 11.750 | D1F | 1.00 | 0.20 | 1-1/2 | 4-1/2 | 81 | 10.377 |
| P68-14M-115-J | **110869** | 68 | 11.930 | 11.820 | 12.500 | D1F | 1.00 | 0.20 | 1-1/2 | 4-1/2 | 90 | 12.89 |
| P72-14M-115-J | **110870** | 72 | 12.632 | 12.522 | 13.066 | D1F | 1.00 | 0.20 | 1-1/2 | 4-1/2 | 101 | 16.06 |
| P80-14M-115-J | **110871** | 80 | 14.036 | 13.926 | 14.620 | D2F | 1.00 | 0.20 | 1-1/2 | 4-1/2 | 108 | 21.04 |
| P90-14M-115-J | **110872** | 90 | 15.790 | 15.680 | – | D2 | 1.00 | 0.20 | 1-1/2 | 4-1/2 | 121 | 29.10 |
| P112-14M-115-J | **110873** | 112 | 19.650 | 19.540 | – | D3 | 1.00 | 0.20 | 1-1/2 | 4-1/2 | 117 | 46.65 |
| P144-14M-115-J | **110874** | 144 | 25.264 | 25.154 | – | D3 | 1.06 | 0.14 | 1-1/2 | 4-1/2 | 157 | 113.9 |
| P168-14M-115-J | **110875** | 168 | 29.475 | 29.265 | – | D3 | 1.06 | 0.14 | 1-1/2 | 4-1/2 | 198 | 209.1 |
| P192-14M-115-J | **110876** | 192 | 33.686 | 33.576 | – | D3 | 1.06 | 0.14 | 1-1/2 | 4-1/2 | 240 | 265.8 |
| P216-14M-115-J | **110877** | 216 | 37.896 | 37.786 | – | D3 | 1.06 | 0.14 | 1-1/2 | 4-1/2 | 284 | 401.7 |
| **14M-170** | | | | | **F = 7.38”** | | | | | | | |
| P44-14M-170-E | **110883** | 44 | 7.720 | 7.610 | 8.395 | A1F | 2.88 | 1.68 | 7/8 | 3-1/2 | 35 | 2.273 |
| P48-14M-170-E | **110884** | 48 | 8.421 | 8.311 | 8.941 | A1F | 2.88 | 1.68 | 7/8 | 3-1/2 | 46 | 3.550 |
| P52-14M-170-F | **110885** | 52 | 9.123 | 9.013 | 9.687 | A1F | 2.44 | 1.02 | 1 | 4 | 61 | 5.430 |
| P56-14M-170-F | **110886** | 56 | 9.825 | 9.715 | 10.355 | A1F | 2.44 | 1.02 | 1 | 4 | 67 | 6.860 |
| P60-14M-170-J | **110887** | 60 | 10.527 | 10.417 | 11.067 | A1F | 2.28 | 1.08 | 1-1/2 | 4-1/2 | 81 | 9.546 |
| P64-14M-170-J | **110888** | 64 | 11.229 | 11.119 | 11.750 | A1F | 2.13 | 0.93 | 1-1/2 | 4-1/2 | 100 | 13.31 |
| P68-14M-170-J | **110897** | 68 | 11.930 | 11.820 | 12.500 | A1F | 2.13 | 0.93 | 1-1/2 | 4-1/2 | 108 | 16.08 |
| P72-14M-170-J | **110889** | 72 | 12.632 | 12.522 | 13.066 | A1F | 2.13 | 0.93 | 1-1/2 | 4-1/2 | 119 | 19.72 |
| P80-14M-170-J | **110890** | 80 | 14.036 | 13.926 | 14.620 | A2F | 2.13 | 0.93 | 1-1/2 | 4-1/2 | 129 | 26.66 |
| P90-14M-170-J | **110891** | 90 | 15.790 | 15.680 | – | A2 | 2.13 | 0.93 | 1-1/2 | 4-1/2 | 163 | 41.42 |
| P112-14M-170-M | **110892** | 112 | 19.650 | 19.540 | – | D3 | 1.44 | 0.30 | 2 | 5-1/2 | 188 | 63.86 |
| P144-14M-170-M | **110893** | 144 | 25.264 | 25.154 | – | D3 | 1.44 | 0.30 | 2 | 5-1/2 | 240 | 146.9 |
| P168-14M-170-M | **110894** | 168 | 29.475 | 29.265 | – | D3 | 1.44 | 0.30 | 2 | 5-1/2 | 279 | 247.5 |
| P192-14M-170-M | **110895** | 192 | 33.686 | 33.576 | – | D3 | 1.44 | 0.30 | 2 | 5-1/2 | 541 | 746.7 |
| P216-14M-170-M | **110896** | 216 | 37.896 | 37.786 | – | D3 | 1.44 | 0.30 | 2 | 5-1/2 | 443 | 774.6 |

# Selection

## HTD Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 5M-15 | Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 32 | 34 | 36 | 38 | 40 | 44 | 45 | 48 | 50 | 52 | 56 | 60 | 64 | 68 |
| Small Shaft | 2.0 | 2.1 | 2.3 | 2.38 | 2.5 | 2.8 | 2.8 | 3.0 | 3.1 | 3.3 | 3.5 | 3.8 | 4.0 | 4.2 |
| 10 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 20 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 40 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 |
| 60 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| 100 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 |
| 200 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.6 | 1.0 | 1.0 | 1.1 |
| 300 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.0 | 1.1 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| 400 | 0.8 | 0.9 | 1.0 | 1.0 | 1.1 | 1.3 | 1.3 | 1.4 | 1.5 | 1.5 | 1.7 | 1.8 | 1.9 | 2.1 |
| 500 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.2 | 2.4 | 2.5 |
| 600 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.8 | 1.8 | 2.0 | 2.1 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 |
| 800 | 1.5 | 1.6 | 1.8 | 1.9 | 2.1 | 2.3 | 2.4 | 2.6 | 2.7 | 2.8 | 3.1 | 3.4 | 3.6 | 3.9 |
| 1000 | 1.8 | 2.0 | 2.2 | 2.3 | 2.5 | 2.8 | 2.9 | 3.1 | 3.3 | 3.5 | 3.8 | 4.1 | 4.4 | 4.7 |
| 1200 | 2.1 | 2.3 | 2.5 | 2.7 | 2.9 | 3.3 | 3.4 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 |
| 1400 | 2.4 | 2.7 | 2.9 | 3.1 | 3.3 | 3.8 | 3.9 | 4.2 | 4.4 | 4.7 | 5.1 | 5.5 | 5.9 | 6.3 |
| 1600 | 2.7 | 3.0 | 3.3 | 3.5 | 3.8 | 4.3 | 4.4 | 4.7 | 5.0 | 5.2 | 5.7 | 6.2 | 6.7 | 7.1 |
| 1800 | 3.0 | 3.3 | 3.6 | 3.9 | 4.2 | 4.7 | 4.8 | 5.3 | 5.5 | 5.8 | 6.3 | 6.9 | 7.4 | 7.9 |
| 2000 | 3.3 | 3.6 | 3.9 | 4.2 | 4.6 | 5.2 | 5.3 | 5.8 | 6.1 | 6.3 | 6.9 | 7.5 | 8.1 | 8.6 |
| 2400 | 3.9 | 4.2 | 4.6 | 5.0 | 5.3 | 6.0 | 6.2 | 6.7 | 7.1 | 7.4 | 8.1 | 8.8 | 9.4 | 10.1 |
| 2800 | 4.4 | 4.8 | 5.2 | 5.6 | 6.0 | 6.9 | 7.1 | 7.6 | 8.0 | 8.4 | 9.2 | 10.0 | 10.7 | 11.4 |
| 3200 | 4.9 | 5.4 | 5.8 | 6.3 | 6.6 | 7.7 | 7.9 | 8.5 | 9.0 | 9.4 | 10.2 | 11.1 | 11.9 | 12.7 |
| 3600 | 5.4 | 5.9 | 6.4 | 6.9 | 7.4 | 8.4 | 8.7 | 9.4 | 10.0 | 10.3 | 11.3 | 12.2 | 13.0 | 13.9 |
| 4000 | 5.9 | 6.4 | 7.0 | 7.5 | 8.1 | 9.2 | 9.4 | 10.2 | 10.7 | 11.2 | 12.2 | 13.2 | 14.1 | 15.0 |
| 5000 | 7.0 | 7.7 | 8.3 | 9.0 | 9.6 | 10.9 | 11.2 | 12.1 | 12.6 | 13.2 | 14.3 | 15.4 | 16.4 | 17.4 |
| 6000 | 8.0 | 8.8 | 9.5 | 10.2 | 11.0 | 12.3 | 12.7 | 13.7 | 14.3 | 14.9 | 16.1 | 17.1 | 18.1 | – |
| 8000 | 9.7 | 10.6 | 11.5 | 12.3 | 13.1 | 14.6 | 14.9 | 15.9 | 16.6 | – | – | – | – | – |
| 10000 | 10.9 | 11.8 | 12.7 | 13.6 | 14.4 | – | – | – | – | – | – | – | – | – |
| 12000 | 11.5 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 14000 | | – | – | – | – | – | – | – | – | – | – | – | – | – |

| 5M-25 | Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | 32 | 34 | 36 | 38 | 40 | 44 | 45 | 48 | 50 | 52 | 56 | 60 | 64 | 68 |
| Small Shaft | 2.0 | 2.1 | 2.3 | 2.38 | 2.5 | 2.8 | 2.8 | 3.0 | 3.1 | 3.3 | 3.5 | 3.8 | 4.0 | 4.2 |
| 10 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 20 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.22 |
| 40 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.42 |
| 60 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.62 |
| 100 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 0.9 | 0.98 |
| 200 | 0.7 | 0.8 | 0.9 | 0.9 | 1.0 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.85 |
| 300 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.2 | 2.3 | 2.5 | 2.67 |
| 400 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 2.1 | 2.1 | 2.3 | 2.4 | 2.6 | 2.8 | 3.0 | 3.2 | 3.47 |
| 500 | 1.7 | 1.8 | 2.0 | 2.1 | 2.3 | 2.5 | 2.6 | 2.8 | 3.0 | 3.1 | 3.4 | 3.7 | 4.0 | 4.24 |
| 600 | 2.0 | 2.1 | 2.3 | 2.5 | 2.6 | 3.0 | 3.1 | 3.3 | 3.5 | 3.7 | 4.0 | 4.3 | 4.7 | 4.99 |
| 800 | 2.5 | 2.7 | 3.0 | 3.2 | 3.4 | 3.9 | 4.0 | 4.3 | 4.5 | 4.7 | 5.2 | 5.6 | 6.0 | 6.46 |
| 1000 | 3.0 | 3.3 | 3.6 | 3.9 | 4.2 | 4.7 | 4.8 | 5.2 | 5.5 | 5.8 | 6.3 | 6.8 | 7.35 | 7.87 |
| 1200 | 3.6 | 3.9 | 4.2 | 4.6 | 4.9 | 5.5 | 5.7 | 6.2 | 6.5 | 6.8 | 7.4 | 8.0 | 8.64 | 9.25 |
| 1400 | 4.1 | 4.5 | 4.8 | 5.2 | 5.6 | 6.3 | 6.5 | 7.0 | 7.4 | 7.8 | 8.48 | 9.2 | 9.89 | 10.6 |
| 1600 | 4.6 | 5.0 | 5.4 | 5.8 | 6.3 | 7.9 | 7.3 | 7.9 | 8.3 | 8.7 | 9.5 | 10.3 | 11.1 | 11.9 |
| 1800 | 5.1 | 5.5 | 6.0 | 6.5 | 6.9 | 7.8 | 8.1 | 8.8 | 9.2 | 10.0 | 10.5 | 11.4 | 12.3 | 13.2 |
| 2000 | 5.5 | 6.0 | 6.6 | 7.1 | 7.6 | 8.6 | 8.8 | 9.6 | 10. | 10.6 | 11.5 | 12.5 | 13.5 | 14.4 |
| 2400 | 6.4 | 7.0 | 7.7 | 8.3 | 8.9 | 10.0 | 10.3 | 11.2 | 11.8 | 12.3 | 13.5 | 14.6 | 15.7 | 16.8 |
| 2800 | 7.3 | 8.0 | 8.7 | 9.4 | 10.1 | 11.4 | 11.8 | 12.7 | 13.4 | 14.0 | 15.3 | 16.6 | 17.8 | 19.0 |
| 3200 | 8.2 | 9.0 | 9.7 | 10.5 | 11.3 | 12.8 | 13.1 | 14.2 | 14.9 | 15.7 | 17.1 | 18.5 | 19.8 | 21.2 |
| 3600 | 9.0 | 10.0 | 10.7 | 11.6 | 12.4 | 14.0 | 14.4 | 15.6 | 16.4 | 17.2 | 18.8 | 20.3 | 21.7 | 23.1 |
| 4000 | 10.0 | 10.7 | 11.7 | 12.6 | 13.5 | 15.3 | 15.7 | 17.0 | 17.9 | 18.7 | 20.3 | 21.9 | 23.5 | 25.0 |
| 5000 | 11.6 | 12.8 | 13.9 | 15.0 | 16.0 | 18.1 | 18.6 | 20.1 | 21.1 | 22.0 | 23.9 | 25.7 | 27.3 | 28.9 |
| 6000 | 13.3 | 14.6 | 15.9 | 17.1 | 18.3 | 20.6 | 21.1 | 22.8 | 23.8 | 24.8 | 26.8 | 28.6 | 30.2 | – |
| 8000 | 16.1 | 17.6 | 19.1 | 20.5 | 21.8 | 24.3 | 24.9 | 26.6 | 27.6 | – | – | – | – | – |
| 10000 | 18.2 | 19.7 | 21.2 | 22.6 | 23.9 | – | – | – | – | – | – | – | – | – |
| 12000 | 19.2 | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 14000 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |

Shaded area indicates sprocket and RPM which can be used only if a reduction in belt life is allowable.

# Selection

## HTD Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 8M-20 | HT100 Horsepower Rating–20 mm Wide Belt (.79 in.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM | No. Teeth | | | | | | | | | | | | | | | |
| Small Shaft | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 56 | 64 | 72 | 80 |
| 10 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.1 | 0.06 | 0.06 | 0.07 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| 20 | 0.04 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| 40 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 |
| 60 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.8 | 0.9 |
| 100 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1.1 | 1.2 | 1.4 | 1.5 |
| 200 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 1.0 | 1.1 | 1.3 | 1.4 | 1.5 | 1.7 | 1.8 | 2.1 | 2.3 | 2.6 | 2.8 |
| 300 | 0.7 | 0.7 | 0.9 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 | 3.0 | 3.4 | 3.7 | 4.1 |
| 400 | 0.9 | 1.0 | 1.1 | 1.3 | 1.6 | 1.8 | 2.1 | 2.3 | 2.6 | 2.8 | 3.1 | 34 | 3.8 | 4.3 | 4.8 | 5.3 |
| 500 | 1.1 | 1.2 | 1.4 | 1.6 | 1.9 | 2.2 | 2.5 | 2.9 | 3.2 | 3.5 | 3.8 | 4.1 | 4.7 | 5.3 | 5.9 | 6.4 |
| 600 | 1.3 | 1.4 | 1.6 | 1.9 | 2.3 | 2.6 | 3.0 | 3.4 | 3.8 | 4.1 | 4.5 | 4.8 | 5.5 | 6.2 | 6.9 | 7.6 |
| 700 | 1.5 | 1.7 | 1.9 | 2.2 | 2.6 | 3.0 | 3.4 | 3.9 | 4.3 | 4.7 | 5.1 | 5.5 | 6.3 | 7.1 | 7.9 | 8.6 |
| 800 | 1.8 | 1.9 | 2.1 | 2.5 | 2.9 | 3.4 | 3.8 | 4.4 | 4.9 | 5.9 | 5.8 | 6.2 | 7.1 | 8.0 | 8.9 | 9.7 |
| 870 | 1.9 | 2.8 | 2.3 | 2.7 | 3.1 | 3.6 | 4.1 | 4.7 | 5.3 | 5.7 | 6.2 | 6.7 | 7.7 | 8.6 | 9.5 | 10.4 |
| 1000 | 2.2 | 2.4 | 2.6 | 3.0 | 3.5 | 4.1 | 4.7 | 5.3 | 6.0 | 6.4 | 7.0 | 7.6 | 86 | 9.7 | 10.7 | 11.7 |
| 1160 | 2.5 | 2.8 | 3.0 | 3.5 | 4.0 | 4.7 | 5.3 | 6.0 | 6.8 | 7.3 | 8.0 | 8.6 | 9.8 | 11.0 | 12.2 | 13.3 |
| 1200 | 2.6 | 2.9 | 3.1 | 3.6 | 4.2 | 4.8 | 5.5 | 6.2 | 7.0 | 7.6 | 8.2 | 8.9 | 10.1 | 11.3 | 12.5 | 13.6 |
| 1400 | 3.1 | 3.3 | 3.6 | 4.1 | 4.8 | 5.5 | 6.3 | 7.1 | 8.6 | 8.6 | 9.4 | 10.1 | 11.5 | 12.9 | 14.2 | 15.5 |
| 1600 | 3.5 | 3.8 | 4.1 | 4.6 | 5.4 | 6.2 | 7.1 | 8.0 | 9.0 | 9.7 | 10.5 | 11.3 | 12.9 | 14.4 | 15.8 | 17.2 |
| 1750 | 3.8 | 4.2 | 4.5 | 5.0 | 5.8 | 6.7 | 7.6 | 8.6 | 9.7 | 10.5 | 11.4 | 12.2 | 13.9 | 15.5 | 17.0 | 18.4 |
| 2000 | 4.3 | 4.7 | 5.1 | 5.6 | 6.5 | 7.5 | 8.6 | 9.7 | 10.9 | 11.7 | 12.7 | 13.6 | 15.5 | 17.2 | 18.8 | 20.2 |
| 2400 | 5.2 | 5.7 | 6.1 | 7.0 | 7.6 | 8.7 | 10.0 | 11.3 | 12.7 | 13.6 | 14.8 | 15.8 | 17.8 | 19.7 | 21.3 | 22.8 |
| 2800 | 6.0 | 6.6 | 7.1 | 7.8 | 8.6 | 9.9 | 11.3 | 12.8 | 14.4 | 15.5 | 16.7 | 17.8 | 19.9 | 21.8 | 23.4 | 24.8 |
| 3200 | – | – | 8.0 | 8.8 | 9.6 | 11.1 | 12.6 | 14.2 | 16.0 | 17.2 | 18.5 | 19.7 | 21.8 | 23.7 | 25.1 | – |
| 3500 | – | – | – | – | 10.4 | 11.9 | 13.5 | 15.3 | 17.1 | 18.4 | 19.7 | 20.9 | 23.1 | 24.8 | – | – |
| 4000 | – | – | – | – | – | 13.1 | 14.9 | 16.9 | 18.9 | 20.2 | 21.6 | 22.8 | 24.8 | – | – | – |
| 4500 | – | – | – | – | – | – | 16.2 | 18.3 | 20.4 | 21.9 | 23.2 | 24.3 | – | – | – | – |
| 5000 | – | – | – | – | – | – | – | 19.6 | 21.9 | 23.3 | 24.6 | 25.5 | – | – | – | – |
| 5500 | – | – | – | – | – | – | – | – | 23.05 | 24.6 | 25.6 | – | – | – | – | – |
| PD: mm | 56.0 | 61.1 | 66.2 | 71.3 | 76.4 | 81.5 | 86.6 | 91.7 | 96.8 | 101.9 | 112.0 | 122.2 | 142.6 | 163.0 | 183.3 | 203.7 |
| **Inches** | **2.21** | **2.41** | **2.61** | **2.81** | **3.01** | **3.21** | **3.41** | **3.61** | **3.81** | **4.01** | **4.41** | **4.81** | **5.61** | **6.42** | **7.22** | **8.02** |

| 8M-30 | HT100 Horsepower Rating–30 mm Wide Belt (1.18 in.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small | No. Teeth | | | | | | | | | | | | | | | |
| Sprocket | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 56 | 64 | 72 | 80 |
| 10 | 0.03 | 0 04 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 1 | 0.2 | 0.2 | 0.2 |
| 20 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 |
| 40 | 0.1 | 0.12 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 60 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 | 1.4 |
| 100 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.7 | 2.0 | 2.2 | 2.4 |
| 200 | 0.7 | 0.8 | 0.9 | 1.1 | 1.3 | 1.5 | 1.7 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 3.3 | 3.7 | 4.1 | 4.5 |
| 300 | 1.0 | 1.1 | 1.4 | 1.6 | 1.9 | 2.2 | 2.5 | 2.9 | 3.2 | 3.5 | 3.8 | 4.1 | 4.7 | 5.3 | 5.9 | 6.5 |
| 400 | 1.4 | 1.5 | 1.8 | 2.1 | 2.5 | 2.8 | 3.3 | 3.7 | 4.2 | 4.5 | 4.9 | 5.3 | 6.1 | 6.8 | 7.6 | 8.3 |
| 500 | 1.7 | 1.9 | 2.3 | 2.6 | 3.0 | 3.5 | 4.0 | 4.5 | 5.1 | 5.5 | 6.0 | 6.5 | 7.4 | 8.3 | 9.3 | 10.2 |
| 600 | 2.1 | 2.3 | 2.6 | 3.0 | 3.5 | 4.1 | 4.7 | 5.3 | 6.0 | 6.5 | 7.0 | 7.6 | 8.7 | 9.8 | 10.9 | 11.9 |
| 700 | 2.4 | 2.6 | 2.9 | 3.5 | 4.1 | 4.7 | 5.4 | 6.1 | 6.8 | 7.4 | 8.1 | 8.7 | 10.0 | 11.2 | 12.4 | 13.6 |
| 800 | 2.8 | 3.0 | 3.3 | 3.9 | 4.6 | 5.3 | 6.1 | 6.9 | 7.7 | 8.3 | 9.1 | 9.78 | 11.2 | 12.6 | 14.0 | 15.3 |
| 870 | 3.0 | 3.3 | 3.6 | 4.2 | 4.9 | 5.7 | 6.5 | 7.4 | 8.3 | 9.0 | 9.8 | 10.5 | 12.1 | 13.6 | 15.0 | 16.4 |
| 1000 | 3.4 | 3.8 | 4.1 | 4.8 | 5.6 | 6.5 | 7.4 | 8.4 | 9.4 | 10.2 | 11.0 | 11.9 | 13.6 | 15.3 | 16.9 | 18.5 |
| 1160 | 4.0 | 4.4 | 4.7 | 5.5 | 6.4 | 7.4 | 8.4 | 9.5 | 10.7 | 11.6 | 12.6 | 13.6 | 15.5 | 17.4 | 19.2 | 21.0 |
| 1200 | 4.1 | 4.5 | 4.9 | 5.6 | 6.6 | 7.6 | 8.7 | 9.8 | 11.0 | 11.9 | 12.9 | 14.0 | 16.0 | 17.9 | 19.7 | 21.6 |
| 1400 | 4.8 | 5.3 | 5.7 | 6.4 | 7.5 | 8.7 | 9.9 | 11.2 | 12.6 | 13.6 | 14.8 | 16.0 | 18.2 | 20.4 | 22.4 | 24.4 |
| 1600 | 5.5 | 6.0 | 6.5 | 7.2 | 8.5 | 9.8 | 11.1 | 12.6 | 14.2 | 15.3 | 16.6 | 18.0 | 20.4 | 22.7 | 25.0 | 27.1 |
| 1750 | 6.0 | 6.5 | 7.1 | 7.8 | 9.1 | 10.5 | 12.0 | 13.6 | 15.3 | 16.5 | 17.9 | 19.3 | 21.9 | 24.4 | 26.8 | 29.1 |
| 2000 | 6.9 | 7.5 | 8.1 | 8.9 | 10.3 | 11.8 | 13.5 | 15.3 | 17.2 | 18.5 | 20.0 | 21.6 | 24.4 | 27.1 | 29.7 | 32.0 |
| 2400 | 8.2 | 8.9 | 9.6 | 10.6 | 12.0 | 13.8 | 15.8 | 17.8 | 20.0 | 21.6 | 23.3 | 25.0 | 28.2 | 31.1 | 33.8 | 36.2 |
| 2800 | 9.5 | 10.4 | 11.2 | 12.2 | 13.6 | 15.7 | 17.9 | 20.2 | 22.7 | 24.4 | 26.3 | 28.12 | 31.6 | 34.6 | 37.2 | 39.4 |
| 3200 | – | – | 12.7 | 13.9 | 15.2 | 17.5 | 19.9 | 22.5 | 25.2 | 27.1 | 29.2 | 31.1 | 34.6 | 37.6 | 39.9 | – |
| 3500 | – | – | – | – | 16.4 | 18.8 | 21.4 | 24.1 | 27.0 | 29.1 | 31.2 | 33.1 | 36.6 | 39.4 | – | – |
| 4000 | – | – | – | – | – | 20.8 | 23.6 | 26.7 | 29.9 | 32.0 | 34.2 | 36.2 | 39.4 | – | – | – |
| 4500 | – | – | – | – | – | – | 25.7 | 29.0 | 32.4 | 34.7 | 36.8 | 38.7 | – | – | – | – |
| 5000 | – | – | – | – | – | – | – | 31.1 | 34.7 | 37.0 | 39.1 | 40.7 | – | – | – | – |
| 5500 | – | – | – | – | – | – | – | – | 36.6 | 39.1 | 40.8 | – | – | – | – | – |
| PD: mm | 56.0 | 61.1 | 66.2 | 71.3 | 76.4 | 81.5 | 86.6 | 91.7 | 96.8 | 101.9 | 112.0 | 122.2 | 142.6 | 163.0 | 183.3 | 203.7 |
| **Inches** | **2.21** | **2.41** | **2.61** | **2.81** | **3.01** | **3.21** | **3.41** | **3.61** | **3.81** | **4.01** | **4.41** | **4.81** | **5.61** | **6.42** | **7.22** | **8.02** |

Operation in shaded area will result in a reduction of belt life.

# Selection

## HTD Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 8M-50 | HT100 Horsepower Rating–50 mm Wide Belt (1.97 in.) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Sprocket | No. Teeth | | | | | | | | | | | | |
| | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 56 | 64 | 72 | 80 |
| 10 | 0.1 | 0.1 | 0.1 | 0.16 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| 20 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 |
| 40 | 0.4 | 0.5 | 0.5 | 0.6 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 | 1.5 | 1.7 |
| 60 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.2 | 1.4 | 1.5 | 1.7 | 2.0 | 2.2 | 2.5 |
| 100 | 1.0 | 1.2 | 1.3 | 1.5 | 1.7 | 2.0 | 2.1 | 2.3 | 2.5 | 2.9 | 3.3 | 3.7 | 4.1 |
| 200 | 1.9 | 2.3 | 2.6 | 3.0 | 3.4 | 3.8 | 4.1 | 4.5 | 4.9 | 5.6 | 6.4 | 7.1 | 7.8 |
| 300 | 2.8 | 3.3 | 3.8 | 4.4 | 4.9 | 5.5 | 6.0 | 6.5 | 7.1 | 8.1 | 9.2 | 10.2 | 11.2 |
| 400 | 3.6 | 4.3 | 4.9 | 5.6 | 6.4 | 7.2 | 7.8 | 8.5 | 9.2 | 10.5 | 11.8 | 13.1 | 14.4 |
| 500 | 4.5 | 5.2 | 6.0 | 6.9 | 7.8 | 8.8 | 9.5 | 10.3 | 11.2 | 12.8 | 14.4 | 16.0 | 17.6 |
| 600 | 5.3 | 7.1 | 7.1 | 8.1 | 9.2 | 10.3 | 11.2 | 12.2 | 13.1 | 15.1 | 17.0 | 18.8 | 20.6 |
| 700 | 6.0 | 7.0 | 8.1 | 9.3 | 10.5 | 11.9 | 12.8 | 14.0 | 15.1 | 17.3 | 19.4 | 21.5 | 23.6 |
| 800 | 6.8 | 7.9 | 9.2 | 10.5 | 11.9 | 13.4 | 14.4 | 15.7 | 17.0 | 19.4 | 21.8 | 24.2 | 26.5 |
| 870 | 7.3 | 8.6 | 10.0 | 11.3 | 12.8 | 14.4 | 15.5 | 16.9 | 18.3 | 20.9 | 23.5 | 26.0 | 28.5 |
| 1000 | 8.3 | 9.7 | 11.2 | 12.8 | 14.5 | 16.3 | 17.6 | 19.1 | 20.6 | 23.6 | 26.5 | 29.3 | 32.1 |
| 1160 | 9.4 | 11.0 | 12.8 | 14.6 | 16.5 | 18.5 | 20.0 | 21.8 | 23.5 | 26.8 | 30.1 | 33.3 | 36.3 |
| 1200 | 9.7 | 11.4 | 13.1 | 15.0 | 17.0 | 19.1 | 20.6 | 22.4 | 24.2 | 27.6 | 31.0 | 34.2 | 37.4 |
| 1400 | 11.1 | 13.0 | 15.0 | 17.2 | 19.5 | 21.9 | 23.6 | 25.6 | 27.6 | 31.5 | 35.3 | 38.9 | 42.4 |
| 1600 | 12.5 | 14.6 | 16.9 | 19.3 | 21.9 | 24.5 | 26.5 | 28.8 | 31.0 | 35.3 | 39.4 | 43.3 | 47.1 |
| 1750 | 13.5 | 15.8 | 18.3 | 20.9 | 23.6 | 26.5 | 28.6 | 31.0 | 33.4 | 38.0 | 42.4 | 46.5 | 50.4 |
| 2000 | 15.3 | 17.8 | 20.5 | 23.4 | 26.5 | 29.7 | 32.7 | 34.7 | 37.4 | 42.4 | 47.1 | 51.5 | 55.6 |
| 2400 | 18.3 | 20.7 | 23.9 | 27.3 | 30.9 | 34.6 | 37.4 | 40.4 | 43.3 | 48.9 | 54.0 | 58.7 | 62.9 |
| 2800 | 21.2 | 23.6 | 27.2 | 31.0 | 35.1 | 39.3 | 42.4 | 45.7 | 48.9 | 54.8 | 60.1 | 64.8 | 68.7 |
| 3200 | 24.1 | 26.3 | 30.3 | 34.5 | 39.0 | 43.8 | 47.1 | 50.7 | 54.0 | 60.2 | 65.4 | 69.7 | – |
| 3500 | – | 28.4 | 32.5 | 37.1 | 41.9 | 46.9 | 50.4 | 54.1 | 57.6 | 63.7 | 68.6 | – | – |
| 4000 | – | – | 36.0 | 41.0 | 46.3 | 51.8 | 55.6 | 59.4 | 62.9 | 68.7 | – | – | – |
| 4500 | – | – | – | 44.7 | 50.4 | 56.3 | 60.3 | 64.1 | 67.4 | – | – | – | – |
| 5000 | – | – | – | – | 54.0 | 60.3 | 64.5 | 68.0 | 71.0 | – | – | – | – |
| 5500 | – | – | – | – | – | 63.8 | 68.0 | 71.3 | – | – | – | – | – |
| PD: mm | 71.3 | 76.4 | 81.5 | 86.6 | 91.7 | 96.8 | 101.9 | 112 | 122.2 | 142.6 | 163 | 183.3 | 203.7 |
| **Inches** | **2.81** | **3.01** | **3.21** | **3.41** | **3.61** | **3.81** | **4.01** | **4.41** | **4.81** | **5.61** | **6.42** | **7.22** | **8.02** |

| 8M-85 | HT100 Horsepower Rating–85 mm Wide Belt (3.35 in.) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Sprocket | No. Teeth | | | | | | | | | |
| | 34 | 36 | 38 | 40 | 44 | 48 | 56 | 64 | 72 | 80 |
| 10 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 04 | 0.5 | 0.6 | 0.7 | 0.7 |
| 20 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 | 1.4 |
| 40 | 1.1 | 1.2 | 1.4 | 1.4 | 1.6 | 1.7 | 2.0 | 2.3 | 2.6 | 2.9 |
| 60 | 1.6 | 1.8 | 2.1 | 2.2 | 2.4 | 2.6 | 3.0 | 3.5 | 3.9 | 4.3 |
| 100 | 2.6 | 3.0 | 3.4 | 3.6 | 4.0 | 4.3 | 5.4 | 5.8 | 6.5 | 7.2 |
| 200 | 5.2 | 5.9 | 6.7 | 7.2 | 7.9 | 8.5 | 9.8 | 11.1 | 12.3 | 13.5 |
| 300 | 7.6 | 8.6 | 9.6 | 10.4 | 11.4 | 12.3 | 14.1 | 15.9 | 17.7 | 19.4 |
| 400 | 9.8 | 11.1 | 12.5 | 13.5 | 14.7 | 15.9 | 18.3 | 20.6 | 22.9 | 25.1 |
| 500 | 12.0 | 13.6 | 15.3 | 16.5 | 18.0 | 19.4 | 22.3 | 25.1 | 27.9 | 30.6 |
| 600 | 14.1 | 16.0 | 18.0 | 19.4 | 21.2 | 22.9 | 26.2 | 29.5 | 32.7 | 35.9 |
| 700 | 16.12 | 18.3 | 20.6 | 22.3 | 24.3 | 26.2 | 30.0 | 33.8 | 37.5 | 41.0 |
| 800 | 18.2 | 20.7 | 23.2 | 25.1 | 27.3 | 29.5 | 33.8 | 38.0 | 42.1 | 46.1 |
| 870 | 19.7 | 22.3 | 25.0 | 27.0 | 29.4 | 31.8 | 36.4 | 40.9 | 45.3 | 49.5 |
| 1000 | 22.2 | 25.2 | 28.3 | 30.6 | 33.3 | 35.9 | 41.1 | 46.1 | 51.0 | 55.8 |
| 1160 | 25.3 | 28.7 | 32.3 | 34.8 | 37.9 | 40.9 | 46.7 | 52.4 | 57.9 | 63.2 |
| 1200 | 26.1 | 29.6 | 33.2 | 35.9 | 39.0 | 42.1 | 48.1 | 53.9 | 59.5 | 65.0 |
| 1400 | 29.9 | 33.8 | 38.0 | 41.1 | 44.6 | 48.1 | 54.8 | 61.4 | 67.7 | 73.7 |
| 1600 | 33.6 | 38.0 | 42.7 | 46.1 | 50.0 | 53.9 | 61.4 | 68.6 | 75.4 | 82.0 |
| 1750 | 36.3 | 41.1 | 46.1 | 49.8 | 54.0 | 58.1 | 66.1 | 73.7 | 81.0 | 87.8 |
| 2000 | 40.7 | 46.1 | 51.7 | 55.8 | 60.5 | 65.0 | 73.7 | 82.0 | 89.7 | 96.9 |
| 2400 | 47.5 | 53.7 | 60.3 | 65.0 | 70.3 | 75.4 | 85.1 | 94.1 | 102.3 | 109.7 |
| 2800 | 54.0 | 61.0 | 68.5 | 73.7 | 79.6 | 85.1 | 95.5 | 104.8 | 113.0 | 120.0 |
| 3200 | 60.1 | 68.0 | 76.2 | 82.0 | 88.2 | 94.1 | 104.8 | 114.1 | 121.6 | – |
| 3500 | 64.6 | 72.9 | 81.7 | 87.8 | 94.3 | 100.3 | 111.1 | 119.9 | – | – |
| 4000 | 71.5 | 80.7 | 90.3 | 96.9 | 103.6 | 109.7 | 119.9 | – | – | – |
| 4500 | 77.8 | 87.8 | 98.1 | 105.2 | 111.8 | 117.6 | – | – | – | – |
| 5000 | – | 94.2 | 105.2 | 112.5 | 118.8 | 124.0 | – | – | – | – |
| 5500 | – | – | 111.3 | 118.8 | 124.5 | – | – | – | – | – |
| PD: mm | 86.6 | 91.7 | 96.8 | 101.9 | 112.0 | 122.2 | 142.6 | 163.0 | 183.3 | 203.7 |
| **Inches** | **3.41** | **3.61** | **3.81** | **4.01** | **4.41** | **4.81** | **5.61** | **6.42** | **7.22** | **8.02** |

Operation in shaded area will result in a reduction of belt life.

# Selection

## HTD Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 14M-40 | HT100 Horsepower Rating–40 mm Wide Belt (1.57 in.) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Sprocket | No. Teeth | | | | | | | | | | | | | | | | |
| | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 80 |
| 10 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 |
| 20 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1 4 | 1.5 | 1.6 | 1.7 | 1.8 | 2.1 |
| 40 | 1.0 | 1.0 | 1.0 | 1.2 | – | 1.4 | 1.7 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 | 3.2 | 3.4 | 3.6 | 4.2 |
| 60 | 1.5 | 1.5 | 1.6 | 1.7 | 1.8 | 2.2 | 2.5 | 3.0 | 3.3 | 3.6 | 3.9 | 4.2 | 4.5 | 4.8 | 5.1 | 5.4 | 6.3 |
| 100 | 2.4 | 2.5 | 2.6 | 2.8 | 3.1 | 3.6 | 4.2 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 10.4 |
| 200 | 4.9 | 5.0 | 5.2 | 5.2 | 6.1 | 7.2 | 8.4 | 9.8 | 10.8 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 20.9 |
| 300 | 6.7 | 7.0 | 7.4 | 7.3 | 9.2 | 10.8 | 12.2 | 13.2 | 14.4 | 17.1 | 19.5 | 21.0 | 22.5 | 24.0 | 25.5 | 27.0 | 30.5 |
| 400 | 8.2 | 8.7 | 9.2 | 9.3 | 11.4 | 14.4 | 14.0 | 16.1 | 17.5 | 20.6 | 25.9 | 25.8 | 28.6 | 29.7 | 31.3 | 32.9 | 36.1 |
| 500 | 9.6 | 10.2 | 10.9 | 11.1 | 13.5 | 16.9 | 17.5 | 18.8 | 20.4 | 23.7 | 29.4 | 29.5 | 32.5 | 33.7 | 35.3 | 37.1 | 40.7 |
| 600 | 10.9 | 11.7 | 12.5 | 12.9 | 15.5 | 19.2 | 19.8 | 21.3 | 23.0 | 26.4 | 32.5 | 32.8 | 35.8 | 37.0 | 38.8 | 40.8 | 44.6 |
| 700 | 12.1 | 13.1 | 14.0 | 14.5 | 17.4 | 21.2 | 21.9 | 23.5 | 25.3 | 28.9 | 35.2 | 35.6 | 38.7 | 39.9 | 41.8 | 43.8 | 47.8 |
| 800 | 13.3 | 14.2 | 15.4 | 16.1 | 19.1 | 23.2 | 23.98 | 25.6 | 27.5 | 31.2 | 37.6 | 38.2 | 41.2 | 42.4 | 44.4 | 46.4 | 50.5 |
| 870 | 14 1 | 15.2 | 16.4 | 17.2 | 20.3 | 24.4 | 25.3 | 27.0 | 29.0 | 32.7 | 39.1 | 39.8 | 42.7 | 43.9 | 45.9 | 48.0 | 52.1 |
| 1000 | 15.5 | 16.8 | 18.1 | 19.1 | 22.2 | 26.6 | 27.6 | 29.4 | 31.4 | 35.1 | 41.5 | 42.4 | 45.2 | 46.3 | 48.3 | 50.3 | 54.3 |
| 1160 | 17.1 | 18.6 | 20.0 | 21.4 | 24.7 | 29.1 | 30.2 | 32.1 | 34.2 | 37.8 | 44.0 | 45.0 | 47.6 | 48.6 | 50.4 | 52.3 | 56.0 |
| 1200 | 17.5 | 19.0 | 20.5 | 21.9 | 25.3 | 29.7 | 31.0 | 32.7 | 34.8 | 38.4 | 44.5 | 45.6 | 48.1 | 49.0 | 50.8 | 52.7 | 56.3 |
| 1400 | 19.4 | 21.1 | 22.7 | 24.5 | 27.9 | 32.5 | 33.6 | 35.6 | 47.7 | 41.1 | 46.8 | 47.9 | 50.0 | 50.5 | 52.0 | 53.7 | 56.4 |
| 1600 | 21.2 | 23.0 | 24.8 | 26.8 | 30.3 | 34.6 | 36.0 | 38.0 | 40.0 | 43.2 | 48.3 | 49.4 | 50.8 | 51.0 | 52.0 | 53.2 | 54.7 |
| 1750 | 22.5 | 24.4 | 26.2 | 28.5 | 31.9 | 36.2 | 37.6 | 39.6 | 41.5 | 44.4 | 48.9 | 49.9 | 50.9 | 50.6 | 51.2 | 51.9 | – |
| 2000 | 24.5 | 26.5 | 28.4 | 30.9 | 34.3 | 38.3 | 39.8 | 41.8 | 43.4 | 45.8 | 49.2 | 49.8 | 49.8 | 48.6 | 48.3 | – | – |
| 2400 | 27.8 | 29.5 | 31.4 | 34.2 | 37.2 | 40.9 | 42.3 | 44.0 | 45.0 | 46.2 | 47.6 | 46.9 | – | – | – | – | – |
| 2800 | – | 32.2 | 33.8 | 36.6 | 39.2 | 42.0 | 43.3 | 44.7 | 44.8 | 44.4 | – | – | – | – | – | – | – |
| *3200 | – | – | – | 38.0 | 40.0 | 42.0 | 43.0 | 43.9 | – | – | – | – | – | – | – | – | – |
| *3500 | – | – | – | – | 40.0 | 41.3 | 41.9 | – | – | – | – | – | – | – | – | – | – |
| PD: mm | 124.8 | 129.2 | 133.7 | 142.6 | 151.5 | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285 2 | 303.0 | 320.9 | 356 5 |
| **Inches** | **4.91** | **5.09** | **5.26** | **5.61** | **5.97** | **6.32** | **6.67** | **7.02** | **7.72** | **8.42** | **9.12** | **9.82** | **10.53** | **11.23** | **11.93** | **12.63** | **14.04** |

| 14M-55 | HT100 Horsepower Rating–55 mm Wide Belt (2.17 in.) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Sprocket | No. Teeth | | | | | | | | | | | | | | | | |
| | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 80 |
| 10 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 0.9 | 1.0 | 1.1 | 1.2 | 1.2 | 1.3 | 1.5 |
| 20 | 0.7 | 0.7 | 0. 8 | 0.8 | 0.9 | 1.0 | 1.2 | 1.4 | 1.6 | 1.7 | 1.9 | 2.0 | 2.2 | 2.3 | 2.5 | 2.6 | 3.0 |
| 40 | 1.4 | 1.5 | 1.5 | 1.6 | 1.8 | 2.1 | 2.4 | 2.9 | 3.2 | 3.5 | 3.8 | 4.0 | 4.3 | 4.6 | 4.9 | 5.2 | 6.0 |
| 60 | 2.1 | 2.2 | 2.3 | 2.4 | 2.6 | 3.1 | 3.6 | 4.3 | 4.8 | 5.2 | 5.6 | 6.1 | 6.5 | 6.9 | 7.4 | 7.8 | 9.0 |
| 100 | 3.5 | 3.6 | 3.8 | 4.0 | 4.4 | 5.2 | 6.1 | 7.2 | 7.9 | 8.7 | 9.4 | 10.1 | 10.8 | 11.5 | 12.3 | 13.0 | 15.0 |
| 200 | 7.0 | 7.3 | 7.5 | 7.5 | 8.8 | 10.4 | 12.1 | 14.1 | 15.5 | 17.3 | 18.7 | 20.2 | 21.6 | 23.0 | 24.5 | 25.9 | 30.0 |
| 300 | 9.6 | 10.1 | 10.6 | 10.5 | 13.2 | 15.6 | 17.5 | 18.9 | 20.7 | 24.6 | 28.1 | 30.2 | 32.4 | 34.5 | 36.7 | 38.8 | 44.0 |
| 400 | 11.8 | 12.5 | 13.3 | 13.3 | 16.5 | 20.7 | 21.5 | 23.2 | 25.2 | 29.6 | 37.3 | 37.2 | 41.2 | 42.8 | 45.0 | 47.3 | 51.9 |
| 500 | 13.8 | 14.7 | 15.7 | 16.0 | 19.5 | 24.3 | 25.2 | 27.1 | 29.3 | 34.1 | 42.4 | 42.5 | 46.8 | 48.5 | 50.9 | 53.4 | 58.6 |
| 600 | 15.7 | 16.8 | 18.0 | 18.5 | 22.3 | 27.6 | 28.5 | 30.6 | 33.0 | 38.0 | 46.8 | 47.2 | 51.5 | 53.3 | 55.9 | 58.6 | 64.1 |
| 700 | 17.5 | 18.8 | 20.1 | 20.9 | 25.0 | 30.5 | 31.6 | 33.9 | 36.5 | 41.6 | 50.6 | 51.3 | 55.7 | 57.5 | 60.2 | 63.1 | 68.8 |
| 800 | 19.1 | 20.7 | 22.2 | 23.2 | 27.5 | 33.3 | 34.5 | 36.9 | 39.6 | 44.9 | 54.1 | 54.9 | 59.3 | 61.0 | 63.8 | 66.8 | 72.7 |
| 870 | 20.2 | 21.9 | 23.6 | 24.8 | 29.2 | 35.1 | 36.4 | 38.9 | 41.7 | 47.0 | 56.2 | 57.2 | 61.5 | 63.2 | 66.0 | 69.0 | 74.9 |
| 1000 | 22.3 | 24.1 | 26.0 | 27.5 | 32.2 | 38.3 | 39.7 | 42.3 | 45.2 | 50.6 | 59.7 | 61.0 | 65.1 | 66.7 | 69.5 | 72.4 | 78.2 |
| 1160 | 24.6 | 26.7 | 28.8 | 30.8 | 35.6 | 41.8 | 43.5 | 46.2 | 49.2 | 54.4 | 63.3 | 64.8 | 68.5 | 69.9 | 72.5 | 75.4 | 80.7 |
| 1200 | 25.2 | 27.4 | 29.5 | 31.5 | 36.4 | 42.7 | 44.3 | 47.1 | 50.1 | 55.3 | 64.1 | 65.6 | 69.2 | 70.5 | 73.1 | 75.9 | 81.0 |
| 1400 | 27.9 | 30.3 | 32.7 | 35.2 | 40.2 | 46.5 | 48.3 | 51.2 | 54.2 | 59.1 | 67.3 | 69.0 | 71.9 | 72.7 | 74.9 | 77.2 | 81.2 |
| 1600 | 30.5 | 33.1 | 35.7 | 38.6 | 43.6 | 49.9 | 51.8 | 54.7 | 57.6 | 62.1 | 69.5 | 71.0 | 73.2 | 73.3 | 74.9 | 76.5 | 78.8 |
| 1750 | 32.3 | 35.1 | 37.8 | 41.0 | 45.9 | 52.0 | 54.1 | 57.0 | 59.7 | 63.9 | 70.4 | 71.8 | 73.2 | 72.8 | 73.7 | 74.6 | – |
| 2000 | 35.3 | 38.1 | 40.9 | 44.5 | 49.3 | 55.1 | 57.3 | 60.2 | 62.5 | 65.9 | 70.8 | 71.6 | 71.6 | 70.0 | 69.6 | – | – |
| 2400 | 34.0 | 42.4 | 45.2 | 49.2 | 53.6 | 58.7 | 60.8 | 63.4 | 64.8 | 66.5 | 68.4 | 67.5 | – | – | – | – | – |
| 2800 | – | 46.3 | 48.6 | 52.6 | 56.3 | 60.4 | 62.4 | 64.4 | 64.4 | 63.9 | – | – | – | – | – | – | – |
| *3200 | – | – | – | 54.7 | 57.6 | 60.5 | 61.9 | 63.1 | – | – | – | – | – | – | – | – | – |
| *3500 | – | – | – | – | 57.5 | 59.4 | 60.3 | – | – | – | – | – | – | – | – | – | – |
| PD: mm | 124.8 | 129.2 | 133.7 | 142.6 | 151.5 | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285.2 | 303.0 | 320.9 | 356.5 |
| **Inches** | **4.91** | **5.09** | **5.26** | **5.61** | **5.97** | **6.32** | **6.67** | **7.02** | **7.72** | **8.42** | **9.12** | **9.82** | **10.53** | **11.23** | **11.93** | **12.63** | **14.04** |

Operation in shaded area will result in a reduction of belt life.

* Operation in this speed range may require sound dampening guard.

# Selection

## HTD Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 14M-85 | HT100 Horsepower Rating–85 mm Wide Belt (3.35 in.) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Sprocket | No. Teeth | | | | | | | | | | | | | | | | |
| | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 80 |
| 10 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.2 | 1.3 | 1.4 | 1.5 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | 2.5 |
| 20 | 1.2 | 1.2 | 1.2 | 1.3 | 1.5 | 1.7 | 2.0 | 2.4 | 2.6 | 2.8 | 3.1 | 3.3 | 3.6 | 3.8 | 4.0 | 4.3 | 5.0 |
| 40 | 2.3 | 2.4 | 2.5 | 2.6 | 2.9 | 3.4 | 4.0 | 4.7 | 5.2 | 5.7 | 6.2 | 6.6 | 7.1 | 7.6 | 8.1 | 8.5 | 9.9 |
| 60 | 3.5 | 3.6 | 3.7 | 4.0 | 4.3 | 5.1 | 6.0 | 7.1 | 7.8 | 8.5 | 9.2 | 10.0 | 10.7 | 11.4 | 12.1 | 12.8 | 14.8 |
| 100 | 5.8 | 6.0 | 6.2 | 6.6 | 7.2 | 8.5 | 10.0 | 11.9 | 13.0 | 14.2 | 15.4 | 16.6 | 17.8 | 19.0 | 20.1 | 21.3 | 24.7 |
| 200 | 11.5 | 11.9 | 12.3 | 12.3 | 14.5 | 17.1 | 19.9 | 23.2 | 25.4 | 28.4 | 30.8 | 33.2 | 35.5 | 37.9 | 40.2 | 42.6 | 49.4 |
| 300 | 15.8 | 16.6 | 17.5 | 17.3 | 21.7 | 25.6 | 28.8 | 31.2 | 34.0 | 40.4 | 46.2 | 49.7 | 53.2 | 56.8 | 60.3 | 63.8 | 72.3 |
| 400 | 19.4 | 20.6 | 21.8 | 21.9 | 27.1 | 34.1 | 35.4 | 38.2 | 41.5 | 48.7 | 61.3 | 61.1 | 67.8 | 70.4 | 74.0 | 77.8 | 85.4 |
| 500 | 22.7 | 24.2 | 25.8 | 26.3 | 32.1 | 40.0 | 41.4 | 44.5 | 48.2 | 56.0 | 69.7 | 69.9 | 76.9 | 79.7 | 83.7 | 87.9 | 96.3 |
| 600 | 25.8 | 27.7 | 29.6 | 30.4 | 36.7 | 45.3 | 46.9 | 50.3 | 54.3 | 62.6 | 76.9 | 77.6 | 84.8 | 87.7 | 91.9 | 96.5 | 105.5 |
| 700 | 28.7 | 30.9 | 33.1 | 34.4 | 41.1 | 50.2 | 52.0 | 55.7 | 60.0 | 68.5 | 83.3 | 84.3 | 91.6 | 94.5 | 99.0 | 103.7 | 113.2 |
| 800 | 31.4 | 34.0 | 36.5 | 38.1 | 45.3 | 54.8 | 56.8 | 60.7 | 65.1 | 73.8 | 88.9 | 90.3 | 97.5 | 100.4 | 105.0 | 109.9 | 119.5 |
| 870 | 33.3 | 36.0 | 38.8 | 40.7 | 48.0 | 57.8 | 59.9 | 64.0 | 68.5 | 77.3 | 92.4 | 94.1 | 101.2 | 104.0 | 108.6 | 113.6 | 123.2 |
| 1000 | 36.6 | 39.7 | 42.8 | 45.3 | 52.9 | 63.0 | 65.3 | 70.0 | 74.4 | 83.2 | 98.2 | 100. | 107.0 | 109.7 | 114.2 | 119.1 | 128.6 |
| 1160 | 40.5 | 44.0 | 47.4 | 50.6 | 58.5 | 68.8 | 71.5 | 76.0 | 80.8 | 89.5 | 104.1 | 107.0 | 112.7 | 114.9 | 119.3 | 123.9 | 132.6 |
| 1200 | 41.4 | 45.0 | 48.5 | 51.9 | 59.9 | 70.2 | 72.9 | 77.5 | 82.3 | 90.9 | 105.4 | 108.0 | 113.9 | 116.0 | 120.2 | 124.8 | 133.2 |
| 1400 | 45.9 | 49.9 | 53.8 | 57.9 | 66.1 | 76.5 | 79.5 | 84.2 | 89.1 | 97.2 | 110.7 | 113. | 118.2 | 119.6 | 123.2 | 127.0 | 133.5 |
| 1600 | 50.1 | 54.4 | 58.7 | 63.5 | 71.7 | 82.0 | 85.2 | 90.0 | 94.7 | 102. | 114.2 | 117.0 | 120.3 | 120.6 | 123.2 | 125.8 | 129.5 |
| 1750 | 53.2 | 57.7 | 62.1 | 67.4 | 75.6 | 85.6 | 89.0 | 93.8 | 98.3 | 105.1 | 115.8 | 118. | 120.4 | 119.7 | 121.2 | 122.8 | – |
| *2000 | 58.1 | 62.6 | 67.3 | 73.2 | 81.2 | 90.7 | 94.2 | 98.9 | 103.0 | 108.3 | 116.5 | 118.0 | 117.8 | 115.1 | 114.4 | – | – |
| *2400 | 65.7 | 69.7 | 74.3 | 81.0 | 88.1 | 96.5 | 100.0 | 104.2 | 107.0 | 109.3 | 112.5 | 111.0 | – | – | – | – | – |
| *2800 | – | 76.1 | 79.9 | 86.6 | 92.7 | 99.4 | 103.0 | 105.9 | 106.0 | 105.1 | – | – | – | – | – | – | – |
| *3200 | – | – | – | 90.0 | 94.7 | 99.4 | 101.8 | 103.9 | – | – | – | – | – | – | – | – | – |
| *3500 | – | – | – | – | 94.6 | 97.7 | 99.2 | – | – | – | – | – | – | – | – | – | – |
| PD: mm | 124.8 | 129.2 | 133.7 | 142.6 | 151.5 | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285.2 | 303.0 | 320.9 | 356.5 |
| **Inches** | **4.91** | **5.09** | **5.26** | **5.61** | **5.97** | **6.32** | **6.67** | **7.02** | **7.72** | **8.42** | **9.12** | **9.82** | **10.53** | **11.23** | **11.93** | **12.63** | **14.04** |

| 14M-115 | HT100 Horsepower Rating–115 mm Wide Belt (4.53 in.) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Sprocket | No. Teeth | | | | | | | | | | | | | | | | |
| | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 80 |
| 10 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 | 1.2 | 1.4 | 1.7 | 1.8 | 2.0 | 2.2 | 2.4 | 2.5 | 2.7 | 2.9 | 3.0 | 3.5 |
| 20 | 1.6 | 1.7 | 1.7 | 1.9 | 2.0 | 2.4 | 2.8 | 3.4 | 3.7 | 4.0 | 4.4 | 4.7 | 5.0 | 5.4 | 5.7 | 6.0 | 7.0 |
| 40 | 3.3 | 3.4 | 3.5 | 3.7 | 4.1 | 4.8 | 5.6 | 6.7 | 7.4 | 8.0 | 8.7 | 9.4 | 10.1 | 10.7 | 11.4 | 12.1 | 14.0 |
| 60 | 4.9 | 5.1 | 5.2 | 5.6 | 6.1 | 7.2 | 8.4 | 10.1 | 11.1 | 12.1 | 13.1 | 14.1 | 15.1 | 16.1 | 17.1 | 18.1 | 21.0 |
| 100 | 8.1 | 8.4 | 8.7 | 9.3 | 10.2 | 12.1 | 14.1 | 16.7 | 18.4 | 20.1 | 21.8 | 23.4 | 25.1 | 26.8 | 28.5 | 30.1 | 34.9 |
| 200 | 16.3 | 16.9 | 17.4 | 17.4 | 20.4 | 24.1 | 28.1 | 32.8 | 35.9 | 40.2 | 43.5 | 46.9 | 50.2 | 53.5 | 56.9 | 60.2 | 69.8 |
| 300 | 22.3 | 23.5 | 24.7 | 24.4 | 30.6 | 36.2 | 40.7 | 44.0 | 48.0 | 57.1 | 65.2 | 70.2 | 75.2 | 80.2 | 85.1 | 90.1 | 102.1 |
| 400 | 27.4 | 29.1 | 30.8 | 31.0 | 38.3 | 48.2 | 50.0 | 53.9 | 58.6 | 68.8 | 86.7 | 86.4 | 95.8 | 99.5 | 104.5 | 110.0 | 120.6 |
| 500 | 32.1 | 34.2 | 36.5 | 37.1 | 45.3 | 56.6 | 58.5 | 62.9 | 68.1 | 79.2 | 98.4 | 98.7 | 108.6 | 112.6 | 118.2 | 124.2 | 136.1 |
| 600 | 36.4 | 39.1 | 41.8 | 43.0 | 51.9 | 64.0 | 66.3 | 71.1 | 76.8 | 88.4 | 108.7 | 109.6 | 119.7 | 123.8 | 129.8 | 136.3 | 149.0 |
| 700 | 40.5 | 43.6 | 46.8 | 48.5 | 58.1 | 70.9 | 73.5 | 78.7 | 84.7 | 96.7 | 117.6 | 119.1 | 129.4 | 133.5 | 139.8 | 146.5 | 159.9 |
| 800 | 44.4 | 48.0 | 51.5 | 53.9 | 64.0 | 77.4 | 80.2 | 85.8 | 92.0 | 104.3 | 125.6 | 127.6 | 137.7 | 141.8 | 148.3 | 155.2 | 168.8 |
| 870 | 47.0 | 50.9 | 54.7 | 57.5 | 67.9 | 81.6 | 84.6 | 90.4 | 96.8 | 109.2 | 130.6 | 133.0 | 142.9 | 146.9 | 153.4 | 160.4 | 174.1 |
| 1000 | 51.7 | 56.1 | 60.4 | 64.0 | 74.8 | 89.0 | 92.3 | 98.4 | 105.1 | 117.5 | 138.8 | 141.7 | 151.2 | 154.9 | 161.4 | 168.3 | 181.7 |
| 1160 | 57.12 | 62.1 | 67.0 | 71.5 | 82.7 | 97.2 | 101.0 | 107.3 | 114.2 | 126.4 | 147.1 | 150.6 | 159.2 | 162.4 | 168.5 | 175.1 | 187.4 |
| 1200 | 58.5 | 63.6 | 68.6 | 73.3 | 84.6 | 99.1 | 103.0 | 109.4 | 116.3 | 128.4 | 148.9 | 152.5 | 160.8 | 163.9 | 169.8 | 176.3 | 188.2 |
| *1400 | 64.8 | 70.5 | 76.1 | 81.8 | 93.4 | 108.1 | 112.3 | 119.0 | 125.8 | 137.3 | 156.4 | 160.2 | 167.0 | 168.9 | 174.0 | 179.4 | 188.7 |
| *1600 | 70.8 | 76.9 | 82.9 | 89.7 | 101.4 | 115.8 | 120.4 | 127.2 | 133.8 | 144.4 | 161.4 | 165.1 | 170.0 | 170.4 | 174.0 | 177.8 | 183.0 |
| *1750 | 75.2 | 81.4 | 87.7 | 95.2 | 106.7 | 120.9 | 125.7 | 132.5 | 138.8 | 148.4 | 163.7 | 166.9 | 170.1 | 169.1 | 171.3 | 173.4 | – |
| *2000 | 82.1 | 88.5 | 95.0 | 104.0 | 114.6 | 128.1 | 133.1 | 139.8 | 145.2 | 153.0 | 164.6 | 166.4 | 166.4 | 162.6 | 161.6 | – | – |
| *2400 | 92.9 | 98.5 | 105.0 | 114.4 | 124.5 | 136.3 | 141.3 | 147.3 | 150.6 | 154.4 | 159.0 | 150.7 | – | – | – | – | – |
| *2800 | – | 107.6 | 113.0 | 122.3 | 130.9 | 140.4 | 144.9 | 149.6 | 149.7 | 148.5 | – | – | – | – | – | – | – |
| *3200 | – | – | – | 127.1 | 133.7 | 140.5 | 143.9 | 146.7 | – | – | – | – | – | – | – | – | – |
| *3500 | – | – | – | – | 133.6 | 138.0 | 140.1 | – | – | – | – | – | – | – | – | – | – |
| PD: mm | 124.8 | 129.2 | 133.7 | 142.6 | 151.5 | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285.2 | 303.0 | 320.9 | 356.5 |
| **Inches** | **4.91** | **5.09** | **5.26** | **5.61** | **5.97** | **6.32** | **6.67** | **7.02** | **7.72** | **8.42** | **9.12** | **9.82** | **10.53** | **11.23** | **11.93** | **12.63** | **14.04** |

Operation in shaded area will result in a reduction of belt life.

* Operation in this speed range may require sound dampening guard.

# Selection

## HTD Basic Horsepower Rating

**NOTE:** Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

| 14M-170 | HT100 Horsepower Rating–170 mm Wide Belt (6.69 in.) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPM Small Sprocket | No. Teeth | | | | | | | | | | | |
| | 36 | 38 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 80 |
| 10 | 1.9 | 2.2 | 2.6 | 2.9 | 3.1 | 3.4 | 3.7 | 3.9 | 4.2 | 4.5 | 4.7 | 5.5 |
| 20 | 3.8 | 4.4 | 5.2 | 5.8 | 6.3 | 6.8 | 7.3 | 7.9 | 8.4 | 8.9 | 9.4 | 11.0 |
| 40 | 7.5 | 8.8 | 10.5 | 11.5 | 12.6 | 13.6 | 14.7 | 15.7 | 16.8 | 17.8 | 18.9 | 21.8 |
| 60 | 11.3 | 13.2 | 15.7 | 17.3 | 18.9 | 20.4 | 22.0 | 23.6 | 25.1 | 26.7 | 28.3 | 32.8 |
| 100 | 18.9 | 22.0 | 26.2 | 28.8 | 31.4 | 34.0 | 36.6 | 39.3 | 41.9 | 44.5 | 47.1 | 54.6 |
| 200 | 37.7 | 43.9 | 51.2 | 56.2 | 62.8 | 68.0 | 73.2 | 78.5 | 83.7 | 88.9 | 94.1 | 109.1 |
| 300 | 56.5 | 63.6 | 68.8 | 75.1 | 89.3 | 101.9 | 109.7 | 117.5 | 125.3 | 133.1 | 140.9 | 159.6 |
| 400 | 75.3 | 78.2 | 84.3 | 91.6 | 107.6 | 135.5 | 135.0 | 149.7 | 155.5 | 163.4 | 171.8 | 188.6 |
| 500 | 88.4 | 91.4 | 98.3 | 106.5 | 123.7 | 153.9 | 154.3 | 169.8 | 176.0 | 184.8 | 194.1 | 212.7 |
| 600 | 100.1 | 103.6 | 111.2 | 120.0 | 138.2 | 169.9 | 171.3 | 187.2 | 193.6 | 203.0 | 213.0 | 232.9 |
| 700 | 110.9 | 114.9 | 123.0 | 132.4 | 151.2 | 183.9 | 186.2 | 202.2 | 208.7 | 218.5 | 229.1 | 249.9 |
| 800 | 120.9 | 125.3 | 134.0 | 143.8 | 163.1 | 196.3 | 199.5 | 215.3 | 221.7 | 231.8 | 242.6 | 263.9 |
| 870 | 127.6 | 132.3 | 141.3 | 151.4 | 170.7 | 204.1 | 207.9 | 223.4 | 229.7 | 239.9 | 250.8 | 272.1 |
| 1000 | 139.1 | 144.3 | 153.8 | 164.3 | 183.7 | 216.9 | 221.5 | 236.4 | 242.2 | 252.3 | 263.1 | 284.0 |
| 1160 | 152.0 | 157.8 | 167.8 | 178.5 | 197.6 | 229.9 | 235.4 | 248.9 | 253.9 | 263.4 | 273.7 | 292.9 |
| 1200 | 155.0 | 161.0 | 171.0 | 181.8 | 200.8 | 232.8 | 238.4 | 251.4 | 256.1 | 265.5 | 275.6 | 294.2 |
| 1400 | 168.9 | 175.5 | 186.0 | 196.7 | 214.7 | 244.4 | 250.4 | 261.1 | 264.1 | 272.0 | 280.4 | 294.9 |
| 1600 | 181.1 | 188.2 | 198.8 | 209.2 | 225.7 | 252.3 | 258.0 | 265.7 | 266.4 | 272.0 | 277.9 | 286.1 |
| 1750 | 189.0 | 196.5 | 207.1 | 217.0 | 232.1 | 255.8 | 260.9 | 265.9 | 264.4 | 267.8 | 271.1 | – |
| 2000 | 200.3 | 208.1 | 218.5 | 227.0 | 239.2 | 257.3 | 260.2 | 260.1 | 254.2 | 252.7 | – | – |
| 2400 | 213.1 | 220.8 | 230.2 | 235.4 | 241.4 | 248.5 | 245.0 | – | – | – | – | – |
| 2800 | 219.5 | 226.5 | 233.9 | 234.0 | 232.1 | – | – | – | – | – | – | – |
| 3200 | 219.6 | 224.9 | 229.4 | – | – | – | – | – | – | – | – | – |
| 3500 | 215.8 | 219.0 | – | – | – | – | – | – | – | – | – | – |
| PD: mm | 160.4 | 169.3 | 178.3 | 196.1 | 213.9 | 231.7 | 249.6 | 267.4 | 285.2 | 303.0 | 320.9 | 356.5 |
| **Inches** | **6.32** | **6.67** | **7.02** | **7.72** | **8.42** | **9.12** | **9.82** | **10.53** | **11.23** | **11.93** | **12.63** | **14.04** |

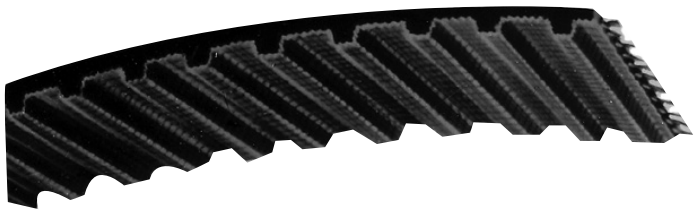
# Notes

# Features/Benefits

## DYNA-SYNC Drives

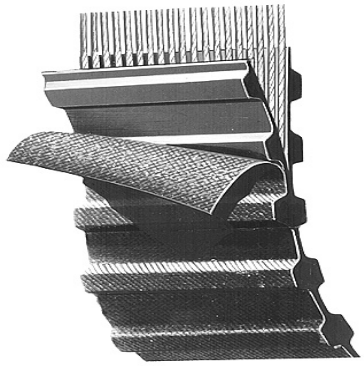
### The Original Timing Drive

- Synchronized No-Slip Transmission
- No Lubrication Required
- Efficiency: Approximately 98 percent
- Low Maintenance
- Virtually No Backlash
- Constant Linear Velocity
- Drive Ratios to 8.5:1
- Pitches: XL, L, H, and XH



- Tough, Tensile Coards, No-Stretch Fiberglass
- Durable Neoprene Rubber Body
- Long-Wearing Nylon Duck Facing
- Oil, Heat, and Ozone Resistant
- Dual-Sided Teeth Available for Serpentine Drives

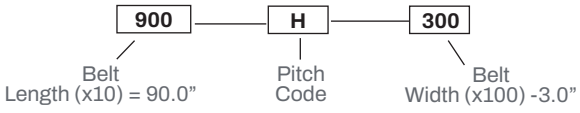
## DYNA-SYNC Pulley

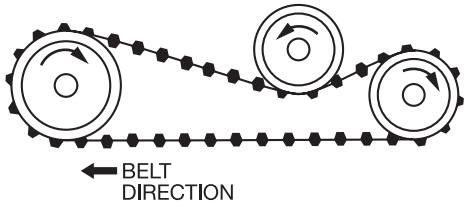


- Clean, Compact TAPER-LOCK Design
- Easy-on/Easy-off
- Precision Manufactured in ISO9000 Certified Plant
- Flanged Design Standard on Driver Sizes

**NOMENCLATURE**
**Pulleys**

**BELT**

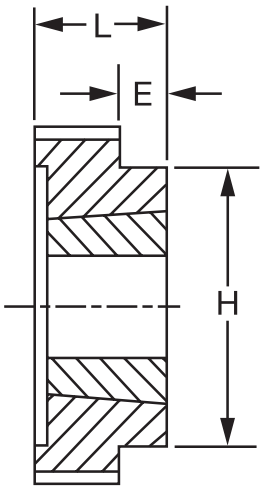


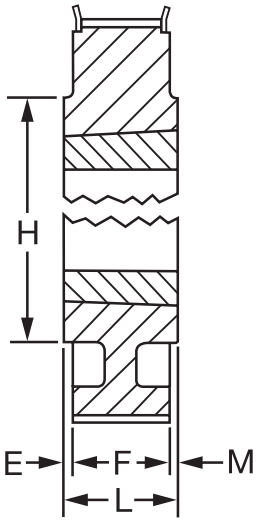
# Specifications

## DYNA-SYNC Pulleys - XL, L Pitch

TAPER-LOCK




TAPER-LOCK




TYPE C

**XL037 - 1/5" Pitch (.375" Wide Belt)** **F= 0.56"**

| No. of Teeth | Description | Part No. | Wt | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Brushed Bore Range Min. | Brushed Bore Range Max. | Dimensions E | Dimensions H | Dimensions L | Dimensions M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | TL32XL037-1108 | **113021** | .22 | 2.037 | None | TL-1 | 1/2 | 1-1/8 | – | 2.02 | 0.88 | 0 |
| 36 | TL36XL037-1108 | **113022** | .30 | 2.292 | | TL-1 | 1/2 | 1-1/8 | 0.32 | 2.13 | 0.88 | 0 |
| 40 | TL40XL037-1108 | **113023** | .31 | 2.546 | | TL-1 | 1/2 | 1-1/8 | 0.32 | 2.25 | 0.88 | 0 |
| 42 | TL42XL037-1108 | **113024** | .31 | 2.674 | | TL-1 | 1/2 | 1-1/8 | 0.32 | 2.37 | 0.88 | 0 |
| 44 | TL44XL037-1108 | **113046** | .31 | 2.801 | | TL-1 | 1/2 | 1-1/8 | 0.32 | 2.63 | 0.88 | 0 |
| 48 | TL48XL037-1108 | **113047** | .38 | 3.056 | | TL-1 | 1/2 | 1-1/8 | 0.32 | 2.88 | 0.88 | 0 |
| 60 | TL60XL037-1210 | **113048** | .38 | 3.820 | | TL-1 | 1/2 | 1-1/4 | 0.44 | 3.50 | 1.00 | 0 |
| 72 | TL72XL037-1610 | **113049** | .50 | 4.584 | | TL-1 | 1/2 | 1-11/16 | 0.44 | 4.00 | 1.00 | 0 |

**L050 - 3/8" Pitch (.5" Wide Belt)** **F=0.75"**

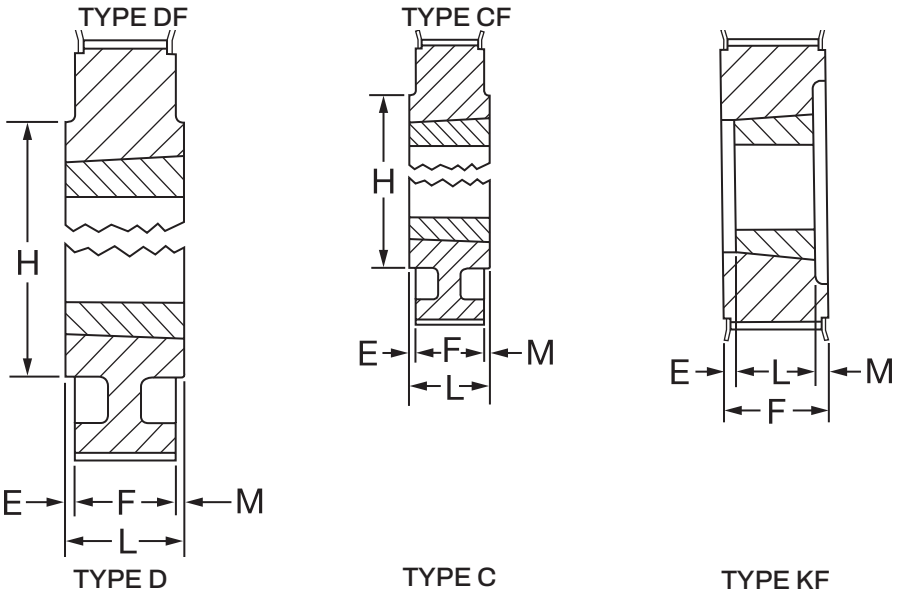
| No. of Teeth | Description ◊ | Part No. | Wt | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Brushed Bore Range Min. | Brushed Bore Range Max. | Dimensions E | Dimensions H | Dimensions L | Dimensions M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | TL18L050-1108 | **113575** | .45 | 2.149 | 2.39 | CF-1 | 1/2 | 1-1/8 | .13 | 1.63 | .88 | 0 |
| 20 | TL20L050-1108 | **113581** | .68 | 2.387 | 2.63 | CF-1 | 1/2 | 1-1/8 | .13 | 1.81 | .88 | 0 |
| 21 | TL21L050-1108 | **113399** | .80 | 2.507 | 2.87 | CF-1 | 1/2 | 1-1/8 | .13 | 2.00 | .88 | 0 |
| 22 | TL22L050-1108 | **113588** | .90 | 2.626 | 2.87 | CF-1 | 1/2 | 1-1/8 | .13 | 2.06 | .88 | 0 |
| 24 | TL24L050-1210 | **113464** | 1.0 | 2.865 | 3.11 | CF-1 | 1/2 | 1-1/4 | .25 | 2.25 | 1.00 | 0 |
| 26 | TL26L050-1210 | **113466** | 1.2 | 3.104 | 3.34 | CF-1 | 1/2 | 1-1/4 | .25 | 2.56 | 1.00 | 0 |
| 28 | TL28L050-1210 | **113468** | 1.4 | 3.342 | 3.58 | CF-1 | 1/2 | 1-1/4 | .25 | 2.75 | 1.00 | 0 |
| 30 | TL30L050-1610 | **113470** | 1.5 | 3.581 | 3.83 | CF-1 | 1/2 | 1-11/16 | .25 | 2.88 | 1.00 | 0 |
| 32 | TL32L050-1610 | **113472** | 1.9 | 3.820 | 4.06 | CF-1 | 1/2 | 1-11/16 | .25 | 3.06 | 1.00 | 0 |
| 40 | TL40L050-2012 | **113478** | 2.4 | 4.775 | 5.02 | CF-1 | 1/2 | 2-1/8 | .50 | 3.94 | 1.25 | 0 |
| 48 | TL48L050-2012 | **113484** | 3.2 | 5.730 | 6.02 | CF-1 | 1/2 | 2-1/8 | .50 | 3.94 | 1.25 | 0 |
| 60 | TL60L050-2012 | **113485** | 4.9 | 7.162 | | C-2 | 1/2 | 2-1/8 | .25 | 4.38 | 1.25 | .25 |
| 72 | TL72L050-2012 | **113486** | 6.5 | 8.594 | None | C-2 | 1/2 | 2-1/8 | .25 | 4.38 | 1.25 | .25 |
| 84 | TL84L050-2517 | **113487** | 7.8 | 10.027 | | C-2 | 1/2 | 2-11/16 | .50 | 4.38 | 1.75 | .50 |

**† Dash 1 = Block, 2 = Web, 3 = Arm.**

Letter "F" indicates pulley is flanged.

# Specifications

## DYNA-SYNC Pulleys - L Pitch




**L075 - 3/8" Pitch (.75" Wide Belt)** **F=1.00"**

| No. of Teeth | Description ◊ | Part No. | Wt | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Brushed Bore Range Min. | Brushed Bore Range Max. | Dimensions E | Dimensions H | Dimensions L | Dimensions M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | TL18L075-1108 | **113589** | 0.45 | 2.149 | 2.39 | KF-1 | 1/2 | 1-1/8 | .06 | – | .88 | .06 |
| 20 | TL20L075-1108 | **113594** | 0.68 | 2.387 | 2.63 | KF-1 | 1/2 | 1-1/8 | .06 | – | .88 | .06 |
| 22 | TL22L075-1108 | **113595** | 0.90 | 2.626 | 2.87 | KF-1 | 1/2 | 1-1/8 | .06 | – | .88 | .06 |
| 24 | TL24L075-1210 | **113513** | 1.0 | 2.865 | 3.11 | KF-1 | 1/2 | 1-1/4 | 0 | – | 1.00 | – |
| 26 | TL26L075-1210 | **113515** | 1.2 | 3.104 | 3.34 | KF-1 | 1/2 | 1-1/4 | 0 | – | 1.00 | – |
| 28 | TL28L075-1610 | **113517** | 1.2 | 3.342 | 3.58 | KF-1 | 1/2 | 1-11/16 | 0 | – | 1.00 | – |
| 30 | TL30L075-1610 | **113519** | 1.5 | 3.581 | 3.83 | KF-1 | 1/2 | 1-11/16 | 0 | – | 1.00 | – |
| 32 | TL32L075-1610 | **113521** | 1.9 | 3.820 | 4.06 | KF-1 | 1/2 | 1-11/16 | 0 | – | 1.00 | – |
| 40 | TL40L075-2012 | **113527** | 2.4 | 4.775 | 5.02 | CF-1 | 1/2 | 2-1/8 | .25 | 3.94 | 1.25 | 0 |
| 48 | TL48L075-2012 | **113533** | 3.2 | 5.730 | 6.02 | CF-1 | 1/2 | 2-1/8 | .25 | 3.94 | 1.25 | 0 |
| 60 | TL60L075-2012 | **113534** | 4.9 | 7.162 | | C-2 | 1/2 | 2-1/8 | .13 | 4.38 | 1.25 | .13 |
| 72 | TL72L075-2012 | **113535** | 6.5 | 8.594 | **None** | C-1 | 1/2 | 2-1/8 | .13 | 4.38 | 1.25 | .13 |
| 84 | TL84L075-2517 | **113536** | 7.8 | 10.027 | | C-1 | 1/2 | 2-11/16 | .25 | 4.88 | 1.75 | .50 |

**L100 - 3/8" Pitch (1" Wide Belt)** **F=1.25"**

| No. of Teeth | Description ◊ | Part No. | Wt | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Brushed Bore Range Min. | Brushed Bore Range Max. | Dimensions E | Dimensions H | Dimensions L | Dimensions M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | TL18L100-1108 | **113599** | 0.7 | 2.149 | 2.39 | KF-1 | 1/2 | 1-1/8 | .06 | – | .87 | .31 |
| 20 | TL20L100-1108 | **113641** | 1.0 | 2.387 | 2.63 | KF-1 | 1/2 | 1-1/8 | .06 | – | .87 | .31 |
| 22 | TL22L100-1108 | **113669** | 1.3 | 2.626 | 2.87 | KF-1 | 1/2 | 1-1/8 | .06 | – | .87 | .31 |
| 24 | TL24L100-1210 | **113562** | 1.3 | 2.865 | 3.11 | KF-1 | 1/2 | 1-1/4 | .06 | – | 1 | .19 |
| 26 | TL26L100-1210 | **113564** | 1.7 | 3.104 | 3.34 | KF-1 | 1/2 | 1-1/4 | .06 | – | 1 | .19 |
| 28 | TL28L100-1610 | **113566** | 1.7 | 3.342 | 3.58 | KF-1 | 1/2 | 1-11/16 | .11 | – | 1 | .15 |
| 30 | TL30L100-1610 | **113568** | 2.2 | 3.581 | 3.83 | KF-1 | 1/2 | 1-11/16 | .11 | – | 1 | .15 |
| 32 | TL32L100-1610 | **113570** | 2.7 | 3.820 | 4.06 | KF-1 | 1/2 | 1-11/16 | .25 | – | 1 | 0 |
| 40 | TL40L100-2012 | **113576** | 3.6 | 4.775 | 5.02 | KF-1 | 1/2 | 2-1/8 | 0 | – | 1.25 | – |
| 48 | TL48L100-2012 | **113582** | 5.1 | 5.730 | 6.02 | KF-1 | 1/2 | 2-1/8 | 0 | – | 1.25 | – |
| 60 | TL60L100-2012 | **113583** | 6.0 | 7.162 | | C-2 | 1/2 | 2-1/8 | 0 | 4.38 | 1.25 | – |
| 72 | TL72L100-2012 | **113584** | 8.0 | 8.594 | **None** | C-2 | 1/2 | 2-1/8 | 0 | 4.38 | 1.25 | – |
| 84 | TL84L100-2517 | **113585** | 9.2 | 10.027 | | C-1 | 1/2 | 2-11/16 | .55 | 4.88 | 1.75 | – |

**† Dash 1 = Block, 2 = Web, 3 = Arm.**
Letter "F" indicates pulley is flanged.

# Specifications

## DYNA-SYNC Pulleys - L, H

† **Dash 1 = Block, 2 = Web, 3 = Arm**

Letter "F" indicates pulley is flanged

\+ Available from stock in Min. Plain Bore (MPB) only

Max. bore is without keyway. (If keyway is used, reduce max bore listed by twice the keyway depth.)

**H100 - 1/2" Pitch (1" Wide Belt) (for H075 and H100 Belts)** **F=1.32"**

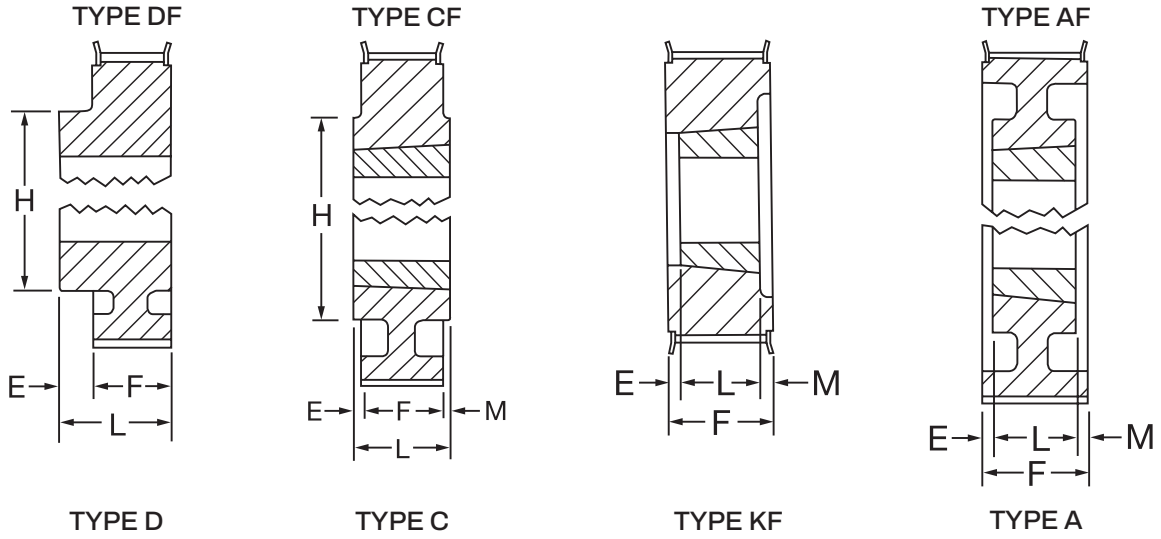
| No. of Teeth | Description ◊ | Part No. | Wt. | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Bore Range | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Min. | Max. | E | H | L | M |
| 14 | TL14H100-1108 | **113678** | .8 | 2.228 | 2.48 | KF-1 | 1/2 | 1-1/8 | .06 | – | .88 | .42 |
| 16 | TL16H100-1108 | **113684** | 1.3 | 2.546 | 2.80 | KF-1 | 1/2 | 1-1/8 | .06 | – | .88 | .42 |
| 18 | TL18H100-1210 | **113605** | 1.2 | 2.865 | 3.11 | KF-1 | 1/2 | 1-1/4 | .06 | – | 1 | .25 |
| 20 | TL20H100-1210 | **113608** | 1.7 | 3.183 | 3.44 | KF-1 | 1/2 | 1-1/4 | .11 | – | 1 | .25 |
| 22 | TL22H100-1610 | **113611** | 1.8 | 3.501 | 3.75 | KF-1 | 1/2 | 1-11/16 | .11 | – | 1 | .25 |
| 24 | TL24H100-1610 | **113642** | 2.3 | 3.820 | 4.02 | KF-1 | 1/2 | 1-11/16 | .11 | – | 1 | .25 |
| 26 | TL26H100-2012 | **113615** | 2.2 | 4.138 | 4.39 | KF-1 | 1/2 | 2-1/8 | .06 | – | 1.25 | 0 |
| 28 | TL28H100-2012 | **113617** | 2.8 | 4.456 | 4.70 | KF-1 | 1/2 | 2-1/8 | .06 | – | 1.25 | 0 |
| 30 | TL30H100-2012 | **113620** | 4.2 | 4.775 | 5.02 | KF-1 | 1/2 | 2-1/8 | .06 | – | 1.25 | 0 |
| 32 | TL32H100-2517 | **113623** | 4.1 | 5.093 | 5.33 | CF-1 | 1/2 | 2-11/16 | .44 | 4.44 | 1.75 | 0 |
| 40 | TL40H100-2517 | **113629** | 7.8 | 6.366 | 6.58 | CF-1 | 1/2 | 2-11/16 | .44 | 4.44 | 1.75 | 0 |
| 48 | TL48H100-2517 | **113635** | 12.1 | 7.639 | 8.02 | CF-1 | 1/2 | 2-11/16 | .44 | 4.44 | 1.75 | 0 |
| 60 | TL60H100-3020 | **113636** | 10.3 | 9.549 | | C-2 | 7/8 | 3-1/4 | .34 | 6.25 | 2 | .34 |
| 72 | TL72H100-3020 | **113637** | 14 | 11.459 | | C-1 | 7/8 | 3-1/4 | .34 | 6.25 | 2 | .34 |
| 84 | TL84H100-3020 | **113638** | 20 | 13.369 | **None** | C-2 | 7/8 | 3-1/4 | .34 | 6.25 | 2 | .34 |
| 96 | TL96H100-3020 | **113639** | 27 | 15.279 | | C-2 | 7/8 | 3-1/4 | .34 | 6.25 | 2 | .34 |
| 120 | TL120H100-3020 | **113640** | 38 | 19.099 | | C-3 | 7/8 | 3-1/4 | 0 | 6.25 | 2 | .59 |

**H150 - 1/2" Pitch (1.5" Wide Belt)** **F=1.86"**

| No. of Teeth | Description ◊ | Part No. | Wt. | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Bore Range | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Min. | Max. | E | H | L | M |
| 14 | TL14H150-1108 | **113691** | 1.0 | 2.228 | 2.48 | KF-1 | 1/2 | 1 | .47 | – | .88 | .88 |
| 16 | TL16H150-1108 | **113692** | 1.5 | 2.546 | 2.80 | KF-1 | 1/2 | 1 | .47 | – | .88 | .88 |
| 18 | TL18H150-1210 | **113693** | 1.6 | 2.865 | 3.11 | KF-1 | 1/2 | 1-1/4 | .11 | – | 1 | .75 |
| 20 | TL20H150-1210 | **113694** | 2.2 | 3.183 | 3.44 | KF-1 | 1/2 | 1-1/4 | .11 | – | 1 | .75 |
| 22 | TL22H150-1610 | **113695** | 2.5 | 3.501 | 3.75 | KF-1 | 1/2 | 1-11/16 | .11 | – | 1 | .75 |
| 24 | TL24H150-2012 | **113663** | 2.2 | 3.820 | 4.06 | KF-1 | 1/2 | 2-1/8 | .56 | – | 1.25 | 0 |
| 26 | TL26H150-2012 | **113665** | 3.2 | 4.138 | 4.78 | KF-1 | 1/2 | 2-1/8 | .56 | – | 1.25 | 0 |
| 28 | TL28H150-2012 | **113667** | 4.1 | 4.456 | 4.70 | KF-1 | 1/2 | 2-1/8 | .56 | – | 1.25 | 0 |
| 30 | TL30H150-2012 | **113670** | 5.1 | 4.775 | 5.02 | KF-1 | 1/2 | 2-1/8 | .56 | – | 1.25 | 0 |
| 32 | TL32H150-2517 | **113673** | 4.6 | 5.093 | 5.33 | KF-1 | 1/2 | 2-11/16 | .11 | – | 1.75 | 0 |
| 40 | TL40H150-2517 | **113679** | 8.6 | 6.366 | 6.58 | KF-1 | 1/2 | 2-11/16 | .11 | – | 1.75 | 0 |
| 48 | TL48H150-2517 | **113685** | 13.6 | 7.639 | 8.02 | AF-2 | 1/2 | 2-11/16 | 0 | – | 1.75 | .06 |
| 60 | TL60H150-3020 | **113686** | 12.3 | 9.549 | | C-2 | 7/8 | 3-1/4 | .09 | 6.25 | 2 | .09 |
| 72 | TL72H150-3020 | **113687** | 17.0 | 11.459 | | C-2 | 7/8 | 3-1/4 | .09 | 6.25 | 2 | .09 |
| 84 | TL84H150-3020 | **113688** | 21.5 | 13.369 | **None** | C-3 | 7/8 | 3-1/4 | .09 | 6.25 | 2 | .09 |
| 96 | TL96H150-3020 | **113689** | 31 | 15.279 | | C-3 | 7/8 | 3-15/16 | .09 | 6.25 | 2 | .09 |
| 120 | TL120H150-3020 | **113690** | 40 | 19.099 | | C-3 | 7/8 | 3-1/4 | .09 | 6.25 | 2 | .09 |

# Specifications

## DYNA-SYNC Pulleys - H




### H200 - 1/2" Pitch (2" Wide Belt)

F=2.34"

| No. of Teeth | Description ◊ | Part No. | Wt. | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Bore Range | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Min. | Max. | E | H | L | M |
| 16 | TL16H200-1108 | **113072** | 1.9 | 2.546 | 2.80 | KF-1 | 1/2 | 1-1/8 | .75 | 0 | .88 | .72 |
| 18 | TL18H200-1215 | **113704** | 1.8 | 2.865 | 3.11 | KF-1 | 1/2 | 1-1/4 | .44 | 0 | 1.5 | .41 |
| 20 | TL20H200-1215 | **113707** | 2.6 | 3.183 | 3.44 | KF-1 | 1/2 | 1-1/4 | .42 | 0 | 1.5 | .42 |
| 22 | TL22H200-1615 | **113710** | 28 | 3.501 | 3.75 | KF-1 | 1/2 | 1-5/8 | .42 | 0 | 1.5 | .42 |
| 24 | TL24H200-2012 | **113712** | 2.6 | 3.820 | 4.06 | KF-1 | 1/2 | 2 | .55 | 0 | 1.25 | .55 |
| 26 | TL26H200-2012 | **113714** | 3.6 | 4.138 | 4.78 | KF-1 | 1/2 | 2 | .55 | 0 | 1.25 | .55 |
| 28 | TL28H200-2012 | **113716** | 5.1 | 4.456 | 4.70 | KF-1 | 1/2 | 2 | .55 | 0 | 1.25 | .55 |
| 30 | TL30H200-2012 | **113719** | 7.0 | 4.775 | 5.02 | KF-1 | 1/2 | 2 | 1.09 | 0 | 1.25 | 0 |
| 32 | TL32H200-2517 | **113722** | 5.5 | 5.093 | 5.33 | KF-1 | 1/2 | 2-1/2 | .59 | 0 | 1.75 | 0 |
| 40 | TL40H200-2517 | **113728** | 9.9 | 6.366 | 6.58 | KF-1 | 1/2 | 2-1/2 | .59 | 0 | 1.75 | 0 |
| 48 | TL48H200-3020 | **113734** | 14.3 | 7.639 | 8.02 | KF-1 | 7/8 | 3 | .41 | 0 | 2 | 0 |
| 60 | TL60H200-3020 | **113735** | 15.3 | 9.549 | | A-2 | 7/8 | 3 | .17 | 0 | 2 | .17 |
| 72 | TL72H200-3020 | **113736** | 21 | 11.459 | | A-2 | 7/8 | 3-1/4 | 0 | 0 | 2 | .34 |
| 84 | TL84H200-3020 | **113737** | 23 | 13.369 | **None** | A-3 | 7/8 | 3-1/4 | 0 | 0 | 2 | .34 |
| 96 | TL96H200-3535 | **113738** | 34 | 15.279 | | C-3 | 1-3/16 | 3-15/16 | .40 | 7.0 | 3.5 | .75 |
| 120 | TL120H200-3020 | **113739** | 42 | 19.099 | | A-3 | 7/8 | 3-1/4 | 0 | 0 | 2 | .34 |

### H300 - 1/2" Pitch (3" Wide Belt)

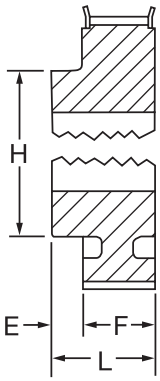
F=3.38"

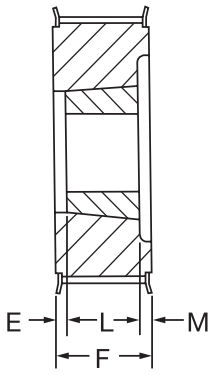
| No. of Teeth | Description ◊ | Part No. | Wt | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Brushed Bore Range | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Min. | Max. | E | H | L | M |
| 16 | TL16H300-1108 | **113073** | 2.5 | 2.546 | 2.80 | KF-1 | 1/2 | 1-1/8 | 1.28 | 0 | .87 | 1.23 |
| 18 | TL18H300-1215 | **113752** | 2.6 | 2.865 | 3.11 | KF-1 | 1/2 | 1-1/4 | .94 | 0 | 1.5 | .94 |
| 20 | TL20H300-1215 | **113755** | 3.9 | 3.183 | 3.44 | KF-1 | 1/2 | 1-1/4 | .94 | 0 | 1.5 | .94 |
| 22 | TL22H300-1615 | **113758** | 4.0 | 3.501 | 3.75 | KF-1 | 1/2 | 1-11/16 | .94 | 0 | 1.5 | .94 |
| 24 | TL24H300-2012 | **113760** | 4.3 | 3.820 | 4.06 | KF-1 | 1/2 | 2-1/8 | 1.06 | 0 | 1.25 | 1.06 |
| 26 | TL26H300-2012 | **113762** | 5.4 | 4.138 | 4.78 | KF-1 | 1/2 | 2-1/8 | 1.06 | 0 | 1.25 | 1.06 |
| 28 | TL28H300-2012 | **113764** | 6.8 | 4.456 | 4.70 | KF-1 | 1/2 | 2-1/8 | 1.06 | 0 | 1.25 | 1.06 |
| 30 | TL30H300-2012 | **113767** | 7.5 | 4.775 | 5.02 | KF-1 | 1/2 | 2-1/8 | 1.06 | 0 | 1.25 | 1.06 |
| 32 | TL32H300-2517 | **113770** | 7.4 | 5.093 | 5.33 | KF-1 | 1/2 | 2-11/16 | .81 | 0 | 1.75 | .81 |
| 40 | TL40H300-2517 | **113776** | 12.1 | 6.366 | 6.58 | KF-1 | 1/2 | 2-11/16 | .81 | 0 | 1.75 | .81 |
| 48 | TL48H300-3020 | **113782** | 16.3 | 7.639 | 8.02 | KF-1 | 7/8 | 3-1/4 | .69 | 0 | 2 | .69 |
| 60 | TL60H300-3020 | **113783** | 17.3 | 9.549 | | A-2 | 7/8 | 3-1/4 | .69 | 0 | 2 | .69 |
| 72 | TL72H300-3020 | **113784** | 23 | 11.459 | | A-2 | 7/8 | 3-1/4 | .31 | 0 | 2 | 1.06 |
| 84 | TL84H300-3020 | **113785** | 30 | 13.369 | **None** | A-3 | 7/8 | 3-1/4 | .69 | 0 | 2 | .69 |
| 96 | TL96H300-3535 | **113786** | 38 | 15.279 | | C-3 | 1-3/16 | 3-15/16 | .06 | 0 | 3.5 | .06 |
| 120 | TL120H300-3535 | **113787** | 51 | 19.099 | | C-3 | 1-3/16 | 3-15/16 | .125 | 7.0 | 3.5 | 0 |

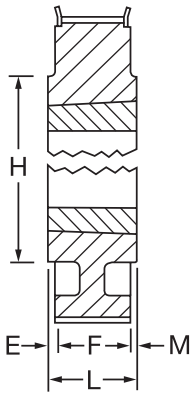
**† Dash 1 = Block, 2 = Web, 3 = Arm.** Letter "F" indicates pulley is flanged.

# Specifications

## DYNA-SYNC Pulleys - XH




**XH200 - 7/8" Pitch (2" Wide Belt)** **F=2.56"**

| No. of Teeth | Description ◊ | Part No. | Wt. | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Bore Range | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Min. | Max. | E | H | L | M |
| 18 | TL18XH200-2012 | **113074** | 12 | 5.013 | 5.58 | KF-1 | 1/2 | 2-1/8 | .84 | – | 1.25 | .47 |
| 20 | TL20XH200-2012 | **113120** | 16 | 5.570 | 6.11 | KF-1 | 1/2 | 2-1/8 | .84 | – | 1.25 | .47 |
| 22 | TL22XH200-2517 | **113804** | 10.6 | 6.127 | 6.59 | KF-1 | 1/2 | 2-11/16 | .81 | – | 1.75 | 0 |
| 24 | TL24XH200-3020 | **113807** | 11.3 | 6.685 | 7.28 | KF-1 | 7/8 | 3-1/4 | .56 | – | 2.0 | 0 |
| 26 | TL26XH200-3020 | **113810** | 13.3 | 7.241 | 7.78 | KF-1 | 7/8 | 3-1/4 | .56 | – | 2.0 | 0 |
| 28 | TL28XH200-3535 | **113813** | 13.5 | 7.799 | 8.27 | CF-1 | 1-3/16 | 3-15/16 | .94 | 6.50 | 3.5 | 0 |
| 30 | TL30XH200-3535 | **113816** | 18.5 | 8.356 | 9.31 | CF-1 | 1-3/16 | 3-15/16 | .94 | 6.50 | 3.5 | 0 |
| 32 | TL32XH200-3535 | **113819** | 21.5 | 8.913 | 9.52 | CF-1 | 1-3/16 | 3-15/16 | .94 | 6.50 | 3.5 | 0 |
| 40 | TL40XH200-4040 | **113822** | 37.5 | 11.141 | 11.80 | CF-1 | 1-7/16 | 4-7/16 | 1.44 | 8.50 | 4.0 | 0 |
| 48 | TL48XH200-4040 | **113823** | 44.5 | 13.369 | **None** | C-2 | 1-7/16 | 4-7/16 | .72 | 8.50 | 4.0 | .72 |
| 60 | TL60XH200-4040 | **113824** | 47 | 16.711 | | C-3 | 1-7/16 | 4-7/16 | .72 | 8.50 | 4.0 | .72 |

**XH300 - 7/8" Pitch (3" Wide Belt)** **F=3.63"**

| No. of Teeth | Description ◊ | Part No. | Wt. | Pitch Dia. (P.D.) | Max. Flg. O.D. | Type † | Bore Range | | Dimensions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Min. | Max. | E | H | L | M |
| 18 | TL18XH300-2012 | **113121** | 15 | 5.013 | 5.58 | KF-1 | 1/2 | 2-1/8 | 1.38 | – | 1.25 | 1.0 |
| 20 | TL20XH300-2012 | **113122** | 19 | 5.570 | 6.11 | KF-1 | 1/2 | 2-1/8 | 1.38 | – | 1.25 | 1.0 |
| 22 | TL22XH300-2517 | **113854** | 13.6 | 6.127 | 6.59 | KF-1 | 1/2 | 2-11/16 | .94 | – | 1.75 | .94 |
| 24 | TL24XH300-3020 | **113857** | 15.3 | 6.685 | 7.28 | KF-1 | 7/8 | 3-1/4 | .81 | – | 2.0 | .81 |
| 26 | TL26XH300-3020 | **113860** | 17.3 | 7.241 | 7.78 | KF-1 | 7/8 | 3-1/4 | .81 | – | 2.0 | .81 |
| 28 | TL28XH300-3535 | **113863** | 17.3 | 7.799 | 8.27 | KF-1 | 1-3/16 | 3-15/16 | .13 | – | 3.5 | – |
| 30 | TL30XH300-3535 | **113866** | 22.5 | 8.356 | 9.31 | KF-1 | 1-3/16 | 3-15/16 | .13 | – | 3.5 | – |
| 32 | TL32XH300-3535 | **113869** | 26.5 | 8.913 | 9.52 | KF-1 | 1-3/16 | 3-15/16 | .13 | – | 3.5 | – |
| 40 | TL40XH300-4040 | **113872** | 43.5 | 11.141 | 11.80 | CF-1 | 1-7/16 | 4-7/16 | .38 | 7.50 | 4.0 | – |
| 48 | TL48XH300-4040 | **113873** | 51.5 | 13.369 | **None** | C-1 | 1-7/16 | 4-7/16 | .19 | 8.50 | 4.0 | .19 |
| 60 | TL60XH300-4040 | **113874** | 55.5 | 16.711 | | C-3 | 1-7/16 | 4-7/16 | .19 | 8.50 | 4.0 | .19 |

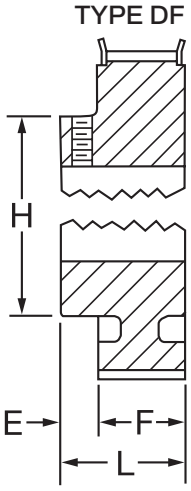
**† Dash 1 = Block, 2 = Web, 3 = Arm.**
Letter "F" indicates pulley is flanged.

**XXH Pullley Note:** Discontinued Product. Recommend that drive be redesigned to HT100 or HT150. Refer to HT section of this catalog.

# Specifications

## DYNA-SYNC Pulleys - XL037

Minimum Plain Bore




TYPE DF
Minimum Plain Bore

**XL037 - 1/5" Pitch (.375" Wide Belt) - Minimun Plain Bore** **F = 0.56"**

| No of Teeth | Description | Part Number | Approx. Weight | Pitch Dia (PD) | Flg O.D. | Type | Stock Bore * | Max Bore * | Dimension | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | H | L | E |
| 10 | 10XL037-MPB | **114300** | .08 | 0.637 | .88 | DF-1 | 3/16 | 3/16 | .44 | .81 | .25 |
| 11 | 11XL037-MPB | **113401** | .09 | 0.700 | .94 | DF-1 | 3/16 | 3/16 | .50 | .81 | .25 |
| 12 | 12XL037-MPB | **113402** | .10 | 0.764 | 1.00 | DF-1 | 3/16 | 1/2 | .50 | .81 | .25 |
| 14 | 14XL037-MPB | **113403** | .13 | 0.891 | 1.03 | DF-1 | 1/4 | 1/4 | .56 | .81 | .25 |
| 15 | 15XL037-MPB | **113404** | .14 | 0.955 | 1.19 | DF-1 | 1/4 | 5/16 | .63 | .81 | .25 |
| 16 | 16XL037-MPB | **113405** | .17 | 1.019 | 1.25 | DF-1 | 1/4 | 3/8 | .69 | .81 | .25 |
| 18 | 18XL037-MPB | **113406** | .20 | 1.146 | 1.38 | DF-1 | 1/4 | 1/2 | .81 | .81 | .25 |
| 20 | 20XL037-MPB | **113407** | .25 | 1.273 | 1.50 | DF-1 | 1/4 | 9/16 | .94 | .88 | .32 |
| 21 | 21XL037-MPB | **113408** | .26 | 1.337 | 1.56 | DF-1 | 1/4 | 9/16 | 1.00 | .88 | .32 |
| 22 | 22XL037-MPB | **113409** | .30 | 1.401 | 1.63 | DF-1 | 1/4 | 5/8 | 1.00 | .88 | .32 |
| 24 | 24XL037-MPB | **113410** | .35 | 1.528 | 1.75 | DF-1 | 1/4 | 11/16 | 1.06 | .91 | .35 |
| 28 | 28XL037-MPB | **113411** | .46 | 1.783 | 2.00 | DF-1 | 1/4 | 13/16 | 1.19 | .91 | .35 |
| 30 | 30XL037-MPB | **113412** | .55 | 1.910 | 2.13 | DF-1 | 5/16 | 15/16 | 1.31 | .91 | .35 |
| 32 | 32XL037-MPB | • **113413** | .71 | 2.037 | – | D-1 | 5/16 | 1-3/16 | 1.50 | 1.00 | .44 |
| 36 | 36XL037-MPB | • **113414** | .85 | 2.292 | – | D-1 | 5/16 | 1-3/16 | 1.50 | 1.00 | .44 |
| 40 | 40XL037-MPB | • **113415** | .99 | 2.546 | – | D-1 | 5/16 | 1-3/16 | 1.50 | 1.00 | .44 |
| 42 | 42XL037-MPB | • **113416** | 1.09 | 2.674 | – | D-1 | 5/16 | 1-3/16 | 1.50 | 1.00 | .44 |
| 44 | 44XL037-MPB | • **113417** | 1.17 | 2.801 | – | D-1 | 5/16 | 1-3/16 | 1.50 | 1.00 | .44 |
| 48 | 48XL037-MPB | • **113418** | 1.19 | 3.056 | – | D-1 | 5/16 | 1-3/16 | 1.50 | 1.00 | .44 |
| 60 | 60XL037-MPB | • **113419** | 2.02 | 3.820 | – | D-2 | 3/8 | 1-3/16 | 1.50 | 1.00 | .44 |
| 72 | 72XL037-MPB | • **113420** | 2.81 | 4.584 | – | D-2 | 3/8 | 1-3/16 | 1.50 | 1.00 | .44 |

Above pulleys are supplied with two (2) set screws at 90 deg.

Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

* Standard keyways are listed on page PT1-83

• Aluminum

# Specifications

## DYNA-SYNC Pulleys - Reborable

## Minimum Plain Bore

| No of Teeth | Description | Part Number | Approx. Weight | Pitch Dia (PD) | Flg O.D. | Type | Stock Bore | Max Bore | Dimension H | Dimension L | Dimension E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **L050 - 3/8" Pitch (.5" Wide Belt) - Minimun Plain Bore** | | | | | | | | | | | **F = 0.75"** |
| 10 | 10L050-MPB | **113450** | .26 | 1.194 | 1.44 | DF-1 | 3/8 | 1/2 | .81 | 1.25 | .50 |
| 12 | 12L050-MPB | **113451** | .38 | 1.432 | 1.66 | DF-1 | 3/8 | 3/4 | 1.00 | 1.25 | .50 |
| 13 | 13L050-MPB | **114441** | .50 | 1.552 | 1.78 | DF-1 | 3/8 | 3/4 | 1.13 | 1.25 | .50 |
| 14 | 14L050-MPB | **113452** | .55 | 1.671 | 1.91 | DF-1 | 3/8 | 3/4 | 1.13 | 1.25 | .50 |
| 15 | 15L050-MPB | **114442** | .66 | 2.030 | 2.03 | DF-1 | 1/2 | 7/8 | 1.34 | 1.25 | .50 |
| 16 | 16L050-MPB | **113453** | .69 | 1.790 | 2.13 | DF-1 | 1/2 | 1 | 1.44 | 1.25 | .50 |
| 17 | 17L050-MPB | **114301** | .84 | 1.910 | 2.25 | DF-1 | 1/2 | 1 | 1.44 | 1.25 | .50 |
| 18 | 18L050-MPB | **114302** | .87 | 2.149 | 2.38 | DF-1 | 1/2 | 1 | 1.56 | 1.25 | .50 |
| 19 | 19L050-MPB | **114303** | 1.11 | 2.268 | 2.50 | DF-1 | 1/2 | 1 | 1.69 | 1.25 | .50 |
| 20 | 20L050-MPB | **114304** | 1.20 | 2.378 | 2.63 | DF-1 | 1/2 | 1 | 1.69 | 1.25 | .50 |
| 21 | 21L050-MPB | **114305** | 1.41 | 2.507 | 2.75 | DF-1 | 1/2 | 1-1/4 | 2.00 | 1.25 | .50 |
| 22 | 22L050-MPB | **114306** | 1.50 | 2.626 | 2.88 | DF-1 | 1/2 | 1-1/4 | 2.00 | 1.25 | .50 |
| 24 | 24L050-MPB | **114307** | 1.80 | 2.865 | 3.09 | DF-1 | 1/2 | 1-3/8 | 2.25 | 1.25 | .50 |
| 26 | 26L050-MPB | **114308** | 2.07 | 3.104 | 3.33 | DF-1 | 1/2 | 1-3/8 | 2.25 | 1.25 | .50 |
| 28 | 28L050-MPB | **114309** | 2.33 | 3.342 | 3.57 | DF-1 | 1/2 | 1-3/8 | 2.25 | 1.25 | .50 |
| 30 | 30L050-MPB | **114310** | 2.58 | 3.581 | 3.80 | DF-1 | 1/2 | 1-3/8 | 2.25 | 1.25 | .50 |
| 32 | 32L050-MPB | **114311** | 3.13 | 3.820 | 4.04 | DF-1 | 1/2 | 1-5/8 | 2.63 | 1.25 | .50 |
| 36 | 36L050-MPB | **114443** | 4.39 | 4.297 | 4.52 | DF-1 | 1/2 | 2-5/16 | 3.50 | 1.25 | .50 |
| 40 | 40L050-MPB | **114444** | 5.16 | 4.775 | 5.00 | DF-1 | 1/2 | 2-3/8 | 3.63 | 1.25 | .50 |
| **L075 - 3/8" Pitch (.75" Wide Belt) - Minimun Plain Bore** | | | | | | | | | | | **F = 1.00"** |
| 12 | 12L075-MPB | **113500** | .46 | 1.432 | 1.66 | DF-1 | 3/8 | 1/2 | 1.00 | 1.50 | .50 |
| 13 | 13L075-MPB | **114445** | .62 | 1.552 | 1.78 | DF-1 | 3/8 | 3/4 | 1.13 | 1.50 | .50 |
| 14 | 14L075-MPB | **113501** | .69 | 1.671 | 1.91 | DF-1 | 3/8 | 3/4 | 1.13 | 1.50 | .50 |
| 15 | 15L075-MPB | **114446** | .81 | 1.790 | 2.03 | DF-1 | 1/2 | 7/8 | 1.34 | 1.50 | .50 |
| 16 | 16L075-MPB | **113502** | .84 | 1.910 | 2.13 | DF-1 | 1/2 | 1 | 1.44 | 1.50 | .50 |
| 17 | 17L075-MPB | **114312** | 1.03 | 2.029 | 2.25 | DF-1 | 1/2 | 1 | 1.44 | 1.50 | .50 |
| 18 | 18L075-MPB | **114313** | 1.17 | 2.149 | 2.38 | DF-1 | 1/2 | 1 | 1.56 | 1.50 | .50 |
| 19 | 19L075-MPB | **114314** | 1.32 | 2.268 | 2.50 | DF-1 | 1/2 | 1 | 1.69 | 1.50 | .50 |
| 20 | 20L075-MPB | **114315** | 1.44 | 2.387 | 2.63 | DF-1 | 1/2 | 1-1/4 | 1.69 | 1.50 | .50 |
| 21 | 21L075-MPB | **114316** | 1.68 | 2.507 | 2.75 | DF-1 | 5/8 | 1-1/4 | 2.00 | 1.50 | .50 |
| 22 | 22L075-MPB | **114317** | 1.79 | 2.626 | 2.88 | DF-1 | 5/8 | 1-3/8 | 2.00 | 1.50 | .50 |
| 24 | 24L075-MPB | **114318** | 2.22 | 2.865 | 3.09 | DF-1 | 5/8 | 1-3/8 | 2.25 | 1.50 | .50 |
| 26 | 26L075-MPB | **114319** | 2.48 | 3.104 | 3.33 | DF-1 | 5/8 | 1-3/8 | 2.25 | 1.50 | .50 |
| 28 | 28L075-MPB | **114320** | 2.84 | 3.342 | 3.57 | DF-1 | 5/8 | 1-3/8 | 2.25 | 1.50 | .50 |
| 30 | 30L075-MPB | **114321** | 3.24 | 3.581 | 3.80 | DF-1 | 5/8 | 1-3/8 | 2.25 | 1.50 | .50 |
| 32 | 32L075-MPB | **114322** | 3.77 | 3.820 | 4.04 | DF-1 | 5/8 | 1-5/8 | 2.63 | 1.50 | .50 |
| 36 | 36L075-MPB | **114447** | 5.33 | 4.297 | 4.52 | DF-1 | 5/8 | 2-5/16 | 3.50 | 1.50 | .50 |
| 40 | 40L075-MPB | **114448** | 6.31 | 4.775 | 5.00 | DF-1 | 5/8 | 2-3/8 | 3.63 | 1.50 | .50 |
| **L100 - 3/8" Pitch (1" Wide Belt) - Minimun Plain Bore** | | | | | | | | | | | **F = 1.25"** |
| 13 | 13L100- MPB | **114449** | .72 | 1.552 | 1.78 | DF-1 | 3/8 | 3/4 | 1.13 | 1.75 | .50 |
| 14 | 14L100- MPB | **113550** | .82 | 1.671 | 1.91 | DF-1 | 3/8 | 3/4 | 1.13 | 1.75 | .50 |
| 15 | 15L100- MPB | **114450** | .96 | 1.790 | 2.03 | DF-1 | 1/2 | 7/8 | 1.34 | 1.75 | .50 |
| 16 | 16L100- MPB | **113551** | .98 | 1.910 | 2.13 | DF-1 | 1/2 | 1 | 1.44 | 1.75 | .50 |
| 17 | 17L100- MPB | **114323** | 1.23 | 2.029 | 2.25 | DF-1 | 1/2 | 1 | 1.44 | 1.75 | .50 |
| 18 | 18L100- MPB | **114324** | 1.38 | 2.149 | 2.38 | DF-1 | 1/2 | 1 | 1.56 | 1.75 | .50 |
| 19 | 19L100- MPB | **114325** | 1.56 | 2.268 | 2.50 | DF-1 | 1/2 | 1 | 1.69 | 1.75 | .50 |
| 20 | 20L100- MPB | **114326** | 1.71 | 2.387 | 2.63 | DF-1 | 1/2 | 1 | 1.69 | 1.75 | .50 |
| 21 | 21L100- MPB | **114327** | 1.97 | 2.507 | 2.75 | DF-1 | 5/8 | 1-1/4 | 2.00 | 1.75 | .50 |
| 22 | 22L100- MPB | **114328** | 2.13 | 2.626 | 2.88 | DF-1 | 5/8 | 1-1/4 | 2.00 | 1.75 | .50 |
| 24 | 24L100- MPB | **114329** | 2.60 | 2.865 | 3.09 | DF-1 | 5/8 | 1-3/8 | 2.25 | 1.75 | .50 |
| 26 | 26L100- MPB | **114330** | 3.12 | 3.104 | 3.33 | DF-1 | 5/8 | 1-5/8 | 2.44 | 1.75 | .50 |
| 28 | 28L100- MPB | **114331** | 3.65 | 3.342 | 3.57 | DF-1 | 5/8 | 1-3/4 | 2.69 | 1.75 | .50 |
| 30 | 30L100- MPB | **114332** | 4.19 | 3.581 | 3.80 | DF-1 | 5/8 | 1-7/8 | 2.81 | 1.75 | .50 |
| 32 | 32L100- MPB | **114333** | 4.86 | 3.820 | 4.04 | DF-1 | 5/8 | 2 | 3.13 | 1.75 | .50 |
| 36 | 36L100- MPB | **114451** | 6.24 | 4.297 | 4.52 | DF-1 | 5/8 | 2-5/16 | 3.50 | 1.75 | .50 |
| 40 | 40L100- MPB | **114452** | 7.52 | 4.775 | 5.00 | DF-1 | 5/8 | 2-5/16 | 3.63 | 1.75 | .50 |

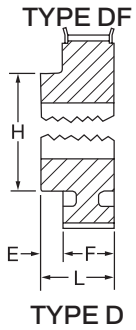
Available from stock in Min. Plain Bore (MPB) only.

Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

# Specifications

## DYNA-SYNC Pulleys - Reborable

## Minimum Plain Bore



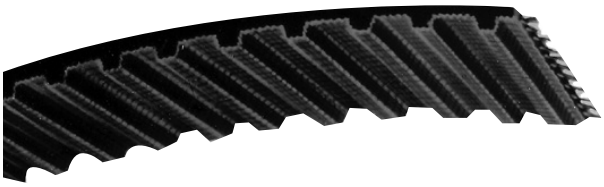

| No of Teeth | Description | Part Number | Approx Weight | Pitch Dia (PD) | Flg O.D. | Type | Stock Bore | Max Bore | Dimension H | Dimension L | Dimension E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **H100 - 1/2" Pitch (1" Wide Belt) - Minimum Plain Bore** | | | | | | | | | | | **F = 1.25"** |
| 14 | 14H100-MPB | **114334** | 1.48 | 2.228 | 2.46 | DF-1 | 5/8 | 7/8 | 1.63 | 1.88 | .63 |
| 16 | 16H100-MPB | **114335** | 2.12 | 2.546 | 2.78 | DF-1 | 5/8 | 1-1/8 | 1.88 | 2.00 | .75 |
| 17 | 17H100-MPB | **114453** | 2.42 | 2.706 | 2.94 | DF-1 | 5/8 | 1-1/4 | 2.00 | 2.00 | .75 |
| 18 | 18H100-MPB | **114336** | 2.86 | 2.865 | 3.10 | DF-1 | 5/8 | 1-3/8 | 2.25 | 2.00 | .75 |
| 19 | 19H100-MPB | **114337** | 3.21 | 3.024 | 3.26 | DF-1 | 5/8 | 1-1/2 | 2.38 | 2.00 | .75 |
| 20 | 20H100-MPB | **114338** | 3.68 | 3.183 | 3.42 | DF-1 | 5/8 | 1-5/8 | 2.50 | 2.13 | .88 |
| 21 | 21H100-MPB | **114339** | 4.08 | 3.342 | 3.57 | DF-1 | 3/4 | 1-11/16 | 2.63 | 2.13 | .88 |
| 22 | 22H100-MPB | **114340** | 4.67 | 3.501 | 3.74 | DF-1 | 3/4 | 1-3/4 | 2.75 | 2.25 | 1.00 |
| 24 | 24H100-MPB | **114341** | 5.60 | 3.820 | 4.05 | DF-1 | 3/4 | 1-7/8 | 3.00 | 2.25 | 1.00 |
| 26 | 26H100-MPB | **114342** | 7.16 | 4.138 | 4.37 | DF-1 | 3/4 | 2-1/4 | 3.38 | 2.38 | 1.13 |
| 28 | 28H100-MPB | **114343** | 8.15 | 4.456 | 4.69 | DF-1 | 3/4 | 2-5/16 | 3.50 | 2.38 | 1.13 |
| 30 | 30H100-MPB | **114454** | 9.15 | 4.775 | 5.01 | DF-1 | 3/4 | 2-3/8 | 3.63 | 2.38 | 1.13 |
| **H150 - 1/2" Pitch (1.5" Wide Belt) - Minimum Plain Bore** | | | | | | | | | | | **F = 1.75"** |
| 14 | 14H150-MPB | **114344** | 1.85 | 2.228 | 2.46 | DF-1 | 3/4 | 7/8 | 1.63 | 2.38 | .63 |
| 16 | 16H150-MPB | **114345** | 2.63 | 2.546 | 2.78 | DF-1 | 3/4 | 1-1/8 | 1.88 | 2.50 | .75 |
| 17 | 17H150-MPB | **114455** | 3.06 | 2.706 | 2.94 | DF-1 | 3/4 | 1-1/4 | 2.00 | 2.50 | .75 |
| 18 | 18H150-MPB | **114346** | 3.55 | 2.865 | 3.10 | DF-1 | 3/4 | 1-3/8 | 2.25 | 2.50 | .75 |
| 19 | 19H150-MPB | **114347** | 4.01 | 3.024 | 3.26 | DF-1 | 3/4 | 1-1/2 | 2.38 | 2.50 | .75 |
| 20 | 20H150-MPB | **114348** | 4.62 | 3.183 | 3.42 | DF-1 | 3/4 | 1-5/8 | 2.50 | 2.63 | .88 |
| 21 | 21H150-MPB | **114349** | 5.15 | 3.342 | 3.57 | DF-1 | 3/4 | 1-11/16 | 2.63 | 2.63 | .88 |
| 22 | 22H150-MPB | **114350** | 5.89 | 3.501 | 3.74 | DF-1 | 3/4 | 1-3/4 | 2.75 | 2.75 | 1.00 |
| 24 | 24H150-MPB | **114351** | 7.09 | 3.820 | 4.05 | DF-1 | 3/4 | 1-7/8 | 3.00 | 2.75 | 1.00 |
| 26 | 26H150-MPB | **114352** | 8.62 | 4.138 | 4.37 | DF-1 | 3/4 | 2-1/4 | 3.38 | 2.75 | 1.00 |
| 28 | 28H150-MPB | **114353** | 10.09 | 4.456 | 4.69 | DF-1 | 3/4 | 2-5/16 | 3.50 | 2.88 | 1.13 |
| 30 | 30H150-MPB | **114456** | 11.52 | 4.775 | 5.01 | DF-1 | 3/4 | 2-3/8 | 3.63 | 2.88 | 1.13 |
| **H200 - 1/2" Pitch (2" Wide Belt) - Minimum Plain Bore** | | | | | | | | | | | **F = 2.28"** |
| 14 | 14H200-MPB | **114354** | 2.35 | 2.228 | 2.44 | DF-1 | 3/4 | 7/8 | 1.63 | 2.91 | .63 |
| 16 | 16H200-MPB | **114355** | 3.29 | 2.546 | 2.88 | DF-1 | 3/4 | 1-1/8 | 1.88 | 3.03 | .75 |
| 17 | 17H200-MPB | **114457** | 3.77 | 2.706 | 3.00 | DF-1 | 3/4 | 1-1/4 | 2.00 | 3.03 | .75 |
| 18 | 18H200-MPB | **114356** | 3.90 | 2.865 | 3.13 | DF-1 | 3/4 | 1-3/8 | 2.25 | 3.03 | .75 |
| 19 | 19H200-MPB | **114357** | 3.90 | 3.024 | 3.38 | DF-1 | 3/4 | 1-1/2 | 2.38 | 3.03 | .75 |
| 20 | 20H200- MPB | **114358** | 5.34 | 3.183 | 3.38 | DF-1 | 3/4 | 1-5/8 | 2.50 | 3.16 | .88 |
| 21 | 21H200-MPB | **114359** | 6.10 | 3.342 | 3.63 | DF-1 | 1 | 1-11/16 | 2.63 | 3.16 | .88 |
| 22 | 22H200-MPB | **114360** | 6.30 | 3.501 | 3.81 | DF-1 | 1 | 1-3/4 | 2.75 | 3.28 | 1.00 |
| 24 | 24H200-MPB | **114361** | 8.35 | 3.820 | 4.06 | DF-1 | 1 | 1-7/8 | 3.00 | 3.28 | 1.00 |
| 26 | 26H200-MPB | **114362** | 10.44 | 4.138 | 4.38 | DF-1 | 1 | 2-1/4 | 3.38 | 3.41 | 1.13 |
| 28 | 28H200-MPB | **114363** | 12.01 | 4.456 | 4.69 | DF-1 | 1 | 2-5/16 | 3.50 | 4.44 | 2.16 |
| 30 | 30H200-MPB | **114458** | 13.80 | 4.775 | 5.00 | DF-1 | 1 | 2-3/8 | 3.63 | 4.44 | 2.16 |
| **H300 - 1/2" Pitch (3" Wide Belt) - Minimum Plain Bore** | | | | | | | | | | | **F = 3.31"** |
| 16 | 16H300-MPB | **114364** | 4.54 | 2.546 | 2.88 | DF-1 | 3/4 | 1-1/8 | 1.88 | 4.06 | .75 |
| 17 | 17H300-MPB | **114459** | 5.23 | 2.706 | 3.00 | DF-1 | 3/4 | 1-1/4 | 2.00 | 4.06 | .75 |
| 18 | 18H300-MPB | **114365** | 6.00 | 2.865 | 3.13 | DF-1 | 3/4 | 1-3/8 | 2.25 | 4.06 | .75 |
| 19 | 19H300-MPB | **114366** | 6.80 | 3.024 | 3.38 | DF-1 | 3/4 | 1-1/2 | 2.35 | 4.06 | .75 |
| 20 | 20H300-MPB | **114367** | 7.69 | 3.183 | 3.38 | DF-1 | 3/4 | 1-5/8 | 2.50 | 4.19 | .88 |
| 21 | 21H300-MPB | **114368** | 8.59 | 3.342 | 3.63 | DF-1 | 1 | 1-11/16 | 2.66 | 4.19 | .88 |
| 22 | 22H300-MPB | **114369** | 9.00 | 3.501 | 3.81 | DF-1 | 1 | 1-3/4 | 2.75 | 4.31 | 1.00 |
| 24 | 24H300-MPB | **114370** | 11.01 | 3.820 | 4.06 | DF-1 | 1-1/8 | 1-7/8 | 3.00 | 4.31 | 1.00 |
| 26 | 26H300-MPB | **114371** | 13.60 | 4.138 | 4.38 | DF-1 | 1-1/8 | 2-1/4 | 3.38 | 4.44 | 1.13 |
| 28 | 28H300-MPB | **114372** | 15.60 | 4.456 | 4.69 | DF-1 | 1-1/8 | 2-5/16 | 3.50 | 4.44 | 1.13 |
| 30 | 30H300-MPB | **114460** | 18.11 | 4.775 | 5.00 | DF-1 | 1-1/8 | 2-3/8 | 3.63 | 4.44 | 1.13 |

Available from stock in Min. Plain Bore (MPB) only.

Max. bore is without keyway. (if keyway is used, reduce max bore by twice the keyway depth.)

# Specifications

## DYNA-SYNC Belts



### XL Series DYNA-SYNC Belts

1/5" Pitch (XL)

| Belt Length | XL025 (1/4" Wide) Belt No. | Part No. | Wt. | XL037 (3/8" Wide) Belt No. | Part No. | Wt. |
|---|---|---|---|---|---|---|
| 6.0 | 60XL025 | **465335** | – | 60XL037 | **464521** | – |
| 7.0 | 70XL025 | **464501** | – | 70XL037 | **464522** | – |
| 8.0 | 80XL025 | **464502** | – | 80XL037 | **464523** | – |
| 9.0 | 90XL025 | **464503** | – | 90XL037 | **464524** | .01 |
| 10.0 | 100XL025 | **464504** | – | 100XL037 | **464525** | .01 |
| 11.0 | 110XL025 | **464505** | – | 110XL037 | **464526** | .01 |
| 12.0 | 120XL025 | **464506** | – | 120XL037 | **464527** | .01 |
| 13.0 | 130XL025 | **464507** | .01 | 130XL037 | **464528** | .01 |
| 14.0 | 140XL025 | **464508** | .01 | 140XL037 | **464529** | .01 |
| 15.0 | 150XL025 | **464509** | .01 | 150XL037 | **464530** | .01 |
| 16.0 | 160XL025 | **464510** | .01 | 160XL037 | **464531** | .01 |
| 17.0 | 170XL025 | **464511** | .01 | 170XL037 | **464532** | .01 |
| 18.0 | 180XL025 | **464512** | .01 | 180XL037 | **464533** | .02 |
| 19.0 | 190XL025 | **464513** | .01 | 190XL037 | **464534** | .02 |
| 20.0 | 200XL025 | **464514** | .01 | 200XL037 | **464535** | .02 |
| 21.0 | 210XL025 | **464515** | .01 | 210XL037 | **464536** | .02 |
| 22.0 | 220XL025 | **464516** | .01 | 220XL037 | **464537** | .02 |
| 23.0 | 230XL025 | **464517** | .01 | 230XL037 | **464538** | .02 |
| 24.0 | 240XL025 | **464518** | .01 | 240XL037 | **464539** | .02 |
| 25.0 | 250XL025 | **464519** | .01 | 250XL037 | **464540** | .02 |
| 26.0 | 260XL025 | **464520** | .02 | 260XL037 | **464541** | .02 |

### L Series DYNA-SYNC Belts

3/8" Pitch (L)

| Belt Length | L050 (1/2" Wide) | | | L075 (3/4" Wide) | | | L100 (1" Wide) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. |
| 12.4 | 124L050 | **464542** | .03 | 124L075 | **464562** | .05 | 124L100 | **464582** | .06 |
| 15.0 | 150L050 | **464543** | .04 | 150L075 | **464563** | .06 | 150L100 | **464583** | .08 |
| 18.7 | 187L050 | **464544** | .05 | 187L075 | **464564** | .07 | 187L100 | **464534** | .10 |
| 21.0 | 210L050 | **464545** | .05 | 210L075 | **464565** | .08 | 210L100 | **464585** | .09 |
| 22.5 | 225L050 | **464546** | .06 | 225L075 | **464566** | .09 | 225L100 | **464586** | .11 |
| 24.0 | 240L050 | **464547** | .06 | 240L075 | **464567** | .09 | 240L100 | **464587** | .11 |
| 25.5 | 255L050 | **464548** | .06 | 255L075 | **464568** | .10 | 255L100 | **464588** | .13 |
| 27.0 | 270L050 | **464549** | .07 | 270L075 | **464569** | .10 | 270L100 | **464589** | .14 |
| 28.5 | 285L050 | **464550** | .07 | 285L075 | **464570** | .11 | 285L100 | **464590** | .14 |
| 30.0 | 300L050 | **464551** | .08 | 300L075 | **464571** | .11 | 300L100 | **464591** | .15 |
| 32.2 | 322L050 | **464552** | .08 | 322L075 | **464572** | .12 | 322L100 | **464592** | .16 |
| 34.5 | 345L050 | **464553** | .09 | 345L075 | **464573** | .13 | 345L100 | **464593** | .17 |
| 36.7 | 367L050 | **464554** | .09 | 367L075 | **464574** | .14 | 367L100 | **464594** | .19 |
| 39.0 | 390L050 | **464555** | .10 | 390L075 | **464575** | .15 | 390L100 | **464595** | .20 |
| 42.0 | 420L050 | **464556** | .11 | 420L075 | **464576** | .16 | 420L100 | **464596** | .21 |
| 45.0 | 450L050 | **464557** | .11 | 450L075 | **464577** | .17 | 450L100 | **464597** | .23 |
| 48.0 | 480L050 | **464558** | .12 | 480L075 | **464578** | .18 | 480L100 | **464598** | .24 |
| 51.0 | 510L050 | **464559** | .13 | 510L075 | **464579** | .19 | 510L100 | **464599** | .26 |
| 54.0 | 540L050 | **464560** | .14 | 540L075 | **464580** | .21 | 540L100 | **464600** | .27 |
| 60.0 | 600L050 | **464561** | .15 | 600L075 | **464581** | .23 | 600L100 | **464601** | .30 |

# Specifications

## DYNA-SYNC Belts

### H Series DYNA-SYNC Belts

**1/2" Pitch (H)**

| Belt Length | H075 (3/4" Wide) | | | H100 (1" Wide) | | | H150 (1-1/2" Wide) | | | H200 (2" Wide) | | | H300 (3" Wide) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. |
| 24.0 | 240H075 | **464602** | .11 | 240H100 | **464621** | .14 | 240H150 | **464645** | .22 | 240H200 | **464772** | .29 | 240H300 | **464778** | .43 |
| 27.0 | 270H075 | **464603** | .12 | 270H100 | **464622** | .16 | 270H150 | **464646** | .24 | 270H200 | **464773** | .33 | 270H300 | **464779** | .49 |
| 30.0 | 300H075 | **464604** | .14 | 300H100 | **464623** | .18 | 300H150 | **464647** | .27 | 300H200 | **464774** | .36 | 300H300 | **464780** | .54 |
| 33.0 | 330H075 | **464605** | .14 | 330H100 | **464624** | .20 | 330H150 | **464648** | .30 | 330H200 | **464775** | .40 | 330H300 | **464781** | .60 |
| 36.0 | 360H075 | **464606** | .15 | 360H100 | **464625** | .22 | 360H150 | **464649** | .33 | 360H200 | **464664** | .43 | 360H300 | **464736** | .65 |
| 39.0 | 390H075 | **464607** | .18 | 390H100 | **464626** | .24 | 390H150 | **464650** | .35 | 390H200 | **464665** | .47 | 390H300 | **464737** | .71 |
| 42.0 | 420H075 | **464608** | .19 | 420H100 | **464627** | .25 | 420H150 | **464651** | .38 | 420H200 | **464666** | .51 | 420H300 | **464738** | .76 |
| 45.0 | 450H075 | **464609** | .20 | 450H100 | **464628** | .27 | 450H150 | **464652** | .41 | 450H200 | **464667** | .54 | 450H300 | **464739** | .81 |
| 48.0 | 480H075 | **464610** | .23 | 480H100 | **464629** | .31 | 480H150 | **464653** | .46 | 480H200 | **464668** | .62 | 480H300 | **464740** | .92 |
| 51.0 | 510H075 | **464611** | .23 | 510H100 | **464630** | .31 | 510H150 | **464654** | .46 | 510H200 | **464669** | .62 | 510H300 | **464741** | .92 |
| 54.0 | 540H075 | **464612** | .24 | 540H100 | **464631** | .33 | 540H150 | **464655** | .49 | 540H200 | **464670** | .65 | 540H300 | **464683** | .98 |
| 57.0 | 570H075 | **464613** | .26 | 570H100 | **464632** | .34 | 570H150 | **464656** | .52 | 570H200 | **464671** | .69 | 570H300 | **464684** | 1.03 |
| 60.0 | 600H075 | **464614** | .27 | 600H100 | **464633** | .36 | 600H150 | **464657** | .54 | 600H200 | **464672** | .72 | 600H300 | **464685** | 1.09 |
| 63.0 | 630H075 | **464615** | .29 | 630H100 | **464634** | .38 | 630H150 | **464658** | .57 | 630H200 | **464673** | .76 | 630H300 | **464686** | 1.14 |
| 66.0 | 660H075 | **464616** | .30 | 660H100 | **464635** | .40 | 660H150 | **464659** | .60 | 660H200 | **464674** | .80 | 660H300 | **464687** | 1.20 |
| 70.0 | 700H075 | **464617** | .32 | 700H100 | **464636** | .42 | 700H150 | **464660** | .63 | 700H200 | **464675** | .85 | 700H300 | **464688** | 1.27 |
| 75.0 | 750H075 | **464618** | .34 | 750H100 | **464637** | .45 | 750H150 | **464661** | .68 | 750H200 | **464676** | .91 | 750H300 | **464689** | 1.36 |
| 80.0 | 800H075 | **464619** | .36 | 800H100 | **464638** | .48 | 800H150 | **464662** | .72 | 800H200 | **464677** | .97 | 800H300 | **464742** | 1.45 |
| 85.0 | 850H075 | **464620** | .38 | 850H100 | **464639** | .51 | 850H150 | **464663** | .77 | 850H200 | **464678** | 1.03 | 850H300 | **464743** | 1.54 |
| 90.0 | 900H075 | **464759** | .41 | 900H100 | **464640** | .54 | 900H150 | **464766** | .82 | 900H200 | **464679** | 1.09 | 900H300 | **464744** | 1.63 |
| 100.0 | 1000H075 | **464760** | .45 | 1000H100 | **464641** | .60 | 1000H150 | **464767** | .91 | 1000H200 | **464680** | 1.21 | 1000H300 | **464745** | 1.81 |
| 110.0 | 1100H075 | **464761** | .50 | 1100H100 | **464642** | .66 | 1100H150 | **464768** | 1.00 | 1100H200 | **464681** | 1.33 | 1100H300 | **464746** | 1.99 |
| 125.0 | 1250H075 | **464762** | .57 | 1250H100 | **464643** | .75 | 1250H150 | **464769** | 1.13 | 1250H200 | **464682** | 1.51 | 1250H300 | **464747** | 2.26 |
| 140.0 | 1400H075 | **464763** | .63 | 1400H100 | **464644** | .85 | 1400H150 | **464770** | 1.27 | 1400H200 | **464776** | 1.69 | 1400H300 | **464748** | 2.54 |
| 170.0 | 1700H075 | **464764** | .77 | 1700H100 | **464765** | 1.03 | 1700H150 | **464771** | 1.54 | 1700H200 | **464777** | 2.05 | 1700H300 | **464749** | 3.08 |

### XH Series DYNA-SYNC Belts

**7/8" Pitch (XH)**

| Belt Length | XH200 (2" Wide) | | | XH300 (3" Wide) | | | XH400 (4" Wide) | | |
|---|---|---|---|---|---|---|---|---|---|
| | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. |
| 50.7 | 507XH200 | **464690** | 1.77 | 507XH300 | **464702** | 2.66 | 507XH400 | **464750** | 3.54 |
| 56.0 | 560XH200 | **464691** | 1.95 | 560XH300 | **464703** | 2.93 | 560XH400 | **464751** | 3.91 |
| 63.0 | 630XH200 | **464692** | 2.20 | 630XH300 | **464704** | 3.30 | 630XH400 | **464752** | 4.40 |
| 70.0 | 700XH200 | **464693** | 2.33 | 700XH300 | **464705** | 3.49 | 700XH400 | **464753** | 4.65 |
| 77.0 | 770XH200 | **464694** | 2.69 | 770XH300 | **464706** | 3.49 | 770XH400 | **464754** | 4.65 |
| 84.0 | 840XH200 | **464695** | 2.79 | 840XH300 | **464707** | 4.19 | 840XH400 | **464755** | 5.58 |
| 98.0 | 980XH200 | **464696** | 3.42 | 980XH300 | **464708** | 5.13 | 980XH400 | **464756** | 6.84 |
| 112.0 | 1120XH200 | **464697** | 3.72 | 1120XH300 | **464709** | 5.58 | 1120XH400 | **464757** | 7.45 |
| 126.0 | 1260XH200 | **464698** | 4.19 | 1260XH300 | **464710** | 6.28 | 1260XH400 | **464758** | 8.38 |
| 140.0 | 1400XH200 | **464699** | 4.65 | 1400XH300 | **464711** | 6.98 | 1400XH400 | **464782** | 9.31 |
| 154.0 | 1540XH200 | **464700** | 5.12 | 1540XH300 | **464712** | 7.68 | 1540XH400 | **464783** | 10.2 |
| 175.0 | 1750XH200 | **464701** | 5.82 | 1750XH300 | **464713** | 8.73 | 1750XH400 | **464784** | 10.6 |

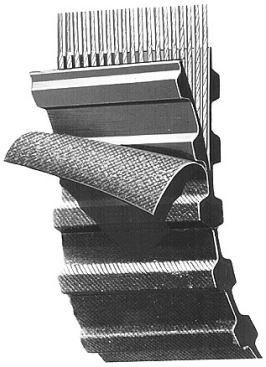
### XXH Series DYNA-SYNC Belts

**1-1/4" Pitch (XXH)**

| Belt Length | XXH200 (2" Wide) | | | XXH300 (3" Wide) | | | XXH400 (4" Wide) | | | XXH500 (5" Wide) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. |
| 70.0 | 700XXH200 | **465301** | 3.23 | 700XXH300 | **465302** | 4.85 | 700XXH400 | **465303** | 6.47 | 700XXH500 | **465304** | 8.09 |
| 80.0 | 800XXH200 | **465305** | 3.70 | 800XXH300 | **465306** | 5.54 | 800XXH400 | **465307** | 7.39 | 800XXH500 | **465308** | 9.24 |
| 90.0 | 900XXH200 | **465309** | 4.38 | 900XXH300 | **465310** | 6.58 | 900XXH400 | **465311** | 8.77 | 900XXH500 | **465312** | 11.0 |
| 100.0 | 1000XXH200 | **465313** | 4.87 | 1000XXH300 | **465314** | 7.31 | 1000XXH400 | **465315** | 9.74 | 1000XXH500 | **465316** | 12.2 |
| 120.0 | 1200XXH200 | **465337** | 5.54 | 1200XXH300 | **465317** | 8.32 | 1200XXH400 | **465318** | 11.1 | 1200XXH500 | **465319** | 13.9 |
| 140.0 | 1400XXH200 | **465323** | 6.47 | 1400XXH300 | **465320** | 9.70 | 1400XXH400 | **465321** | 12.9 | 1400XXH500 | **465322** | 16.2 |
| 160.0 | 1600XXH200 | **465324** | 7.39 | 1600XXH300 | **465325** | 11.1 | 1600XXH400 | **465326** | 14.8 | 1600XXH500 | **465327** | 18.5 |
| 180.0 | 1800XXH200 | **465338** | 8.32 | 1800XXH300 | **465329** | 12.5 | 1800XXH400 | **465330** | 16.6 | 1800XXH500 | **465331** | 20.8 |

# Specifications

## Dual DYNA-SYNC Belts



For Serpentine Drives

### DXL Series Dual DYNA-SYNC Belts

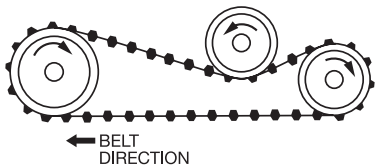
**1/5" Pitch (XL)**

| Belt Lgth. | XL025 (1/4" Wide) Belt No. | XL025 (1/4" Wide) Part No. | XL037 (3/8" Wide) Belt No. | XL037 (3/8" Wide) Part No. |
|---|---|---|---|---|
| 12.0 | D120XL025 | **110132** | D120XL037 | **110133** |
| 13.0 | D130XL025 | **110134** | D130XL037 | **110135** |
| 14.0 | D140XL025 | **110136** | D140XL037 | **110137** |
| 15.0 | D150XL025 | **110138** | D150XL037 | **110139** |
| 16.0 | D160XL025 | **110140** | D160XL037 | **110141** |
| 17.0 | D170XL025 | **110142** | D170XL037 | **110143** |
| 18.0 | D180XL025 | **110144** | D180XL037 | **110145** |
| 19.0 | D190XL025 | **110146** | D190XL037 | **110147** |
| 20.0 | D200XL025 | **110148** | D200XL037 | **110149** |
| 21.0 | D210XL025 | **110150** | D210XL037 | **110151** |
| 22.0 | D220XL025 | **110152** | D220XL037 | **110153** |
| 23.0 | D230XL025 | **110154** | D230XL037 | **110155** |
| 24.0 | D240XL025 | **110156** | D240XL037 | **110157** |
| 25.0 | D250XL025 | **110158** | D250XL037 | **110159** |
| 26.0 | D260XL025 | **110160** | D260XL037 | **110161** |
| 28.0 | D280XL025 | **110162** | D280XL037 | **110163** |
| 29.0 | D290XL025 | **110164** | D290XL037 | **110165** |
| 30.0 | D300XL025 | **110166** | D300XL037 | **110167** |
| 31.0 | D310XL025 | **110168** | D310XL037 | **110169** |
| 33.0 | D330XL025 | **110170** | D330XL037 | **110171** |
| | Avg. Wt. .03Lb. | | Avg. Wt. 0.5Lb. | |

### DL Series Dual DYNA-SYNC Belts

**3/8" Pitch (L)**

| Belt Lgth. | L050 (1/2" Wide) Belt No. | L050 (1/2" Wide) Part No. | L075 (3/4" Wide) Belt No. | L075 (3/4" Wide) Part No. | L100 (1" Wide) Belt No. | L100 (1" Wide) Part No. |
|---|---|---|---|---|---|---|
| 15.0 | D150L050 | **110187** | D150L075 | **110158** | D150L100 | **110189** |
| 18.7 | D187L050 | **110190** | D187L075 | **110191** | D187L100 | **110192** |
| 21.0 | D210L050 | **110193** | D210L075 | **110194** | D210L100 | **110195** |
| 22.5 | D225L050 | **110196** | D225L075 | **110197** | D255L100 | **110198** |
| 24.0 | D240L050 | **110199** | D240L075 | **110200** | D240L100 | **110201** |
| 25.5 | D255L050 | **110202** | D255L075 | **110203** | D255L100 | **110204** |
| 27.0 | D270L050 | **110205** | D270L075 | **110206** | D270L100 | **110207** |
| 28.5 | D285L050 | **110208** | D285L075 | **110209** | D285L100 | **110210** |
| 30.0 | D300L050 | **110211** | D300L075 | **110212** | D300L100 | **110213** |
| 32.2 | D322L050 | **110214** | D322L075 | **110215** | D322L100 | **110216** |
| 34.5 | D345L050 | **110217** | D345L075 | **110218** | D345L100 | **110219** |
| 36.7 | D367L050 | **110220** | D367L075 | **110221** | D367L100 | **110222** |
| 39.0 | D390L050 | **110223** | D390L075 | **110224** | D390L100 | **110225** |
| 42.0 | D420L050 | **110226** | D420L075 | **110227** | D420L100 | **110228** |
| 45.0 | D450L050 | **110229** | D450L075 | **110230** | D450L100 | **110231** |
| 48.0 | D480L050 | **110232** | D460L075 | **110233** | D480L100 | **110234** |
| 51.0 | D510L050 | **110235** | D510L075 | **110236** | D510L100 | **110237** |
| 54.0 | D540L050 | **110238** | D540L075 | **110239** | D540L100 | **110240** |
| 60.0 | D600L050 | **110241** | D600L075 | **110242** | D600L100 | **110243** |
| 66.0 | D660L050 | **110244** | D660L075 | **110245** | D660L100 | **110246** |
| | Avg. Wt. .14Lb. | | Avg. Wt. .21Lb. | | Avg. Wt. .26Lb. | |




### DH Series Dual DYNA-SYNC Belts

**1/2" Pitch (H)**

| Belt Lgth. | H075 (3/4" Wide) Belt No. | H075 (3/4" Wide) Part No. | H100 (1" Wide) Belt No. | H100 (1" Wide) Part No. | H150 (1-1/2" Wide) Belt No. | H150 (1-1/2" Wide) Part No. | H200(2" Wide) Belt No. | H200(2" Wide) Part No. | H300 (3" Wide) Belt No. | H300 (3" Wide) Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| 24.0 | D240H075 | **110247** | D240H100 | **110248** | D240H150 | **110249** | D240H200 | **110250** | D240H300 | **110251** |
| 27.0 | D270H075 | **110252** | D270H100 | **110253** | D270H150 | **110254** | D270H200 | **110255** | D270H300 | **110256** |
| 30.0 | D300H075 | **110257** | D300H100 | **110258** | D300H150 | **110259** | D300H200 | **110260** | D300H300 | **110261** |
| 33.0 | D330H075 | **110262** | D330H100 | **110263** | D330H150 | **110264** | D330H220 | **110565** | D330H300 | **110266** |
| 36.0 | D360H075 | **110267** | D360H100 | **110268** | D360H150 | **110269** | D360H200 | **110270** | D360H300 | **110271** |
| 39.0 | D390H075 | **110272** | D390H100 | **110273** | D390H150 | **110274** | D390H200 | **110275** | D390H300 | **110276** |
| 42.0 | D420H075 | **110277** | D420H100 | **110278** | D420H150 | **110279** | D420H200 | **110280** | D420H300 | **110281** |
| 45.0 | D450H075 | **110282** | D450H100 | **110283** | D450H150 | **110284** | D450H200 | **110285** | D450H300 | **110269** |
| 48.0 | D480H075 | **110287** | D480H100 | **110288** | D480H150 | **110289** | D480H200 | **110290** | D480H300 | **110291** |
| 51.0 | D510H075 | **110292** | D510H100 | **110293** | D510H150 | **110294** | D510H200 | **110295** | D510H300 | **110296** |
| 54.0 | D540H075 | **110297** | D540H100 | **110298** | D540H150 | **110299** | D540H220 | **110300** | D540H300 | **110301** |
| 57.0 | D570H075 | **110302** | D570H100 | **110303** | D570H150 | **110304** | D570H200 | **110305** | D570H300 | **110306** |
| 60.0 | D600H075 | **110307** | D600H100 | **110308** | D600H150 | **110309** | D600H200 | **110310** | D600H300 | **110311** |
| 63.0 | D630H075 | **110312** | D630H100 | **110313** | D630H150 | **110314** | D630H200 | **110315** | D630H300 | **110316** |
| 66.0 | D660H075 | **110317** | D660H100 | **110318** | D660H150 | **110319** | D660H200 | **110320** | D660H300 | **110321** |
| 70.0 | D700H075 | **110322** | D700H100 | **110323** | D700H150 | **110324** | D700H200 | **110325** | D700H300 | **110326** |
| 75.0 | D750H075 | **110327** | D750H100 | **110328** | D750H150 | **110329** | D750H200 | **110330** | D750H300 | **110331** |
| 80.0 | D800H075 | **110332** | D800H100 | **110333** | D800H150 | **110334** | D800H200 | **110335** | D800H300 | **110336** |
| 85.0 | D850H075 | **110337** | D850H100 | **110338** | D850H150 | **110339** | D850H200 | **110340** | D850H300 | **110341** |
| 90.0 | D900H075 | **110342** | D900H100 | **110343** | D900H150 | **110344** | D900H200 | **110345** | D900H300 | **110346** |
| 100.0 | D1000H075 | **110347** | D1000H100 | **110348** | D1000H150 | **110349** | D1000H200 | **110350** | D1000H300 | **110351** |
| 110.0 | D1100H075 | **110352** | D1100H100 | **110353** | D1100H150 | **110354** | D1100H200 | **110355** | D1100H300 | **110356** |
| 125.0 | D1250H075 | **110357** | D1250H100 | **110358** | D1250H150 | **110359** | D1250H200 | **110360** | D1250H300 | **110361** |
| 140.0 | D1400H075 | **110362** | D1400H100 | **110363** | D1400H150 | **110364** | D1400H200 | **110365** | D1400H300 | **110366** |
| 170.0 | D1700H075 | **110367** | D1700H100 | **110368** | D1700H150 | **110369** | D1700H200 | **110370** | D1700H300 | **110371** |
| | Avg. Wt. .35Lb. | | Avg. Wt. .47Lb. | | Avg. Wt. .70Lb. | | Avg. Wt. .94Lb. | | Avg. Wt. 1.41Lb. | |

## Using Standard Motor Speeds

**Step 1–Determine Service Factor** from steps on page PT3-144.

**Step 2–Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

**Step 3–Choose Belt Section.** Using Table 1, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

**Step 4–Select the Drive, a).** Using the belt section from Step 3, refer to Selection Tables beginning on page PT3-146. **b).** Under appropriate standard full-load motor RPM, find the driven RPM nearest to the desired speed. Trace right to columns headed "Pulley Combination." If more than one is listed, the combination with the largest pulleys usually will offer the best belt life. (Note that one pulley must be flanged on all drives. If center distance exceeds 8 times P.D. of small pulley or shafts are vertical or inclined, both must be flanged.) **c).** On same line trace right to the figure nearest the desired center distance and at top of column note belt number. **d).** Trace back on same line to appropriate column under heading "HP for a 1" Belt..." Divide the design HP obtained in Step 2 by the HP thus found in table. (Divide this value by Teeth in Mesh (T.I.M.) factor when applicable.) The result is the Belt Width Factor. Refer to table below right hand selection table to determine belt width required. If width shown is not stock go to next stock width listed. Add belt code, from table, to belt number found in Step 4c. (If wider stock belt is not shown in table, redesign drive to next larger pitch.) To check drive calculation: HP for a 1" Wide Belt x Belt Width factor x Teeth in Mesh factor = Actual HP rating of the drive. If actual rating is equal to or greater than Design HP, selection is O.K.

**NOTE:** Good practice dictates that shaft and bushing system (or alternate shaft mounting method) be verified for adequate rating.

## Using Standard Motor Speeds

### *Example of Selection*

Select a drive for a 3 cylinder reciprocating compressor to run 8 hours a day at about 270 RPM and to be driven by a 5 HP, 1160 RPM Design B squirrel cage motor. Centers are about 25".

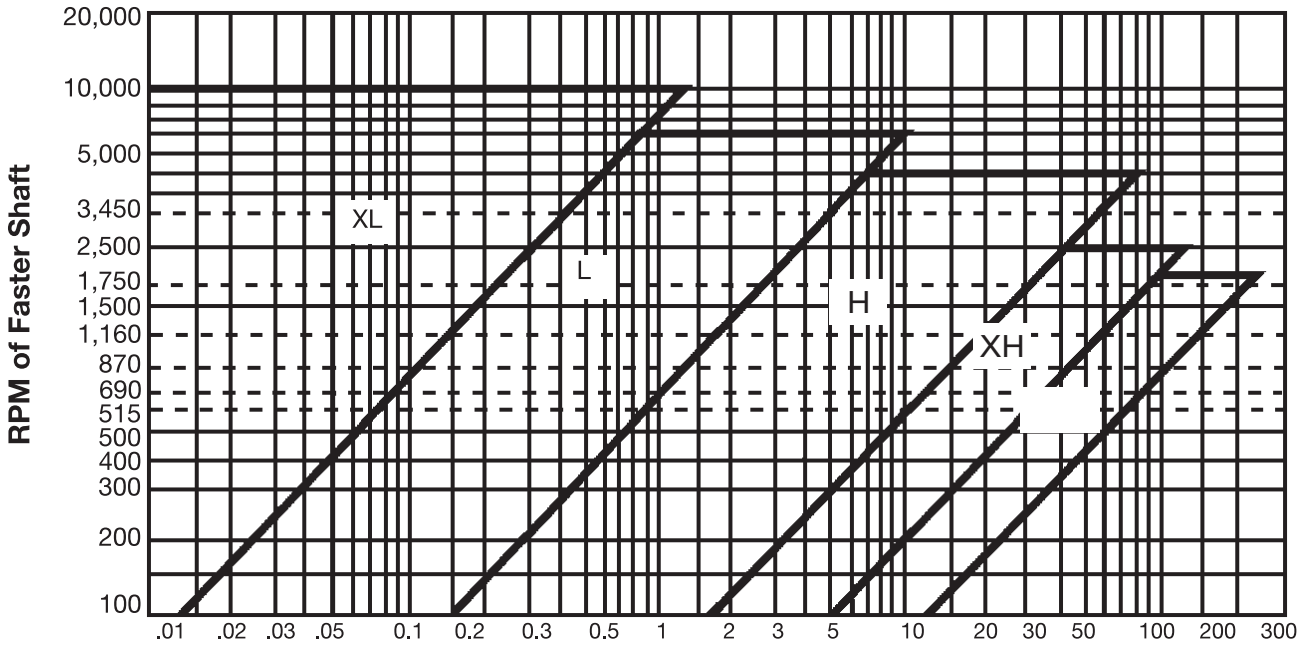
**Step 1**–Service Factor from page PT3-144 is 2.2.

**Step 2**–Design HP = 5 x 2.2 = 11 HP.

**Step 3**–An "H" Cross Section is shown in Table 1 when reading to the right of 1160 RPM of faster shaft and up from 11 design HP.

**Step 4**–The H-Section drive tables begin on page PT3-158. On page PT10-34, the nearest driven speed for a 1160 RPM motor is 271 RPM. Two possible pulley combinations are listed. The 28H driver/120H driven is preferred. On the same line the nearest center distance to 25" is 25.45". Note the 900 H belt at top of column. Tracing back on the same line, under 1160 RPM, the "HP for a 1" Belt" is 5.68. 11 design HP 5.68 = 1.937 Belt Width Factor. Belt Width Table indicates a 2" wide belt is required. Add code number 200 to belt and pulley number and order the following: (1) TL28H200 DYNA-SYNC Pulley, (1) 2012 Taper-Lock (1) TL120H200 pulley. (1) TAPER-LOCK 3020 bushing. (1) 900H200 DYNA-SYNC Belt. To facilitate delivery, order by part numbers listed in Pulley, Bushing and Belt sections of this catalog.

### Table 1 - Synchronous Cross Section Selection Chart



# Selection

## Service Factor

To determine the service factor for a DYNA-SYNC drive follow the three steps below.

**Step 1.** Determine the class of Driver from Table 2 below.

**Step 2.** Use Class of Driver and Type of Application in Table 4 at right to find the tentative service factor.

**Step 3.** Add the Additional Service Factor, when applicable, from Table 3 at bottom of page to the tentative service factor from Step 2 to determine the service factor for the application.

**Table 2 - Class of Driver**

| Driver | Class I | Class II | Class III |
|---|---|---|---|
| A-C Electric Motors, | – | – | – |
| Single Phase | – | – | All |
| Squirrel Cage, | – | – | – |
| NEMA Design A, | – | – | – |
| 3500 RPM | 40 HP up | 30 HP or less | – |
| 1750 RPM | 100 HP up | 5 to 75 HP | 3 HP or less |
| 1160 RPM | 15 HP up | 10 HP or less | – |
| 870 RPM | 5 HP up | 3 HP or less | – |
| NEMA Design B, | | | |
| 3500 RPM | – | 5 HP up | 3 HP or less |
| 1750 RPM | – | 5 HP up | 3 HP or less |
| 1160 RPM | – | 5 HP up | 3 HP or less |
| 870 RPM | – | 2 HP up | 1-1/2 HP or less |
| NEMA Design C, | | | |
| 1750 RPM | – | 15 HP up | 10 HP or less |
| 1160 RPM | – | 7-1/2 HP up | 5 HP or less |
| 870 RPM | – | All | – |
| NEMA Design D | – | – | All |
| NEMA Design F | All | – | – |
| Wound Rotor, | | | |
| 1750 RPM | – | 20 HP | 15 HP or less |
| 1160 RPM | – | 15 HP | 10 HP or less |
| 870 RPM | – | 7-1/2 HP | 5 HP or less |
| Synchronous | – | Norm. Torque | High Torque |
| D-C Electric Motors | Shunt | Compound | Series |
| Engines-Int. Comb | 8 Cyl. up | 6 Cyl | 4 Cyl. or less |
| Hydraulic Motors | – | – | All |
| Line Shafts | – | – | All |

**Table 3 - Additional Service Factors †**

| Condition | Additional Factor |
|---|---|
| 24 hour continuous operation | 0.2 |
| Use of an idler | 0.2 |
| Intermittent or seasonal operation | ◊ |
| Speed up drive: | |
| 1 to 1.24 ratio | 0.0 |
| 1.25 to 1.74 ratio | 0.1 |
| 1.75 to 2.49 ratio | 0.2 |
| 2.50 to 3.49 ratio | 0.3 |
| Over 3.49 ratio | 0.4 |

† Additional service factors other than listed here are required for unusual condition such as torque reversal, heavy shock, when current to motor is reversed to either stop the motor rapidly or to run it in opposite direction, or when a brake is to be used. For such applications consult factory.

◊ Subtract 0.2 from tentative service factor.

**Table 4 - Service Factors***

| Application | Class | | |
|---|---|---|---|
| | I | II | III |
| AGITATORS, MIXERS (Paddle or Propeller) | | | |
| Liquid | 1.4 | 1.6 | 1.8 |
| Semi-liquid | 1.5 | 1.7 | 1.9 |
| BAKERY MACHINERY DOUGH MIXERS | 1.4 | 1.6 | 1.8 |
| BRICK AND CLAY MACHINERY | | | |
| Augers, Mixers, Granulators | 1.5 | 1.7 | 1.9 |
| Pug Mills | 1.8 | 2.0 | 2.2 |
| CENTRIFUGES | 1.8 | 1.9 | – |
| COMPRESSORS | | | |
| Reciprocating | 2.0 | 2.2 | 2.4 |
| Centrifugal | 1.8 | 1.7 | 1.8 |
| CONVEYORS | | | |
| Light-Package Belt, oven | 1.3 | 1.5 | 1.7 |
| Belt, Ore, Coal, Sand | 1.8 | 1.7 | 1.8 |
| Apron, Bucket, Elevator, Pan | 1.7 | 1.8 | 1.9 |
| Flight, Screw | 1.7 | 1.9 | 2.0 |
| FANS, BLOWERS | | | |
| Centrifugal, Induced Draft Exhausters | 1.8 | 1.8 | 2.0 |
| Propeller, Mine fans, Positive Blowers | 1.8 | 2.0 | 2.2 |
| GENERATORS AND EXCITERS | 1.6 | 1.8 | 2.0 |
| HAMMER MILLS | 1.7 | 1.9 | 2.1 |
| LAUNDRY MACHINERY | | | |
| General | 1.5 | 1.6 | 1.7 |
| Extractors, Washers | 1.6 | 1.8 | 2.0 |
| LINE SHAFTS | 1.5 | 1.7 | 1.9 |
| MACHINE TOOLS | | | |
| Drill Presses, Lathes, Screw Machines | 1.4 | 1.6 | 1.8 |
| Boring Mills, Grinders | 1.5 | 1.7 | 1.9 |
| Milling Machines, Shapers | 1.5 | 1.7 | 1.9 |
| MILLS | | | |
| Ball, Rod, Pebble. etc. | – | 2.2 | 2.5 |
| PAPER MACHINERY | | | |
| Agitators, Calenders, Dryers | 1.4 | 1.6 | 1.8 |
| Beaters, Jordans, Nash Pumps, Pulpers | 1.7 | 1.9 | 2.1 |
| PRINTING MACHINERY | | | |
| Presses: Newspaper, Rotary, Embossing, | | | |
| Flat Bed, Magazine; Linotype | | | |
| Machines; Cutters; Folders | 1.4 | 1.6 | 1.8 |
| PUMPS | | | |
| Centrifugal, Gear, Rotary, Pipeline | 1.5 | 1.7 | 1.9 |
| Reciprocating | 2.0 | 2.2 | 2.4 |
| RUBBER PLANT MACHINERY | 1.6 | 1.8 | 2.0 |
| SAW MILL MACHINERY | 1.6 | 1.8 | 2.0 |
| SCREENS | | | |
| Vibrating (Shakers) | 1.5 | 1.7 | – |
| Drum, Conical | 1.4 | 1.5 | – |
| TEXTILE MACHINERY | | | |
| Looms, Spinning Frames, Twisters | 1.6 | 1.8 | 2.0 |
| Wrappers, Reels | 1.5 | 1.7 | – |
| WOODWORKING MACHINERY | | | |
| Lathes, Band Saws | 1.3 | 1.4 | – |
| Jointers, Circular Saws, Planers | 1.4 | 1.6 | – |

## For Speeds Other Than Standard Motor Speeds and Speed-Up Drives

### For Speeds Other Than Standard Motor Speeds

**Step 1 – Calculate Speed Ratio** = $\frac{\text{Driver RPM}}{\text{Driven RPM}}$

**Step 2 – Determine Service Factor** from steps on page PT3-144.

**Step 3 – Calculate Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 2.

**Step 4 –** Using Table 1 on page PT3-153 read up from design HP obtained in Step 3 and over from RPM of faster shaft. This intersection indicates belt section.

**Step 5 – Select the Drive. a.)** Using the belt section obtained in Step 4, refer to Selection Tables beginning on PT3-146. **b.)** Read down ratio column to the value nearest to one calculated in Step 1. Trace right to columns headed "Pulley Combinations." If more than one is listed, the combination with the largest pulleys usually will offer the best belt life. (Note that one pulley must be flanged on all drives. If center distance exceeds 8 times P.D. of small pulley or shafts are vertical or inclined, both must be flanged.) **c.)** On the same line trace right to figure nearest the desired center distance and at top of column note belt number. **d.)** Now go to the HP Table for the appropriate belt section. Reading to the right of the speed of the faster pulley and down from the pulley size, the HP figure for a 1" belt will appear. Divide the design HP from Step 3 by the HP thus found in table. (Divide this value by Teeth in Mesh factor, when applicable.) The result is the Belt Width Factor. Refer to table below the HP Table to determine belt width factor required. If width shown is not in stock go to next stock width listed. Add belt code, from table, to belt number found in Step 5c. (If wider stock belt is not shown in table, redesign drive to next larger pitch).

### *Example of Selection*

A printing machine embossing roll runs at 426 RPM, powered from an 800 RPM line shaft. The roll required 7 HP. Machine runs 8-10 hrs. a day. Center distance is approx. 20".

**Step 1** – Speed Ratio = = 1.88

**Step 2** – Service Factor = 1.8

**Step 3** – Design HP = 7 x 1.8 = 12.6

**Step 4** – Belt Selection from Table 1 = H

**Step 5** – The H Section Drive Tables begin on page PT3-146. The ratio of 1.88 obtained in Step 1 is found on page PT3-146. Two pulley combinations are listed. The 32H driver /60H driven is preferred. On the same line the nearest center distance to 20" is 19.88. Note the 630H belt at top of column. Refer to H section HP Tables on page PT3-146. Opposite 800 RPM of faster shaft and under 32H pulley, the HP 4.50 = 2.8. This is the belt width factor. Referring to the H belt width table a 3" wide belt is stock. Add the 300 Code Width to the pulley and belt numbers and order the following:

(1) TL32H300 DYNA-SYNC Pulley, (1) 2517 TAPER-LOCK bushing (Check to see if bushing will fit equipment shafts). (1) TL60H300 Pulley.

(1) 3020 bushing

(1) 630H300 DYNA-SYNC Belt.

To facilitate delivery, use part numbers listed in Pulley, Bushing and Belt sections of this catalog.

### *Example of a Speed-Up Drive*

Select a drive for a continuous duty liquid agitator to run at about 2000 RPM and to be driven by a 10 HP, 1750 RPM squirrel cage motor Centers are about 10".

**Step 1** – Speed ratio is 2000 ÷ 1750 = 1.14.

**Step 2** – Service factor from page PT3-144 is 1.8

**Step 3** – Design HP= 10 x 1.8= 18 HP.

**Step 4** – An "H" Cross Section is shown in Table 1 when reading to the right of 2000 RPM and up from 18 design HP.

**Step 5** – Speed ratio calculated in Step 1 appears in Selection Table on page PT3-146. Two possible pulley combinations are listed. The 28H driver/32H driven is preferred. In a Speed-Up Drive, the 28H becomes the driven, the 32H, the driver. On the same line the nearest center distance to 10" is 10.5. Note the 360H belt at top of column. Referring to HP table on page PT3-146, the rating for a 1" wide belt is shown as 9.60 for a 28H pulley at 2000 RPM. 18 design HP ÷ 9.601.875 Belt Width Factor Belt Width Table indicates a 2" wide belt is required. Add code number 200 to belt and pulley number and order the following: (1) TL32H200 DYNA-SYNC Pulley, (1) 2517 TAPER-LOCK Bushing. (Check to see if bushings will fit equipment shafts).
(1) TL28H200 Pulley, (1) 2012 bushing (with 2, max. bore). (1) 360H200 DYNA-SYNC belt.

*** Selection program available online at ptwizard.com.**

# Selection

## XL Stock Drive Selections

| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | |
| 3500 | 1750 | 1160 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500 | 1750 | 1160 | 60XL | 70XL | 80XL | 90XL | 100XL | 110XL |
| 3500 | 1750 | 1160 | 1.00 | 30XL | 1.910 | 30XL | 1.910 | 2.11 | 1.07 | .71 | – | – | – | – | – | 2.50 |
| 3500 | 1750 | 1160 | 1.00 | 28XL | 1.783 | 28XL | 1.783 | 1.98 | 1.00 | .66 | – | – | – | – | 2.20 | 2.70 |
| 3500 | 1750 | 1160 | 1.00 | 24XL | 1.528 | 24XL | 1.528 | 1.71 | .86 | .56 | – | – | – | 2.10 | 2.60 | 3.10 |
| 3500 | 1750 | 1160 | 1.00 | 22XL | 1.401 | 22XL | 1.401 | 1.57 | .79 | .52 | – | – | 1.80 | 2.30 | 2.80 | 3.30 |
| 3500 | 1750 | 1160 | 1.00 | 21XL | 1.337 | 21XL | 1.337 | 1.49 | .75 | .50 | – | – | 1.90 | 2.40 | 2.90 | 3.40 |
| 3500 | 1750 | 1160 | 1.00 | 20XL | 1.273 | 20XL | 1.273 | 1.42 | .72 | .46 | – | – | 2.00 | 2.50 | 3.00 | 3.50 |
| 3500 | 1750 | 1160 | 1.00 | 18XL | 1.146 | 18XL | 1.146 | 1.28 | .64 | .42 | – | 1.70 | 2.20 | 2.70 | 3.20 | 3.70 |
| 3500 | 1750 | 1160 | 1.00 | 16XL | 1.019 | 16XL | 1.019 | 1.15 | .58 | .38 | 1.40 | 1.90 | 2.40 | 2.90 | 3.40 | 3.90 |
| 3500 | 1750 | 1160 | 1.00 | 15XL | .955 | 15XL | .955 | 1.07 | .53 | .36 | 1.50 | 2.00 | 2.50 | 3.00 | 3.50 | 4.00 |
| 3500 | 1750 | 1160 | 1.00 | 14XL | .891 | 14XL | .891 | 1.00 | .50 | .33 | 1.60 | 2.10 | 2.60 | 3.10 | 3.60 | 4.10 |
| 3500 | 1750 | 1160 | 1.00 | 12XL | .764 | 12XL | .764 | .86 | .43 | .28 | 1.80 | 2.30 | 2.80 | 3.30 | 3.80 | 4.30 |
| 3500 | 1750 | 1160 | 1.00 | 11XL | .700 | 11XL | .700 | .79 ◊ | .39 | .26 | 1.90† | 2.40† | 2.90† | 3.40† | 3.90† | 4.40† |
| 3341 | 1675 | 1107 | 1.05 | 21XL | 1.337 | 22XL | 1.401 | 1.49 | .75 | .50 | – | – | 1.85 | 2.35 | 2.85 | 3.35 |
| 3333 | 1667 | 1105 | 1.05 | 20XL | 1.273 | 21XL | 1.337 | 1.42 | .72 | .46 | – | – | 1.95 | 2.45 | 2.95 | 3.45 |
| 3281 | 1641 | 1088 | 1.07 | 30XL | 1.910 | 32XL | 2.037 | 2.11 | 1.07 | .71 | – | – | – | – | – | 2.39 |
| 3281 | 1641 | 1088 | 1.07 | 15XL | .955 | 16XL | 1.019 | 1.07 | .53 | .36 | 1.45 | 1.95 | 2.45 | 2.95 | 3.45 | 3.95 |
| 3267 | 1634 | 1083 | 1.07 | 28XL | 1.783 | 30XL | 1.910 | 1.98 | 1.00 | .66 | – | – | – | – | 2.09 | 2.59 |
| 3267 | 1634 | 1083 | 1.07 | 14XL | .891 | 15XL | .955 | 1.00 | .50 | .33 | 1.55 | 2.05 | 2.55 | 3.05 | 3.55 | 4.05 |
| 3208 | 1604 | 1063 | 1.09 | 22XL | 1.401 | 24XL | 1.528 | 1.57 | .79 | .52 | – | – | – | 2.19 | 2.69 | 3.19 |
| 3208 | 1604 | 1063 | 1.09 | 11XL | .700 | 12XL | .764 | .79 ◊ | .39 | .26 | 1.85† | 2.35† | 2.85† | 3.35† | 3.85† | 4.35† |
| 3182 | 1591 | 1055 | 1.10 | 20XL | 1.273 | 22XL | 1.401 | 1.42 | .72 | .46 | – | – | 1.89 | 2.39 | 2.89 | 3.39 |
| 3150 | 1575 | 1044 | 1.11 | 18XL | 1.146 | 20XL | 1.273 | 1.28 | .64 | .42 | – | 1.59 | 2.09 | 2.59 | 3.09 | 3.59 |
| 3111 | 1556 | 1031 | 1.13 | 16XL | 1.019 | 18XL | 1.146 | 1.15 | .58 | .38 | – | 1.79 | 2.29 | 2.79 | 3.29 | 3.79 |
| 3063 | 1532 | 1015 | 1.14 | 28XL | 1.783 | 32XL | 2.037 | 1.98 | 1.00 | .66 | – | – | – | – | – | 2.49 |
| 3063 | 1532 | 1015 | 1.14 | 21XL | 1.337 | 24XL | 1.528 | 1.49 | .75 | .50 | – | – | 1.74 | 2.24 | 2.74 | 3.24 |
| 3063 | 1532 | 1015 | 1.14 | 14XL | .891 | 16XL | 1.019 | 1.00 | .50 | .33 | 1.49 | 1.99 | 2.49 | 2.99 | 3.49 | 4.00 |
| 3000 | 1500 | 994 | 1.17 | 24XL | 1.528 | 28XL | 1.783 | 1.71 | .86 | .56 | – | – | – | – | 2.39 | 2.89 |
| 3000 | 1500 | 994 | 1.17 | 18XL | 1.146 | 21XL | 1.337 | 1.28 | .64 | .42 | – | 1.54 | 2.04 | 2.54 | 3.04 | 3.54 |
| 3000 | 1500 | 994 | 1.17 | 12XL | .764 | 14XL | .891 | .86 | .43 | .28 | 1.69† | 2.19† | 2.69† | 3.19† | 3.69† | 4.20† |
| 2917 | 1458 | 967 | 1.20 | 30XL | 1.910 | 36XL | 2.292 | 2.11 | 1.07 | .71 | – | – | – | – | – | – |
| 2917 | 1458 | 967 | 1.20 | 20XL | 1.273 | 24XL | 1.528 | 1.42 | .72 | .46 | – | – | 1.79 | 2.29 | 2.79 | 3.29 |
| 2917 | 1458 | 967 | 1.20 | 15XL | .955 | 18XL | 1.146 | 1.07 | .53 | .36 | 1.34 | 1.84 | 2.34 | 2.84 | 3.34 | 3.84 |
| 2864 | 1432 | 949 | 1.22 | 18XL | 1.146 | 22XL | 1.401 | 1.28 | .64 | .42 | – | – | 1.99 | 2.49 | 2.99 | 3.49 |
| 2800 | 1400 | 928 | 1.25 | 24XL | 1.528 | 30XL | 1.910 | 1.71 | .86 | .56 | – | – | – | – | 2.29 | 2.79 |
| 2800 | 1400 | 928 | 1.25 | 16XL | 1.019 | 20XL | 1.273 | 1.15 | .58 | .38 | – | 1.69 | 2.19 | 2.69 | 3.19 | 3.69 |
| 2800 | 1400 | 928 | 1.25 | 12XL | .764 | 15XL | .955 | .86 | .43 | .28 | 1.6† | 2.14† | 2.64† | 3.14† | 3.64† | 4.14† |
| 2750 | 1375 | 911 | 1.27 | 22XL | 1.401 | 28XL | 1.783 | 1.57 | .79 | .52 | – | – | – | 1.99 | 2.49 | 2.99 |
| 2750 | 1375 | 911 | 1.27 | 11XL | .700 | 14XL | .891 | .79 ◊ | .39 | .26 | 1.7† | 2.24† | 2.74† | 3.24† | 3.74† | 4.24† |
| 2722 | 1361 | 902 | 1.29 | 28XL | 1.783 | 36XL | 2.292 | 1.98 | 1.00 | .66 | – | – | – | – | – | 2.28 |
| 2722 | 1361 | 902 | 1.29 | 14XL | .891 | 18XL | 1.146 | 1.00 | .50 | .33 | 1.39 | 1.89 | 2.39 | 2.89 | 3.39 | 3.89 |
| 2667 | 1333 | 884 | 1.31 | 16XL | 1.019 | 21XL | 1.337 | 1.15 | .58 | .38 | – | 1.64 | 2.14 | 2.64 | 3.14 | 3.64 |
| 2625 | 1313 | 870 | 1.33 | 30XL | 1.910 | 40XL | 2.546 | 2.11 | 1.07 | .71 | – | – | – | – | – | – |
| 2625 | 1313 | 870 | 1.33 | 24XL | 1.528 | 32XL | 2.037 | 1.71 | .86 | .56 | – | – | 1.89 | – | 2.18 | 2.68 |
| 2625 | 1313 | 870 | 1.33 | 21XL | 1.337 | 28XL | 1.783 | 1.49 | .75 | .50 | – | – | – | 2.03 | 2.54 | 3.04 |
| 2625 | 1313 | 870 | 1.33 | 18XL | 1.146 | 24XL | 1.528 | 1.28 | .64 | .42 | – | – | – | 2.39 | 2.89 | 3.39 |
| 2625 | 1313 | 870 | 1.33 | 15XL | .955 | 20XL | 1.273 | 1.07 | .53 | .36 | – | 1.74 | 2.24 | 2.74 | 3.24 | 3.74 |
| 2625 | 1313 | 870 | 1.33 | 12XL | .764 | 16XL | 1.019 | .86 | .43 | .28 | 1.59† | 2.09† | 2.59† | 3.09† | 3.59† | 4.09† |
| 2567 | 1283 | 851 | 1.36 | 22XL | 1.401 | 30XL | 1.910 | 1.57 | .79 | .52 | – | – | – | – | 2.38 | 2.88 |
| 2567 | 1283 | 851 | 1.36 | 11XL | .700 | 15XL | .955 | .79 ◊ | .38 | .26 | 1.69† | 2.19† | 2.69† | 3.19† | 3.69† | 4.19† |
| 2545 | 1273 | 844 | 1.38 | 16XL | 1.019 | 22XL | 1.401 | 1.15 | .58 | .38 | – | 1.58 | 2.09 | 2.59 | 3.09 | 3.59 |
| 2500 | 1250 | 829 | 1.40 | 30XL | 1.910 | 42XL | 2.674 | 2.11 | 1.07 | .71 | – | 1.68 | – | – | – | – |
| 2500 | 1250 | 829 | 1.40 | 20XL | 1.273 | 28XL | 1.783 | 1.42 | .72 | .46 | – | – | – | 2.08 | 2.58 | 3.09 |
| 2500 | 1250 | 829 | 1.40 | 15XL | .955 | 21XL | 1.337 | 1.07 | .53 | .36 | – | – | 2.19 | 2.69 | 3.19 | 3.69 |
| 2450 | 1225 | 812 | 1.43 | 28XL | 1.783 | 40XL | 2.546 | 1.98 | 1.00 | .66 | – | – | – | – | – | – |
| 2450 | 1225 | 812 | 1.43 | 21XL | 1.337 | 30XL | 1.910 | 1.49 | .75 | .50 | – | – | – | 1.92 | 2.43 | 2.93 |
| 2450 | 1225 | 812 | 1.43 | 14XL | .891 | 20XL | 1.273 | 1.00 | .50 | .33 | – | 1.79 | 2.29 | 2.79 | 3.29 | 3.79 |
| 2406 | 1203 | 798 | 1.45 | 22XL | 1.401 | 32XL | 2.037 | 1.57 | .79 | .52 | – | – | – | – | 2.27 | 2.78 |
| 2406 | 1203 | 798 | 1.45 | 11XL | .700 | 16XL | 1.019 | .79 ◊ | .39 | .26 | 1.64† | 2.14† | 2.64† | 3.14† | 3.64† | 4.14† |

Δ HP ratings are for conventional speed-reduction drives. For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† See Teeth in Mesh table on opposite page

# Selection

## XL Stock Drive Selections

| Nominal Center Distance Using DYNA-SYNC Belts | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 120XL | 130XL | 140XL | 150XL | 160XL | 170XL | 180XL | 190XL | 200XL | 210XL | 220XL | 230XL | 240XL | 250XL | 260XL |
| 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 | 8.50 | 9.00 | 9.50 | 10.00 |
| 3.20 | 3.70 | 4.20 | 4.70 | 5.20 | 5.70 | 6.20 | 6.70 | 7.20 | 7.70 | 6.20 | 8.70 | 9.20 | 9.70 | 10.20 |
| 3.60 | 4.10 | 4.60 | 5.10 | 5.60 | 6.10 | 6.60 | 7.10 | 7.60 | 8.10 | 6.60 | 9.10 | 9.60 | 10.10 | 10.60 |
| 3.80 | 4.30 | 4.80 | 5.30 | 5.80 | 6.30 | 6.80 | 7.30 | 7.80 | 8.30 | 8.80 | 9.30 | 9.80 | 10.30 | 10.80 |
| 3.90 | 4.40 | 4.90 | 5.40 | 5.90 | 6.40 | 6.90 | 7.40 | 7.90 | 8.40 | 8.90 | 9.40 | 9.90 | 10.40 | 10.90 |
| 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 | 8.50 | 9.00 | 9.50 | 10.00 | 10.50 | 11.00 |
| 4.20 | 4.70 | 5.20 | 5.70 | 6.20 | 6.70 | 7.20 | 7.70 | 8.20 | 8.70 | 9.20 | 9.70 | 10.20 | 10.70 | 11.20 |
| 4.40 | 4.90 | 5.40 | 5.90 | 6.40 | 6.90 | 7.40 | 7.90 | 8.40 | 8.90 | 9.40 | 9.90 | 10.40 | 10.90 | 11.40 |
| 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 | 8.50 | 9.00 | 9.50 | 10.00 | 10.50 | 11.00 | 11.50 |
| 4.60 | 5.10 | 5.60 | 6.10 | 6.60 | 7.10 | 7.60 | 8.10 | 8.60 | 9.10 | 9.60 | 10.10 | 10.60 | 11.10 | 11.60 |
| 4.80 | 5.30 | 5.80 | 6.30 | 6.80 | 7.30 | 7.80 | 8.30 | 8.60 | 9.30 | 9.80 | 10.30 | 10.80 | 11.30 | 11.80 |
| 4.90† | 5.40† | 5.90† | 6.40† | 6.90† | 7.40† | 7.90† | 8.40† | 8.90† | 9.40† | 9.90† | 10.40† | 10.90† | 11.40† | 11.90† |
| 3.85 | 4.35 | 4.85 | 5.35 | 5.85 | 6.35 | 6.85 | 7.35 | 7.85 | 8.35 | 8.85 | 9.35 | 9.85 | 10.35 | 10.85 |
| 3.95 | 4.45 | 4.95 | 5.45 | 5.95 | 6.45 | 6.95 | 7.45 | 7.95 | 8.45 | 8.95 | 9.45 | 9.95 | 10.45 | 10.95 |
| 2.89 | 3.39 | 3.89 | 4.40 | 4.90 | 5.40 | 5.90 | 6.40 | 6.90 | 7.40 | 7.90 | 8.40 | 8.99 | 9.40 | 9.90 |
| 4.45 | 4.95 | 5.45 | 5.95 | 6.45 | 6.95 | 7.45 | 7.95 | 8.45 | 8.95 | 9.45 | 9.95 | 10.45 | 10.95 | 11.45 |
| 3.09 | 3.59 | 4.10 | 4.60 | 5.10 | 5.60 | 6.10 | 6.60 | 7.10 | 7.60 | 8.10 | 8.60 | 9.10 | 9.80 | 10.10 |
| 4.55 | 5.05 | 5.55 | 6.05 | 6.55 | 7.05 | 7.55 | 8.05 | 8.55 | 9.05 | 9.55 | 10.05 | 10.55 | 11.05 | 11.55 |
| 3.69 | 4.20 | 4.70 | 5.20 | 5.70 | 6.20 | 6.70 | 7.20 | 7.70 | 8.20 | 8.70 | 9.20 | 9.70 | 10.20 | 10.70 |
| 4.85† | 5.35† | 5.85† | 6.35† | 6.85† | 7.35† | 7.85† | 8.35† | 8.85† | 9.35† | 9.85† | 10.35† | 10.85† | 11.35† | 11.85† |
| 3.89 | 4.40 | 4.90 | 5.40 | 5.90 | 6.40 | 6.90 | 7.40 | 7.90 | 8.40 | 8.90 | 9.40 | 9.90 | 10.40 | 10.90 |
| 4.10 | 4.60 | 5.10 | 5.60 | 6.10 | 6.60 | 7.10 | 7.60 | 8.10 | 8.60 | 9.10 | 9.60 | 10.10 | 10.60 | 11.10 |
| 4.30 | 4.80 | 5.30 | 5.80 | 6.30 | 6.80 | 7.30 | 7.80 | 8.30 | 8.80 | 9.30 | 9.80 | 10.30 | 10.80 | 11.30 |
| 2.99 | 3.49 | 3.99 | 4.49 | 4.99 | 5.49 | 5.99 | 6.49 | 6.99 | 7.49 | 7.99 | 8.49 | 8.99 | 9.49 | 9.99 |
| 3.74 | 4.24 | 4.74 | 5.24 | 5.74 | 6.24 | 6.74 | 7.24 | 7.74 | 8.24 | 8.74 | 9.25 | 9.75 | 10.25 | 10.75 |
| 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 | 8.50 | 9.00 | 9.50 | 10.00 | 10.50 | 11.00 | 11.50 |
| 3.39 | 3.89 | 4.39 | 4.89 | 5.39 | 5.89 | 6.39 | 6.89 | 7.39 | 7.89 | 8.39 | 8.89 | 9.39 | 9.89 | 10.39 |
| 4.04 | 4.54 | 5.04 | 5.54 | 6.04 | 6.54 | 7.04 | 7.54 | 8.04 | 8.54 | 9.05 | 9.55 | 10.05 | 10.55 | 11.05 |
| 4.70† | 5.20† | 5.70{† | 6.20† | 6.70† | 7.20† | 7.70† | 8.20† | 8.70† | 9.20† | 9.70† | 10.20† | 10.70† | 11.20† | 11.70† |
| 2.69 | 3.19 | 3.69 | 4.19 | 4.69 | 5.19 | 5.69 | 6.19 | 6.69 | 7.19 | 7.69 | 8.19 | 8.69 | 9.19 | 9.69 |
| 3.79 | 4.29 | 4.79 | 5.29 | 5.79 | 6.29 | 6.79 | 7.29 | 7.79 | 8.29 | 8.79 | 9.29 | 9.79 | 10.29 | 10.79 |
| 4.34 | 4.84 | 5.34 | 5.84 | 6.34 | 6.84 | 7.34 | 7.84 | 8.34 | 8.84 | 9.35 | 9.85 | 10.35 | 10.85 | 11.35 |
| 3.99 | 4.49 | 4.99 | 5.49 | 5.99 | 6.49 | 6.99 | 7.49 | 7.99 | 8.49 | 8.99 | 9.49 | 9.99 | 10.49 | 10.99 |
| 3.29 | 3.79 | 4.29 | 4.79 | 5.29 | 5.79 | 6.29 | 6.79 | 7.29 | 7.79 | 8.29 | 8.79 | 9.29 | 9.79 | 10.29 |
| 4.19 | 4.69 | 5.19 | 5.69 | 6.19 | 6.69 | 7.19 | 7.69 | 8.19 | 8.69 | 9.19 | 9.69 | 10.19 | 10.89 | 11.19 |
| 4.64† | 5.14† | 5.64† | 6.14† | 6.64† | 7.14† | 7.64† | 8.14† | 8.64† | 9.15† | 9.65† | 10.15† | 10.65† | 11.15† | 11.65† |
| 3.49 | 3.99 | 4.49 | 4.99 | 5.49 | 5.99 | 6.49 | 6.99 | 7.49 | 7.99 | 8.49 | 8.99 | 9.49 | 9.99 | 10.49 |
| 4.74† | 5.24† | 5.74† | 6.24† | 6.74† | 7.24† | 7.74† | 8.24† | 8.74† | 9.25† | 9.75† | 10.25† | 10.75† | 11.25† | 11.75† |
| 2.78 | 3.29 | 3.79 | 4.29 | 4.79 | 5.29 | 5.79 | 6.29 | 6.79 | 7.29 | 7.79 | 8.29 | 8.79 | 9.29 | 9.79 |
| 4.39 | 4.89 | 5.39 | 5.89 | 6.39 | 6.89 | 7.39 | 7.89 | 8.39 | 8.89 | 9.39 | 9.89 | 10.39 | 10.69 | 11.39 |
| 4.14 | 4.64 | 5.14 | 5.64 | 6.14 | 6.64 | 7.14 | 7.64 | 8.14 | 8.64 | 9.14 | 9.64 | 10.14 | 10.64 | 11.14 |
| 2.48 | 2.98 | 3.48 | 3.98 | 4.48 | 4.99 | 5.49 | 5.99 | 6.49 | 6.99 | 7.49 | 7.99 | 8.49 | 8.99 | 9.49 |
| 3.19 | 3.69 | 4.19 | 4.69 | 5.19 | 5.69 | 6.19 | 6.69 | 7.19 | 7.69 | 8.19 | 8.69 | 9.19 | 9.69 | 10.19 |
| 3.54 | 4.04 | 4.54 | 5.04 | 5.54 | 6.04 | 6.54 | 7.04 | 7.54 | 8.04 | 8.54 | 9.04 | 9.54 | 10.04 | 10.54 |
| 3.89 | 4.39 | 4.89 | 5.39 | 5.89 | 6.39 | 6.89 | 7.39 | 7.89 | 8.39 | 8.89 | 9.39 | 9.89 | 10.39 | 10.89 |
| 4.24 | 4.74 | 5.24 | 5.74 | 6.24 | 6.74 | 7.24 | 8.24 | 8.24 | 8.74 | 9.24 | 9.74 | 10.24 | 10.74 | 11.24 |
| 4.59† | 5.09† | 5.59† | 6.09† | 6.59† | 7.09† | 7.59† | 8.09† | 8.59† | 9.09† | 9.59† | 10.09† | 10.59† | 11.09† | 11.59† |
| 3.39 | 3.89 | 4.39 | 4.89 | 5.39 | 5.89 | 6.39 | 6.89 | 7.39 | 7.89 | 8.39 | 8.89 | 9.39 | 9.89 | 10.39 |
| 4.69† | 5.19† | 5.89† | 6.19† | 6.69† | 7.19† | 7.69† | 8.19† | 8.69† | 9.19† | 9.69† | 10.19† | 10.69† | 11.19† | 11.69† |
| 4.09 | 4.59 | 5.09 | 5.59 | 6.09 | 6.59 | 7.09 | 7.59 | 8.09 | 8.59 | 9.09 | 9.59 | 10.09 | 10.59 | 11.09 |
| .... | 2.87 | 3.37 | 3.88 | 4.38 | 4.88 | 5.38 | 5.88 | 6.38 | 6.88 | 7.39 | 7.89 | 8.39 | 8.69 | 9.39 |
| 3.59 | 4.09 | 4.59 | 5.09 | 5.59 | 6.09 | 6.59 | 7.09 | 7.59 | 8.09 | 8.59 | 9.09 | 9.59 | 10.09 | 10.59 |
| 4.19 | 4.69 | 5.19 | 5.69 | 6.19 | 6.69 | 7.19 | 7.69 | 8.19 | 8.69 | 9.19 | 9.69 | 10.19 | 10.69 | 11.19 |
| 2.57 | 3.07 | 3.58 | 4.08 | 4.58 | 5.08 | 5.58 | 6.08 | 6.58 | 7.09 | 7.59 | 8.09 | 8.59 | 9.09 | 9.59 |
| 3.43 | 3.84 | 4.44 | 4.94 | 5.44 | 5.94 | 6.44 | 6.94 | 7.44 | 7.94 | 8.44 | 8.94 | 9.44 | 9.94 | 10.44 |
| 4.29 | 4.79 | 5.29 | 5.79 | 6.29 | 6.79 | 7.29 | 7.79 | 8.29 | 8.79 | 9.29 | 9.79 | 10.29 | 10.79 | 11.29 |
| 3.28 | 3.78 | 4.28 | 4.78 | 5.29 | 5.79 | 6.29 | 6.79 | 7.29 | 7.79 | 8.29 | 8.79 | 9.29 | 9.79 | 10.29 |
| 4.64† | 5.14† | 5.64† | 6.14† | 6.64† | 7.14† | 7.64† | 8.14† | 8.64† | 9.14† | 9.64† | 10.14† | 10.64† | 11.14† | 11.64† |

### XL Belt Width Table

| Belt Width Factor | .15 | .28 | .35 | .42 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 |
|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width | 1/4 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 |
| Belt Width Code | 025 | 037 | 043 | 050 | 062 | 075 | 087 | 100 | 125 | 150 |

**Shaded area indicates stock belt widths**

### Teeth in Mesh Factor (T.I.M.)

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| None | 6 or More | 1.00 |
| † | 5 | .80 |

# Selection

## XL Stock Drive Selections

| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | |
| 3500 | 1750 | 1160 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500 | 1750 | 1160 | 60XL | 70XL | 80XL | 90XL | 100XL | 110XL |
| 2386 | 1193 | 791 | 1.47 | 15XL | 1.901 | 44XL | 2.801 | 2.11 | 1.07 | .71 | – | – | – | – | – | – |
| 2386 | 1193 | 791 | 1.47 | 30XL | .955 | 22XL | 1.401 | 1.07 | .53 | .36 | – | 1.63 | 2.13 | 2.64 | 3.14 | 3.64 |
| 2334 | 1167 | 773 | 1.50 | 28XL | 1.783 | 42XL | 2.674 | 1.98 | 1.00 | .66 | – | – | – | – | – | – |
| 2334 | 1167 | 773 | 1.50 | 24XL | 1.528 | 36XL | 2.292 | 1.71 | .86 | .56 | – | – | – | – | – | 2.47 |
| 2334 | 1167 | 773 | 1.50 | 20XL | 1.273 | 30XL | 1.910 | 1.42 | .72 | .46 | – | – | – | 1.97 | 2.48 | 2.98 |
| 2334 | 1167 | 773 | 1.50 | 16XL | 1.019 | 24XL | 1.528 | 1.15 | .58 | .38 | – | – | 1.98 | 2.48 | 2.98 | 3.49 |
| 2334 | 1167 | 773 | 1.50 | 14XL | .891 | 21XL | 1.337 | 1.00 | .50 | .33 | – | 1.73 | 2.23 | 2.74 | 3.24 | 3.74 |
| 2334 | 1167 | 773 | 1.50 | 12XL | .764 | 18XL | 1.146 | .86 | .43 | .28 | 1.48† | 1.99† | 2.49† | 2.99† | 3.49† | 3.99† |
| 2297 | 1148 | 761 | 1.52 | 21XL | 1.337 | 32XL | 2.037 | 1.49 | .75 | .50 | – | – | – | – | 2.32 | 2.82 |
| 2250 | 1125 | 746 | 1.56 | 18XL | 1.146 | 28XL | 1.783 | 1.28 | .64 | .42 | – | – | – | 2.17 | 2.68 | 3.18 |
| 2227 | 1114 | 738 | 1.57 | 28XL | 1.783 | 44XL | 2.801 | 1.98 | 1.00 | .66 | – | – | – | – | – | – |
| 2227 | 1114 | 738 | 1.57 | 14XL | .891 | 22XL | 1.401 | 1.00 | .50 | .33 | – | 1.68 | 2.18 | 2.68 | 3.19 | 3.69 |
| 2188 | 1094 | 725 | 1.60 | 30XL | 1.910 | 48XL | 3.056 | 2.11 | 1.07 | .71 | – | – | – | – | – | – |
| 2188 | 1094 | 725 | 1.60 | 20XL | 1.273 | 32XL | 2.037 | 1.42 | .72 | .46 | – | – | – | 1.86 | 2.36 | 2.87 |
| 2188 | 1094 | 725 | 1.60 | 15XL | .955 | 24XL | 1.528 | 1.07 | .53 | .36 | – | 1.52 | 2.02 | 2.53 | 3.03 | 3.53 |
| 2139 | 1059 | 709 | 1.64 | 22XL | 1.401 | 36XL | 2.292 | 1.57 | .79 | .52 | – | – | – | – | – | 2.56 |
| 2139 | 1069 | 709 | 1.64 | 11XL | .700 | 18XL | 1.146 | .79 ◊ | .39 | .26 | 1.53† | 2.03† | 2.54† | 3.64† | 3.54† | 4.04† |
| 2100 | 1050 | 696 | 1.67 | 24XL | 1.528 | 40XL | 2.546 | 1.71 | .86 | .56 | – | – | – | – | – | – |
| 2100 | 1050 | 696 | 1.67 | 18XL | 1.146 | 30XL | 1.910 | 1.28 | .64 | .42 | – | – | – | 2.06 | 2.57 | 3.07 |
| 2100 | 1050 | 696 | 1.67 | 12XL | .764 | 20XL | 1.273 | .86 | .43 | .28 | 1.37† | 1.88† | 2.38† | 2.88† | 3.39† | 3.89† |
| 2042 | 1021 | 677 | 1.71 | 28XL | 1.783 | 48XL | 3.056 | 1.98 | 1.00 | .66 | – | – | – | – | – | – |
| 2042 | 1021 | 677 | 1.71 | 21XL | 1.337 | 36XL | 2.292 | 1.49 | .75 | .50 | – | – | – | – | 2.09 | 2.60 |
| 2042 | 1021 | 677 | 1.71 | 14XL | .891 | 24XL | 1.528 | 1.00 | .50 | .33 | – | 1.56 | 2.07 | 2.58 | 3.08 | 3.58 |
| 2000 | 1000 | 663 | 1.75 | 24XL | 1.528 | 42XL | 2.674 | 1.71 | .86 | .56 | – | – | – | – | – | – |
| 2000 | 1000 | 683 | 1.75 | 16XL | 1.019 | 28XL | 1.783 | 1.15 | .58 | .38 | – | – | 1.75 | 2.26 | 2.77 | 3.27 |
| 2000 | 1000 | 663 | 1.75 | 12XL | .764 | 21XL | 1.337 | .86 | .43 | .28 | 1.31† | 1.82† | 2.33† | 2.83† | 3.33† | 3.83† |
| 1969 | 984 | 653 | 1.78 | 18XL | 1.146 | 32XL | 2.037 | 1.28 | .64 | .42 | – | – | – | 1.94 | 2.46 | 2.96 |
| 1944 | 972 | 644 | 1.80 | 20XL | 1.273 | 36XL | 2.292 | 1.42 | .72 | .46 | – | – | – | – | 2.13 | 2.65 |
| 1925 | 963 | 637 | 1.82 | 22XL | 1.401 | 40XL | 2.546 | 1.57 | .79 | .52 | – | – | – | – | – | 2.32 |
| 1925 | 963 | 637 | 1.82 | 11XL | .700 | 20XL | 1.273 | .79 ◊ | .39 | .26 | 1.42‡ | 1.92‡ | 2.43† | 2.93† | 3.43† | 3.94† |
| 1909 | 955 | 633 | 1.83 | 24XL | 1.528 | 44XL | 2.801 | 1.71 | .86 | .56 | – | – | – | – | – | – |
| 1909 | 955 | 633 | 1.83 | 12XL | .764 | 22XL | 1.401 | .86 | .43 | .28 | – | 1.77† | 2.27† | 2.78† | 3.28† | 3.78† |
| 1875 | 937 | 621 | 1.87 | 15XL | .955 | 28XL | 1.783 | 1.07 | .53 | .36 | – | – | 1.80 | 2.31 | 2.82 | 3.32 |
| 1867 | 933 | 619 | 1.88 | 16XL | 1.019 | 30XL | 1.910 | 1.15 | .58 | .38 | – | – | – | 2.15 | 2.66 | 3.16 |
| 1838 | 919 | 609 | 1.90 | 21XL | 1.337 | 40XL | 2.546 | 1.49 | .75 | .50 | – | – | – | – | – | 2.37 |
| 1833 | 917 | 607 | 1.91 | 22XL | 1.401 | 42XL | 2.674 | 1.57 | .79 | .52 | – | – | – | – | – | – |
| 1833 | 917 | 607 | 1.91 | 11XL | .700 | 21XL | 1.337 | .79 ◊ | .39 | .26 | 1.36‡ | 1.87‡ | 2.37‡ | 2.88† | 3.38† | 3.88† |
| 1750 | 875 | 580 | 2.00 | 30XL | 1.910 | 60XL | 3.820 | 2.11 | 1.07 | .71 | – | – | – | – | – | – |
| 1750 | 875 | 580 | 2.00 | 24XL | 1.528 | 48XL | 3.056 | 1.71 | .86 | .56 | – | – | – | – | – | – |
| 1750 | 875 | 580 | 2.00 | 22XL | 1.401 | 44XL | 2.801 | 1.57 | .79 | .52 | – | – | – | – | – | – |
| 1750 | 875 | 580 | 2.00 | 21XL | 1.337 | 42XL | 2.674 | 1.49 | .75 | .50 | – | – | – | – | – | 2.25 |
| 1750 | 875 | 580 | 2.00 | 20XL | 1.273 | 40XL | 2.546 | 1.42 | .72 | .46 | – | – | – | – | – | 2.41 |
| 1750 | 875 | 580 | 2.00 | 18XL | 1.146 | 36XL | 2.292 | 1.28 | .64 | .42 | – | – | – | – | 2.22 | 2.74 |
| 1750 | 875 | 580 | 2.00 | 16XL | 1.019 | 32XL | 2.037 | 1.15 | .58 | .38 | – | – | – | 2.03 | 2.54 | 3.05 |
| 1750 | 875 | 580 | 2.00 | 15XL | .955 | 30XL | 1.910 | 1.07 | .53 | .36 | – | – | 1.68 | 2.19 | 2.70 | 3.21 |
| 1750 | 875 | 580 | 2.00 | 14XL | .891 | 28XL | 1.783 | 1.00 | .50 | .33 | – | – | 1.84† | 2.35 | 2.86 | 3.37 |
| 1750 | 875 | 580 | 2.00 | 12XL | .764 | 24XL | 1.528 | .86 | .43 | .28 | – | 1.65‡ | 2.16† | 2.67† | 3.17† | 3.68† |
| 1750 | 875 | 580 | 2.00 | 11XL | .700 | 22XL | 1.401 | .79 ◊ | .39 | .26 | 1.30‡ | 1.81‡ | 2.32‡ | 2.82† | 3.33† | 3.83† |
| 1670 | 835 | 554 | 2.10 | 21XL | 1.337 | 44XL | 2.801 | 1.49 | .75 | .50 | – | – | – | – | – | – |
| 1666 | 833 | 552 | 2.10 | 20XL | 1.273 | 42XL | 2.674 | 1.42 | .72 | .46 | – | – | – | – | – | 2.29 |
| 1641 | 820 | 544 | 2.13 | 15XL | .955 | 32XL | 2.037 | 1.07 | .53 | .36 | – | – | – | 2.07 | 2.59 | 3.10 |
| 1833 | 817 | 542 | 2.14 | 28XL | 1.783 | 60XL | 3.820 | 1.98 | 1.00 | .66 | – | – | – | – | – | – |
| 1833 | 817 | 542 | 2.14 | 14XL | .891 | 30XL | 1.910 | 1.08 | .50 | .33 | – | – | 1.72† | 2.24† | 2.75 | 3.26 |
| 1604 | 802 | 532 | 2.18 | 22XL | 1.401 | 48XL | 3.056 | 1.57 | .79 | .52 | – | – | – | – | – | – |
| 1604 | 802 | 532 | 2.18 | 11XL | .700 | 24XL | 1.528 | .79 ◊ | .39 | .26 | – | 1.69} | 2.21‡ | 2.71‡ | 3.22† | 3.72† |
| 1591 | 795 | 527 | 2.20 | 20XL | 1.273 | 44XL | 2.801 | 1.42 | .72 | .46 | – | – | – | – | – | – |
| 1575 | 788 | 523 | 2.22 | 18XL | 1.146 | 40XL | 2.546 | 1.28 | .64 | .42 | – | – | – | – | – | 2.50 |
| 1556 | 778 | 516 | 2.25 | 16XL | 1.019 | 36XL | 2.292 | 1.15 | .58 | .38 | – | – | – | – | 2.31 | 2.82 |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† ‡ See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

# Selection

## XL Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 120XL | 130XL | 140XL | 150XL | 160XL | 170XL | 180XL | 190XL | 200XL | 210XL | 220XL | 230XL | 240XL | 250XL | 260XL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| – | 2.76 | 3.27 | 3.77 | 4.27 | 4.77 | 5.28 | 5.78 | 6.28 | 6.78 | 7.28 | 7.78 | 8.28 | 8.78 | 9.28 |
| 4.14 | 4.64 | 5.14 | 5.64 | 6.14 | 8.64 | 7.14 | 7.64 | 8.14 | 8.64 | 9.14 | 9.64 | 10.14 | 10.64 | 11.14 |
| 2.46 | 2.96 | 3.47 | 3.97 | 4.47 | 4.98 | 5.48 | 5.98 | 6.48 | 8.98 | 7.48 | 7.98 | 8.48 | 8.98 | 9.49 |
| 2.97 | 3.47 | 3.98 | 4.48 | 4.98 | 5.48 | 5.98 | 6.48 | 6.99 | 7.49 | 7.99 | 8.49 | 8.99 | 9.49 | 9.99 |
| 3.48 | 3.98 | 4.48 | 4.99 | 5.49 | 5.99 | 8.49 | 6.99 | 7.49 | 7.99 | 8.49 | 8.99 | 9.49 | 9.99 | 10.49 |
| 3.99 | 4.49 | 4.99 | 5.49 | 5.99 | 8.49 | 6.99 | 7.49 | 7.99 | 8.49 | 8.99 | 9.49 | 9.99 | 10.49 | 10.99 |
| 4.24 | 4.74 | 5.24 | 5.74 | 6.24 | 8.74 | 7.24 | 7.74 | 8.24 | 8.74 | 9.24 | 9.74 | 10.24 | 10.74 | 11.24 |
| 4.49† | 4.99† | 5.49† | 5.99† | 6.49† | 6.99† | 7.49† | 7.99† | 8.49† | 8.99† | 9.49† | 9.99† | 10.49† | 10.99† | 11.49† |
| 3.33 | 3.83 | 4.33 | 4.83 | 5.33 | 5.84 | 6.34 | 6.84 | 7.34 | 7.84 | 8.34 | 8.84 | 9.34 | 9.84 | 10.34 |
| 3.68 | 4.18 | 4.68 | 5.19 | 5.69 | 6.19 | 6.69 | 7.19 | 7.69 | 8.19 | 8.69 | 9.19 | 9.69 | 10.19 | 10.69 |
| – | 2.85 | 3.36 | 3.86 | 4.37 | 4.87 | 5.37 | 5.87 | 6.38 | 6.88 | 7.38 | 7.88 | 8.38 | 8.88 | 9.38 |
| 4.19 | 4.69 | 5.19 | 5.69 | 6.19 | 6.69 | 7.19 | 7.69 | 8.19 | 8.69 | 9.19 | 9.69 | 10.19 | 10.69 | 11.19 |
| – | – | 3.04 | 3.55 | 4.06 | 4.56 | 5.06 | 5.57 | 6.07 | 6.57 | 7.07 | 7.57 | 8.08 | 8.58 | 9.08 |
| 3.37 | 3.88 | 4.38 | 4.88 | 5.38 | 5.88 | 6.38 | 6.88 | 7.39 | 7.89 | 8.39 | 8.89 | 9.39 | 9.89 | 10.39 ♥ |
| 4.04 | 4.54 | 5.04 | 5.54 | 6.04 | 6.54 | 7.04 | 7.54 | 8.04 | 8.54 | 9.04 | 9.54 | 10.04 | 10.54 | 11.04 |
| 3.06 | 3.57 | 4.07 | 4.57 | 5.08 | 5.58 | 6.08 | 6.58 | 7.08 | 7.58 | 8.08 | 8.58 | 9.08 | 9.59 | 10.09 |
| 4.54† | 5.04† | 5.54† | 6.04† | 6.54† | 7.04† | 7.54† | 8.04† | 8.54† | 9.04† | 9.54† | 10.04† | 10.54† | 11.04† | 11.54† |
| 2.75 | 3.26 | 3.76 | 4.27 | 4.77 | 5.27 | 5.77 | 6.27 | 6.78 | 7.28 | 7.78 | 8.28 | 8.78 | 9.28 | 9.78 |
| 3.58 | 4.08 | 4.58 | 5.08 | 5.58 | 6.08 | 6.58 | 7.09 | 7.59 | 8.09 | 8.59 | 9.09 | 9.59 | 10.09 | 10.59 |
| 4.39† | 4.89† | 5.39† | 5.89† | 6.39† | 6.89† | 7.39† | 7.89† | 8.39† | 8.89† | 9.39† | 9.89† | 10.39† | 10.89† | 11.39† |
| – | – | 3.13 | 3.64 | 4.15 | 4.65 | 5.16 | 5.66 | 6.16 | 6.67 | 7.17 | 7.67 | 8.17 | 8.67 | 9.17 |
| 3.11 | 3.61 | 4.12 | 4.62 | 5.12 | 5.83 | 6.13 | 6.63 | 7.13 | 7.63 | 8.13 | 8.83 | 9.13 | 9.63 | 10.13 |
| 4.08 | 4.58 | 5.09 | 5.59 | 6.09 | 6.59 | 7.09 | 7.59 | 8.09 | 8.59 | 9.09 | 9.59 | 10.09 | 10.59 | 11.09 |
| 2.63 | 3.14 | 3.65 | 4.16 | 4.66 | 5.16 | 5.67 | 6.17 | 6.67 | 7.17 | 7.67 | 8.18 | 8.68 | 9.18 | 9.68 |
| 3.78 | 4.28 | 4.78 | 5.28 | 5.78 | 6.28 | 6.78 | 7.29 | 7.79 | 8.29 | 8.79 | 9.29 | 9.79 | 10.29 | 10.79 |
| 4.34† | 4.84† | 5.34† | 5.84† | 6.34† | 6.84† | 7.34† | 7.84† | 8.34† | 8.84† | 9.34† | 9.84† | 10.34† | 10.84† | 11.34† |
| 3.47 | 3.97 | 4.47 | 4.98 | 5.48 | 5.98 | 6.48 | 6.98 | 7.48 | 7.98 | 8.48 | 8.98 | 9.49♥ | 9.99 ♥ | 10.49 ♥ |
| 3.15 | 3.66 | 4.16 | 4.67 | 5.17 | 5.67 | 6.17 | 6.68 | 7.18 | 7.68 | 8.18 | 8.68 | 9.18 | 9.68 | 10.18 |
| 2.84 | 3.35 | 3.85 | 4.36 | 4.86 | 5.36 | 5.87 | 6.37 | 6.87 | 7.37 | 7.87 | 8.38 | 8.88 | 9.38 | 9.88 |
| 4.44† | 4.94† | 5.44† | 5.94† | 6.44† | 6.94† | 7.44† | 7.94† | 8.44† | 8.94† | 9.44† | 9.94† | 10.44† | 10.94† | 11.44† |
| 2.51 | 3.03 | 3.54 | 4.05 | 4.55 | 5.06 | 5.56 | 6.06 | 6.56 | 7.07 | 7.57 | 8.07 | 8.57 | 9.07 | 9.57 |
| 4.28† | 4.78† | 5.29† | 5.79† | 6.29† | 6.79† | 7.29† | 7.79† | 8.29† | 8.79† | 9.29† | 9.79† | 10.29† | 10.79† | 11.29† |
| 3.82 | 4.33 | 4.83 | 5.33 | 5.83 | 6.33 | 6.83 | 7.33 | 7.83 | 8.34 | 8.84 | 9.34 | 9.84 | 10.34 | 10.84 |
| 3.67 | 4.17 | 4.67 | 5.18 | 5.68 | 6.18 | 6.68 | 7.18 | 7.68 | 8.18 | 8.68 | 9.18 | 9.69 | 10.19 | 10.69 |
| 2.88 | 3.39 | 3.90 | 4.40 | 4.91 | 5.41 | 5.91 | 6.42 | 6.92 | 7.42 | 7.92 | 8.42 | 8.93 | 9.43 | 9.93 |
| 2.72 | 3.23 | 3.74 | 4.25 | 4.75 | 5.26 | 5.76 | 6.26 | 6.77 | 7.27 | 7.77 | 8.27 | 8.77 | 9.27 | 9.77 |
| 4.38† | 4.89† | 5.39† | 5.89† | 6.39† | 6.89{ | 7.39† | 7.89† | 8.39† | 8.89† | 9.39† | 9.89† | 10.39† | 10.89† | 11.39† |
| – | – | – | – | 3.36 | 3.88 | 4.39 | 4.90 | 5.41 | 5.92 | 6.42 | 6.93 | 7.43 | 7.94 | 8.44 |
| – | 2.79 | 3.31 | 3.82 | 4.33 | 4.64 | 5.34 | 5.85 | 6.35 | 6.85 | 7.36 | 7.86 | 8.38 | 8.86 | 9.36 |
| 2.60 | 3.12 | 3.63 | 4.14 | 4.64 | 5.15 | 5.65 | 6.16 | 6.66 | 7.16 | 7.66 | 8.17 | 8.67 | 9.17 | 9.67 |
| 2.76 | 3.28 | 3.79 | 4.29 | 4.80 | 5.30 | 5.81 | 6.31 | 6.81 | 7.31 | 7.82 | 8.32 | 8.82 | 9.32 | 9.82 |
| 2.93 | 3.44 | 3.94 | 4.45 | 4.95 | 5.46 | 5.96 | 6.46 | 6.97 | 7.47 | 7.97 | 8.47 | 8.97 | 9.47 | 9.98 |
| 3.24 | 3.75 | 4.26 | 4.76 | 5.26 | 5.77 | 6.27 | 6.77 | 7.27 | 7.77 | 8.28 | 8.78 | 9.28 ♥ | 9.78 ♥ | 10.28♥ |
| 3.56 | 4.06 | 4.57 | 5.07 | 5.57 | 6.07 | 6.58 | 7.08 | 7.58 | 8.08 | 8.58 ♥ | 9.08 ♥ | 9.58 ♥ | 10.08 ♥ | 10.58 ♥ |
| 3.71 | 4.22 | 4.72 | 5.22 | 5.73 | 6.23 | 6.73 | 7.23 | 7.73 | 8.23 | 8.73 | 9.23 | 9.73 | 10.23 | 10.73 |
| 3.87 | 4.37 | 4.88 | 5.38 | 5.88 | 6.38 | 6.88 | 7.38 | 7.88 | 8.38 | 8.88 | 9.38 | 9.89 | 10.39 | 10.89 |
| 4.18† | 4.68† | 5.18† | 5.68† | 6.18† | 6.68† | 7.19† | 7.69† | 8.19† | 8.69† | 9.19† | 9.69† | 10.19† | 10.69† | 11.19† |
| 4.33† | 4.83† | 5.33† | 5.84† | 6.34† | 6.84† | 7.34† | 7.84† | 8.34† | 8.84† | 9.34† | 9.84† | 10.34† | 10.84† | 11.34† |
| 2.64 | 3.16 | 3.67 | 4.18 | 4.69 | 5.19 | 5.70 | 6.20 | 6.71 | 7.21 | 7.71 | 8.21 | 8.71 | 9.22 | 9.72 |
| 2.81 | 3.32 | 3.83 | 4.34 | 4.84 | 5.35 | 5.85 | 6.36 | 6.86 | 7.36 | 7.86 | 8.37 | 8.87 | 9.37 | 9.87 |
| 3.60 | 4.11 | 4.61 | 5.12 | 5.62 | 6.12 | 6.62 | 7.12 | 7.83 | 8.13 ♥ | 8.63 ♥ | 9.13 ♥ | 9.63 ♥ | 10.13 ♥ | 10.63 ♥ |
| – | – | – | – | 3.44 | 3.96 | 4.48 | 4.99 | 5.50 | 6.01 | 8.52 | 7.02 | 7.53 | 8.03 | 8.53 |
| 3.76 | 4.27 | 4.77 | 5.27 | 5.77 | 6.27 | 6.78 | 7.28 | 7.78 | 8.28 | 8.78 | 9.28 | 9.78 | 10.28 | 10.78 |
| – | 2.88 | 3.39 | 3.91 | 4.42 | 4.93 | 5.43 | 5.94 | 6.44 | 6.95 | 7.45 | 7.95 | 8.45 | 8.96 | 9.46 |
| 4.23† | 4.73† | 5.23† | 5.73† | 6.23† | 6.73† | 7.23† | 7.73† | 8.24† | 8.74† | 9.24† | 9.74† | 10.24† | 10.74† | 11.24† |
| 2.69 | 3.20 | 3.72 | 4.23 | 4.73 | 5.24 | 5.74 | 6.25 | 6.75 | 7.26 | 7.76 | 8.26 | 8.76 | 9.26 | 9.77 |
| 3.01 | 3.53 | 4.03 | 4.54 | 5.05 | 5.55 | 6.05 | 6.56 | 7.06 | 7.56 | 8.07 | 8.57 | 9.07 | 9.57 ♥ | 10.07 ♥ |
| 3.33 | 3.84 | 4.35 | 4.85 | 5.36 | 5.86 | 6.36 | 6.87 | 7.37 | 7.87 | 8.37 ♥ | 8.87 ♥ | 9.37 ♥ | 9.87 ♥ | 10.38 ♥ |

**XL Belt Width Table**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width Factor | .15 | .28 | .35 | .42 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 |
| Belt Width | 1/4 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 |
| Belt Width Code | 025 | 037 | 043 | 050 | 062 | 075 | 087 | 100 | 125 | 150 |

**Shaded area indicates stock belt widths**

**Teeth in Mesh Factor (T.I.M)**

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| None | 6 or More | 1.00 |
| † | 5 | .80 |
| ‡ | 4 | .60 |

# Selection

## XL Stock Drive Selections

| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | |
| 3500 | 1750 | 1160 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500 | 1750 | 1160 | 60XL | 70XL | 80XL | 90XL | 100XL | 110XL |
| 1531 | 766 | 508 | 2.29 | 21XL | 1.337 | 48XL | 3.056 | 1.49 | .75 | .50 | – | – | – | – | – | – |
| 1531 | 766 | 508 | 2.29 | 14XL | .891 | 32XL | 2.037 | 1.00 | .50 | .33 | – | – | – | 2.12† | 2.63† | 3.14† |
| 1500 | 750 | 498 | 2.33 | 18XL | 1.146 | 42XL | 2.674 | 1.28 | .64 | .42 | – | – | – | – | – | 2.37† |
| 1500 | 750 | 498 | 2.33 | 12XL | .764 | 28XL | 1.783 | .86 | .43 | .28 | – | – | 1.93‡ | 2.44† | 2.95† | 3.46† |
| 1458 | 729 | 483 | 2.40 | 30XL | 1.910 | 72XL | 4.584 | 2.11 | 1.07 | .71 | – | – | – | – | – | – |
| 1458 | 729 | 483 | 2.40 | 20XL | 1.273 | 48XL | 3.056 | 1.42 | .72 | .46 | – | – | – | – | – | – |
| 1458 | 729 | 483 | 2.40 | 15XL | .955 | 36XL | 2.292 | 1.07 | .53 | .36 | – | – | – | – | 2.35† | 2.87† |
| 1432 | 716 | 475 | 2.44 | 18XL | 1.146 | 44XL | 2.801 | 1.28 | .64 | .42 | – | – | – | – | – | 2.24† |
| 1400 | 700 | 464 | 2.50 | 24XL | 1.528 | 60XL | 3.820 | 1.71 | .86 | .56 | – | – | – | – | – | – |
| 1400 | 700 | 464 | 2.50 | 16XL | 1.019 | 40XL | 2.546 | 1.15 | .58 | .38 | – | – | – | – | 2.05† | 2.58† |
| 1400 | 700 | 464 | 2.50 | 12XL | .764 | 30XL | 1.910 | .86 | .43 | .28 | – | – | 1.80‡ | 2.32‡ | – | 3.35† |
| 1375 | 688 | 456 | 2.55 | 11XL | .700 | 28XL | 1.783 | .79 ◊ | .39 | .26 | – | – | 1.97‡ | 2.49‡ | 2.84† | 3.50† |
| 1361 | 681 | 451 | 2.57 | 28XL | 1.783 | 72XL | 4.584 | 1.98 | 1.00 | .66 | – | – | – | 1.86† | 3.00‡ | 2.91† |
| 1361 | 681 | 451 | 2.57 | 14XL | .891 | 36XL | 2.292 | 1.00 | .50 | .33 | – | – | – | – | 2.39† | 2.45† |
| 1333 | 666 | 442 | 2.63 | 16XL | 1.019 | 42XL | 2.674 | 1.15 | .58 | .38 | – | – | – | – | – | – |
| 1312 | 656 | 435 | 2.67 | 18XL | 1.146 | 48XL | 3.056 | 1.28 | .64 | .42 | – | – | – | – | – | – |
| 1312 | 656 | 435 | 2.67 | 15XL | .955 | 40XL | 2.546 | 1.07 | .53 | .36 | – | – | – | – | 2.09† | 2.62† |
| 1312 | 656 | 435 | 2.67 | 12XL | .764 | 32XL | 2.037 | .86 | .43 | .28 | – | – | 1.67‡ | 2. 20‡ | 2.72† | 3.23† |
| 1283 | 642 | 425 | 2.73 | 22XL | 1.401 | 60XL | 3.820 | 1.57 | .79 | .52 | – | – | – | – | – | – |
| 1283 | 642 | 425 | 2.73 | 11XL | .700 | 30XL | 1.910 | .79 ◊ | .39 | .26 | – | – | 1.85‡ | 2.37‡ | 2.88‡ | 3.39‡ |
| 1273 | 638 | 422 | 2.75 | 16XL | 1.019 | 44XL | 2.801 | 1.15 | .58 | .38 | – | – | – | – | – | 2.32† |
| 1250 | 625 | 414 | 2.80 | 15XL | .955 | 42XL | 2.674 | 1.07 | .53 | .36 | – | – | – | – | – | 2.50† |
| 1225 | 613 | 406 | 2.86 | 21XL | 1.337 | 60XL | 3.820 | 1.49 | .75 | .50 | – | – | – | – | – | – |
| 1225 | 613 | 406 | 2.86 | 14XL | .891 | 40XL | 2.546 | 1.00 | .50 | .33 | – | – | – | – | 2.13† | 2.67† |
| 1203 | 601 | 399 | 2.91 | 11XL | .700 | 32XL | 2.037 | .79 ◊ | .39 | .26 | – | – | 1.71§ | 2.25‡ | 2.78‡ | 3.28‡ |
| 1193 | 597 | 396 | 2.93 | 15XL | .955 | 44XL | 2.801 | 1.07 | .53 | .36 | – | – | – | – | – | 2.36† |
| 1167 | 583 | 387 | 3.00 | 24XL | 1.528 | 72XL | 4.584 | 1.71 | .86 | .56 | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 20XL | 1.273 | 60XL | 3.820 | 1.42 | .72 | .46 | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 16XL | 1.019 | 48XL | 3.056 | 1.15 | .58 | .38 | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 14XL | .891 | 42XL | 2.874 | 1.00 | .50 | .33 | – | – | – | – | 1.99‡ | 2.54† |
| 1167 | 583 | 387 | 3.00 | 12XL | .764 | 36XL | 2.292 | .86 | .43 | .28 | – | – | – | 1.94‡ | 2.48‡ | 3.00‡ |
| 1114 | 557 | 370 | 3.14 | 14XL | .891 | 44XL | 2.801 | 1.00 | .50 | .33 | – | – | – | – | – | 2.40‡ |
| 1094 | 547 | 363 | 3.20 | 15XL | .955 | 48XL | 3.056 | 1.07 | .53 | .36 | – | – | – | – | – | – |
| 1089 | 535 | 355 | 3.27 | 22XL | 1.401 | 72XL | 4.584 | 1.57 | .79 | .52 | – | – | – | – | – | – |
| 1089 | 535 | 355 | 3.27 | 11XL | .700 | 36XL | 2.292 | .79 ◊ | .39 | .26 | – | – | – | 1.98§ | 2.52‡ | 3.04‡ |
| 1050 | 525 | 348 | 3.33 | 18XL | 1.146 | 60XL | 3.820 | 1.28 | .64 | .42 | – | – | – | – | – | – |
| 1050 | 525 | 348 | 3.33 | 12XL | .764 | 40XL | 2.546 | .86 | .43 | .28 | – | – | – | – | 2.21‡ | 2.75‡ |
| 1021 | 510 | 338 | 3.43 | 21XL | 1.337 | 72XL | 4.584 | 1.49 | .75 | .50 | – | – | – | – | – | – |
| 1021 | 510 | 338 | 3.43 | 14XL | .891 | 48XL | 3.056 | 1.00 | .50 | .33 | – | – | – | – | – | – |
| 1000 | 500 | 331 | 3.50 | 12XL | .764 | 42XL | 2.874 | .86 | .43 | .28 | – | – | – | – | 2.07‡ | 2.82‡ |
| 972 | 486 | 322 | 3.60 | 20XL | 1.273 | 72XL | 4.584 | 1.42 | .72 | .46 | – | – | – | – | – | – |
| 963 | 481 | 319 | 3.64 | 11XL | .700 | 40XL | 2.546 | .79 ◊ | .39 | .26 | – | – | – | – | 2.25§ | 2.79‡ |
| 955 | 477 | 316 | 3.67 | 12XL | .784 | 44XL | 2.801 | .86 | .43 | .28 | – | – | – | – | – | 2.48‡ |
| 933 | 467 | 309 | 3.75 | 16XL | 1.019 | 60XL | 3.820 | 1.15 | .58 | .38 | – | – | – | – | – | – |
| 917 | 458 | 304 | 3.82 | 11XL | .700 | 42XL | 2.674 | .79 | .39 | .26 | – | – | – | – | 2.11§ | 2.66‡ |
| 875 | 438 | 290 | 4.00 | 18XL | 1.146 | 72XL | 4.584 | 1.28 | .64 | .42 | – | – | – | – | – | – |
| 875 | 438 | 290 | 4.00 | 15XL | .955 | 60XL | 3.820 | 1.07 | .53 | .36 | – | – | – | – | – | – |
| 875 | 438 | 290 | 4.00 | 12XL | .764 | 48XL | 3.056 | .86 | .43 | .28 | – | – | – | – | – | 2.19§ |
| 875 | 438 | 290 | 4.00 | 11XL | .700 | 44XL | 2.801 | .79 ◊ | .39 | .26 | – | – | – | – | 1.96§ | 2.52§ |
| 817 | 408 | 270 | 4.29 | 14XL | .891 | 60XL | 3.820 | 1.00 | .50 | .33 | – | – | – | – | – | – |
| 802 | 401 | 266 | 4.36 | 11XL | .700 | 48XL | 3.056 | .79 ◊ | .39 | .26 | – | – | – | – | – | 2.23§ |
| 778 | 389 | 258 | 4.50 | 16XL | 1.019 | 72XL | 4.584 | 1.15 | .58 | .38 | – | – | – | – | – | – |
| 730 | 365 | 242 | 4.80 | 15XL | .955 | 72XL | 4.584 | 1.07 | .53 | .36 | – | – | – | – | – | – |
| 700 | 350 | 232 | 5.00 | 12XL | .764 | 60XL | 3.820 | .86 | .43 | .28 | – | – | – | – | – | – |
| 681 | 340 | 226 | 5.14 | 14XL | .891 | 72XL | 4.584 | 1.00 | .50 | .33 | – | – | – | – | – | – |
| 642 | 321 | 213 | 5.45 | 11XL | .700 | 60XL | 3.820 | .79 ◊ | .39 | .26 | – | – | – | – | – | – |
| 584 | 292 | 193 | 6.00 | 12XL | .764 | 72XL | 4.584 | .86 | .43 | .28 | – | – | – | – | – | – |
| 535 | 267 | 177 | 6.55 | 11XL | .700 | 72XL | 4.584 | .79 ◊ | .39 | .26 | – | – | – | – | – | – |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† ‡ § See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

# Selection

## XL Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 120XL | 130XL | 140XL | 150XL | 160XL | 170XL | 180XL | 190XL | 200XL | 210XL | 220XL | 230XL | 240XL | 250XL | 260XL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.39 | 2.92 | 3.44 | 3.95 | 4.46 | 4.97 | 5.48 | 5.98 | 6.49 | 6.99 | 7.50 | 8.00 | 8.50 | 9.00 | 9.51 |
| 3.65 | 4.16 | 4.66 | 5.16 | 5.67 | 6.17 | 6.67 | 7.17♥ | 7.67♥ | 8.18♥ | 8.68♥ | 9.18♥ | 9.68♥ | 10.18♥ | 10.68♥ |
| 2.89 | 3.41 | 3.92 | 4.43 | 4.94 | 5.44 | 5.95 | 6.45 | 6.95 | 7.46 | 7.96 | 8.46 | 8.96 | 9.46♥ | 9. 97v |
| 3.96† | 4.47† | 4.97† | 5.47† | 5.97† | 6.48† | 8.98† | 7.48† | 7.98† | 8.48† | 8.98† | 9.48† | 9.98† | 10.48† | 10.98† |
| – | – | – | – | – | – | 3.65 | 4.18 | 4.70 | 5.22 | 5.74 | 6.25 | 6.76 | 7.27 | 7.78 |
| 2.43 | 2.96 | 3.48 | 4.00 | 4.51 | 5.02 | 5.52 | 6.03 | 6.53 | 7.00 | 7.54 | 8.05 | 8.55 | 9.05 | 9.55 |
| 3.38 | 3.89 | 4.39 | 4.90 | 5.40 | 5.91 | 8.41 | 6.91 | 7.42 | 7.92♥ | 8.42♥ | 8.92♥ | 9.42♥ | 9.92♥ | 10.42♥ |
| 2.77 | 3.29 | 3.81 | 4.32 | 4.82 | 5.33 | 5.84 | 6.34 | 6.85 | 7.35 | 7.85 | 8.35 | 8.86 | 9.36♥ | 9. 86♥ |
| .... | .... | .... | 3.08 | 3.61 | 4.14 | 4.65 | 5.17 | 5.68 | 6.19 | 6.70 | 7.20 | 7.71 | 8.22 | 8.72 |
| 3.10 | 3.61 | 4.12 | 4.63 | 5.14 | 5.64 | 6.15 | 6.65 | 7.15 | 7.66 | 8.16♥ | 8.66♥ | 9.16♥ | 9.67♥ | 10.17♥ |
| 3.85† | 4.36† | 4.86† | 5.36† | 5.87† | 6.37† | 6.87† | 7.37† | 7.87† | 8.38† | 8.88† | 9.38† | 9.88† | 10.38† | 10.88† |
| 4.01† | 4.51† | 5.02† | 5.52† | 6.02† | 6.52† | 7.02† | 7.53† | 8.03† | 8.53† | 9.03† | 9.53† | 10.03† | 10.53† | 11.03† |
| – | – | – | – | – | – | 3.73 | 4.26 | 4.79 | 5.31 | 5.83 | 6.34 | 6.85 | 7.36 | 7.87 |
| 3.42 | 3.93 | 4.44 | 4.95 | 5.45 | 5.95 | 6.46 | 6.96 | 7.46♥ | 7.96♥ | 8.47♥ | 8.97♥ | 9.47♥ | 9.97♥ | 10.47♥ |
| 2.98 | 3.50 | 4.01 | 4.52 | 5.03 | 5.53 | 6.04 | 8.54 | 7.05 | 7.55 | 8.05 | 8.56© | 9.06© | 9.56♥ | 10.06♥ |
| 2.51 | 3.04 | 3.57 | 4.08 | 4.60 | 5.11 | 5.61 | 6.12 | 6.63 | 7.13 | 7.64 | 8.14 | 8.64 | 9.15 | 9.65♥ |
| 3.14 | 3.66 | 4.17 | 4.68 | 5.18 | 5.69 | 6.19 | 6.70 | 7.20♥ | 7.70♥ | 8.21♥ | 8.71♥ | 9.21♥ | 9.71♥ | 10.21♥ |
| 3.74† | 4.25† | 4.75† | 5.26† | 5.76† | 6.26†♥ | 6.77†♥ | 7.27†♥ | 7.77†♥ | 8.27†♥ | 8.77†♥ | 9.27†♥ | 9.77†♥ | 10.28†♥ | 10.78†♥ |
| – | – | – | 3.16 | 3.70 | 4.22 | 4.74 | 5.26 | 5.77 | 6.28 | 6.79 | 7.30 | 7.80 | 8.31 | 8.81 |
| 3.90‡ | 4.40† | 4.91† | 5.41† | 5.91† | 6.42† | 6.92† | 7.42† | 7.92† | 8.42† | 8.93† | 9.43† | 9.93† | 10.43† | 10.93† |
| 2.86 | 3.38 | 3.89 | 4.41 | 4.91 | 5.42 | 5.93 | 6.43 | 6.94 | 7.44 | 7.95 | 8.45♥ | 8.95♥ | 9.45♥ | 9.96♥ |
| 3.02 | 3.54 | 4.05 | 4.56 | 5.07 | 5.58 | 8.06 | 6.59 | 7.09 | 7.60 | 8.10♥ | 8.60♥ | 9.11♥ | 9.61♥ | 10.11♥ |
| – | – | – | 3.20 | 3.74 | 4.26 | 4.78 | 5.30 | 5.81 | 6.32 | 8.83 | 7.34 | 7.85 | 8.35 | 8.86 |
| 3.19† | 3.70† | 4.21 | 4.72 | 5.23 | 5.74 | 6.24 | 6.74 | 7.25♥ | 7.75♥ | 8.25♥ | 8.76♥ | 9.26♥ | 9.78♥ | 10.26♥ |
| 3.79‡ | 4.29‡ | 4.80† | 5.30† | 5.81†♥ | 6.31†♥ | 6.81†♥ | 7.31†♥ | 7.82†♥ | 8.32†♥ | 8.82†♥ | 9.32†♥ | 9.82†♥ | 10.32†♥ | 10.82†♥ |
| 2.90 | 3.42 | 3.94 | 4.45 | 4.96 | 5.47 | 5.97 | 6.48 | 6.98 | 7.49 | 7.99♥ | 8.50♥ | 9.00♥ | 9.50♥ | 10.00♥ |
| – | – | – | – | – | 3.34 | 3.89 | 4.43 | 4.96 | 5.48 | 6.00 | 6.52 | 7.03 | 7.54 | 8.05 |
| – | – | – | 3.24 | 3.78 | 4.31 | 4.83 | 5.34 | 5.86 | 6.37 | 6.88 | 7.39 | 7.89 | 8.40 | 8.90 |
| 2.59‡ | 3.13 | 3.65 | 4.17 | 4.68 | 5.20 | 5.70 | 6.21 | 6.72 | 7.22 | 7.73 | 8.23♥ | 8.74♥ | 9.24♥ | 9.74♥ |
| 3.07‡ | 3.58† | 4.10† | 4.61 | 5.12 | 5.62 | 6.13 | 6.64 | 7.14♥ | 7.64♥ | 8.15♥ | 8.65♥ | 9.15♥ | 9.65♥ | 10.16♥ |
| 3.51‡ | 4.02† | 4.53† | 5.04† | 5.54† | 6.05† | 6.55†♥ | 7.05†♥ | 7.56†♥ | 8.06†♥ | 8.56†♥ | 9.06†♥ | 9.57†♥ | 10.07†♥ | 10.57†♥ |
| 2.94† | 3.46† | 3.98‡ | 4.49 | 5.00 | 5.51 | 6.02 | 6.53 | 7.03 | 7.53♥ | 8.04♥ | 8.54♥ | 9.05♥ | 9.55♥ | 10.05♥ |
| 2.63† | 3.17‡ | 3.70 | 4.21 | 4.73 | 5.24 | 5.75 | 6.26 | 6.76 | 7.27 | 7.77♥ | 8.26♥ | 8.78♥ | 9.29♥ | 9.79♥ |
| – | – | – | – | – | 3.42 | 3.97 | 4.51 | 5.04 | 5.57 | 6.09 | 6.60 | 7.12 | 7.83 | 8.14 |
| 3.56‡ | 4.07‡ | 4.58‡ | 5.08‡ | 5.59‡ | 6.09†♥ | 6.60†♥ | 7.10†♥ | 7.60†♥ | 8.11†♥ | 8.61†♥ | 9.11†♥ | 9.61†♥ | 10.11†♥ | 10.62†♥ |
| – | – | 2.77 | 3.32 | 3.86 | 4.39 | 4.91 | 5.43 | 5.94 | 6.46 | 6.97 | 7.48 | 7.98 | 8.49 | 9.00 |
| 3.27‡ | 3.79† | 4.30‡ | 4.81† | 5.32† | 5.83† | 6.33†♥ | 6.84†♥ | 7.34†♥ | 7.84†♥ | 8.35†♥ | 8.85†♥ | 9.35†♥ | 9.86†♥ | 10.36†♥ |
| – | – | – | – | – | 3.46 | 4.01 | 4.55 | 5.08 | 5.61 | 6.13 | 6.65 | 7.16 | 7.67 | 8.18 |
| 2.67‡ | 3.21† | 3.74† | 4.26† | 4.77† | 5.28 | 5.79 | 6.30 | 6.81 | 7.32♥ | 7.82♥ | 8.33♥ | 8.83♥ | 9.33♥ | 9.84♥ |
| 3.15‡ | 3.67‡ | 4.19† | 4.70† | 5.21† | 5.72† | 6.22†♥ | 6.73†♥ | 7.23†♥ | 7.74†♥ | 8.24†♥ | 8.74†♥ | 9.25†♥ | 9.75†♥ | 10.25†♥ |
| – | – | – | – | – | 3.50 | 4.05 | 4.59 | 5.13 | 5.65 | 6.17 | 6.69 | 7.20 | 7.72 | 8.23 |
| 3.32‡ | 3.83‡ | 4.35‡ | 4.86‡ | 5.37‡ | 5.87†♥ | 6.38‡♥ | 6.88†♥ | 7.39†♥ | 7.89†♥ | 8.39†♥ | 8.90†♥ | 9.40†♥ | 9.90†♥ | 10.40†♥ |
| 3.02‡ | 3.55‡ | 4.07‡ | 4.58† | 5.09† | 5.60† | 6.11‡ | 6.62†♥ | 7.12†♥ | 7.63†♥ | 8.13†♥ | 8.64†♥ | 9.14†♥ | 9.64†♥ | 10.14†♥ |
| – | – | 2.84‡ | 3.40‡ | 3.94 | 4.47 | 5.00 | 5.52 | 6.03 | 6.55 | 7.06 | 7.57 | 8.07 | 8.55♥ | 9.09♥ |
| 3.19‡ | 3.71‡ | 4.23‡ | 4.74‡ | 5.25‡ | 5.76‡ | 6.27♥ | 6.77‡♥ | 7.28‡♥ | 7.78†♥ | 8.29†♥ | 8.79†♥ | 9.29†♥ | 9.80†♥ | 10.30†♥ |
| – | – | – | – | – | 3.57 | 4.13 | 4.68 | 5.21 | 5.74 | 6.26 | 6.78 | 7.29 | 7.81 | 8.32 |
| – | – | 2.88‡ | 3.44‡ | 3.99‡ | 4.52† | 5.04 | 5.56 | 6.08 | 8.59 | 7.10 | 7.61 | 8.12♥ | 8.63♥ | 9.13♥ |
| 2.75‡ | 3.29‡ | 3.82‡ | 4.34‡ | 4.86‡ | 5.37‡ | 5.88‡ | 6.39†♥ | 6.90‡♥ | 7.41†♥ | 7.91†♥ | 8.42†♥ | 8.92†♥ | 9.43†♥ | 9.93‡ |
| 3.06‡ | 3.59‡ | 4.11‡ | 4.63‡ | 5.14‡ | 5.65‡♥ | 6.16‡♥ | 6.66‡♥ | 7.17‡♥ | 7.67‡♥ | 8.18‡♥ | 8.68†♥ | 9.19†♥ | 9.69†♥ | 10.19†♥ |
| – | – | 2.92‡ | 3.48‡ | 4.03‡ | 4.56† | 5.08† | 5.60† | 6.12† | 6.63† | 7.15♥ | 7.66♥ | 8.16♥ | 8.67♥ | 9.18♥ |
| 2.79§ | 3.34‡ | 3.86‡ | 4.39† | 4.90‡ | 5.42‡ | 5.93‡♥ | 6.44‡♥ | 6.95‡♥ | 7.45‡♥ | 7.96‡♥ | 8.46♥ | 8.97‡♥ | 9.47†♥ | 9.98†♥ |
| – | – | – | – | 3.06‡ | 3.65† | 4.21† | 4.76† | 5.29 | 5.82 | 6.34 | 6.86 | 7.38 | 7.89 | 8.41♥ |
| – | – | – | – | 3.10‡ | 3.69‡ | 4.25† | 4.80† | 5.33† | 5.86† | 6.39 | 6.91 | 7.42 | 7.94♥ | 8.45♥ |
| – | – | 3.00 | 3.56‡ | 4.11‡ | 4.64‡ | 5.17‡ | 5.69‡ | 6.21‡♥ | 6.72‡♥ | 7.23‡♥ | 7.74†♥ | 5.25†♥ | 8.76‡♥ | 9.27†♥ |
| – | – | – | – | 3.14‡ | 3.73‡ | 4.29‡ | 4.84† | 5.38‡ | 5.90† | 8.43‡ | 8.95† | 7.47†♥ | 7.98†♥ | 8.49†♥ |
| – | – | 3.04§ | 3.60§ | 4.15‡ | 4.68‡ | 5.21‡ | 5.73‡♥ | 6.25‡♥ | 6.77‡♥ | 7.28‡♥ | 7.79‡♥ | 8.30‡♥ | 8.81‡♥ | 9.31‡♥ |
| – | – | – | – | 3.21§ | 3.81§ | 4.37‡ | 4.92‡ | 5.46‡ | 5.99‡ | 6.51‡♥ | 7.03‡♥ | 7.55‡♥ | 8.07‡♥ | 8.58‡♥ |
| – | – | – | – | 3.25§ | 3.84§ | 4.41§ | 4.96§ | 5.50‡ | 6.03‡♥ | 6.56‡♥ | 7.08‡♥ | 7.60‡♥ | 8.11‡♥ | 8.63‡♥ |

**XL Belt Width Table**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Belt Width Factor** | .15 | .28 | .35 | .42 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 |
| **Belt Width** | 1/4 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 |
| **Belt Width Code** | 025 | 037 | 043 | 050 | 062 | 075 | 087 | 100 | 125 | 150 |

**Teeth in Mesh Factor (T.I.M)**

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| None | 6 or More | 1.00 |
| † | 5 | .80 |

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| ‡ | 4 | .60 |
| § | 3 | .40 |

# Selection

## L Stock Drive Selections

| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | |
| | | | | No. of | Pitch | No. of | Pitch | | | | | | | | | |
| 3500 | 1750 | 1160 | | Teeth | Diam. | Teeth | Diam. | 3500 | 1750 | 1160 | 124L | 150L | 187L | 210L | 225L | 240L |
| 3500 | 1750 | 1160 | 1.00 | 48L | 5.730 | 48L | 5.730 | 6.27 | 4.06 | 2.81 | – | – | – | – | – | – |
| 3500 | 1750 | 1160 | 1.00 | 40L | 4.775 | 40L | 4.775 | 5.87 | 3.47 | 2.36 | – | – | – | – | – | – |
| 3500 | 1750 | 1160 | 1.00 | 32L | 3.820 | 32L | 3.820 | 5.10 | 2.83 | 1.91 | – | – | – | 4.51 | 5.26 | 6.01 |
| 3500 | 1750 | 1160 | 1.00 | 30L | 3.581 | 30L | 3.581 | 4.86 | 2.66 | 1.79 | – | – | – | 4.88 | 5.63 | 6.38 |
| 3500 | 1750 | 1160 | 1.00 | 28L | 3.342 | 28L | 3.342 | 4.71 | 2.49 | 1.67 | – | – | 4.13 | 5.26 | 6.01 | 6.76 |
| 3500 | 1750 | 1160 | 1.00 | 26L | 3.104 | 26L | 3.104 | 4.35 | 2.32 | 1.56 | – | – | 4.51 | 5.83 | 6.38 | 7.13 |
| 3500 | 1750 | 1160 | 1.00 | 24L | 2.865 | 24L | 2.865 | 4.06 | 2.15 | 1.44 | – | – | 4.88 | 6.01 | 6.76 | 7.51 |
| 3500 | 1750 | 1160 | 1.00 | 22L | 2.626 | 22L | 2.626 | 3.77 | 1.98 | 1.32 | – | 3.38 | 5.26 | 6.39 | 7.13 | 7.89 |
| 3500 | 1750 | 1160 | 1.00 | 20L | 2.387 | 20L | 2.387 | 3.46 | 1.80 | 1.20 | – | 3.76 | 5.63 | 6.76 | 7.51 | 8.26 |
| 3500 | 1750 | 1160 | 1.00 | 18L | 2.149 | 18L | 2.149 | 3.15 | 1.62 | 1.08 | 2.82 | 4.13 | 6.01 | 7.14 | 7.89 | 8.64 |
| 3500 | 1750 | 1160 | 1.00 | 16L | 1.910 | 16L | 1.910 | 2.83 | 1.45 | .97 | 3.20 | 4.51 | 6.39 | 7.51 | 8.26 | 9.01 |
| 3500 | 1750 | 1160 | 1.00 | 14L | 1.671 | 14L | 1.671 | 2.49◊ | 1.27 | .85 | 3.57 | 4.89 | 6.76 | 7.89 | 8.64 | 9.39 |
| – | 1750 | 1160 | 1.00 | 12L | 1.432 | 12L | 1.432 | – | 1.09◊ | .72 | 3.95 | 5.26 | 7.14 | 8.26 | 9.01 | 9.76 |
| – | 1750 | 1160 | 1.00 | 10L | 1.194 | 10L | 1.194 | – | .91◊ | .60◊ | 4.32† | 5.64† | 7.51◊ | 8.64† | 9.39† | 10.14† |
| 3281 | 1641 | 1087 | 1.07 | 30L | 3.581 | 32L | 3.820 | 4.86 | 2.66 | 1.79 | – | – | – | 4.69 | 5.44 | 6.19 |
| 3267 | 1633 | 1083 | 1.07 | 28L | 3.342 | 30L | 3.581 | 4.61 | 2.49 | 1.67 | – | – | 3.94 | 5.07 | 5.82 | 6.57 |
| 3250 | 1625 | 1077 | 1.08 | 26L | 3.104 | 28L | 3.342 | 4.35 | 2.32 | 1.56 | – | – | 4.32 | 5.44 | 6.19 | 6.95 |
| 3231 | 1615 | 1071 | 1.08 | 24L | 2.865 | 26L | 3.104 | 4.06 | 2.15 | 1.44 | – | – | 4.69 | 5.82 | 6.57 | 7.32 |
| 3208 | 1604 | 1063 | 1.09 | 22L | 2.626 | 24L | 2.865 | 3.77 | 1.98 | 1.32 | – | – | 5.07 | 6.20 | 6.95 | 7.70 |
| 3182 | 1591 | 1055 | 1.10 | 20L | 2.387 | 22L | 2.626 | 3.46 | 1.80 | 1.20 | – | 3.57 | 5.45 | 6.57 | 7.32 | 8.07 |
| 3150 | 1575 | 1044 | 1.11 | 18L | 2.149 | 20L | 2.387 | 3.15 | 1.62 | 1.08 | – | 3.94 | 5.82 | 6.95 | 7.70 | 8.45 |
| 3111 | 1556 | 1031 | 1.13 | 16L | 1.910 | 18L | 2.149 | 2.83 | 1.45 | .97 | – | 4.32 | 6.20 | 7.32 | 8.07 | 8.82 |
| 3063 | 1531 | 1015 | 1.14 | 28L | 3.342 | 32L | 3.820 | 4.61 | 2.49 | 1.67 | – | – | – | 4.88 | 5.63 | 6.38 |
| 3036 | 1531 | 1015 | 1.14 | 14L | 1.671 | 16L | 1.910 | 2.49◊ | 1.27 | .85 | 3.38 | 4.70 | 6.57 | 7.70 | 8.45 | 9.20 |
| 3033 | 1517 | 1005 | 1.15 | 26L | 3.104 | 30L | 3.581 | 4.35 | 2.32 | 1.56 | – | – | 4.12 | 5.25 | 6.00 | 6.75 |
| 3000 | 1500 | 994 | 1.17 | 24L | 2.865 | 28L | 3.342 | 4.06 | 2.15 | 1.44 | – | – | 4.50 | 5.63 | 6.38 | 7.13 |
| – | 1500 | 994 | 1.17 | 12L | 1.432 | 14L | 1.671 | – | 1.09◊ | .72 | 3.76† | 5.07† | 6.95† | 8.07† | 8.83† | 9.57◊ |
| 2962 | 1481 | 982 | 1.18 | 22L | 2.626 | 26L | 3.104 | 3.77 | 1.62 | 1.32 | – | – | 4.88 | 6.00 | 6.76 | 7.51 |
| 2917 | 1458 | 967 | 1.20 | 40L | 4.775 | 48L | 5.730 | 5.87 | 3.47 | 2.36 | – | – | – | – | – | – |
| 2917 | 1458 | 967 | 1.20 | 20L | 2.387 | 24L | 2.865 | 3.46 | 1.80 | 1.20 | – | 3.37 | 5.25 | 6.38 | 7.13 | 7.88 |
| – | 1458 | 967 | 1.20 | 10L | 1.194 | 12L | 1.432 | – | .91◊ | .60◊ | 4.13‡ | 5.45‡ | 7.32‡ | 8.45‡ | 9.20‡ | 9.95‡ |
| 2864 | 1432 | 949 | 1.22 | 18L | 2.149 | 22L | 2.626 | 3.15 | 1.62 | 1.08 | – | 3.75 | 5.63 | 6.76 | 7.51 | 8.26 |
| 2844 | 1422 | 943 | 1.23 | 26L | 3.104 | 32L | 3.820 | 4.35 | 2.32 | 1.56 | – | – | – | 5.06 | 5.81 | 6.56 |
| 2800 | 1400 | 928 | 1.25 | 48L | 5.730 | 60L | 7.162 | 6.27 | 4.06 | 2.81 | – | – | – | – | – | – |
| 2800 | 1400 | 928 | 1.25 | 32L | 3.820 | 40L | 4.775 | 5.10 | 2.83 | 1.91 | – | – | – | – | – | 5.29 |
| 2800 | 1400 | 928 | 1.25 | 24L | 2.865 | 30L | 3.581 | 4.06 | 2.15 | 1.44 | – | – | 4.31 | 5.43 | 6.19 | 6.94 |
| 2800 | 1400 | 928 | 1.25 | 16L | 1.910 | 20L | 2.387 | 2.83 | 1.45 | .97 | 2.81 | 4.13 | 6.01 | 7.13 | 7.88 | 8.63 |
| 2750 | 1375 | 911 | 1.27 | 22L | 2.626 | 28L | 3.342 | 3.77 | 1.98 | 1.32 | – | – | – | 5.81 | 6.56 | 7.31 |
| 2722 | 1361 | 902 | 1.29 | 14L | 1.671 | 18L | 2.149 | 2.49◊ | 1.27 | .85 | 3.19 | 4.50 | 6.38 | 7.51 | 8.26 | 9.01 |
| 2692 | 1346 | 892 | 1.30 | 20L | 2.387 | 26L | 3.104 | 3.46 | 1.80 | 1.20 | – | – | 5.06 | 6.19 | 6.94 | 7.69 |
| 2625 | 1313 | 870 | 1.33 | 30L | 3.581 | 40L | 4.775 | 4.86 | 2.66 | 1.79 | – | – | – | – | 4.66 | 5.41 |
| 2625 | 1313 | 870 | 1.33 | 24L | 2.865 | 32L | 3.820 | 4.06 | 2.15 | 1.44 | – | – | 4.10 | 5.24 | 5.99 | 6.74 |
| 2625 | 1313 | 870 | 1.33 | 18L | 2.149 | 24L | 2.865 | 3.15 | 1.62 | 1.08 | 3.56† | 3.55 | 5.44 | 6.56 | 7.31 | 8.06 |
| – | 1313 | 870 | 1.33 | 12L | 1.432 | 16L | 1.910 | – | 1.09◊ | .72 | – | 4.88† | 6.76† | 7.88† | 8.63† | 9.38† |
| 2567 | 1283 | 851 | 1.36 | 22L | 2.626 | 30L | 3.581 | 3.77 | 1.98 | 1.32 | – | – | 4.48 | 5.61 | 6.37 | 7.12 |
| 2545 | 1273 | 844 | 1.38 | 16L | 1.910 | 22L | 2.626 | 2.83 | 1.45 | .97 | 2.61 | 3.93 | 5.81 | 6.94 | 7.69 | 8.44 |
| 2500 | 1250 | 829 | 1.40 | 20L | 2.387 | 28L | 3.342 | 3.46 | 1.80 | 1.20 | – | – | 4.86 | 5.99 | 6.74 | 7.49 |
| – | 1250 | 829 | 1.40 | 10L | 1.194 | 14L | 1.671 | – | .91◊ | .60◊ | 3.94‡ | 5.26‡ | 7.13‡ | 8.26‡ | 9.01‡ | 9.76‡ |
| 2450 | 1225 | 812 | 1.43 | 28L | 3.342 | 40L | 4.775 | 4.61 | 2.49 | 1.67 | – | – | – | – | 4.83 | 5.59 |
| 2450 | 1225 | 812 | 1.43 | 14L | 1.671 | 20L | 2.387 | 2.49◊ | 1.27 | .85 | 2.99 | 4.31 | 6.19 | 7.32 | 8.07 | 8.82 |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† ‡ § See Teeth in Mesh table on opposite page.

# Selection

## L Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 255L | 270L | 285L | 300L | 322L | 345L | 367L | 390L | 420L | 450L | 480L | 510L | 540L | 600L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| – | – | – | – | 7.13 | 8.26 | 9.38 | 10.51 | 12.01 | 13.51 | 15.01 | 16.51 | 18.01 | 21.01 |
| 5.26 | 6.01 | 6.76 | 7.51 | 8.63 | 9.76 | 10.88 | 12.01 | 13.51 | 15.01 | 16.51 | 18.01 | 19.51 | 22.51 |
| 6.76 | 7.51 | 8.26 | 9.01 | 10.14 | 11.26 | 12.39 | 13.51 | 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 24.01 |
| 7.13 | 7.88 | 8.63 | 9.39 | 10.51 | 11.64 | 12.76 | 13.89 | 15.39 | 16.89 | 18.39 | 19.89 | 21.39 | 24.39 |
| 7.51 | 5.26 | 9.01 | 9.76 | 10.89 | 12.01 | 13.14 | 14.26 | 15.76 | 17.26 | 18.76 | 20.26 | 21.76 | 24.76 |
| 7.88 | 8.63 | 9.39 | 10.14 | 11.26 | 12.39 | 13.51 | 14.64 | 16.14 | 17.64 | 19.14 | 20.64 | 22.14 | 25.14 |
| 8.26 | 9.01 | 9.76 | 10.51 | 11.64 | 12.76 | 13.89 | 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 25.50 |
| 8.64 | 9.39 | 10.14 | 10.89 | 12.01 | 13.14 | 14.26 | 15.39 | 16.89 | 18.39 | 19.89 | 21.39 | 22.89 | 25.89 |
| 9.01 | 9.76 | 10.51 | 11.26 | 12.39 | 13.51 | 14.64 | 15.76 | 17.26 | 18.76 | 20.26 | 21.76 | 23.26 | 26.26 |
| 9.39 | 10.14 | 10.89 | 11.64 | 12.76 | 13.89 | 15.01 | 16.14 | 17.64 | 19.14 | 20.64 | 22.14 | 23.64 | 26.64 |
| 9.76 | 10.51 | 11.26 | 12.01 | 13.14 | 14.26 | 15.39 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 27.01 |
| 10.14 | 10.89 | 11.64 | 12.39 | 13.51 | 14.64 | 15.76 | 16.89 | 19.89 | 19.89 | 21.39 | 22.89 | 24.39 | 27.39 |
| 10.51 | 11.26 | 12.01 | 12.76 | 13.89 | 15.01 | 16.14 | 17.26 | 18.40 | 20.26 | 21.76 | 23.26 | 24.76 | 27.76 |
| 10.89† | 11.64† | 12.39† | 13.14† | 14.26† | 15.39† | 16.51† | 17.64† | 19.14† | 20.64† | 22.14† | 23.64† | 25.14† | 28.14† |
| 6.94 | 7.69 | 8.45 | 9.20 | 10.32 | 11.47 | 12.57 | 13.70 | 15.20 | 16.70 | 18.20 | 19.70 | 21.20 | 24.20 |
| 7.32 | 8.07 | 8.82 | 9.57 | 10.70 | 11.82 | 12.95 | 14.07 | 15.57 | 17.07 | 18.57 | 20.07 | 21.57 | 24.57 |
| 7.70 | 8.45 | 9.20 | 9.95 | 11.07 | 12.20 | 13.32 | 14.45 | 15.95 | 17.45 | 18.95 | 20.45 | 21.95 | 24.95 |
| 8.07 | 8.82 | 9.57 | 10.32 | 11.45 | 12.57 | 13.70 | 14.82 | 16.33 | 17.82 | 19.32 | 20.82 | 22.33 | 25.33 |
| 8.45 | 9.20 | 9.95 | 10.70 | 11.82 | 12.95 | 14.07 | 15.20 | 16.70 | 18.20 | 19.70 | 21.20 | 22.70 | 25.70 |
| 8.82 | 9.57 | 10.32 | 11.07 | 12.20 | 13.33 | 14.45 | 15.58 | 17.07 | 18.57 | 20.08 | 21.58 | 23.08 | 26.08 |
| 9.20 | 9.95 | 10.70 | 11.45 | 12.57 | 13.70 | 14.82 | 15.95 | 17.45 | 18.95 | 20.45 | 21.95 | 23.45 | 26.45 |
| 9.57 | 10.32 | 11.07 | 11.83 | 12.95 | 14.07 | 15.20 | 16.33 | 17.83 | 19.32 | 20.82 | 22.33 | 23.83 | 26.83 |
| 7.13 | 7.88 | 8.63 | 9.38 | 10.51 | 11.63 | 12.76 | 13.88 | 15.38 | 16.89 | 18.39 | 19.89 | 21.39 | 24.39 |
| 9.95 | 10.70 | 11.45 | 12.20 | 13.33 | 14.45 | 15.58 | 16.70 | 18.20 | 19.70 | 21.20 | 22.70 | 24.20 | 27.20 |
| 7.51 | 8.26 | 9.01 | 9.76 | 10.88 | 12.01 | 13.14 | 14.26 | 15.76 | 17.26 | 18.76 | 20.26 | 21.76 | 24.76 |
| 7.88 | 8.63 | 9.38 | 10.13 | 11.26 | 12.38 | 13.51 | 14.64 | 16.13 | 17.64 | 19.13 | 20.64 | 22.14 | 25.14 |
| 10.32† | 11.07† | 11.83† | 12.58† | 13.70† | 14.83† | 15.95† | 17.08† | 18.57† | 20.08† | 21.58† | 23.08† | 24.58† | 27.58 |
| 8.26 | 9.01 | 9.76 | 10.51 | 11.63 | 12.76 | 13.88 | 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 25.51 |
| – | – | 5.99 | 6.74 | 7.87 | 9.00 | 10.12 | 11.25 | 12.75 | 14.25 | 15.75 | 17.25 | 18.76 | 21.76 |
| 8.63 | 9.38 | 10.13 | 10.88 | 12.01 | 13.13 | 14.26 | 15.38 | 16.89 | 18.39 | 19.89 | 21.39 | 22.89 | 25.89 |
| 10.70‡ | 11.45‡ | 12.20‡ | 12.95‡ | 14.08‡ | 15.20‡ | 16.33‡ | 17.45‡ | 18.95‡ | 20.45‡ | 21.95‡ | 23.45‡ | 24.95‡ | 27.95‡ |
| 9.01 | 9.76 | 10.51 | 11.26 | 12.39 | 13.51 | 14.64 | 15.76 | 17.26 | 18.76 | 20.26 | 21.76 | 23.36 | 26.26 |
| 7.31 | 8.06 | 8.81 | 9.57 | 10.69 | 11.82 | 12.94 | 14.11 | 15.57 | 17.07 | 18.57 | 20.07 | 21.57 | 24.57 |
| – | – | – | – | – | 7.45 | 8.58 | 9.36 | 10.86 | 12.36 | 13.87 | 15.37 | 16.87 | 19.87 |
| 5.99 | 6.74 | 7.49 | 8.25 | 9.37 | 10.50 | 11.62 | 12.75 | 14.25 | 15.75 | 17.26 | 18.76 | 20.26 | 23.26 |
| 7.69 | 8.44 | 9.19 | 9.04 | 11.07 | 12.19 | 13.32 | 14.44 | 15.94 | 17.45 | 18.95 | 20.45 | 21.95 | 24.95 |
| 9.38 | 10.13 | 10.88 | 11.64 | 12.76 | 13.89 | 15.01 | 16.13 | 17.64 | 19.14 | 20.64 | 22.14 | 23.64 | 26.64 |
| 8.06 | 8.81 | 9.57 | 10.32 | 11.44 | 12.57 | 13.69 | 14.82 | 16.32 | 17.82 | 19.32 | 20.82 | 22.32 | 25.32 |
| 9.76 | 10.51 | 11.26 | 12.01 | 13.14 | 14.26 | 15.39 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 27.01 |
| 8.44 | 9.19 | 9.94 | 10.69 | 11.82 | 12.94 | 14.11 | 15.20 | 16.70 | 18.20 | 19.70 | 21.20 | 22.70 | 25.70 |
| 6.17 | 6.92 | 7.67 | 8.43 | 9.55 | 10.68 | 11.81 | 12.93 | 14.44 | 15.94 | 17.44 | 18.94 | 20.44 | 23.44 |
| 7.49 | 8.25 | 9.00 | 9.75 | 10.88 | 12.00 | 13.13 | 14.25 | 15.75 | 17.26 | 18.76 | 20.26 | 21.76 | 24.76 |
| 8.82 | 9.57 | 10.32 | 11.07 | 12.19 | 13.32 | 14.45 | 15.57 | 17.07 | 18.57 | 20.07 | 21.57 | 23.07 | 26.07 |
| 10.13† | 10.88† | 11.64† | 12.39† | 13.51† | 14.64† | 15.76† | 16.89† | 18.39† | 19.89† | 21.39† | 22.89† | 24.39† | 27.39† |
| 7.87 | 8.62 | 9.37 | 10.13 | 11.25 | 12.38 | 13.50 | 14.63 | 16.13 | 17.63 | 19.13 | 20.63 | 22.13 | 25.13 |
| 9.19 | 9.94 | 10.69 | 11.44 | 12.57 | 13.70 | 14.82 | 15.95 | 17.45 | 18.95 | 20.45 | 21.95 | 23.45 | 26.45 |
| 8.25 | 9.00 | 9.75 | 10.50 | 11.63 | 12.75 | 13.88 | 15.00 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 25.51 |
| 10.51‡ | 11.26‡ | 12.01‡ | 12.76‡ | 13.89‡ | 15.01‡ | 16.14‡ | 17.26‡ | 18.76‡ | 20.26‡ | 21.77‡ | 23.36‡ | 24.76‡ | 27.76‡ |
| 6.34 | 7.10 | 7.85 | 8.60 | 9.73 | 10.86 | 11.99 | 13.12 | 14.62 | 16.12 | 17.62 | 19.12 | 20.63 | 23.63 |
| 9.57 | 10.32 | 11.07 | 11.82 | 12.95 | 14.11 | 15.20 | 16.32 | 17.82 | 19.32 | 20.82 | 22.32 | 23.82 | 26.82 |

**L Belt Width Table**

| Belt Width Factor | .28 | .35 | .45 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 |
| Belt Width Code | 037 | 043 | 050 | 062 | 075 | 087 | 100 | 125 | 150 | 175 | 200 | 250 | 300 |

**Teeth in Mesh Factor (T.I.M)**

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| None | 6 or More | 1.00 |
| † | 5 | .80 |

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| ‡ | 4 | .60 |

# Selection

## L Stock Drive Selections



| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | |
| 3500 | 1750 | 1160 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500 | 1750 | 1160 | 124L | 150L | 187L | 210L | 225L | 240L |
| 2423 | 1212 | 803 | 1.44 | 18L | 2.149 | 26L | 3.104 | 3.15 | 1.62 | 1.08 | – | – | 5.24 | 6.37 | 7.12 | 7.87 |
| 2406 | 1203 | 798 | 1.45 | 22L | 2.626 | 32L | 3.820 | 3.77 | 1.98 | 1.32 | – | – | 4.28 | 5.41 | 6.17 | 6.92 |
| 2333 | 1167 | 733 | 1.50 | 48L | 5.730 | 72L | 8.594 | 6.27 | 4.06 | 2.81 | – | – | – | – | – | – |
| 2333 | 1167 | 733 | 1.50 | 40L | 4.775 | 60L | 7.162 | 5.87 | 3.47 | 2.36 | – | – | – | – | – | – |
| 2333 | 1167 | 733 | 1.50 | 32L | 3.820 | 48L | 5.730 | 5.10 | 2.83 | 1.91 | – | – | – | – | – | – |
| 2333 | 1167 | 733 | 1.50 | 20L | 2.387 | 30L | 3.581 | 3.46 | 1.80 | 1.20 | – | – | 4.66 | 5.79 | 6.54 | 7.30 |
| 2333 | 1167 | 733 | 1.50 | 16L | 1.910 | 24L | 2.865 | 2.83 | 1.45 | .97 | – | 3.73 | 5.61 | 6.74 | 7.50 | 8.25 |
| – | 1167 | 733 | 1.50 | 12L | 1.432 | 18L | 2.149 | – | 1.09◊ | .72 | 3.36† | 4.68† | 6.56† | 7.69† | 8.44† | 9.19† |
| 2275 | 1138 | 754 | 1.54 | 26L | 3.104 | 40L | 4.775 | 4.35 | 2.32 | 1.56 | – | – | – | 4.24 | 5.00 | 5.76 |
| 2250 | 1125 | 746 | 1.56 | 18L | 2.149 | 28L | 3.342 | 3.15 | 1.62 | 1.08 | – | – | 5.04 | 6.07 | 6.92 | 7.67 |
| 2227 | 1114 | 738 | 1.57 | 14L | 1.671 | 22L | 2.626 | 2.49◊ | 1.27 | .85 | 2.78 | 4.11 | 5.99 | 7.12 | 7.87 | 8.62 |
| 2188 | 1094 | 725 | 1.60 | 30L | 3.581 | 48L | 5.730 | 4.86 | 2.66 | 1.79 | – | – | – | – | – | – |
| 2188 | 1094 | 725 | 1.60 | 20L | 2.387 | 32L | 3.820 | 3.46 | 1.80 | 1.20 | – | – | 4.45 | 5.59 | 6.34 | 7.10 |
| – | 1094 | 725 | 1.60 | 10L | 1.194 | 16L | 1.910 | – | .91◊ | .60◊ | 3.74‡ | 5.06‡ | 6.94‡ | 8.07‡ | 8.82‡ | 9.57‡ |
| 2154 | 1077 | 714 | 1.63 | 16L | 1.910 | 26L | 3.104 | 2.83 | 1.45 | .97 | – | 3.52 | 5.41 | 6.55 | 7.30 | 8.05 |
| 2100 | 1050 | 696 | 1.67 | 24L | 2.865 | 40L | 4.775 | 4.06 | 2.15 | 1.44 | – | – | – | 4.40 | 5.17 | 5.93 |
| 2100 | 1050 | 696 | 1.67 | 18L | 2.149 | 30L | 3.581 | 3.15 | 1.62 | 1.08 | – | 2.92 | 4.83 | 5.97 | 6.72 | 7.48 |
| – | 1050 | 696 | 1.67 | 12L | 1.432 | 20L | 2.387 | – | 1.09◊ | .72 | 3.16† | 4.48† | 6.37† | 7.50† | 8.25† | 9.00† |
| 2042 | 1021 | 677 | 1.71 | 28L | 3.342 | 48L | 5.730 | 4.61 | 2.49 | 1.67 | – | – | – | – | – | 4.73 |
| 2042 | 1021 | 677 | 1.71 | 14L | 1.671 | 24L | 2.865 | 2.49◊ | 1.27 | .85 | – | 3.90 | 5.79 | 6.92 | 7.67 | 8.43 |
| 2000 | 1000 | 663 | 1.75 | 48L | 5.730 | 84L | 10.027 | 6.27 | 4.06 | 2.81 | – | – | – | – | – | – |
| 2000 | 1000 | 663 | 1.75 | 16L | 1.910 | 28L | 3.342 | 2.83 | 1.45 | .97 | – | – | 5.21 | 6.34 | 7.10 | 7.85 |
| 1969 | 985 | 652 | 1.78 | 18L | 2.149 | 32L | 3.820 | 3.15 | 1.62 | 1.08 | – | – | 4.62 | 5.76 | 6.52 | 7.27 |
| 1944 | 972 | 644 | 1.80 | 40L | 4.775 | 72L | 8.594 | 5.87 | 3.47 | 2.36 | – | – | – | – | – | – |
| – | 972 | 644 | 1.80 | 10L | 1.194 | 18L | 2.149 | – | .91◊ | .60◊ | 3.54‡ | 4.86‡ | 6.74‡ | 7.87‡ | 8.62‡ | 9.38‡ |
| 1925 | 963 | 638 | 1.82 | 22L | 2.626 | 40L | 4.775 | 3.77 | 1.98 | 1.32 | – | – | – | 4.57 | 5.34 | 6.10 |
| – | 955 | 633 | 1.83 | 12L | 1.432 | 22L | 2.626 | – | 1.09◊ | .72 | 2.95† | 4.28† | 6.17† | 7.50† | 8.05† | 8.80† |
| 1896 | 948 | 628 | 1.85 | 26L | 3.104 | 48L | 5.730 | 4.35 | 2.32 | 1.56 | – | – | – | – | – | 4.89 |
| 1885 | 942 | 625 | 1.86 | 14L | 1.671 | 26L | 3.104 | 2.49◊ | 1.27 | .85 | – | 3.69 | 5.59 | 6.72 | 7.48 | 8.23 |
| 1867 | 933 | 619 | 1.88 | 32L | 3.820 | 60L | 7.162 | 5.10 | 2.83 | 1.91 | – | – | – | – | – | – |
| 1867 | 933 | 619 | 1.88 | 16L | 1.910 | 30L | 3.581 | 2.83 | 1.45 | .97 | – | – | 5.00 | 6.14 | 6.90 | 7.65 |
| 1750 | 875 | 580 | 2.00 | 30L | 3.581 | 60L | 7.162 | 4.86 | 2.66 | 1.79 | – | – | – | – | – | – |
| 1750 | 875 | 580 | 2.00 | 24L | 2.865 | 48L | 5.730 | 4.06 | 2.15 | 1.44 | – | – | – | – | – | 5.05 |
| 1750 | 875 | 580 | 2.00 | 20L | 2.387 | 40L | 4.775 | 3.46 | 1.80 | 1.20 | – | – | – | 4.73 | 5.50 | 6.27 |
| 1750 | 875 | 580 | 2.00 | 16L | 1.910 | 32L | 3.820 | 2.83 | 1.45 | .97 | – | – | 4.79 | 5.93 | 6.69 | 7.45 |
| 1750 | 875 | 580 | 2.00 | 14L | 1.671 | 28L | 3.342 | 2.49 | 1.27 | .85 | – | 3.47 | 5.38 | 6.52 | 7.27 | 8.03 |
| – | 875 | 580 | 2.00 | 12L | 1.432 | 24L | 2.865 | – | 1.09◊ | .72 | 2.72† | 4.07† | 5.97† | 7.10† | 7.85† | 8.61† |
| – | 875 | 580 | 2.00 | 10L | 1.194 | 20L | 2.387 | – | .91◊ | .60◊ | 3.33‡ | 4.66‡ | 6.55‡ | 7.68‡ | 8.43‡ | 9.18‡ |
| 1667 | 833 | 552 | 2.10 | 40L | 4.775 | 84L | 10.027 | 5.87 | 3.47 | 2.36 | – | – | – | – | – | – |
| 1633 | 817 | 541 | 2.14 | 28L | 3.342 | 60L | 7.162 | 4.61 | 2.49 | 1.67 | – | – | – | – | – | – |
| 1633 | 817 | 541 | 2.14 | 14L | 1.671 | 30L | 3.581 | 2.49◊ | 1.27 | .85 | – | 3.24† | 5.17 | 6.31 | 7.07 | 7.83 |
| – | 808 | 535 | 2.17 | 12L | 1.432 | 26L | 3.104 | – | 1.09◊ | .72 | – | 3.85† | 5.76† | 6.90† | 7.65† | 8.41† |
| 1604 | 802 | 532 | 2.18 | 22L | 2.626 | 48L | 5.730 | 3.77 | 1.98 | 1.32 | – | – | – | – | – | 5.21 |
| – | 795 | 527 | 2.20 | 10L | 1.194 | 22L | 2.626 | – | .91◊ | .60◊ | 3.11‡ | 4.45‡ | 6.35‡ | 7.48‡ | 8.23‡ | 8.98‡ |
| 1575 | 788 | 522 | 2.22 | 18L | 2.149 | 40L | 4.775 | 3.15 | 1.62 | 1.08 | – | – | – | 4.89 | 5.67 | 6.44 |
| 1556 | 778 | 516 | 2.25 | 32L | 3.820 | 72L | 8.594 | 5.10 | 2.83 | 1.91 | – | – | – | – | – | – |
| 1531 | 766 | 507 | 2.29 | 14L | 1.671 | 32L | 3.820 | 2.49◊ | 1.27 | .85 | – | – | 4.95† | 6.10 | 6.86 | 7.62 |
| 1517 | 758 | 503 | 2.31 | 26L | 3.104 | 60L | 7.162 | 4.35 | 2.32 | 1.56 | – | – | – | – | – | – |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

† ‡ See Teeth in Mesh table on opposite page.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

# Selection

## L Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 255L | 270L | 285L | 300L | 322L | 345L | 367L | 390L | 420L | 450L | 480L | 510L | 540L | 600L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.62 | 9.37 | 10.13 | 10.88 | 12.00 | 13.13 | 14.25 | 15.38 | 16.88 | 18.38 | 19.88 | 21.38 | 22.88 | 25.88 |
| 7.67 | 8.43 | 9.18 | 9.93 | 11.06 | 12.18 | 13.31 | 14.44 | 15.94 | 17.44 | 18.94 | 20.44 | 21.94 | 24.94 |
| – | – | – | – | – | – | – | 8.13 | 9.65 | 11.17 | 12.68 | 14.19 | 15.69 | 18.70 |
| – | – | – | – | 6.65 | 7.79 | 8.93 | 10.06 | 11.57 | 13.08 | 14.59 | 16.09 | 17.60 | 20.60 |
| 5.17 | 5.93 | 6.69 | 7.45 | 8.58 | 9.71 | 10.84 | 11.97 | 13.48 | 14.98 | 16.48 | 17.99 | 19.49 | 22.49 |
| 8.05 | 8.80 | 9.55 | 10.31 | 11.43 | 12.56 | 13.69 | 14.81 | 16.31 | 17.81 | 19.32 | 20.82 | 22.32 | 25.32 |
| 9.00 | 9.75 | 10.50 | 11.24 | 12.38 | 13.50 | 14.63 | 15.76 | 17.26 | 18.76 | 20.26 | 21.76 | 23.26 | 26.26 |
| 9.94† | 10.69† | 11.44† | 12.20† | 13.32† | 14.45† | 15.57† | 16.70† | 18.20† | 19.70† | 21.20† | 22.70† | 24.20† | 27.20† |
| 6.52 | 7.27 | 8.03 | 8.78 | 9.91 | 11.04 | 12.17 | 13.30 | 14.80 | 16.30 | 17.80 | 19.31 | 20.81 | 23.81 |
| 8.43 | 9.18 | 9.93 | 10.68 | 11.81 | 12.94 | 14.06 | 15.19 | 16.69 | 18.19 | 19.69 | 21.19 | 22.69 | 25.69 |
| 9.37 | 10.13 | 10.88 | 11.63 | 12.75 | 13.88 | 15.00 | 16.13 | 17.63 | 19.13 | 20.63 | 22.13 | 23.63 | 26.63 |
| 5.34 | 6.10 | 6.86 | 7.62 | 8.75 | 9.89 | 11.02 | 12.15 | 13.66 | 15.16 | 16.66 | 18.17 | 19.67 | 22.67 |
| 7.85 | 8.60 | 9.36 | 10.11 | 11.24 | 12.37 | 13.49 | 14.62 | 16.12 | 17.62 | 19.12 | 20.63 | 22.13 | 25.13 |
| 10.32‡ | 11.07‡ | 11.82‡ | 12.57‡ | 13.70‡ | 14.82‡ | 15.95‡ | 17.07‡ | 18.57‡ | 20.07‡ | 21.57‡ | 23.07‡ | 24.57‡ | 27.57‡ |
| 8.80 | 9.55 | 10.31 | 11.06 | 12.19 | 13.31 | 14.44 | 15.56 | 17.06 | 18.56 | 20.07 | 21.57 | 23.07 | 26.07 |
| 6.69 | 7.45 | 8.20 | 8.96 | 10.09 | 11.22 | 12.35 | 13.48 | 14.98 | 16.48 | 17.99 | 19.49 | 20.99 | 23.99 |
| 8.23 | 8.98 | 9.73 | 10.49 | 11.61 | 12.74 | 13.87 | 14.99 | 16.50 | 18.00 | 19.50 | 21.00 | 22.50 | 25.50 |
| 9.75† | 10.50† | 11.25† | 12.00† | 13.13† | 14.25† | 15.38† | 16.51† | 18.01† | 19.51† | 21.01† | 22.51† | 24.01† | 27.01† |
| 5.50 | 6.27 | 7.03 | 7.79 | 8.93 | 10.06 | 11.20 | 12.33 | 13.83 | 15.34 | 16.84 | 18.35 | 19.85 | 22.86 |
| 9.18 | 9.93 | 10.68 | 11.43 | 12.56 | 13.69 | 14.81 | 15.94 | 17.44 | 18.94 | 20.44 | 21.94 | 23.44 | 26.44 |
| – | – | – | – | – | – | – | – | 8.35 | 9.90 | 11.43 | 12.96 | 14.47 | 17.50 |
| 8.61 | 9.36 | 10.11 | 16.86 | 11.99 | 13.12 | 14.24 | 15.37 | 16.87 | 18.37 | 19.88 | 21.38 | 22.88 | 25.88 |
| 8.03 | 8.78 | 9.53 | 10.29 | 11.42 | 12.55 | 13.67 | 14.80 | 16.30 | 17.80 | 19.31 | 20.81 | 22.31 | 25.31 |
| – | – | – | – | – | – | 7.64 | 8.80 | 10.33 | 11.85 | 13.37 | 14.89 | 16.40 | 19.42 |
| 10.13‡ | 10.88‡ | 11.63‡ | 12.38‡ | 13.51‡ | 14.63‡ | 15.76‡ | 16.88‡ | 18.38‡ | 19.88‡ | 21.38‡ | 22.88‡ | 24.38‡ | 27.39‡ |
| 6.86 | 7.62 | 8.38 | 9.13 | 10.27 | 11.40 | 12.53 | 13.66 | 15.16 | 16.66 | 18.17 | 19.67 | 21.17 | 24.18 |
| 9.56† | 10.13† | 11.06† | 11.81† | 12.94† | 14.06† | 15.19† | 16.32† | 17.82† | 19.32† | 20.82† | 22.32† | 23.82† | 26.82† |
| 5.67 | 6.43 | 7.20 | 7.96 | 9.10 | 10.24 | 11.37 | 12.50 | 14.01 | 15.52 | 17.02 | 18.53 | 20.03 | 23.04 |
| 8.98 | 9.73 | 10.49 | 11.24 | 12.37 | 13.49 | 14.62 | 15.75 | 17.25 | 18.75 | 20.25 | 21.75 | 23.25 | 26.25 |
| – | – | – | 6.15 | 7.32 | 8.47 | 9.61 | 10.75 | 12.27 | 13.78 | 15.29 | 16.80 | 18.31 | 21.32 |
| 8.41 | 9.16 | 9.91 | 10.67 | 11.80 | 12.92 | 14.05 | 15.18 | 16.68 | 18.18 | 19.68 | 21.18 | 22.68 | 25.69 |
| – | – | – | 6.31 | 7.48 | 8.63 | 9.78 | 10.92 | 12.44 | 13.96 | 15.47 | 16.98 | 18.49 | 21.50 |
| 5.83 | 6.60 | 7.37 | 8.13 | 9.27 | 10.41 | 11.55 | 12.68 | 14.19 | 15.70 | 17.20 | 18.71 | 20.21 | 23.22 |
| 7.03 | 7.79 | 8.55 | 9.31 | 10.44 | 11.57 | 12.70 | 13.83 | 15.34 | 16.84 | 18.35 | 19.85 | 21.35 | 24.36 |
| 8.20 | 8.96 | 9.71 | 10.47 | 11.60 | 12.73 | 13.85 | 14.98 | 16.48 | 17.99 | 19.49 | 29.99 | 22.49 | 25.50 |
| 8.78 | 9.54 | 10.29 | 11.04 | 12.17 | 13.30 | 14.43 | 15.55 | 17.05 | 18.56 | 20.06 | 21.56 | 23.06 | 26.06 |
| 9.36† | 10.11† | 10.86† | 11.62† | 12.74† | 13.87† | 15.00† | 16.12† | 17.62† | 19.13† | 20.63† | 22.13† | 23.62† | 26.63† |
| 9.93‡ | 10.68‡ | 11.43‡ | 12.19‡ | 13.31‡ | 14.44‡ | 15.56‡ | 16.69‡ | 18.19‡ | 19.69‡ | 21.19‡ | 22.69‡ | 24.19‡ | 27.20‡ |
| – | – | – | – | – | – | – | – | 9.00 | 10.55 | 12.10 | 13.63 | 15.16 | 18.19 |
| – | – | 5.68 | 6.47 | 7.64 | 8.80 | 9.95 | 11.69 | 12.61 | 14.13 | 15.64 | 17.15 | 18.66 | 21.68 |
| 8.58 | 9.34 | 10.09 | 10.85 | 11.97 | 13.10 | 14.23 | 15.36 | 16.86 | 18.36 | 19.86 | 21.37 | 22.87 | 25.87 |
| 9.16† | 9.91† | 10.67† | 11.42† | 12.55† | 13.67† | 14.80† | 15.93† | 17.43† | 18.93† | 20.43† | 21.94† | 23.44† | 26.44† |
| 5.99 | 6.77 | 7.54 | 8.30 | 9.44 | 10.58 | 11.72 | 12.85 | 14.36 | 15.87 | 17.38 | 18.89 | 20.39 | 23.40 |
| 9.74‡ | 10.49‡ | 11.24‡ | 11.99‡ | 13.12‡ | 14.24‡ | 15.37‡ | 16.50‡ | 18.00‡ | 19.50‡ | 21.00‡ | 22.50‡ | 24.00‡ | 27.01‡ |
| 7.20 | 7.96 | 8.72 | 9.48 | 10.62 | 11.75 | 12.88 | 14.01 | 15.52 | 17.02 | 18.53 | 20.03 | 21.53 | 24.54 |
| – | – | – | – | – | 7.10 | 8.29 | 9.45 | 11.00 | 12.53 | 14.06 | 15.58 | 17.09 | 20.12 |
| 8.38 | 9.13 | 9.89 | 10.64 | 11.77 | 12.90 | 14.03 | 15.16 | 16.67 | 18.17 | 19.67 | 21.17 | 22.68 | 25.68 |
| – | – | 5.84 | 6.63 | 7.80 | 8.97 | 10.12 | 11.26 | 12.79 | 14.30 | 15.82 | 17.33 | 18.84 | 21.85 |

### L Belt Width Table

| Belt Width Factor | .28 | .35 | .45 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 |
| Belt Width Code | 037 | 043 | 050 | 062 | 075 | 087 | 100 | 125 | 150 | 175 | 200 | 250 | 300 |

### Teeth in Mesh Factor (T.I.M)

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| None | 6 or More | 1.00 |
| † | 5 | .80 |

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| ‡ | 4 | .60 |

# Selection

## L Stock Drive Selections



| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | |
| 3500 | 1750 | 1160 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500 | 1750 | 1160 | 124L | 150L | 187L | 210L | 225L | 240L |
| – | 750 | 497 | 2.33 | 12L | 1.432 | 28L | 3.342 | – | 1.09◊ | .72 | – | 3.63 | 5.55 | 6.69 | 7.45† | 8.20† |
| 1458 | 729 | 483 | 2.40 | 30L | 3.581 | 72L | 8.594 | 4.86 | 2.66 | 1.79 | – | – | – | – | – | – |
| 1458 | 729 | 483 | 2.40 | 20L | 2.387 | 48L | 5.730 | 3.46 | 1.80 | 1.20 | – | – | – | – | 4.57 | 5.37 |
| – | 729 | 483 | 2.40 | 10L | 1.194 | 24L | 2.865 | – | .91◊ | .60◊ | 2.89‡ | 4.24‡ | 6.14‡ | 7.28‡ | 8.03‡ | 8.78‡ |
| 1400 | 700 | 464 | 2.50 | 24L | 2.865 | 60L | 7.162 | 4.06 | 2.15 | 1.44 | – | – | – | – | – | – |
| 1400 | 700 | 464 | 2.50 | 16L | 1.910 | 40L | 4.775 | 2.83 | 1.45 | .97 | – | – | – | 5.05 | 5.83 | 6.60 |
| – | 700 | 464 | 2.50 | 12L | 1.432 | 30L | 3.581 | – | 1.09◊ | .72 | – | 3.40‡ | 5.34† | 6.43† | 7.24† | 8.00† |
| 1361 | 681 | 451 | 2.57 | 28L | 3.342 | 72L | 8.594 | 4.61 | 2.49 | 1.67 | – | – | – | – | – | – |
| – | 673 | 446 | 2.60 | 10L | 1.194 | 26L | 3.104 | – | .91◊ | .60◊ | 2.64§ | 4.02‡ | 5.93‡ | 7.07‡ | 7.83‡ | 8.58‡ |
| 1333 | 667 | 442 | 2.63 | 32L | 3.820 | 84L | 10.027 | 5.10 | 2.83 | 1.91 | – | – | – | – | – | – |
| 1312 | 656 | 435 | 2.67 | 18L | 2.149 | 48L | 5.730 | 3.15 | 1.62 | 1.08 | – | – | – | – | 4.73 | 5.53 |
| – | 656 | 435 | 2.67 | 12L | 1.432 | 32L | 3.820 | – | 1.09◊ | .72 | – | 3.15† | 5.12† | 6.27† | 7.03† | 7.79† |
| 1283 | 642 | 425 | 2.73 | 22L | 2.626 | 60L | 7.162 | 3.77 | 1.98 | 1.32 | – | – | – | – | – | – |
| 1264 | 632 | 419 | 2.77 | 26L | 3.104 | 72L | 8.594 | 4.35 | 2.32 | 1.56 | – | – | – | – | – | – |
| 1250 | 625 | 414 | 2.80 | 30L | 3.581 | 84L | 10.027 | 4.86 | 2.66 | 1.79 | – | – | – | – | – | – |
| – | 625 | 414 | 2.80 | 10L | 1.194 | 28L | 3.342 | – | .91◊ | .60◊ | – | 3.79‡ | 5.72‡ | 6.86‡ | 7.62‡ | 8.38‡ |
| 1225 | 613 | 406 | 2.86 | 14L | 1.671 | 40L | 4.775 | 2.49◊ | 1.27 | .85 | – | – | – | 5.21 | 5.99 | 6.77 |
| 1167 | 583 | 387 | 3.00 | 28L | 3.342 | 84L | 10.027 | 4.61 | 2.49 | 1.67 | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 24L | 2.865 | 72L | 8.594 | 4.06 | 2.15 | 1.44 | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 20L | 2.387 | 60L | 7.162 | 3.46 | 1.80 | 1.20 | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 16L | 1.910 | 48L | 5.730 | 2.83 | 1.45 | .97 | – | – | – | – | 4.88 | 5.68 |
| – | 583 | 387 | 3.00 | 10L | 1.194 | 30L | 3.581 | – | .91◊ | .60◊ | – | 3.56§ | 5.50‡ | 6.65‡ | 7.41‡ | 8.17‡ |
| – | 547 | 363 | 3.20 | 10L | 1.194 | 32L | 3.820 | – | .91◊ | .60◊ | – | 3.30§ | 5.28‡ | 6.44‡ | 7.20‡ | 7.96‡ |
| 1684 | 542 | 359 | 3.23 | 26L | 3.104 | 84L | 10.027 | 4.35 | 2.32 | 1.56 | – | – | – | – | – | – |
| 1069 | 535 | 354 | 3.27 | 22L | 2.626 | 72L | 8.594 | 3.77 | 1.98 | 1.32 | – | – | – | – | – | – |
| 1050 | 525 | 348 | 3.33 | 18L | 2.149 | 60L | 7.162 | 3.15 | 1.62 | 1.08 | – | – | – | – | – | – |
| – | 525 | 348 | 3.33 | 12L | 1.432 | 40L | 4.775 | – | 1.09◊ | .72 | – | – | 4.17‡ | 5.37‡ | 6.15‡ | 6.93‡ |
| 1021 | 510 | 338 | 3.43 | 14L | 1.671 | 48L | 5.730 | 2.49◊ | 1.27 | .85 | – | – | – | 4.19‡ | 5.03† | 5.84† |
| 1000 | 500 | 331 | 3.50 | 24L | 2.865 | 84L | 10.027 | 4.06 | 2.15 | 1.44 | – | – | – | – | – | – |
| 972 | 486 | 322 | 3.60 | 20L | 2.387 | 72L | 8.594 | 3.46 | 1.80 | 1.20 | – | – | – | – | – | – |
| 933 | 467 | 309 | 3.75 | 16L | 1.910 | 60L | 7.162 | 2.83 | 1.45 | .97 | – | – | – | – | – | – |
| 916 | 458 | 304 | 3.82 | 22L | 2.626 | 84L | 10.027 | 3.77 | 1.98 | 1.32 | – | – | – | – | – | – |
| 875 | 438 | 290 | 4.00 | 18L | 2.149 | 72L | 8.594 | 3.15 | 1.62 | 1.08 | – | – | – | – | – | – |
| – | 438 | 290 | 4.00 | 12L | 1.432 | 48L | 5.730 | – | 1.09◊ | .72 | – | – | – | 4.34‡ | 5.18‡ | 5.99‡ |
| – | 438 | 290 | 4.00 | 10L | 1.194 | 40L | 4.775 | – | .91◊ | .60◊ | – | – | 4.33§ | 5.53§ | 6.32‡ | 7.09‡ |
| 833 | 417 | 276 | 4.20 | 20L | 2.387 | 84L | 10.027 | 3.46 | 1.80 | 1.20 | – | – | – | – | – | – |
| 817 | 408 | 271 | 4.29 | 14L | 1.671 | 60L | 7.162 | 2.49◊ | 1.27 | .85 | – | – | – | – | – | – |
| 778 | 389 | 258 | 4.50 | 16L | 1.910 | 72L | 8.594 | 2.83 | 1.45 | .97 | – | – | – | – | – | – |
| 749 | 375 | 248 | 4.67 | 18L | 2.149 | 84L | 10.027 | 3.15 | 1.62 | 1.08 | – | – | – | – | – | – |
| – | 365 | 242 | 4.80 | 10L | 1.194 | 48L | 5.730 | – | .91◊ | .60◊ | – | – | – | 4.48§ | 5.33§ | 6.15§ |
| – | 350 | 232 | 5.00 | 12L | 1.432 | 60L | 7.162 | – | 1.09◊ | .72 | – | – | – | – | – | – |
| 681 | 340 | 226 | 5.14 | 14L | 1.671 | 72L | 8.594 | 2.49◊ | 1.27 | .85 | – | – | – | – | – | – |
| 667 | 333 | 221 | 5.25 | 16L | 1.671 | 84L | 10.027 | 2.83 | 1.45 | .97 | – | – | – | – | – | – |
| 583 | 292 | 193 | 6.00 | 14L | 1.671 | 84L | 10.027 | 2.49◊ | 1.27 | .85 | – | – | – | – | – | – |
| – | 292 | 193 | 6.00 | 12L | 1.432 | 72L | 8.594 | – | 1.09◊ | .72 | – | – | – | – | – | – |
| – | 292 | 193 | 6.00 | 10L | 1.194 | 60L | 7.162 | – | .91◊ | .60◊ | – | – | – | – | – | 4.38♣ |
| – | 250 | 166 | 7.00 | 12L | 1.432 | 84L | 10.027 | – | 1.09◊ | .72 | – | – | – | – | – | – |
| – | 243 | 161 | 7.20 | 10L | 1.194 | 72L | 8.594 | – | .91◊ | .60◊ | – | – | – | – | – | – |
| – | 208 | 138 | 8.40 | 10L | 1.194 | 84L | 10.027 | – | .91◊ | .60◊ | – | – | – | – | – | – |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† ‡ § ♣ See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

# Selection

## L Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 255L | 270L | 285L | 300L | 322L | 345L | 367L | 390L | 420L | 450L | 480L | 510L | 540L | 600L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.96† | 9.71† | 10.47† | 11.22† | 12.35† | 13.48† | 14.61† | 15.73† | 17.24† | 18.74† | 20.24† | 21.74† | 23.24† | 26.25† |
| – | – | – | – | – | 7.26 | 8.44 | 9.62 | 11.16 | 12.70 | 14.23 | 15.75 | 17.27 | 20.29 |
| 6.15 | 6.93 | 7.70 | 8.47 | 9.61 | 10.75 | 11.89 | 13.03 | 14.54 | 16.05 | 17.56 | 19.06 | 20.57 | 23.58 |
| 9.54‡ | 10.29‡ | 11.04‡ | 11.80‡ | 12.92‡ | 14.05‡ | 15.18‡ | 16.30‡ | 17.81‡ | 19.31‡ | 20.81‡ | 22.31‡ | 23.81‡ | 26.81‡ |
| – | – | 5.99 | 6.79 | 7.97 | 9.13 | 10.28 | 11.43 | 12.96 | 14.48 | 15.99 | 17.50 | 19.01 | 22.03 |
| 7.37 | 8.13 | 8.89 | 9.65 | 10.79 | 11.92 | 13.06 | 14.19 | 15.70 | 17.20 | 18.71 | 20.21 | 21.72 | 24.72 |
| 8.76† | 9.51† | 10.27† | 11.02† | 12.15† | 13.28† | 14.41† | 15.54† | 17.04† | 18.54† | 20.05† | 21.55† | 23.05† | 26.05† |
| – | – | – | – | 6.19 | 7.41 | 8.60 | 9.78 | 11.33 | 12.86 | 14.39 | 15.92 | 17.44 | 20.47 |
| 9.34‡ | 10.09‡ | 10.85‡ | 11.60‡ | 12.73‡ | 13.85‡ | 14.98‡ | 16.11‡ | 17.61‡ | 19.11‡ | 20.62‡ | 22.12‡ | 23.62‡ | 26.62‡ |
| – | – | – | – | – | – | – | 8.02 | 9.63 | 11.20 | 12.75 | 14.30 | 15.83 | 18.88 |
| 6.31 | 7.09 | 7.87 | 8.64 | 9.78 | 10.92 | 12.06 | 13.20 | 14.72 | 16.23 | 17.73 | 19.24 | 20.75 | 23.76 |
| 8.55† | 9.31† | 10.07† | 10.82† | 11.95† | 13.08† | 14.21† | 15.34† | 16.85† | 18.35† | 19.85† | 21.36† | 22.86† | 25.86† |
| – | 5.33 | 6.15 | 6.95 | 8.13 | 9.29 | 10.45 | 11.60 | 13.18 | 14.65 | 16.16 | 17.68 | 19.19 | 22.21♥ |
| – | – | – | – | 6.34 | 7.56 | 8.76 | 9.94 | 11.49 | 13.03 | 14.56 | 16.09 | 17.61 | 20.64 |
| – | – | – | – | – | – | – | 8.17 | 9.78 | 11.36 | 12.92 | 14.46 | 16.00 | 19.05 |
| 9.14‡ | 9.89‡ | 10.65‡ | 11.40‡ | 12.53‡ | 13.66‡ | 14.79‡ | 15.91‡ | 17.42‡ | 18.92‡ | 20.42‡ | 21.92‡ | 23.43‡ | 26.43‡ |
| 7.54 | 8.30 | 9.06 | 9.83 | 10.96 | 12.10 | 13.23 | 14.36 | 15.87 | 17.38 | 18.89 | 20.39 | 21.89 | 24.90 |
| – | – | – | – | – | – | 7.08 | 8.33 | 9.94 | 11.52 | 13.08 | 14.63 | 16.16 | 19.22 |
| – | – | – | – | 6.49 | 7.72 | 8.92 | 10.10 | 11.65 | 13.20 | 14.73 | 16.26 | 17.78 | 20.81 |
| – | 5.48 | 6.30 | 7.10 | 8.29 | 9.46 | 10.61 | 11.77 | 13.29 | 14.82 | 16.34 | 17.85 | 19.36♥ | 22.38♥ |
| 6.47 | 7.26 | 8.03 | 8.80 | 9.95 | 11.10 | 12.24 | 13.37 | 14.89 | 16.40 | 17.91 | 19.42 | 20.93 | 23.94 |
| 8.93‡ | 9.69‡ | 10.44‡ | 11.20‡ | 12.33‡ | 13.46‡ | 14.59‡ | 15.72‡ | 17.22‡ | 18.73‡ | 20.23‡ | 21.73‡ | 23.23‡ | 26.24‡ |
| 8.72‡ | 9.48‡ | 10.24‡ | 11.00‡ | 12.13‡ | 13.26‡ | 14.39‡ | 15.52‡ | 17.02‡ | 18.53‡ | 20.03‡ | 21.54‡ | 23.04‡ | 26.04‡ |
| – | – | – | – | – | – | 7.22 | 8.48 | 10.10 | 11.68 | 13.24 | 14.79 | 16.33 | 19.39 |
| – | – | – | – | 6.64 | 7.87 | 9.07 | 10.26 | 11.82 | 13.36 | 14.90 | 16.43 | 17.95 | 20.99 |
| – | 5.62 | 6.45 | 7.26 | 8.45 | 9.62 | 10.78 | 11.93 | 13.46 | 14.99 | 16.51 | 18.02♥ | 19.54♥ | 22.56♥ |
| 7.70† | 8.47† | 9.23† | 10.00† | 11.14† | 12.27† | 13.40† | 14.54† | 16.05† | 17.56† | 19.06† | 20.57† | 22.08† | 25.08† |
| 6.63† | 7.42† | 8.19† | 8.97† | 10.12 | 11.26 | 12.41 | 13.55 | 15.06 | 16.57 | 18.08 | 19.59 | 21.10 | 24.11 |
| – | – | – | – | – | – | 7.37 | 8.63 | 10.25 | 11.84 | 13.40 | 14.95 | 16.49 | 19.56 |
| – | – | – | – | 6.78 | 8.02 | 9.23 | 10.42 | 11.98 | 13.53 | 15.06 | 16.59 | 18.12 | 21.16 |
| 4.91 | 5.77 | 6.60 | 7.41 | 8.60 | 9.78 | 10.94 | 12.10 | 13.63 | 15.16 | 16.68♥ | 18.20♥ | 19.71♥ | 22.73♥ |
| – | – | – | – | – | – | 7.51 | 8.78 | 10.40 | 12.00 | 13.56 | 15.12 | 16.66 | 19.18 |
| – | – | – | 5.61† | 6.93 | 8.18 | 9.39 | 10.58 | 12.14 | 13.69 | 15.23 | 16.76 | 18.29♥ | 21.33♥ |
| 6.79‡ | 7.58‡ | 8.36‡ | 9.13† | 10.28† | 11.43† | 12.58† | 13.72† | 15.23† | 16.75† | 18.25† | 19.77† | 21.28† | 24.29† |
| 7.87‡ | 8.64‡ | 9.40‡ | 10.17‡ | 11.31‡ | 12.44‡ | 13.58‡ | 14.72‡ | 16.23‡ | 17.73‡ | 19.24‡ | 20.75‡ | 22.25‡ | 25.26‡ |
| – | – | – | – | – | – | 7.66 | 8.93 | 10.56 | 12.15 | 13.72 | 15.28 | 16.82 | 19.89♥ |
| 5.05‡ | 5.92‡ | 6.75† | 7.57† | 8.76† | 9.94† | 11.11† | 12.26† | 13.80♥ | 15.33♥ | 16.85♥ | 18.37♥ | 19.83♥ | 22.91♥ |
| – | – | – | 5.75‡ | 7.08† | 8.33† | 9.54 | 10.73 | 12.30 | 13.85 | 15.40♥ | 16.93♥ | 18.46♥ | 21.50♥ |
| – | – | – | – | – | 6.45† | 7.80† | 9.08 | 10.71 | 12.31 | 13.88 | 15.44 | 16.99 | 20.06♥ |
| 6.95 | 7.74‡ | 8.52‡ | 9.29‡ | 10.45‡ | 11.60‡ | 12.75‡ | 13.89‡ | 15.41‡ | 16.92‡ | 18.44‡ | 19.95‡ | 21.46‡ | 24.47‡ |
| 5.19§ | 6.07‡ | 6.90‡ | 7.72‡ | 8.92‡ | 10.10‡ | 11.274 | 12.43†♥ | 13.97†♥ | 15.49†♥ | 17.02†♥ | 18.54†♥ | 20.06†♥ | 23.08†♥ |
| – | – | – | 5.89‡ | 7.22‡ | 8.48† | 9.70† | 10.89† | 12.46† | 14.02†♥ | 15.56†♥ | 17.10♥ | 18.63♥ | 21.67♥ |
| – | – | – | – | – | 6.58‡ | 7.94† | 9.22† | 10.87 | 12.47 | 14.04 | 15.60♥ | 17.15♥ | 20.23♥ |
| – | – | – | – | – | 6.72‡ | 8.09‡ | 9.37‡ | 11.02† | 12.62† | 14.20†♥ | 15.76†♥ | 17.32†♥ | 20.39♥ |
| – | – | – | 6.03§ | 7.37 | 8.63‡ | 9.85‡ | 11.05‡ | 12.62†♥ | 14.18†♥ | 15.73†♥ | 17.26†♥ | 18.79†♥ | 21.84†♥ |
| 5.33§ | 6.21§ | 7.05§ | 7.87§ | 9.08§ | 10.26†♥ | 11.43†♥ | 12.59†♥ | 14.13‡♥ | 15.66‡♥ | 17.19‡♥ | 18.71‡♥ | 20.23‡♥ | 23.26‡♥ |
| – | – | – | – | – | 6.86§ | 8.23§ | 9.52‡ | 11.17‡♥ | 12.78‡♥ | 14.36‡♥ | 15.93‡♥ | 17.48†♥ | 20.56†♥ |
| – | – | – | 6.17♥ | 7.51§ | 8.78§ | 10.00§♥ | 11.20§♥ | 12.78‡♥ | 14.34‡♥ | 15.89‡♥ | 17.43‡♥ | 18.96‡♥ | 22.01‡♥ |
| – | – | – | – | – | 7.00§ | 8.37§ | 9.67§♥ | 11.32§♥ | 12.93§♥ | 14.52‡♥ | 16.09‡♥ | 17.64‡♥ | 20.73‡♥ |

### L Belt Width Table

| Belt Width Factor | .28 | .35 | .45 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 |
| Belt Width Code | 037 | 043 | 050 | 062 | 075 | 087 | 100 | 125 | 150 | 175 | 200 | 250 | 300 |

### Teeth in Mesh factor (T.I.M)

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| None | 6 or More | 1.00 |
| † | 5 | .80 |
| ‡ | 4 | .60 |

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| § | 3 | .40 |
| ß | 2 | .20 |

# Selection

## H Stock Drive Selections



| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | | |
| 3500 | 1750 | 1160 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500 | 1750 | 1160 | 240H | 270H | 300H | 330H | 360H | 390H | 420H |
| – | 1750 | 1160 | 1.00 | 48H | 7.839 | 48H | 7.639 | – | 13.84 | 9.55 | – | – | – | – | – | – | 9.01 |
| 3500 | 1750 | 1160 | 1.00 | 40H | 6.366 | 40H | 6.366 | 20.08 | 11.79 | 8.03 | – | – | – | – | 8.01 | 9.51 | 11.01 |
| 3500 | 1750 | 1160 | 1.00 | 32H | 5.093 | 32H | 5.093 | 17.40 | 9.60 | 6.48 | – | 5.51 | 7.01 | 8.51 | 10.01 | 11.51 | 13.01 |
| 3500 | 1750 | 1160 | 1.00 | 30H | 4.775 | 30H | 4.775 | 16.59 | 9.03 | 6.08 | – | 6.01 | 7.51 | 9.01 | 10.51 | 12.01 | 13.51 |
| 3500 | 1750 | 1160 | 1.00 | 28H | 4.456 | 28H | 4.456 | 15.74 | 8.46 | 5.68 | 5.01 | 6.51 | 8.01 | 9.51 | 11.01 | 12.51 | 14.01 |
| 3500 | 1750 | 1160 | 1.00 | 26H | 4.138 | 26H | 4.138 | 14.80 | 7.88 | 5.28 | 5.51 | 7.01 | 8.51 | 10.01 | 11.51 | 13.01 | 14.51 |
| 3500 | 1750 | 1160 | 1.00 | 24H | 3.820 | 24H | 3.820 | 13.82 | 7.30 | 4.89 | 6.01 | 7.51 | 9.01 | 10.51 | 12.01 | 13.51 | 15.01 |
| 3500 | 1750 | 1160 | 1.00 | 22H | 3.501 | 22H | 3.501 | 12.84 | 6.71 | 4.48 | 6.51 | 8.01 | 9.51 | 11.01 | 12.51 | 14.01 | 15.51 |
| 3500 | 1750 | 1160 | 1.00 | 20H | 3.183 | 20H | 3.183 | 11.77◊ | 6.11 | 4.08 | 7.01 | 8.51 | 10.01 | 11.51 | 13.01 | 14.51 | 16.01 |
| 3500 | 1750 | 1160 | 1.00 | 18H | 2.865 | 18H | 2.865 | 10.71◊ | 5.52◊ | 3.68 | 7.51 | 9.01 | 10.51 | 12.01 | 13.51 | 15.01 | 16.51 |
| – | 1750 | 1160 | 1.00 | 16H | 2.546 | 16H | 2.546 | – | 4.91◊ | 3.27◊ | 8.01 | 9.51 | 11.01 | 12.51 | 14.01 | 15.51 | 17.01 |
| – | – | 1160 | 1.00 | 14H | 2.228 | 14H | 2.228 | – | – | 2.86◊ | 8.51 | 10.01 | 11.51 | 13.01 | 14.51 | 16.01 | 17.51 |
| 3281 | 1641 | 1087 | 1.07 | 30H | 4.775 | 32H | 5.093 | 16.59 | 9.03 | 6.08 | – | 5.75 | 7.25 | 8.76 | 10.26 | 11.76 | 13.26 |
| 3267 | 1633 | 1083 | 1.07 | 28H | 4.456 | 30H | 4.775 | 15.74 | 8.46 | 5.68 | – | 6.25 | 7.26 | 9.26 | 10.76 | 12.26 | 13.76 |
| 3250 | 1625 | 1077 | 1.08 | 26H | 4.138 | 28H | 4.456 | 14.80 | 7.88 | 5.28 | 5.25 | 6.75 | 8.26 | 9.76 | 11.26 | 12.76 | 14.26 |
| 3231 | 1615 | 1071 | 1.08 | 24H | 3.820 | 26H | 4.138 | 13.82 | 7.30 | 4.89 | 5.76 | 7.26 | 8.76 | 10.26 | 11.76 | 13.26 | 14.76 |
| 3208 | 1604 | 1063 | 1.09 | 22H | 3.501 | 24H | 3.820 | 12.84 | 6.71 | 4.48 | 6.26 | 7.76 | 9.26 | 10.76 | 12.26 | 13.76 | 15.26 |
| 3182 | 1591 | 1055 | 1.10 | 20H | 3.183 | 22H | 3.501 | 11.77◊ | 6.11 | 4.08 | 6.76 | 8.26 | 9.76 | 11.26 | 12.76 | 14.26 | 15.75 |
| 3150 | 1575 | 1044 | 1.11 | 18H | 2.865 | 20H | 3.183 | 10.71◊ | 5.52◊ | 3.68 | 7.26 | 8.76 | 10.26 | 11.76 | 13.26 | 14.76 | 16.26 |
| – | 1556 | 1031 | 1.13 | 16H | 2.546 | 18H | 2.865 | – | 4.91◊ | 3.27◊ | 7.76 | 9.26 | 10.76 | 12.26 | 13.76 | 15.26 | 16.76 |
| 3063 | 1531 | 1015 | 1.14 | 28H | 4.456 | 32H | 5.093 | 15.74 | 8.46 | 5.68 | – | 6.00 | 7.50 | 9.00 | 10.50 | 12.01 | 13.51 |
| – | – | 1015 | 1.14 | 14H | 2.228 | 16H | 2.546 | – | – | 2.86◊ | 8.26 | 9.76 | 11.26 | 12.76 | 14.26 | 15.76 | 17.26 |
| 3033 | 1517 | 1005 | 1.15 | 26H | 4.138 | 30H | 4.775 | 14.80 | 7.88 | 5.28 | 5.00 | 6.50 | 8.00 | 9.50 | 11.00 | 12.51 | 14.01 |
| 3000 | 1500 | 994 | 1.17 | 24H | 3.820 | 28H | 4.456 | 13.82 | 7.30 | 4.89 | 5.50 | 7.00 | 8.50 | 10.00 | 11.50 | 13.01 | 14.51 |
| 2962 | 1481 | 982 | 1.18 | 22H | 3.501 | 26H | 4.138 | 12.84 | 6.71 | 4.48 | 6.00 | 7.50 | 9.00 | 10.50 | 12.01 | 13.50 | 15.01 |
| 2917 | 1458 | 967 | 1.20 | 40H | 6.366 | 48H | 7.639 | 20.08 | 11.79 | 8.03 | – | – | – | – | – | 8.48 | 9.99 |
| 2917 | 1458 | 967 | 1.20 | 20H | 3.183 | 24H | 3.820 | 11.77◊ | 6.11 | 4.08 | 6.50 | 8.00 | 9.50 | 11.00 | 12.51 | 14.01 | 15.51 |
| 2864 | 1432 | 949 | 1.22 | 18H | 2.865 | 22H | 3.501 | 10.71◊ | 5.52◊ | 3.68 | 7.01 | 8.50 | 10.00 | 11.51 | 13.01 | 14.51 | 16.01 |
| 2844 | 1422 | 943 | 1.23 | 26H | 4.138 | 32H | 5.093 | 14.80 | 7.88 | 5.28 | – | 6.24 | 7.74 | 9.24 | 10.75 | 12.25 | 13.75 |
| – | 1400 | 928 | 1.25 | 48H | 7.639 | 60H | 9.549 | – | 13.84 | 9.55 | – | – | – | – | – | – | – |
| 2800 | 1400 | 928 | 1.25 | 32H | 5.093 | 40H | 6.366 | 17.40 | 9.60 | 6.48 | – | – | – | 7.43 | 8.98 | 10.49 | 11.99 |
| 2800 | 1400 | 928 | 1.25 | 24H | 3.820 | 30H | 4.775 | 13.82 | 7.30 | 4.89 | 5.24 | 6.40 | 8.24 | 9.75 | 11.25 | 12.75 | 14.25 |
| – | 1400 | 928 | 1.25 | 16H | 2.546 | 20H | 3.183 | – | 4.91◊ | 3.27◊ | 7.50 | 9.00 | 10.50 | 12.01 | 13.51 | 15.01 | 16.51 |
| 2750 | 1375 | 911 | 1.27 | 22H | 3.501 | 28H | 4.456 | 12.84 | 6.71 | 4.48 | 5.74 | 7.24 | 8.74 | 10.25 | 11.75 | 13.25 | 14.75 |
| – | – | 902 | 1.29 | 14H | 2.228 | 18H | 2.865 | – | – | 2.86◊ | 8.00 | 9.50 | 11.01 | 12.51 | 14.01 | 15.51 | 17.02 |
| 2692 | 1346 | 892 | 1.30 | 20H | 3.183 | 26H | 4.138 | 11.77◊ | 6.11 | 4.08 | 6.24 | 7.74 | 9.25 | 10.75 | 12.25 | 13.75 | 15.26 |
| 2625 | 1313 | 870 | 1.33 | 30H | 4.775 | 40H | 6.366 | 16.59 | 9.03 | 6.08 | – | – | 6.20 | 7.72 | 9.22 | 10.73 | 12.24 |
| 2625 | 1313 | 870 | 1.33 | 24H | 3.820 | 32H | 5.093 | 13.82 | 7.30 | 4.89 | 4.97 | 6.48 | 7.98 | 9.49 | 10.99 | 12.49 | 14.00 |
| 2625 | 1313 | 870 | 1.33 | 18H | 2.865 | 24H | 3.820 | 10.71◊ | 5.52◊ | 3.68 | 6.74 | 8.24 | 9.75 | 11.25 | 12.75 | 14.25 | 15.76 |
| 2567 | 1283 | 851 | 1.36 | 22H | 3.501 | 30H | 4.775 | 12.84 | 6.71 | 4.48 | 5.47 | 6.98 | 8.48 | 9.99 | 11.49 | 12.99 | 14.50 |
| – | 1273 | 844 | 1.38 | 16H | 2.546 | 22H | 3.501 | – | 4.91◊ | 3.27◊ | 7.24 | 8.75 | 10.25 | 11.75 | 13.25 | 14.75 | 16.25 |
| 2500 | 1250 | 829 | 1.40 | 20H | 3.183 | 28H | 4.456 | 11.77◊ | 6.11 | 4.08 | 5.97 | 7.48 | 8.99 | 10.49 | 11.99 | 13.49 | 15.00 |
| 2450 | 1225 | 812 | 1.43 | 28H | 4.456 | 40H | 6.366 | 15.74 | 8.46 | 5.68 | – | – | 6.50 | 7.95 | 9.46 | 10.97 | 12.47 |
| – | – | 812 | 1.43 | 14H | 2.228 | 20H | 3.183 | – | – | 2.86◊ | 7.75 | 9.25 | 10.75 | 12.25 | 13.75 | 15.25 | 16.75 |
| 2423 | 1212 | 803 | 1.44 | 18H | 2.865 | 26H | 4.138 | 10.71◊ | 5.52◊ | 3.68 | 6.48 | 7.98 | 9.49 | 10.99 | 12.49 | 14.00 | 15.50 |
| 2406 | 1203 | 798 | 1.45 | 22H | 3.501 | 32H | 5.093 | 12.84 | 6.71 | 4.48 | 5.20 | 6.71 | 8.22 | 9.73 | 11.23 | 12.73 | 14.24 |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

♥ Flanges Required on both pulleys.

# Selection

## H Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 450H | 480H | 510H | 540H | 570H | 600H | 630H | 660H | 700H | 750H | 800H | 850H | 900H | 1000H | 1100H | 1250H | 1400H | 1700H |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10.51 | 12.01 | 13.51 | 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 23.01 | 25.51 | 28.01 | 30.51 | 33.01 | 38.01 | 43.01 | 50.51 | 58.01 | 73.01 |
| 12.51 | 14.01 | 15.51 | 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 25.01 | 27.51 | 30.01 | 32.51 | 35.01 | 40.01 | 45.01 | 52.51 | 60.01 | 15.01 |
| 14.51 | 16.01 | 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 27.01 | 29.51 | 32.01 | 34.51 | 37.01 | 42.01 | 47.01 | 54.51 | 62.01 | 77.01 |
| 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.51 | 30.01 | 32.51 | 35.01 | 37.51 | 42.51 | 47.51 | 55.01 | 62.51 | 77.51 |
| 15.51 | 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 28.01 | 30.51 | 33.01 | 35.51 | 38.01 | 43.01 | 48.01 | 55.51 | 63.01 | 78.01 |
| 16.01 | 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.51 | 31.01 | 33.51 | 36.01 | 38.51 | 43.51 | 48.51 | 56.01 | 63.51 | 78.51 |
| 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.01 | 29.01 | 31.51 | 34.01 | 36.51 | 39.01 | 44.01 | 49.01 | 56.51 | 64.01 | 79.01 |
| 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 27.51 | 29.51 | 32.01 | 34.51 | 37.01 | 39.51 | 44.51 | 49.51 | 57.01 | 64.51 | 79.51 |
| 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.01 | 30.01 | 32.51 | 35.01 | 37.51 | 40.01 | 45.01 | 50.01 | 57.51 | 65.01 | 80.01 |
| 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.01 | 28.51 | 30.51 | 33.01 | 35.51 | 38.01 | 40.51 | 45.51 | 50.51 | 58.01 | 65.51 | 80.51 |
| 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 27.51 | 29.01 | 31.01 | 33.51 | 36.01 | 38.51 | 41.01 | 46.01 | 51.01 | 58.51 | 66.01 | 81.01 |
| 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.01 | 29.51 | 31.51 | 34.01 | 36.51 | 39.01 | 41.51 | 46.51 | 51.51 | 59.01 | 66.51 | 81.51 |
| 14.76 | 16.26 | 17.76 | 19.26 | 20.76 | 22.26 | 23.76 | 25.26 | 27.26 | 29.76 | 32.26 | 34.76 | 37.26 | 42.26 | 47.26 | 54.16 | 62.26 | 77.26 |
| 15.26 | 16.76 | 18.26 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.76 | 30.26 | 32.76 | 35.26 | 37.76 | 42.76 | 47.76 | 55.26 | 62.76 | 77.76 |
| 15.76 | 17.26 | 18.76 | 20.26 | 21.76 | 23.26 | 24.76 | 26.26 | 28.26 | 30.76 | 33.26 | 35.76 | 38.26 | 43.26 | 48.26 | 55.76 | 63.26 | 78.26 |
| 16.26 | 17.76 | 19.26 | 20.76 | 22.26 | 23.76 | 25.26 | 26.76 | 28.76 | 31.26 | 33.76 | 36.26 | 38.76 | 43.76 | 48.76 | 56.26 | 63.76 | 78.76 |
| 16.76 | 18.26 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.26 | 29.26 | 31.76 | 34.26 | 36.76 | 39.26 | 44.26 | 49.26 | 56.76 | 64.26 | 79.26 |
| 17.26 | 18.75 | 20.36 | 21.76 | 23.26 | 24.76 | 26.26 | 27.76 | 29.76 | 32.26 | 34.76 | 37.26 | 39.76 | 44.76 | 49.76 | 57.26 | 64.76 | 79.76 |
| 17.76 | 19.26 | 20.76 | 22.26 | 23.76 | 25.26 | 26.76 | 28.26 | 30.26 | 32.76 | 35.26 | 37.76 | 40.26 | 45.26 | 50.26 | 57.76 | 62.26 | 80.26 |
| 18.26 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.26 | 28.76 | 30.76 | 33.26 | 35.76 | 38.26 | 40.76 | 45.76 | 50.76 | 58.26 | 65.76 | 80.76 |
| 15.01 | 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.51 | 30.01 | 32.51 | 35.01 | 37.51 | 42.51 | 47.51 | 55.01 | 62.51 | 77.51 |
| 18.76 | 20.26 | 21.76 | 23.36 | 24.76 | 26.26 | 27.76 | 29.26 | 31.26 | 33.76 | 36.26 | 38.76 | 41.26 | 46.26 | 51.26 | 58.76 | 66.26 | 81.26 |
| 15.51 | 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 28.01 | 30.51 | 33.01 | 35.51 | 38.01 | 43.01 | 48.01 | 55.51 | 63.01 | 78.01 |
| 16.01 | 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.51 | 31.01 | 33.51 | 36.01 | 38.51 | 43.51 | 48.51 | 56.01 | 63.51 | 78.51 |
| 16.51 | 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.01 | 29.01 | 31.51 | 34.01 | 36.51 | 39.01 | 44.01 | 49.01 | 56.51 | 64.01 | 79.01 |
| 11.49 | 12.99 | 14.49 | 16.00 | 17.50 | 19.00 | 20.50 | 22.00 | 24.00 | 26.51 | 29.00 | 31.50 | 34.00 | 39.01 | 44.00 | 51.51 | 59.01 | 74.01 |
| 17.01 | 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 27.51 | 29.51 | 32.01 | 34.51 | 37.01 | 39.51 | 44.51 | 49.51 | 57.01 | 64.51 | 79.51 |
| 17.51 | 19.01 | 20.51 | 22.01 | 23.51 | 25.01 | 26.51 | 28.01 | 30.01 | 32.51 | 35.01 | 37.50 | 40.01 | 45.01 | 50.01 | 57.51 | 65.01 | 80.01 |
| 15.24 | 16.75 | 18.25 | 19.76 | 21.25 | 22.76 | 24.26 | 25.76 | 27.76 | 30.25 | 32.76 | 36.26 | 37.76 | 42.76 | 47.76 | 55.26 | 62.76 | 77.76 |
| 8.95 | 10.46 | 11.97 | 13.47 | 14.98 | 16.48 | 17.98 | 19.48 | 21.49 | 23.99 | 26.49 | 28.99 | 31.50 | 36.50 | 41.50 | 49.00 | 56.50 | 71.50♥ |
| 13.49 | 15.00 | 16.50 | 18.00 | 19.50 | 21.00 | 22.50 | 24.00 | 26.00 | 28.50 | 31.00 | 33.50 | 36.01 | 41.00 | 46.01 | 53.51 | 61.01 | 76.01 |
| 15.75 | 17.25 | 18.80 | 20.25 | 21.76 | 23.26 | 24.76 | 26.25 | 28.26 | 30.76 | 33.26 | 35.75 | 38.26 | 43.26 | 48.26 | 55.76 | 63.26 | 78.26 |
| 18.01 | 19.51 | 21.01 | 22.51 | 24.01 | 25.51 | 27.01 | 28.51 | 30.51 | 33.01 | 35.51 | 38.01 | 40.51 | 45.51 | 50.51 | 58.01 | 65.51 | 80.51 |
| 16.25 | 17.75 | 19.25 | 20.76 | 22.26 | 23.76 | 25.26 | 26.76 | 28.76 | 31.26 | 33.76 | 36.26 | 38.76 | 43.76 | 48.76 | 56.26 | 63.76 | 78.76 |
| 18.51 | 20.01 | 21.51 | 23.01 | 24.51 | 26.01 | 27.51 | 29.01 | 31.01 | 33.51 | 36.01 | 38.51 | 41.01 | 46.01 | 51.01 | 58.51 | 66.01 | 81.01 |
| 16.75 | 18.25 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.26 | 29.26 | 31.29 | 34.26 | 36.76 | 39.25 | 44.26 | 49.26 | 56.76 | 64.26 | 79.26 |
| 13.74 | 15.24 | 16.74 | 18.24 | 19.74 | 21.25 | 22.75 | 24.25 | 26.25 | 28.75 | 31.25 | 33.75 | 36.25 | 41.25 | 46.25 | 53.75 | 61.26 | 76.26 |
| 15.50 | 17.00 | 18.50 | 20.00 | 21.50 | 23.00 | 24.50 | 26.00 | 28.00 | 30.50 | 33.00 | 35.51 | 38.01 | 43.00 | 48.01 | 55.51 | 63.01 | 78.01 |
| 17.25 | 18.80 | 20.26 | 21.76 | 23.26 | 24.76 | 26.25 | 27.76 | 29.76 | 32.25 | 34.76 | 37.26 | 39.76 | 44.76 | 49.76 | 57.26 | 64.76 | 79.76 |
| 16.00 | 17.50 | 19.00 | 20.50 | 22.00 | 23.50 | 25.00 | 26.50 | 28.50 | 31.00 | 33.51 | 36.01 | 38.50 | 43.51 | 48.51 | 56.01 | 63.51 | 78.52 |
| 17.76 | 19.26 | 20.76 | 22.26 | 23.76 | 25.26 | 26.76 | 28.26 | 30.26 | 32.76 | 35.26 | 37.76 | 40.26 | 45.26 | 50.26 | 57.76 | 65.26 | 80.26 |
| 16.50 | 18.00 | 19.50 | 21.00 | 22.50 | 24.00 | 25.50 | 27.00 | 29.01 | 31.50 | 34.01 | 36.50 | 39.01 | 44.00 | 49.01 | 56.51 | 64.01 | 79.01 |
| 13.98 | 15.48 | 16.98 | 18.48 | 19.99 | 21.49 | 22.99 | 24.49 | 26.49 | 29.00 | 31.50 | 34.00 | 36.50 | 41.50 | 46.50 | 54.00 | 61.50 | 76.50 |
| 18.26 | 19.76 | 21.26 | 22.76 | 24.26 | 25.76 | 27.26 | 28.75 | 30.76 | 33.26 | 35.76 | 38.26 | 40.77 | 45.76 | 50.76 | 58.26 | 65.76 | 80.76 |
| 17.00 | 18.50 | 20.00 | 21.50 | 23.00 | 24.50 | 26.01 | 27.50 | 29.51 | 32.01 | 34.51 | 37.01 | 39.51 | 44.51 | 49.51 | 57.01 | 64.51 | 79.51 |
| 15.74 | 17.24 | 18.74 | 20.24 | 21.75 | 23.18 | 24.75 | 26.25 | 28.25 | 30.75 | 33.25 | 35.75 | 38.25 | 43.25 | 48.25 | 55.76 | 63.25 | 78.26 |

**H Belt Width Table**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Belt Width Factor** | .42 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 | 4.06 | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 |
| **Belt Width** | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 | 3-1/2 | 4 | 5 | 6 | 7 | 8 |
| **Belt Width Code** | 050 | 062 | 075 | 087 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | 800 |

**Shaded area indicates stock belt widths.**

# Selection

## H Stock Drive Selections



| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | | |
| 3500 | 1750 | 1160 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500 | 1750 | 1160 | 240H | 270H | 300H | 330H | 360H | 390H | 420H |
| – | 1167 | 773 | 1.50 | 48H | 7.639 | 72H | 11.459 | – | 13.84 | 9.55 | – | – | – | – | – | – | – |
| 2333 | 1167 | 773 | 1.50 | 40H | 6.366 | 60H | 9.549 | 20.08 | 11.79 | 8.03 | – | – | – | – | – | – | 8.35 |
| 2333 | 1167 | 773 | 1.50 | 32H | 5.093 | 48H | 7.639 | 17.40 | 9.60 | 6.48 | – | – | – | – | 7.90 | 9.42 | 10.93 |
| 2333 | 1167 | 773 | 1.50 | 20H | 3.183 | 30H | 4.775 | 11.77◊ | 6.11 | 4.08 | 5.70 | 7.21 | 8.72 | 10.23 | 11.73 | 13.24 | 14.74 |
| – | 1167 | 773 | 1.50 | 16H | 2.546 | 24H | 3.820 | – | 4.91◊ | 3.27◊ | 6.98 | 8.48 | 9.99 | 11.49 | 12.99 | 14.50 | 16.00 |
| 2275 | 1138 | 754 | 1.54 | 26H | 4.138 | 40H | 6.366 | 14.80 | 7.88 | 5.28 | – | – | 6.66 | 8.18 | 9.69 | 11.20 | 12.71 |
| 2250 | 1125 | 746 | 1.56 | 18H | 2.865 | 28H | 4.456 | 10.71◊ | 5.52◊ | 3.68 | 6.21 | 7.72 | 9.22 | 10.73 | 12.23 | 13.74 | 15.24 |
| – | – | 738 | 1.57 | 14H | 2.228 | 22H | 3.501 | – | – | 2.86◊ | 7.48 | 8.99 | 10.49 | 11.99 | 13.50 | 15.00 | 16.50 |
| 2188 | 1094 | 725 | 1.60 | 30H | 4.775 | 48H | 7.639 | 16.59 | 9.03 | 6.08 | – | – | – | 6.60 | 8.13 | 9.65 | 11.17 |
| 2188 | 1094 | 725 | 1.60 | 20H | 3.183 | 32H | 5.093 | 11.77◊ | 6.11 | 4.08 | 5.42 | 6.94 | 8.45 | 9.96 | 11.47 | 12.97 | 14.48 |
| – | 1077 | 714 | 1.63 | 16H | 2.546 | 26H | 4.138 | – | 4.91◊ | 3.27◊ | 6.71 | 8.22 | 9.73 | 11.23 | 12.73 | 14.24 | 15.74 |
| 2100 | 1050 | 696 | 1.67 | 24H | 3.820 | 40H | 6.366 | 13.82 | 7.30 | 4.89 | – | – | 6.89 | 8.41 | 9.93 | 11.44 | 12.95 |
| 2100 | 1050 | 696 | 1.67 | 18H | 2.865 | 30H | 4.775 | 10.71◊ | 5.52◊ | 3.68 | 5.93 | 7.45 | 8.96 | 10.46 | 11.97 | 13.48 | 14.98 |
| 2042 | 1021 | 677 | 1.71 | 28H | 4.456 | 48H | 7.639 | 15.74 | 8.46 | 5.68 | – | – | – | 6.82 | 8.35 | 9.88 | 11.40 |
| – | – | 677 | 1.71 | 14H | 2.228 | 24H | 3.820 | – | – | 2.86◊ | 7.22 | 8.72 | 10.23 | 11.74 | 13.24 | 14.74 | 16.24 |
| – | 1000 | 663 | 1.75 | 48H | 7.639 | 84H | 13.369 | – | 13.84 | 9.55 | – | – | – | – | – | – | – |
| – | 1000 | 663 | 1.75 | 16H | 2.546 | 28H | 4.456 | – | 4.91◊ | 3.27◊ | 6.44 | 7.95 | 9.46 | 10.97 | 12.47 | 13.98 | 15.48 |
| 1969 | 985 | 652 | 1.78 | 18H | 2.865 | 32H | 5.093 | 10.71◊ | 5.52◊ | 3.68 | 5.65 | 7.17 | 8.69 | 10.20 | 11.71 | 13.21 | 14.72 |
| 1944 | 972 | 644 | 1.80 | 40H | 6.366 | 72H | 11.459 | 20.08 | 11.79 | 8.03 | – | – | – | – | – | – | – |
| 1925 | 963 | 638 | 1.82 | 22H | 3.501 | 40H | 6.366 | 12.84 | 6.71 | 4.48 | – | 5.57 | 7.11 | 8.64 | 10.16 | 11.67 | 13.18 |
| 1896 | 948 | 628 | 1.85 | 26H | 4.138 | 48H | 7.639 | 14.80 | 7.88 | 5.28 | – | – | – | 7.04 | 8.58 | 10.11 | 11.63 |
| – | – | 625 | 1.86 | 14H | 2.226 | 26H | 4.138 | – | – | 2.86◊ | 6.94 | 8.45 | 9.96 | 11.47 | 12.97 | 14.48 | 15.98 |
| 1867 | 933 | 619 | 1.88 | 32H | 5.093 | 60H | 9.549 | 17.40 | 9.60 | 6.48 | – | – | – | – | – | 7.68 | 9.24 |
| – | 933 | 619 | 1.88 | 16H | 2.546 | 30H | 4.775 | – | 4.91◊ | 3.27◊ | 6.16 | 7.68 | 9.19 | 10.70 | 12.21 | 13.71 | 15.22 |
| – | 875 | 580 | 2.00 | 48H | 7.639 | 96H | 15.279 | – | 13.84 | 9.55 | – | – | – | – | – | – | – |
| 1750 | 875 | 580 | 2.00 | 30H | 4.775 | 60H | 9.549 | 16.59 | 9.03 | 6.08 | – | – | – | – | – | 7.89 | 9.45 |
| 1750 | 875 | 580 | 2.00 | 24H | 3.820 | 48H | 7.639 | 13.82 | 7.30 | 4.89 | – | – | – | 7.25 | 8.80 | 10.33 | 11.85 |
| 1750 | 875 | 580 | 2.00 | 20H | 3.183 | 40H | 6.366 | 11.77◊ | 6.11 | 4.08 | – | 5.78 | 7.33 | 8.86 | 10.39 | 11.90 | 13.41 |
| – | 875 | 580 | 2.00 | 16H | 2.546 | 32H | 5.093 | – | 4.91◊ | 3.27◊ | 5.87 | 7.40 | 8.92 | 10.43 | 11.94 | 13.45 | 14.96 |
| – | – | 580 | 2.00 | 14H | 2.228 | 28H | 4.456 | – | – | 2.66◊ | 6.67 | 8.18 | 9.69 | 11.20 | 12.71 | 14.22 | 15.72 |
| 1667 | 833 | 552 | 2.10 | 40H | 6.366 | 84H | 13.369 | 20.08 | 11.79 | 8.03 | – | – | – | – | – | – | – |
| 1633 | 817 | 541 | 2.14 | 28H | 4.456 | 60H | 9.549 | 15.74 | 8.46 | 5.68 | – | – | – | – | – | 8.10 | 9.67 |
| – | – | 541 | 2.14 | 14H | 2.228 | 30H | 4.775 | – | – | 2.86◊ | 6.38 | 7.90 | 9.42 | 10.94 | 12.44 | 13.95 | 15.46 |
| 1604 | 802 | 532 | 2.18 | 22H | 3.501 | 48H | 7.639 | 12.84 | 6.71 | 4.48 | – | – | – | 7.47 | 9.02 | 10.55 | 12.08 |
| 1575 | 788 | 522 | 2.22 | 18H | 2.865 | 40H | 6.366 | 10.71◊ | 5.52◊ | 3.68 | – | 6.00 | 7.55 | 9.09 | 10.61 | 12.13 | 13.65 |
| 1556 | 778 | 516 | 2.25 | 32H | 5.093 | 72H | 11.459 | 17.40 | 9.60 | 6.48 | – | – | – | – | – | – | – |
| – | – | 507 | 2.29 | 14H | 2.228 | 32H | 5.093 | – | – | 2.86◊ | 6.09 | 7.62 | 9.15 | 10.66 | 12.18 | 13.68 | 15.19 |
| 1517 | 758 | 503 | 2.31 | 26H | 4.138 | 60H | 9.549 | 14.80 | 7.88 | 5.28 | – | – | – | – | – | 8.31 | 9.88 |
| 1458 | 729 | 483 | 2.40 | 40H | 6.366 | 96H | 15.279 | 20.08 | 11.79 | 8.03 | – | – | – | – | – | – | – |
| 1458 | 729 | 483 | 2.40 | 30H | 4.775 | 72H | 11.459 | 16.59 | 9.03 | 6.08 | – | – | – | – | – | – | – |
| 1458 | 729 | 483 | 2.40 | 20H | 3.183 | 48H | 7.639 | 11.77◊ | 6.11 | 4.08 | – | – | 6.09 | 7.68 | 9.24 | 10.78 | 12.31 |
| – | 700 | 464 | 2.50 | 48H | 7.639 | 120H | 19.099 | – | 13.84 | 9.55 | – | – | – | – | – | – | – |
| 1400 | 700 | 464 | 2.50 | 24H | 3.820 | 60H | 9.549 | 13.82 | 7.30 | 4.89 | – | – | – | – | – | 8.52 | 10.10 |
| – | 700 | 464 | 2.50 | 16H | 2.546 | 40H | 6.366 | – | 4.91◊ | 3.27◊ | – | 6.21 | 7.77 | 9.31 | 10.84 | 12.36 | 13.88 |
| 1361 | 681 | 451 | 2.57 | 28H | 4.456 | 72H | 11.459 | 15.74 | 8.46 | 5.68 | – | – | – | – | – | – | – |
| 1333 | 667 | 442 | 2.63 | 32H | 5.093 | 84H | 13.369 | 17.40 | 9.60 | 6.48 | – | – | – | – | – | – | – |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

♥ Flanges Required on both pulleys.

# Selection

## H Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 450H | 480H | 510H | 540H | 570H | 600H | 630H | 660H | 700H | 750H | 800H | 850H | 900H | 1000H | 1100H | 1250H | 1400H | 1700H |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| – | – | 10.33 | 11.85 | 13.37 | 14.88 | 16.40 | 17.91 | 19.92 | 22.43 | 24.94 | 27.44 | 29.95 | 34.96 | 39.96 | 47.47 | 54.98 | 69.99♥ |
| 9.88 | 11.40 | 12.91 | 14.42 | 15.93 | 17.44 | 18.94 | 20.45 | 22.45 | 24.96 | 27.46 | 29.97 | 32.47 | 37.48 | 42.48 | 49.98 | 57.49♥ | 72.49♥ |
| 12.44 | 13.95 | 15.46 | 16.97 | 18.47 | 19.97 | 21.47 | 22.97 | 24.98 | 27.48 | 29.98 | 32.49 | 34.99 | 39.99 | 44.99 | 52.50 | 60.00 | 74.99 |
| 16.24 | 17.74 | 19.24 | 20.75 | 22.25 | 23.75 | 25.25 | 26.75 | 28.75 | 31.25 | 33.75 | 36.25 | 38.75 | 43.76 | 48.76 | 56.27 | 63.75 | 78.76 |
| 17.50 | 19.00 | 20.50 | 22.00 | 23.50 | 25.00 | 26.50 | 28.00 | 30.01 | 32.51 | 35.01 | 37.50 | 40.01 | 45.02 | 50.01 | 57.51 | 65.01 | 80.01 |
| 14.21 | 15.72 | 17.22 | 18.73 | 20.23 | 21.73 | 23.23 | 24.74 | 26.74 | 29.24 | 31.74 | 34.24 | 36.75 | 41.75 | 46.75 | 54.25 | 61.75 | 76.75 |
| 16.74 | 18.24 | 19.75 | 21.25 | 22.75 | 24.25 | 25.75 | 27.25 | 29.25 | 31.75 | 34.25 | 36.49 | 39.25 | 44.26 | 49.25 | 56.75 | 64.26 | 79.26 |
| 18.00 | 19.50 | 21.00 | 22.50 | 24.00 | 25.50 | 27.01 | 28.50 | 30.51 | 33.01 | 35.51 | 38.01 | 40.51 | 45.51 | 50.50 | 58.02 | 65.51 | 80.51 |
| 12.68 | 14.19 | 15.69 | 17.20 | 18.70 | 20.21 | 21.71 | 23.22 | 25.22 | 27.72 | 30.23 | 32.13 | 35.23 | 40.24 | 45.24 | 52.74 | 60.25 | 75.25 |
| 15.98 | 17.48 | 18.99 | 20.49 | 21.99 | 23.49 | 24.99 | 26.49 | 28.50 | 31.00 | 33.50 | 36.00 | 38.50 | 43.50 | 48.50 | 56.00 | 63.52 | 78.51 |
| 17.24 | 18.74 | 20.25 | 21.75 | 23.18 | 24.75 | 26.25 | 27.75 | 29.75 | 32.25 | 34.75 | 37.25 | 39.76 | 44.76 | 49.76 | 57.25 | 64.76 | 79.77 |
| 14.45 | 15.96 | 17.46 | 18.97 | 20.47 | 21.97 | 23.48 | 24.98 | 26.98 | 29.48 | 31.99 | 34.49 | 36.99 | 41.99 | 47.00 | 54.50 | 62.00 | 77.01 |
| 16.48 | 17.96 | 19.49 | 20.99 | 22.49 | 23.99 | 25.49 | 26.99 | 29.00 | 31.50 | 34.00 | 36.50 | 39.00 | 44.00 | 49.00 | 56.51 | 64.01 | 79.01 |
| 12.91 | 14.42 | 15.93 | 17.44 | 18.94 | 20.45 | 21.95 | 23.46 | 25.46 | 27.97 | 30.47 | 32.97 | 35.48 | 40.48 | 45.48 | 52.99 | 60.49 | 75.49 |
| 17.74 | 19.24 | 20.75 | 22.25 | 23.75 | 25.25 | 26.75 | 28.25 | 30.25 | 32.75 | 35.25 | 37.75 | 40.25 | 45.26 | 50.27 | 57.76 | 65.25 | 80.26 |
| – | – | – | – | 11.65 | 13.19 | 14.73 | 16.25 | 18.28 | 20.81 | 23.33 | 25.85 | 28.34 | 33.39 | 38.40 | 45.92 | 53.43 | 68.45♥ |
| 16.98 | 18.49 | 19.99 | 21.49 | 22.99 | 24.49 | 26.00 | 27.49 | 29.50 | 32.00 | 34.50 | 37.00 | 39.50 | 44.50 | 49.50 | 57.01 | 64.50 | 79.51 |
| 16.22 | 17.73 | 19.23 | 20.73 | 22.23 | 23.73 | 25.24 | 26.74 | 28.74 | 31.24 | 33.74 | 36.24 | 38.75 | 43.75 | 48.75 | 56.25 | 63.75 | 78.77 |
| – | 9.67 | 11.22 | 12.75 | 14.28 | 25.81 | 17.32 | 18.84 | 20.85 | 23.37 | 25.88 | 28.40 | 30.90 | 35.92 | 40.93 | 48.44 | 55.95♥ | 70.97♥ |
| 14.69 | 16.20 | 17.70 | 19.21 | 20.71 | 22.21 | 23.72 | 25.22 | 27.22 | 29.73 | 32.23 | 34.73 | 37.23 | 42.24 | 47.24 | 54.74 | 62.25 | 77.25 |
| 13.14 | 14.65 | 16.16 | 17.67 | 19.18 | 20.68 | 22.19 | 23.69 | 25.70 | 28.21 | 30.71 | 33.21 | 35.72 | 40.72 | 45.73 | 53.24 | 60.74 | 75.74 |
| 17.49 | 18.99 | 20.49 | 21.99 | 23.49 | 24.99 | 26.49 | 27.99 | 30.00 | 32.50 | 35.00 | 37.50 | 40.00 | 45.00 | 50.00 | 57.50 | 65.00 | 80.01 |
| 10.78 | 12.31 | 13.83 | 15.35 | 16.86 | 18.37 | 19.88 | 21.39 | 23.40 | 25.91 | 28.42 | 30.93 | 33.44 | 38.45 | 43.45♥ | 50.96♥♥ | 58.47♥ | 73.48♥ |
| 16.72 | 18.23 | 19.73 | 21.23 | 22.73 | 24.24 | 25.74 | 27.24 | 29.24 | 31.74 | 34.24 | 36.75 | 39.25 | 44.25 | 49.25 | 56.15 | 64.14 | 79.25 |
| – | – | – | – | – | – | 12.94 | 14.50 | 16.56 | 19.12 | 21.67 | 24.21 | 26.74 | 31.78 | 36.81 | 44.35 | 51.87 | 66.90 |
| 11.00 | 12.53 | 14.06 | 15.58 | 17.09 | 18.61 | 20.35 | 21.63 | 23.64 | 26.15 | 28.66 | 31.17 | 33.68 | 38.69♥ | 43.70♥ | 51.21♥ | 58.71♥ | 73.73♥ |
| 13.37 | 14.89 | 16.40 | 17.91 | 19.42 | 20.92 | 22.43 | 23.93 | 25.94 | 28.45 | 30.95 | 33.46 | 35.96 | 40.97 | 45.97 | 53.48 | 60.98 | 75.99 |
| 14.92 | 16.43 | 17.94 | 19.45 | 20.95 | 22.45 | 23.96 | 25.46 | 27.47 | 29.97 | 32.47 | 34.97 | 37.48 | 42.48 | 47.48 | 54.99 | 62.49 | 77.50 |
| 16.46 | 17.97 | 19.47 | 20.87 | 22.48 | 23.98 | 25.48 | 26.98 | 28.99 | 31.48 | 33.99 | 36.49 | 38.99 | 43.99 | 49.00 | 56.50 | 64.00 | 79.01 |
| 17.22 | 18.73 | 20.23 | 21.73 | 23.23 | 24.74 | 26.24 | 27.74 | 29.74 | 32.24 | 34.74 | 37.25 | 39.75 | 44.75 | 49.75 | 57.25 | 64.75 | 79.75 |
| – | – | – | 10.94 | 12.51 | 14.07 | 15.61 | 17.15 | 19.19 | 21.73 | 24.26 | 26.78 | 29.30 | 34.33 | 39.35 | 46.88 | 54.40♥ | 69.42♥ |
| 11.21 | 12.75 | 14.28 | 15.80 | 17.32 | 16.64 | 20.35 | 21.86 | 23.87 | 26.39 | 28.90 | 31.41 | 33.91 | 38.93♥ | 43.94♥ | 51.45♥ | 58.95♥ | 73.97♥ |
| 16.96 | 18.47 | 19.97 | 21.47 | 22.98 | 24.46 | 25.98 | 27.48 | 29.48 | 31.99 | 34.49 | 36.99 | 39.49 | 44.49 | 49.50 | 57.01 | 64.50 | 79.50 |
| 13.60 | 15.12 | 16.66 | 18.14 | 19.65 | 21.16 | 22.67 | 24.17 | 26.18 | 28.69 | 31.19 | 33.70 | 36.20 | 41.21 | 46.22 | 53.72 | 61.23 | 76.24 |
| 15.16 | 16.67 | 18.18 | 19.68 | 21.19 | 22.69 | 24.20 | 25.70 | 27.71 | 30.21 | 32.71 | 35.22 | 37.72 | 42.73 | 47.73 | 55.23 | 62.74 | 77.74 |
| 8.93 | 10.52 | 12.08 | 13.63 | 15.17 | 16.70 | 18.23 | 19.75 | 21.78 | 24.30 | 26.82 | 29.34 | 31.85 | 36.87 | 41.89♥ | 49.41♥ | 56.92♥ | 71.94♥ |
| 16.70 | 18.20 | 19.70 | 21.21 | 22.72 | 24.22 | 25.72 | 27.22 | 29.23 | 31.73 | 34.23 | 36.73 | 39.24 | 44.24 | 49.24 | 56.75 | 64.25 | 79.25 |
| 11.44 | 12.97 | 14.51 | 16.03 | 17.55 | 19.07 | 20.58 | 22.09 | 24.11 | 26.62 | 29.13 | 31.64 | 34.15♥ | 39.17♥ | 44.18♥ | 51.69♥ | 59.20♥ | 74.21♥ |
| – | – | – | – | – | 12.18 | 13.78 | 15.35 | 17.43 | 20.01 | 22.57 | 25.11 | 27.65 | 32.71 | 37.75 | 45.29 | 52.82♥ | 67.87♥ |
| 9.14 | 10.76 | 12.30 | 13.85 | 15.39 | 16.93 | 18.45 | 19.98 | 22.01 | 24.53 | 27.05 | 29.57 | 32.09 | 37.11 | 42.13♥ | 49.65♥ | 57.16♥ | 72.19♥ |
| 13.83 | 15.35 | 16.86 | 18.37 | 19.89 | 21.39 | 22.90 | 24.41 | 26.42 | 28.92 | 31.43 | 33.94 | 36.44 | 41.45 | 46.46 | 53.97 | 61.47 | 76.48 |
| – | – | – | – | – | – | – | – | – | 15.43 | 18.09 | 20.71 | 23.30 | 28.43 | 33.52 | 41.11 | 48.67 | 63.75♥ |
| 11.65 | 13.20 | 14.73 | 16.25 | 17.77 | 19.30 | 20.81 | 22.33 | 24.34 | 26.86 | 29.37 | 31.88♥ | 34.39♥ | 39.41♥ | 44.42♥ | 51.93♥ | 59.44♥ | 74.46♥ |
| 15.39 | 16.90 | 18.41 | 19.92 | 21.43 | 22.93 | 24.44 | 25.94 | 27.95 | 30.45 | 32.96 | 35.46 | 37.97 | 42.97 | 47.97 | 55.48 | 62.98 | 77.99 |
| 9.34 | 10.94 | 12.51 | 14.07 | 15.61 | 17.15 | 18.68 | 20.20 | 22.23 | 24.76 | 27.28 | 29.80 | 32.32 | 37.35♥ | 42.37♥ | 49.89♥ | 57.40♥ | 72.43♥ |
| – | – | 10.15 | 11.77 | 13.36 | 14.93 | 16.49 | 18.03 | 20.08 | 22.63 | 25.17 | 27.70 | 30.23 | 35.22 | 40.30 | 47.83♥ | 55.36♥ | 70.39♥ |

**H Belt Width Table**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Belt Width Factor** | .42 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 | 4.06 | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 |
| **Belt Width** | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 | 3-1/2 | 4 | 5 | 6 | 7 | 8 |
| **Belt Width Code** | 050 | 062 | 075 | 087 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | 800 |

**Shaded area indicates stock belt widths.**

# Selection

## H Stock Drive Selections



| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | | Nominal C.D. Using DYNA-SYNC Belts | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | | | | | | | | |
| 3500 | 1750 | 1160 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 3500 | 1750 | 1160 | 240H | 270H | 300H | 330H | 360H | 390H | 420H |
| 1312 | 656 | 435 | 2.67 | 18H | 2.865 | 48H | 7.639 | 10.71◊ | 5.52◊ | 3.68 | – | – | 6.30 | 7.89 | 9.45 | 11.00 | 12.53 |
| 1283 | 642 | 425 | 2.73 | 22H | 3.501 | 60H | 9.549 | 12.84 | 6.71 | 4.48 | – | – | – | – | 7.10 | 8.73 | 10.31 |
| 1264 | 632 | 419 | 2.77 | 26H | 4.138 | 72H | 11.459 | 14.80 | 7.88 | 5.28 | – | – | – | – | – | – | – |
| 1250 | 625 | 414 | 2.80 | 30H | 4.775 | 84H | 13.369 | 16.59 | 9.03 | 6.08 | – | – | – | – | – | – | – |
| – | – | 406 | 2.86 | 14H | 2.228 | 40H | 6.366 | – | – | 2.86◊ | 4.80† | 6.42† | 7.99† | 9.53 | 11.06 | 12.59 | 14.11 |
| 1167 | 583 | 387 | 3.00 | 40H | 6.366 | 120H | 19.099 | 20.08 | 11.79 | 8.03 | – | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 32H | 5.093 | 96H | 15.279 | 17.40 | 9.60 | 6.48 | – | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 28H | 4.456 | 84H | 13.369 | 15.74 | 8.46 | 5.68 | – | – | – | – | – | – | – |
| 1167 | 583 | 387 | 3.00 | 24H | 3.820 | 72H | 11.459 | 13.82 | 7.30 | 4.89 | – | – | – | – | – | – | 8.08 |
| 1167 | 583 | 387 | 3.00 | 20H | 3.183 | 60H | 9.549 | 11.77◊ | 6.11 | 4.08 | – | – | – | – | 7.30 | 8.93 | 10.52 |
| – | 583 | 387 | 3.00 | 16H | 2.546 | 48H | 7.639 | – | 4.91◊ | 3.27◊ | – | – | 6.50 | 8.10 | 9.67 | 11.22 | 12.75 |
| 1094 | 547 | 363 | 3.20 | 30H | 4.775 | 96H | 15.279 | 16.59 | 9.03 | 6.08 | – | – | – | – | – | – | – |
| 1084 | 542 | 359 | 3.23 | 26H | 4.138 | 84H | 13.369 | 14.80 | 7.88 | 5.28 | – | – | – | – | – | – | – |
| 1069 | 535 | 354 | 3.27 | 22H | 3.501 | 72H | 11.459 | 12.84 | 6.71 | 4.48 | – | – | – | – | – | – | 8.28 |
| 1050 | 525 | 348 | 3.33 | 18H | 2.865 | 60H | 9.549 | 10.71◊ | 5.52◊ | 3.68 | – | – | – | – | 7.50 | 9.14 | 10.77 |
| 1021 | 510 | 338 | 3.43 | 28H | 4.456 | 96H | 15.279 | 15.74 | 8.46 | 5.68 | – | – | – | – | – | – | – |
| – | – | 338 | 3.43 | 14H | 2.228 | 48H | 7.639 | – | – | 2.86◊ | – | – | 6.70† | 8.95† | 9.88† | 11.44† | 12.98 |
| 1000 | 500 | 331 | 3.50 | 24H | 3.820 | 84H | 13.369 | 13.82 | 7.30 | 4.89 | – | – | – | – | – | – | – |
| 972 | 486 | 322 | 3.60 | 20H | 3.183 | 72H | 11.459 | 11.77◊ | 6.11 | 4.08 | – | – | – | – | – | – | 8.47 |
| 948 | 474 | 314 | 3.69 | 26H | 4.138 | 96H | 15.279 | 14.80 | 7.88 | 5.28 | – | – | – | – | – | – | – |
| 933 | 467 | 309 | 3.75 | 32H | 5.093 | 120H | 19.099 | 17.40 | 9.60 | 6.48 | – | – | – | – | – | – | – |
| – | 467 | 309 | 3.75 | 16H | 2.546 | 60H | 9.549 | – | 4.91◊ | 3.27◊ | – | – | – | – | 7.69† | 9.34† | 10.94 |
| 916 | 458 | 304 | 3.82 | 22H | 3.501 | 84H | 13.369 | 12.84 | 6.71 | 4.48 | – | – | – | – | – | – | – |
| 875 | 438 | 290 | 4.00 | 30H | 4.775 | 120H | 19.099 | 16.59 | 9.03 | 6.08 | – | – | – | – | – | – | – |
| 875 | 438 | 290 | 4.00 | 24H | 3.820 | 96H | 15.279 | 13.82 | 7.30 | 4.89 | – | – | – | – | – | – | – |
| 875 | 438 | 290 | 4.00 | 18H | 2.865 | 72H | 11.459 | 10.71◊ | 5.52◊ | 3.68 | – | – | – | – | – | – | 8.67 |
| 833 | 417 | 276 | 4.20 | 20H | 3.183 | 84H | 13.369 | 11.77◊ | 6.11 | 4.08 | – | – | – | – | – | – | – |
| 817 | 408 | 271 | 4.29 | 28H | 4.456 | 120H | 19.099 | 15.74 | 8.46 | 5.68 | – | – | – | – | – | – | – |
| – | – | 271 | 4.29 | 14H | 2.228 | 60H | 9.549 | – | – | 2.86◊ | – | – | – | 6.12‡ | 7.89‡ | 9.55† | 11.15† |
| 802 | 401 | 266 | 4.36 | 22H | 3.501 | 96H | 15.279 | 12.84 | 6.71 | 4.48 | – | – | – | – | – | – | – |
| – | 389 | 258 | 4.50 | 16H | 2.546 | 72H | 11.459 | – | 4.91◊ | 3.27◊ | – | – | – | – | – | – | 8.86† |
| 758 | 379 | 251 | 4.62 | 26H | 4.138 | 120H | 19.099 | 14.80 | 7.88 | 5.28 | – | – | – | – | – | – | – |
| 749 | 375 | 248 | 4.67 | 18H | 2.865 | 84H | 13.369 | 10.71◊ | 5.52 | 3.68 | – | – | – | – | – | – | – |
| 729 | 365 | 242 | 4.80 | 20H | 3.183 | 96H | 15.279 | 11.77◊ | 6.11 | 4.08 | – | – | – | – | – | – | – |
| 700 | 350 | 232 | 5.00 | 24H | 3.820 | 120H | 19.099 | 13.82 | 7.30 | 4.89 | – | – | – | – | – | – | – |
| – | – | 226 | 5.14 | 14H | 2.228 | 72H | 11.459 | – | – | 2.86◊ | – | – | – | – | – | 7.22§ | 9.05‡ |
| – | 333 | 221 | 5.25 | 16H | 2.546 | 84H | 13.369 | – | 4.91◊ | 3.27◊ | – | – | – | – | – | – | – |
| 656 | 323 | 217 | 5.33 | 18H | 2.865 | 96H | 15.279 | 10.71◊ | 5.52◊ | 3.68 | – | – | – | – | – | – | – |
| 642 | 321 | 213 | 5.45 | 22H | 3.501 | 120H | 19.099 | 12.84 | 6.71 | 4.48 | – | – | – | – | – | – | – |
| 583 | 294 | 193 | 6.00 | 20H | 3.183 | 120H | 19.099 | 11.77◊ | 6.11 | 4.08 | – | – | – | – | – | – | – |
| – | 292 | 193 | 6.00 | 16H | 2.546 | 96H | 15.219 | – | 4.91◊ | 3.27◊ | – | – | – | – | – | – | – |
| – | – | 193 | 6.00 | 14H | 2.228 | 84H | 13.369 | – | – | 2.86◊ | – | – | – | – | – | – | – |
| 525 | 262 | 174 | 6.67 | 18H | 2.865 | 120H | 19.099 | 10.71◊ | 5.52◊ | 3.68◊ | – | – | – | – | – | – | – |
| – | – | 169 | 6.86 | 14H | 2.228 | 96H | 15.279 | – | – | 3.27◊ | – | – | – | – | – | – | – |
| – | 233 | 155 | 7.50 | 16H | 2.546 | 120H | 19.099 | – | 4.91◊ | 2.86◊ | – | – | – | – | – | – | – |
| – | – | 135 | 8.57 | 14H | 2.228 | 120H | 19.099 | – | – | – | – | – | – | – | – | – | – |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† ‡ § See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

# Selection

## H Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 450H | 480H | 510H | 540H | 570H | 600H | 630H | 660H | 700H | 750H | 800H | 850H | 900H | 1000H | 1100H | 1250H | 1400H | 1700H |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14.06 | 15.58 | 17.09 | 18.61 | 20.35 | 21.63 | 23.14 | 24.64 | 26.65 | 29.16 | 31.67 | 34.18 | 36.68 | 41.69 | 46.70 | 54.21 | 61.71 | 76.73 |
| 11.87 | 13.42 | 14.95 | 16.48 | 18.00 | 19.52 | 21.04 | 22.56 | 24.58 | 27.09 | 29.61♥ | 32.12♥ | 34.63♥ | 39.65♥ | 44.66♥ | 52.17♥ | 56.69♥ | 74.70♥ |
| 9.55 | 11.15 | 12.73 | 14.29 | 15.83 | 17.37 | 18.90 | 20.43 | 22.46 | 24.99 | 27.52 | 30.04 | 32.55 | 37.58♥ | 42.60♥ | 50.13♥ | 57.64♥ | 72.67♥ |
| – | – | 10.35 | 11.98 | 13.57 | 15.14 | 16.70 | 18.25 | 20.30 | 22.85 | 25.39 | 27.95 | 30.46 | 35.50 | 40.53♥ | 48.07♥ | 55.59♥ | 70.63♥ |
| 15.62 | 17.13 | 18.65 | 20.15 | 21.66 | 23.17 | 23.67 | 26.18 | 28.19 | 30.69 | 33.20 | 35.70 | 38.21 | 43.21 | 48.22 | 55.72 | 63.23 | 78.24 |
| – | – | – | – | – | – | – | – | 13.47 | 16.24 | 18.92 | 21.56 | 24.16 | 29.31 | 34.42 | 42.03 | 49.60 | 64.70♥ |
| – | – | – | – | 11.34 | 12.99 | 14.81 | 16.20 | 18.29 | 20.88 | 23.45 | 26.01 | 28.55 | 33.62 | 38.67 | 46.23♥ | 53.77♥ | 68.62♥ |
| – | – | 10.55 | 12.18 | 13.78 | 15.36 | 16.92 | 18.47 | 20.52 | 23.08 | 25.62 | 28.16 | 30.69 | 35.73♥ | 40.77♥ | 48.31♥ | 55.83♥ | 70.87♥ |
| 9.75 | 11.36 | 12.94 | 14.50 | 16.05 | 17.59 | 19.13 | 20.65 | 22.69 | 26.22 | 27.75 | 30.27 | 32.79♥ | 37.82♥ | 42.84♥ | 50.37♥ | 57.88♥ | 72.91♥ |
| 12.09 | 13.63 | 15.17 | 16.70 | 18.23 | 19.75 | 21.27 | 22.79 | 24.81 | 27.32♥ | 29.84♥ | 32.35♥ | 38.87♥ | 39.88♥ | 44.90♥ | 52.42♥ | 59.93♥ | 94.95♥ |
| 14.28 | 15.80 | 17.32 | 18.84 | 20.35 | 21.86 | 23.37 | 24.88 | 26.89 | 29.40 | 31.91 | 34.42 | 36.92 | 41.93 | 46.94 | 54.45 | 81.96 | 76.97 |
| – | – | – | – | 11.54 | 13.20 | 14.81 | 16.41 | 18.51 | 21.10 | 23.67 | 26.23 | 28.79 | 33.85 | 38.90♥ | 46.46♥ | 54.00♥ | 69.06♥ |
| – | 9.05 | 10.75 | 12.39 | 13.99 | 15.57 | 17.13 | 18.68 | 20.74 | 23.30 | 25.85 | 28.38 | 30.91 | 35.96♥ | 41.00♥ | 48.54♥ | 56.07♥ | 71.11♥ |
| 9.95 | 11.56 | 13.15 | 14.72 | 16.27 | 17.81 | 19.35 | 20.88 | 22.91 | 25.45 | 27.98 | 30.50♥ | 33.02♥ | 38.05♥ | 43.08♥ | 50.61♥ | 58.12♥ | 73.15♥ |
| 12.30 | 13.85 | 15.39 | 16.93 | 18.46 | 19.98 | 21.50 | 23.02♥ | 25.04♥ | 27.56♥ | 30.07♥ | 32.59♥ | 35.10♥ | 40.12♥ | 45.14♥ | 52.66♥ | 60.17♥ | 75.19♥ |
| – | – | – | – | 11.73 | 13.40 | 15.02 | 16.62 | 18.72 | 21.32 | 23.89 | 26.45 | 29.00 | 34.08 | 39.13♥ | 46.70♥ | 54.24♥ | 69.30♥ |
| 14.51 | 16.03 | 17.55 | 19.07 | 20.58 | 22.09 | 23.61 | 25.11 | 27.13 | 29.64 | 32.15 | 34.68 | 37.16 | 42.17 | 47.18 | 54.70 | 62.20 | 77.22♥ |
| – | 9.24 | 10.95 | 12.59 | 14.20 | 15.78 | 17.35 | 18.90 | 20.96 | 23.52 | 26.07 | 28.61 | 31.14♥ | 36.20♥ | 41.23♥ | 48.78♥ | 56.35♥ | 71.35♥ |
| 10.15 | 11.77 | 13.36 | 14.93 | 16.49 | 18.03 | 19.57 | 21.10 | 23.14 | 25.68♥ | 28.21♥ | 30.73♥ | 33.25♥ | 38.29♥ | 43.31♥ | 50.84♥ | 58.36♥ | 73.40♥ |
| – | – | – | 10.19 | 11.93 | 13.60 | 15.23 | 16.83 | 18.93 | 21.53 | 24.11 | 26.67 | 29.23 | 34.31♥ | 39.36♥ | 46.93♥ | 54.48♥ | 69.54♥ |
| – | – | – | – | – | – | – | – | 14.25 | 17.05 | 19.75 | 22.40 | 25.02 | 30.19 | 35.31 | 42.94♥ | 50.52♥ | 65.64♥ |
| 12.51 | 14.07 | 15.61 | 17.15 | 18.86 | 21.20 | 21.73♥ | 23.26♥ | 25.27♥ | 27.79♥ | 30.31♥ | 32.82♥ | 35.34♥ | 40.36♥ | 45.38♥ | 52.90♥ | 60.41♥ | 75.43♥ |
| – | 9.43 | 11.14 | 12.79 | 14.40 | 15.99 | 17.56 | 19.12 | 21.18 | 23.74 | 26.30 | 28.84♥ | 31.37♥ | 36.43♥ | 41.47♥ | 49.01♥ | 56.54♥ | 71.59♥ |
| – | – | – | – | – | – | – | – | 14.44 | 17.25 | 19.96 | 22.61 | 25.23 | 30.41 | 35.53 | 43.16♥ | 50.75♥ | 65.87♥ |
| – | – | – | 10.38 | 12.12 | 13.80 | 15.43 | 17.03 | 19.14 | 21.75 | 24.33 | 27.00 | 29.45 | 34.53♥ | 39.59♥ | 47.16♥ | 54.71♥ | 69.78♥ |
| 10.35 | 11.98 | 13.57 | 15.14 | 16.70 | 18.25 | 19.79 | 21.32 | 23.36♥ | 25.90♥ | 28.44♥ | 30.96♥ | 33.48♥ | 38.52♥ | 43.55♥ | 51.08♥ | 58.60♥ | 73.64♥ |
| – | 9.62 | 11.34 | 12.99 | 14.61 | 16.20 | 17.77 | 19.33 | 21.40 | 23.97 | 26.52♥ | 29.06♥ | 31.60♥ | 36.66♥ | 41.70♥ | 49.25♥ | 56.78♥ | 71.83♥ |
| – | – | – | – | – | – | – | – | 14.63 | 17.45 | 20.16 | 22.82 | 25.45 | 30.63 | 35.76♥ | 43.39♥ | 50.98♥ | 66.11♥ |
| 12.73† | 14.29† | 15.83† | 17.37 | 21.95♥ | 18.90♥ | 20.43♥ | 23.47♥ | 25.50♥ | 28.02♥ | 30.54♥ | 33.06♥ | 35.57♥ | 40.60♥ | 45.61♥ | 53.14♥ | 60.65♥ | 75.67♥ |
| – | – | – | 10.57 | 12.32 | 14.00 | 15.63 | 17.24 | 19.36 | 21.96 | 24.55 | 27.12 | 29.67♥ | 34.76♥ | 39.82♥ | 47.39♥ | 54.94♥ | 70.01♥ |
| 10.55† | 12.1† | 13.78 | 15.36 | 16.92 | 18.47 | 20.01 | 21.55♥ | 23.59♥ | 26.13♥ | 28.66♥ | 31.19♥ | 33.72♥ | 38.75♥ | 43.78♥ | 51.32♥ | 58.84♥ | 73.88♥ |
| – | – | – | – | – | – | – | 12.43 | 14.82 | 17.65 | 20.37 | 23.03 | 25.66 | 30.85 | 35.98♥ | 43.62♥ | 51.21♥ | 66.34♥ |
| – | 9.81† | 11.54 | 13.20 | 14.82 | 15.41 | 17.99 | 19.55 | 21.62 | 24.19♥ | 26.74♥ | 29.29♥ | 31.83♥ | 36.89♥ | 41.93♥ | 49.48♥ | 57.02♥ | 72.07♥ |
| – | – | – | 10.75 | 12.51 | 14.20 | 15.84 | 17.45 | 19.57 | 22.18 | 24.77 | 27.34♥ | 29.90♥ | 34.99♥ | 40.05♥ | 47.63♥ | 55.18♥ | 70.25♥ |
| – | – | – | – | – | – | – | – | 15.02 | 17.84 | 20.57 | 23.24 | 25.87 | 31.06♥ | 36.20♥ | 43.84♥ | 51.44♥ | 66.57♥ |
| 10.75† | 12.39† | 13.99† | 15.57† | 17.13† | 18.69†♥ | 20.23†♥ | 21.77♥ | 23.81♥ | 26.35♥ | 28.89♥ | 31.42♥ | 33.95♥ | 38.99♥ | 44.02♥ | 51.55♥ | 59.08♥ | 74.12♥ |
| – | 10.00† | 11.73† | 13.40 | 15.02 | 16.62 | 18.20 | 19.76 | 21.84♥ | 24.39♥ | 26.96♥ | 29.51♥ | 32.08♥ | 37.12♥ | 42.16♥ | 49.72♥ | 57.25♥ | 72.31♥ |
| – | – | – | 10.94† | 12.71† | 14.40 | 16.04 | 17.65 | 19.78 | 22.39 | 24.98♥ | 27.56♥ | 30.12♥ | 35.21♥ | 40.28♥ | 47.86♥ | 55.41♥ | 70.49♥ |
| – | – | – | – | – | – | – | 12.79 | 15.21 | 18.04 | 20.78 | 23.45 | 26.08 | 31.28♥ | 36.42♥ | 44.07♥ | 51.6♥ | 66.81♥ |
| – | – | – | – | – | – | – | 12.98† | 15.40 | 18.24 | 20.98 | 23.66 | 26.29♥ | 31.50♥ | 36.64♥ | 44.29♥ | 51.90♥ | 67.04♥ |
| – | – | 9.20§ | 11.13‡ | 12.90 | 14.59† | 16.24† | 17.86 | 19.99 | 22.61♥ | 25.20♥ | 27.78♥ | 30.34♥ | 35.44♥ | 40.51♥ | 48.09♥ | 55.65♥ | 70.73♥ |
| 8.30§ | 10.19‡ | 11.93‡ | 13.60† | 15.23† | 16.83† | 18.41†♥ | 19.98† | 22.05†♥ | 24.63†♥ | 27.19♥ | 29.74♥ | 32.28♥ | 37.34♥ | 42.39♥ | 49.95♥ | 57.49♥ | 72.55♥ |
| – | – | 9.37§ | 11.31‡ | 13.09‡ | – | – | 13.16† | 15.59† | 18.44 | 21.18 | 23.86♥ | 26.51♥ | 31.71♥ | 36.86♥ | 44.52♥ | 52.13♥ | 67.27♥ |
| – | – | – | – | – | 14.79‡ | 16.44† | 18.07†♥ | 20.19†♥ | 22.82†♥ | 25.42†♥ | 27.99†♥ | 30.56†♥ | 35.66♥ | 40.74♥ | 48.32♥ | 55.88♥ | 70.96♥ |
| – | – | – | – | – | – | – | 13.64‡ | 15.78† | 18.64† | 21.38†♥ | 24.07♥ | 26.72♥ | 31.93♥ | 37.08♥ | 44.74♥ | 52.35♥ | 67.50♥ |
| – | – | – | – | – | – | 11.49§ | 13.53§ | 15.97‡ | 18.83‡♥ | 21.59†♥ | 24.28†♥ | 26.93†♥ | 32.14†♥ | 37.30♥ | 44.97♥ | 52.58♥ | 67.74♥ |

### H Belt Width Table

| Belt Width Factor | .42 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 | 4.06 | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 | 3-1/2 | 4 | 5 | 6 | 7 | 8 |
| Belt Width Code | 050 | 062 | 075 | 087 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | 800 |

### Teeth in Mesh factor (T.I.M)

| INTRO-4 | Reference Guide | Factor |
|---|---|---|
| None | 6 or More | 1 |
| † | 5 | 0.8 |

Shaded area indicates stock belt widths.

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| ‡ | 4 | 0.6 |
| § | 3 | 0.4 |

# Selection

## XH Stock Drive Selections



| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | |
| 1750 | 1160 | 870 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 1750 | 1160 | 870 |
| 1750 | 1160 | 870 | 1.00 | 40XH | 11.141 | 40XH | 11.141 | 22.22 | 17.44 | 13.79 |
| 1750 | 1160 | 870 | 1.00 | 32XH | 8.913 | 32XH | 8.913 | 19.87 | 14.57 | 11.29 |
| 1750 | 1160 | 870 | 1.00 | 30XH | 8.356 | 30XH | 8.356 | 19.06 | 13.79 | 10.63 |
| 1750 | 1160 | 870 | 1.00 | 28XH | 7.799 | 28XH | 7.799 | 18.16 | 12.97 | 9.97 |
| 1750 | 1160 | 870 | 1.00 | 26XH | 7.241 | 26XH | 7.241 | 17.17 | 12.13 | 9.29 |
| 1750 | 1160 | 870 | 1.00 | 24XH | 6.685 | 24XH | 6.685 | 16.14◊ | 11.29 | 8.61 |
| 1750 | 1160 | 870 | 1.00 | 22XH | 6.127 | 22XH | 6.127 | 15.03◊ | 10.41◊ | 7.92 |
| 1750 | 1160 | 870 | 1.00 | 20XH | 5.570 | 20XH | 5.570 | 13.85◊ | 9.51◊ | 7.23◊ |
| – | 1160 | 870 | 1.00 | 18XH | 5.013 | 18XH | 5.013 | – | 8.61 | 6.52◊ |
| 1641 | 1088 | 816 | 1.07 | 30XH | 8.356 | 32XH | 8.913 | 19.06 | 13.79 | 10.63 |
| 1633 | 1083 | 812 | 1.07 | 28XH | 7.799 | 30XH | 8.356 | 18.16 | 12.97 | 9.97 |
| 1625 | 1077 | 808 | 1.08 | 26XH | 7.241 | 28XH | 7.799 | 17.17 | 12.13 | 9.29 |
| 1615 | 1071 | 803 | 1.08 | 24XH | 6.685 | 26XH | 7.241 | 16.14◊ | 11.29 | 8.61 |
| 1604 | 1063 | 798 | 1.09 | 22XH | 6.127 | 24XH | 6.685 | 15.03◊ | 10.41◊ | 7.92 |
| 1591 | 1055 | 791 | 1.10 | 20XH | 5.570 | 22XH | 6.127 | 13.85◊ | 9.51◊ | 7.23◊ |
| – | 1044 | 783 | 1.11 | 18XH | 5.013 | 20XH | 5.570 | – | 8.61◊ | 6.52◊ |
| 1531 | 1015 | 761 | 1.14 | 28XH | 7.799 | 32XH | 8.913 | 18.16 | 12.97 | 9.97 |
| 1517 | 1005 | 754 | 1.15 | 26XH | 7.241 | 30XH | 8.356 | 17.17 | 12.13 | 9.29 |
| 1500 | 994 | 746 | 1.17 | 24XH | 6.685 | 28XH | 7.799 | 16.14◊ | 11.29 | 8.61 |
| 1481 | 982 | 736 | 1.18 | 22XH | 6.127 | 26XH | 7.241 | 15.03◊ | 10.41◊ | 7.92 |
| 1458 | 967 | 725 | 1.20 | 40XH | 11.141 | 48XH | 13.369 | 22.22 | 17.44 | 13.79 |
| 1458 | 967 | 725 | 1.20 | 20XH | 5.570 | 24XH | 6.685 | 13.85 | 9.51◊ | 7.23◊ |
| – | 949 | 712 | 1.22 | 18XH | 5.013 | 22XH | 6.127 | – | 8.61◊ | 6.52◊ |
| 1422 | 943 | 707 | 1.23 | 26XH | 7.241 | 32XH | 8.913 | 17.17 | 12.13 | 9.29 |
| 1400 | 928 | 696 | 1.25 | 32XH | 8.913 | 40XH | 11.141 | 19.87 | 14.57 | 11.29 |
| 1400 | 928 | 696 | 1.25 | 24XH | 6.685 | 30XH | 8.356 | 16.14◊ | 11.29 | 8.61 |
| 1375 | 911 | 684 | 1.27 | 22XH | 6.127 | 28XH | 7.799 | 15.03◊ | 10.41◊ | 7.92 |
| 1346 | 892 | 669 | 1.30 | 20XH | 5.570 | 26XH | 7.241 | 13.85◊ | 9.51◊ | 7.23◊ |
| 1313 | 870 | 653 | 1.33 | 30XH | 8.356 | 40XH | 11.141 | 19.06 | 13.79 | 10.63 |
| 1313 | 870 | 653 | 1.33 | 24XH | 6.685 | 32XH | 8.913 | 16.14◊ | 11.29 | 8.61 |
| – | 870 | 653 | 1.33 | 18XH | 5.013 | 24XH | 6.685 | – | 8.61◊ | 6.52◊ |
| 1283 | 851 | 638 | 1.36 | 22XH | 6.127 | 30XH | 8.356 | 15.03◊ | 10.41◊ | 7.92 |
| 1250 | 829 | 621 | 1.40 | 20XH | 5.570 | 28XH | 7.799 | 13.85◊ | 9.51◊ | 7.23◊ |
| 1225 | 812 | 609 | 1.43 | 28XH | 7.799 | 40XH | 11.141 | 18.16 | 12.97 | 9.97 |
| – | 803 | 602 | 1.44 | 18XH | 5.013 | 26XH | 7.241 | – | 8.61◊ | 6.52◊ |
| 1203 | 798 | 598 | 1.45 | 22XH | 6.127 | 32XH | 8.913 | 15.03◊ | 10.41◊ | 7.92 |
| 1167 | 773 | 580 | 1.50 | 40XH | 11.141 | 60XH | 16.711 | 22.22 | 17.44 | 13.79 |
| 1167 | 773 | 580 | 1.50 | 32XH | 8.913 | 48XH | 13.369 | 19.87 | 14.57 | 11.29 |
| 1167 | 773 | 580 | 1.50 | 20XH | 5.570 | 30XH | 8.356 | 13.85◊ | 9.51◊ | 7.23◊ |
| 1138 | 754 | 566 | 1.54 | 26XH | 7.241 | 40XH | 11.141 | 17.17 | 12.13 | 9.29 |
| – | 746 | 559 | 1.56 | 18XH | 5.013 | 28XH | 7.799 | – | 8.61◊ | 6.52◊ |
| 1094 | 725 | 544 | 1.60 | 30XH | 8.356 | 48XH | 13.369 | 19.06 | 13.79 | 10.63◊ |
| 1094 | 725 | 544 | 1.60 | 20XH | 5.570 | 32XH | 8.913 | 13.85◊ | 9.51◊ | 7.23◊ |
| 1050 | 696 | 522 | 1.67 | 24XH | 6.685 | 40XH | 11.141 | 16.14◊ | 11.29 | 8.61 |
| – | 696 | 522 | 1.67 | 18XH | 5.013 | 30XH | 8.356 | – | 8.61◊ | 6.52◊ |
| 1021 | 677 | 508 | 1.71 | 28XH | 7.799 | 48XH | 13.369 | 18.16 | 12.97 | 9.97 |
| – | 653 | 489 | 1.78 | 18XH | 5.013 | 32XH | 8.913 | – | 8.61◊ | 6.52◊ |
| 972 | 644 | 483 | 1.80 | 40XH | 11.141 | 72XH | 20.054 | 22.22 | 17.44 | 13.79 |
| 963 | 638 | 479 | 1.82 | 22XH | 6.127 | 40XH | 11.141 | 15.03◊ | 10.41◊ | 7.92 |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

♥ Flanges Required on both pulleys.

# Selection

## XH Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 507XH | 560XH | 630XH | 700XH | 770XH | 840XH | 980XH | 1120XH | 1260XH | 1400XH | 1540XH | 1750XH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| – | – | 14.00 | 17.50 | 21.00 | 24.50 | 31.50 | 38.50 | 45.50 | 52.50 | 59.50 | 70.00 |
| 11.37 | 14.00 | 17.50 | 21.00 | 24.50 | 28.00 | 35.00 | 42.00 | 49.00 | 56.00 | 83.00 | 73.50 |
| 12.25 | 14.87 | 18.37 | 21.87 | 25.37 | 28.87 | 35.87 | 42.87 | 49.87 | 56.87 | 83.87 | 74.37 |
| 13.12 | 15.75 | 19.25 | 22.75 | 26.25 | 29.75 | 36.75 | 43.75 | 50.75 | 57.75 | 64.75 | 75.25 |
| 14.00 | 16.62 | 20.12 | 23.62 | 27.12 | 30.62 | 37.62 | 44.62 | 51.62 | 58.62 | 65.62 | 76.12 |
| 14.87 | 17.50 | 21.00 | 24.50 | 28.00 | 31.50 | 38.50 | 45.50 | 52.50 | 59.50 | 66.50 | 77.00 |
| 15.75 | 18.37 | 21.87 | 25.37 | 28.87 | 32.37 | 39.37 | 46.37 | 53.37 | 60.37 | 67.37 | 77.87 |
| 16.62 | 19.25 | 22.75 | 26.25 | 29.75 | 33.25 | 40.25 | 47.25 | 54.25 | 61:25 | 68.25 | 78.75 |
| 17.50 | 20.12 | 23.62 | 27.12 | 30.62 | 34.12 | 41.12 | 48.12 | 55.12 | 62.12 | 69.12 | 79.62 |
| 11.80 | 14.43 | 17.93 | 21.43 | 24.93 | 28.43 | 35.43 | 42.43 | 49.43 | 56.43 | 83.43 | 73.93 |
| 12.68 | 15.31 | 18.81 | 22.31 | 25.81 | 29.31 | 36.31 | 43.31 | 50.31 | 57.31 | 64.31 | 74.81 |
| 13.56 | 16.18 | 19.68 | 23.18 | 26.68 | 30.18 | 37.18 | 44.18 | 51.18 | 58.18 | 65.18 | 75.68 |
| 14.43 | 17.06 | 20.56 | 24.06 | 27.56 | 31.06 | 38.06 | 45.06 | 52.06 | 59.06 | 66.06 | 76.56 |
| 15.31 | 17.93 | 21.43 | 24.93 | 28.43 | 31.93 | 38.93 | 45.93 | 52.93 | 59.93 | 66.93 | 77.43 |
| 16.18 | 18.81 | 22.31 | 25.81 | 29.31 | 32.81 | 39.81 | 46.81 | 53.81 | 60.81 | 67.81 | 78.31 |
| 17.06 | 19.68 | 23.18 | 26.68 | 30.18 | 33.68 | 40.68 | 47.68 | 54.68 | 61.68 | 68.68 | 79.18 |
| 12.23 | 14.86 | 18.36 | 21.86 | 25.36 | 28.87 | 35.87 | 42.87 | 49.87 | 56.87 | 83.87 | 74.37 |
| 13.11 | 15.74 | 19.24 | 22.74 | 26.24 | 29.74 | 36.74 | 43.74 | 50.74 | 57.74 | 64.74 | 75.24 |
| 13.98 | 16.61 | 20.11 | 23.61 | 27.12 | 30.62 | 37.62 | 44.62 | 51.62 | 58.62 | 65.62 | 76.12 |
| 14.66 | 17.49 | 20.99 | 24.49 | 27.99 | 31.49 | 38.49 | 45.49 | 52.49 | 59.49 | 66.49 | 76.99 |
| – | – | – | 15.71 | 19.21 | 22.72 | 29.72 | 36.73 | 43.73 | 50.73 | 57.74 | 68.24 |
| 15.74 | 18.36 | 21.86 | 25.36 | 28.87 | 32.37 | 39.37 | 46.37 | 53.37 | 60.37 | 67.37 | 77.87 |
| 16.61 | 19.24 | 22.74 | 26.24 | 29.74 | 33.24 | 40.24 | 47.24 | 54.24 | 61.24 | 68.24 | 78.74 |
| 12.66 | 15.29 | 18.79 | 22.29 | 25.79 | 29.30 | 36.30 | 43.30 | 50.30 | 57.30 | 64.30 | 74.80 |
| – | 12.19 | 15.71 | 19.21 | 22.72 | 26.22 | 33.23 | 40.23 | 47.23 | 54.23 | 61.24 | 71.74 |
| 13.53 | 16.16 | 19.67 | 23.17 | 26.67 | 30.17 | 37.17 | 44.18 | 51.18 | 58.18 | 65.18 | 75.68 |
| 14.41 | 17.04 | 20.54 | 24.04 | 27.55 | 31.05 | 38.05 | 45.05 | 52.05 | 59.05 | 66.05 | 76.55 |
| 15.29 | 17.91 | 21.42 | 24.92 | 28.42 | 31.92 | 38.92 | 45.93 | 52.93 | 59.93 | 66.93 | 77.43 |
|  | 12.61 | 16.12 | 19.63 | 23.14 | 26.65 | 33.65 | 40.66 | 47.66 | 54.67 | 61.67 | 72.17 |
| 13.07 | 15.71 | 19.21 | 22.72 | 26.22 | 29.72 | 36.73 | 43.73 | 50.73 | 57.74 | 64.74 | 75.24 |
| 16.16 | 18.79 | 22.29 | 25.79 | 29.30 | 32.80 | 39.80 | 46.80 | 53.80 | 60.80 | 67.80 | 78.30 |
| 13.95 | 16.58 | 20.09 | 23.59 | 27.10 | 30.60 | 37.60 | 44.61 | 51.61 | 58.61 | 65.61 | 76.11 |
| 14.83 | 17.46 | 20.97 | 24.47 | 27.97 | 31.48 | 38.48 | 45.48 | 52.48 | 59.49 | 66.49 | 76.99 |
| 10.36 | 13.01 | 16.54 | 20.05 | 23.56 | 27.07 | 34.08 | 41.09 | 48.09 | 55.10 | 62.10 | 72.60 |
| 15.71 | 18.34 | 21.84 | 25.35 | 28.85 | 32.35 | 39.35 | 46.36 | 53.36 | 60.36 | 67.36 | 77.86 |
| 13.49 | 16.12 | 19.63 | 23.14 | 26.65 | 30.15 | 37.16 | 44.16 | 51.16 | 58.17 | 65.17 | 75.67 |
| – | – | – | – | 16.38 | 19.93 | 26.98 | 34.01 | 41.03 | 48.04 | 55.05 | 65.56 |
| – | – | 13.82 | 17.35 | 20.88 | 24.39 | 31.42 | 38.43 | 45.44 | 52.45 | 59.45 | 69.96 |
| 14.37 | 17.00 | 20.51 | 24.02 | 27.52 | 31.03 | 38.03 | 45.04 | 52.04 | 59.04 | 66.04 | 76.55 |
| 10.76 | 13.42 | 16.95 | 20.47 | 23.98 | 27.49 | 34.50 | 41.50 | 48.52 | 55.52 | 62.53 | 73.03 |
| 15.24 | 17.88 | 21.39 | 24.89 | 28.40 | 31.90 | 38.91 | 45.91 | 52.91 | 59.92 | 66.92 | 77.42 |
| – | – | 14.21 | 17.76 | 21.29 | 24.81 | 31.83 | 38.85 | 45.86 | 52.87 | 59.88 | 70.39♥ |
| 13.89 | 16.54 | 20.05 | 23.56 | 27.07 | 30.58 | 37.58 | 44.59 | 51.59 | 58.60 | 65.60 | 76.10 |
| 11.15 | 13.82 | 17.35 | 20.88 | 24.39 | 27.91 | 34.92 | 41.94 | 48.94 | 55.95 | 62.96 | 73.46 |
| 14.78 | 17.42 | 20.93 | 24.44 | 27.95 | 31.45 | 38.45 | 38.46 | 52.47 | 59.47 | 66.47 | 76.98 |
| – | 11.02 | 14.60 | 18.16 | 21.69 | 25.22 | 32.25 | 39.27 | 46.29 | 53.30 | 60.31 | 70.82♥ |
| 14.30 | 16.95 | 20.47 | 23.98 | 27.49 | 31.00 | 38.01 | 45.02 | 52.02 | 59.03 | 66.03 | 76.53 |
| – | – | – | – | – | 16.90 | 24.08 | 31.18 | 38.24 | 45.28 | 52.31 | 62.84 |
| 11.54 | 14.21 | 17.76 | 21.29 | 24.81 | 28.32 | 35.34 | 42.36 | 49.37 | 56.38 | 83.38 | 73.89 |

**XH Belt Width Table**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Belt Width Factor** | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 | 4.06 | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 | 11.70 | 13.10 | 14.41 | 15.84 | 17.16 | 18.62 |
| **Belt Width** | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 | 3-1/2 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| **Belt Width Code** | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 |

**Shaded area indicates stock belt widths**

# Selection

## XH Stock Drive Selections



| Driven Speeds for Motor Speeds of | | | Speed Ratio | Pulley Combination | | | | HP for a 1 Wide Belt for Motor Speeds of Δ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Driver | | Driven | | | | |
| 1750 | 1160 | 870 | | No. of Teeth | Pitch Diam. | No. of Teeth | Pitch Diam. | 1750 | 1160 | 870 |
| 948 | 628 | 471 | 1.85 | 26XH | 7.241 | 48XH | 13.369 | 17.17 | 12.13 | 9.29 |
| 933 | 618 | 464 | 1.88 | 32XH | 8.913 | 60XH | 16.711 | 19.87 | 14.57 | 11.29 |
| 875 | 580 | 435 | 2.00 | 30XH | 8.356 | 60XH | 16.711 | 19.06 | 13.79 | 10.63 |
| 875 | 580 | 435 | 2.00 | 24XH | 6.685 | 48XH | 13.369 | 16.14◊ | 11.29 | 8.61 |
| 875 | 580 | 435 | 2.00 | 20XH | 5.570 | 40XH | 11.141 | 13.85◊ | 9.51◊ | 7.23◊ |
| 833 | 552 | 414 | 2.10 | 40XH | 11.141 | 84XH | 23.396 | 22.22 | 17.44 | 13.79 |
| 817 | 541 | 407 | 2.14 | 28XH | 7.799 | 60XH | 16.711 | 18.16 | 12.97 | 9.97 |
| 802 | 531 | 399 | 2.18 | 22XH | 6.127 | 48XH | 13.369 | 15.03◊ | 10.41◊ | 7.92 |
| – | 523 | 392 | 2.22 | 18XH | 5.013 | 40XH | 11.141 | – | 8.61◊ | 6.52◊ |
| 778 | 516 | 387 | 2.25 | 32XH | 8.913 | 72XH | 20.054 | 19.87 | 14.57 | 11.29 |
| 758 | 502 | 377 | 2.31 | 26XH | 7.241 | 60XH | 16.711 | 17.17 | 12.13 | 9.29 |
| 729 | 483 | 363 | 2.40 | 40XH | 11.141 | 96XH | 26.738 | 22.22 | 17.44 | 13.79 |
| 729 | 483 | 363 | 2.40 | 30XH | 8.356 | 72XH | 20.054 | 19.06 | 13.79 | 10.63 |
| 729 | 483 | 363 | 2.40 | 20XH | 5.570 | 48XH | 13.369 | 13.85◊ | 9.51◊ | 7.23◊ |
| 700 | 464 | 348 | 2.50 | 24XH | 6.685 | 60XH | 16.711 | 16.14◊ | 11.29 | 8.61 |
| 681 | 451 | 339 | 2.57 | 28XH | 7.799 | 72XH | 20.054 | 18.16 | 12.97 | 9.97 |
| 667 | 442 | 331 | 2.63 | 32XH | 8.913 | 84XH | 23.396 | 19.87 | 14.57 | 11.29 |
| – | 434 | 326 | 2.67 | 18XH | 5.013 | 48XH | 13.369 | – | 8.61◊ | 6.52◊ |
| 642 | 425 | 319 | 2.73 | 22XH | 6.127 | 60XH | 16.711 | 15.03◊ | 10.41◊ | 7.92 |
| 632 | 419 | 314 | 2.77 | 26XH | 7.241 | 72XH | 20.054 | 17.17 | 12.13 | 9.29 |
| 625 | 414 | 311 | 2.80 | 30XH | 8.356 | 84XH | 23.396 | 19.06 | 13.79 | 10.63 |
| 583 | 387 | 290 | 3.00 | 40XH | 11.141 | 120XH | 33.423 | 22.22 | 17.44 | 13.79 |
| 583 | 387 | 290 | 3.00 | 32XH | 8.913 | 96XH | 26.738 | 19.87 | 14.57 | 11.29 |
| 583 | 387 | 290 | 3.00 | 28XH | 7.799 | 84XH | 23.396 | 18.16 | 12.97 | 9.97 |
| 583 | 387 | 290 | 3.00 | 24XH | 6.685 | 72XH | 20.054 | 16.14◊ | 11.29 | 8.61 |
| 583 | 387 | 290 | 3.00 | 20XH | 5.570 | 60XH | 16.711 | 13.85◊ | 9.51◊ | 7.23◊ |
| 547 | 363 | 272 | 3.20 | 30XH | 8.356 | 96XH | 26.738 | 19.06 | 13.79 | 10.63 |
| 542 | 359 | 269 | 3.23 | 26XH | 7.241 | 84XH | 23.396 | 17.17 | 12.13 | 9.29 |
| 535 | 355 | 266 | 3.27 | 22XH | 6.127 | 72XH | 20.054 | 15.03◊ | 10.41◊ | 7.92 |
| – | 348 | 261 | 3.33 | 18XH | 5.013 | 60XH | 16.711 | – | 8.61◊ | 6.52◊ |
| 510 | 338 | 254 | 3.43 | 28XH | 7.799 | 96XH | 26.738 | 18.16 | 12.97 | 9.97 |
| 500 | 331 | 249 | 3.50 | 24XH | 6.685 | 84XH | 23.396 | 16.14◊ | 11.29 | 8.61 |
| 486 | 322 | 242 | 3.60 | 20XH | 5.570 | 72XH | 20.054 | 13.85◊ | 9.51◊ | 7.23◊ |
| 474 | 314 | 236 | 3.69 | 26XH | 7.241 | 96XH | 26.738 | 17.17 | 12.13 | 9.29 |
| 467 | 309 | 232 | 3.75 | 32XH | 8.913 | 120XH | 33.423 | 19.87 | 14.57 | 11.29 |
| 458 | 304 | 228 | 3.82 | 22XH | 6.127 | 84XH | 23.396 | 15.03◊ | 10.41 | 7.92 |
| 438 | 290 | 218 | 4.00 | 30XH | 8.356 | 120XH | 33.423 | 19.06 | 13.79◊ | 10.63 |
| 438 | 290 | 218 | 4.00 | 24XH | 6.685 | 98XH | 26.738 | 16.14◊ | 11.29 | 8.61 |
| – | 290 | 218 | 4.00 | 18XH | 5.013 | 72XH | 20.054 | – | 8.61◊ | 6.52◊ |
| 416 | 276 | 207 | 4.20 | 20XH | 5.570 | 84XH | 23.396 | 13.85◊ | 9.51◊ | 7.23◊ |
| 408 | 270 | 203 | 4.29 | 28XH | 7.799 | 120XH | 33.423 | 18.16 | 12.97 | 9.97 |
| 401 | 266 | 200 | 4.36 | 22XH | 6.127 | 96XH | 26.738 | 15.03◊ | 10.41◊ | 7.92 |
| 379 | 251 | 188 | 4.62 | 26XH | 7.241 | 120XH | 33.423 | 17.17 | 12.13 | 9.29 |
| – | 249 | 186 | 4.67 | 18XH | 5.013 | 84XH | 23.396 | – | 8.61◊ | 6.52◊ |
| 365 | 242 | 181 | 4.80 | 20XH | 5.570 | 96XH | 26.738 | 13.85◊ | 9.51◊ | 7.23◊ |
| 350 | 232 | 174 | 5.00 | 24XH | 6.685 | 120XH | 33.423 | 16.14◊ | 11.29 | 8.61 |
| – | 217 | 162 | 5.33 | 18XH | 5.013 | 96XH | 26.738 | – | 8.61◊ | 6.52◊ |
| 321 | 212 | 159 | 5.45 | 22XH | 6.127 | 120XH | 33.423 | 15.03 | 10.41◊ | 7.92 |
| 292 | 193 | 145 | 6.00 | 20XH | 5.570 | 120XH | 33.423 | 13.85◊ | 9.51◊ | 7.23◊ |
| – | 174 | 130 | 6.67 | 18XH | 5.013 | 120XH | 33.423 | – | 8.61◊ | 6.52◊ |

Δ HP ratings are for conventional speed-reduction drives.
For Speed-Up Drives refer to page PT3-146.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† ‡ See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

# Selection

## XH Stock Drive Selections

**Nominal Center Distance Using DYNA-SYNC Belts**

| 507XH | 560XH | 630XH | 700XH | 770XH | 840XH | 980XH | 1120XH | 1260XH | 1400XH | 1540XH | 1750XH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| – | 11.39 | 14.99 | 18.55 | 22.10 | 25.63 | 32.66 | 39.69 | 46.71 | 53.72 | 60.73 | 71.24 |
| – | – | – | 14.34 | 17.95 | 21.52 | 28.60 | 35.66 | 42.69 | 49.72 | 56.74 | 67.26 |
| – | – | – | 14.71 | 18.33 | 21.91 | 29.01 | 36.07 | 43.11 | 50.13 | 57.15 | 67.68♥ |
| – | 11.77 | 15.38 | 18.95 | 22.50 | 26.03 | 33.08 | 40.11 | 47.13 | 54.14♥ | 61.15♥ | 71.67♥ |
| 11.92 | 14.60 | 18.16 | 21.69 | 25.22 | 28.74 | 35.76 | 42.78 | 49.79 | 56.80 | 63.81 | 74.32 |
| – | – | – | – | – | – | 20.97 | 28.20 | 35.34 | 42.43 | 49.49 | 60.06 |
| – | – | – | 15.08 | 18.71 | 22.30 | 29.41 | 36.47 | 43.52 | 50.55 | 57.57 | 68.10♥ |
| – | 12.14 | 15.77 | 19.34 | 22.90 | 26.43 | 33.49 | 40.52 | 47.54 | 54.56♥ | 61.58♥ | 72.09♥ |
| 12.30 | 14.99 | 18.55 | 22.10 | 25.83 | 29.15 | 36.18 | 43.20 | 50.21 | 57.23 | 64.24 | 74.75 |
| – | – | – | – | – | 18.40 | 25.64 | 32.77 | 39.86 | 46.91 | 53.96 | 64.50 |
| – | – | – | 15.45 | 19.09 | 22.69 | 29.81 | 36.88 | 43.93 | 50.96 | 57.99♥ | 68.52♥ |
| – | – | – | – | – | – | – | 25.02 | 32.30 | 39.47 | 46.59 | 57.21 |
| – | – | – | – | 15.03 | 18.76 | 26.02 | 33.17 | 40.26 | 47.32 | 54.37 | 64.92 |
| – | 12.51 | 16.15 | 19.73 | 23.29 | 26.84 | 33.90 | 40.94 | 47.96♥ | 54.98♥ | 62.00♥ | 72.52♥ |
| – | – | – | 15.82 | 19.47 | 23.07 | 30.20 | 37.28 | 44.34 | 51.38 | 58.41♥ | 68.94♥ |
| – | – | – | – | 15.38 | 19.13 | 26.41 | 33.56 | 40.66 | 47.73 | 54.78 | 65.33♥ |
| – | – | – | – | – | – | 22.44 | 29.73 | 36.91 | 44.02 | 51.11 | 61.70 |
| 10.05 | 12.87 | 16.53 | 20.12 | 23.69 | 27.24 | 34.30 | 41.35♥ | 48.38♥ | 55.40♥ | 62.42♥ | 72.94♥ |
| – | – | 12.41 | 16.19 | 19.85 | 23.46 | 30.60 | 37.69 | 44.74 | 51.79♥ | 58.82♥ | 69.36♥ |
| – | – | – | – | 15.74 | 19.50 | 26.79 | 33.95 | 41.06 | 48.13 | 55.19 | 65.75♥ |
| – | – | – | – | – | – | 22.81 | 30.11 | 37.30 | 44.42 | 51.51 | 62.10 |
| – | – | – | – | – | – | – | – | 25.52 | 33.10 | 40.45 | 51.28 |
| – | – | – | – | – | – | 18.85 | 26.48 | 33.81 | 41.02 | 48.17 | 58.82 |
| – | – | – | – | – | – | 23.17 | 30.49 | 37.69 | 44.82 | 51.91 | 62.51♥ |
| – | – | – | – | 16.09 | 19.86 | 27.17 | 34.34 | 41.46 | 48.53 | 55.59♥ | 66.16♥ |
| – | – | 12.76 | 16.55 | 20.22 | 23.84 | 30.99 | 38.09 | 45.15♥ | 52.20♥ | 59.23♥ | 69.77♥ |
| – | – | – | – | – | – | 19.19 | 26.84 | 34.19 | 41.41 | 48.56 | 59.22 |
| – | – | – | – | – | 15.82 | 27.55 | 34.73 | 38.07 | 48.94 | 52.31 | 62.91♥ |
| – | – | – | – | 16.44 | 20.22 | 23.53 | 30.87 | 41.85 | 45.21 | 56.00♥ | 66.57♥ |
| – | – | 13.11 | 16.91 | 20.60 | 24.22 | 31.39 | 38.49 | 45.56♥ | 52.61♥ | 59.65♥ | 70.19♥ |
| – | – | – | – | – | – | 19.53 | 27.21 | 34.57 | 41.79 | 48.95 | 59.62 |
| – | – | – | – | – | 16.16 | 23.89 | 31.25 | 38.46 | 45.60 | 52.71 | 63.32♥ |
| – | – | – | – | 16.78 | 20.58 | 27.93 | 35.12 | 42.25 | 49.34♥ | 56.41♥ | 66.98♥ |
| – | – | – | – | – | – | 19.87 | 27.57 | 34.94 | 42.18 | 49.34 | 60.01♥ |
| – | – | – | – | – | – | – | – | 26.90 | 34.55 | 41.94 | 52.82 |
| – | – | – | – | – | 16.49 | 24.25 | 31.62 | 38.84 | 46.00 | 53.10♥ | 63.72♥ |
| – | – | – | – | – | – | – | – | 27.25 | 34.91 | 42.31 | 53.20 |
| – | – | – | – | – | – | 20.20 | 27.93 | 35.31 | 42.56 | 49.73 | 60.41♥ |
| – | – | – | 13.08† | 17.13 | 20.94 | 28.30 | 35.51 | 42.64♥ | 49.74♥ | 56.81♥ | 67.39♥ |
| – | – | – | – | – | 16.83 | 24.61 | 32.00 | 39.23 | 46.39♥ | 53.50♥ | 64.13♥ |
| – | – | – | – | – | – | – | – | 27.59 | 35.27 | 42.68 | 53.58 |
| – | – | – | – | – | – | 20.54 | 28.28 | 35.69 | 42.94 | 50.12♥ | 60.81♥ |
| – | – | – | – | – | – | – | – | 27.93 | 35.83 | 43.05 | 53.96 |
| – | – | – | – | – | 17.16† | 24.97 | 32.37 | 39.61 | 46.78♥ | 53.90♥ | 64.53♥ |
| – | – | – | – | – | – | 20.88 | 28.64 | 36.06 | 43.32 | 50.51♥ | 81.20♥ |
| – | – | – | – | – | – | – | – | 28.27 | 35.98 | 43.42 | 54.34♥ |
| – | – | – | – | – | – | 21.21 | 29.00 | 36.43 | 43.70♥ | 50.89♥ | 61.60♥ |
| – | – | – | – | – | – | – | – | 28.61 | 36.34 | 43.79 | 54.72♥ |
| – | – | – | – | – | – | – | 20.40† | 28.95 | 36.69 | 44.16 | 55.10♥ |
| – | – | – | – | – | – | – | 20.71‡ | 29.29 | 37.05 | 44.52♥ | 55.48♥ |

**XH Belt Width Table**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Belt Width Factor** | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 | 4.06 | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 | 11.70 | 13.10 | 14.41 | 15.84 | 17.16 | 18.62 |
| **Belt Width** | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 | 3-1/2 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| **Belt Width Code** | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 |

**Teeth in Mesh factor (T.I.M)**

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| None | 6 or More | 1.00 |
| † | 5 | .80 |

Shaded area indicates stock belt widths.

| Table Symbol | No. of Teeth In Mesh In Small Pulley | Factor |
|---|---|---|
| ‡ | 4 | .60 |

# Selection

## XL Stock Drive Selections

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10XL .637 P.D. | 11XL .700 P.D. | 12XL .764 P.D. | 14XL .891 P.D. | 15XL .955 P.D. | 16XL 1.019 P.D. | 18XL 1.146 P.D. | 20XL 1.273 P.D. | 21XL 1.337 P.D. | 22XL 1.401 P.D. | 24XL 1.528 P.D. | 28XL 1.783 P.D. | 30XL 1.910 P.D. |
| 100 | .02 | .02 | .02 | .03 | .03 | .03 | .04 | .04 | .04 | .04 | .05 | .06 | .06 |
| 200 | .04 | .04 | .05 | .06 | .06 | .07 | .07 | .08 | .08 | .09 | .10 | .11 | .12 |
| 300 | .06 | .07 | .07 | .09 | .09 | .10 | .11 | .12 | .13 | .13 | .14 | .17 | .18 |
| 400 | .08 | .09 | .10 | .11 | .12 | .13 | .14 | .16 | .17 | .17 | .19 | .23 | .24 |
| 500 | .10 | .11 | .12 | .14 | .15 | .16 | .18 | .20 | .21 | .22 | .24 | .29 | .30 |
| 600 | .12 | .13 | .14 | .17 | .18 | .19 | .22 | .24 | .26 | .27 | .29 | .34 | .37 |
| 700 | .14 | .15 | .17 | .20 | .21 | .23 | .26 | .28 | .30 | .31 | .34 | .40 | .43 |
| 800 | .16 | .17 | .19 | .23 | .24 | .26 | .30 | .33 | .34 | .36 | .40 | .48 | .49 |
| 900 | .18 | .20 | .22 | .26 | .27 | .30 | .33 | .37 | .39 | .40 | .44 | .51 | .55 |
| 1000 | .20 | .22 | .24 | .29 | .31 | .33 | .37 | .41 | .43 | .45 | .49 | .57 | .62 |
| 1100 | .22 | .25 | .26 | .31 | .34 | .36 | .40 | .45 | .47 | .49 | .54 | .63 | .68 |
| 1160 | .23 | .26 | .28 | .33 | .36 | .38 | .42 | .46 | .50 | .52 | .56 | .66 | .71 |
| 1200 | .24◊ | .27 | .29 | .34 | .37 | .39 | .44 | .49 | .52 | .54 | .59 | .68 | .74 |
| 1300 | .26◊ | .29 | .31 | .37 | .40 | .42 | .48 | .53 | .56 | .58 | .64 | .74 | .80 |
| 1400 | .28◊ | .31 | .34 | .40 | .43 | .46 | .52 | .57 | .60 | .63 | .69 | .80 | .86 |
| 1500 | .30◊ | .34 | .36 | .43 | .46 | .49 | .55 | .61 | .64 | .67 | .74 | .86 | .92 |
| 1600 | .33◊ | .36 | .40 | .46 | .49 | .53 | .59 | .65 | .69 | .72 | .79 | .91 | .98 |
| 1700 | .35◊ | .38 | .42 | .49 | .52 | .56 | .63 | .67 | .73 | .77 | .83 | .97 | 1.04 |
| 1750 | .36◊ | .39 | .43 | .50 | .53 | .58 | .64 | .72 | .75 | .79 | .86 | 1.00 | 1.07 |
| 1800 | .37◊ | .40◊ | .44 | .51 | .55 | .59 | .66 | .74 | .77 | .81 | .88 | 1.03 | 1.10 |
| 2000 | .41◊ | .45◊ | .49 | .57 | .62 | .65 | .74 | .82 | .86 | .90 | .98 | 1.15 | 1.23 |
| 2200 | .45◊ | .49◊ | .54 | .63 | .68 | .72 | .81 | .90 | .94 | .99 | 1.08 | 1.25 | 1.34 |
| 2400 | .49◊ | .54◊ | .59 | .68 | .74 | .79 | .88 | .98 | 1.03 | 1.07 | 1.18 | 1.37 | 1.46 |
| 2600 | .53◊ | .58◊ | .64 | .74 | .80 | .85 | .96 | 1.06 | 1.12 | 1.17 | 1.25 | 1.48 | 1.58 |
| 2800 | .57◊ | .63◊ | .69 | .80 | .86 | .92 | 1.03 | 1.15 | 1.20 | 1.26 | 1.37 | 1.59 | 1.71 |
| 3000 | .61◊ | .67◊ | .74 | .86 | .92 | .98 | 1.10 | 1.23 | 1.28 | 1.34 | 1.46 | 1.71 | 1.82 |
| 3200 | .65◊ | .72◊ | .79 | .91 | .98 | 1.05 | 1.18 | 1.30 | 1.37 | 1.43 | 1.56 | 1.81 | 1.94 |
| 3400 | .69◊ | .77◊ | .83 | .97 | 1.04 | 1.11 | 1.25 | 1.38 | 1.45 | 1.52 | 1.66 | 1.92 | 2.05 |
| 3500 | .72◊ | .79◊ | .86 | 1.00 | 1.07 | 1.15 | 1.28 | 1.42 | 1.49 | 1.57 | 1.71 | 1.98 | 2.11 |
| 3600 | .74◊ | .81◊ | .88◊ | 1.03 | 1.10 | 1.18 | 1.32 | 1.46 | 1.54 | 1.61 | 1.75 | 2.03 | 2.16 |
| 3800 | .78◊ | .83◊ | .93◊ | 1.09 | 1.17 | 1.24 | 1.39 | 1.54 | 1.62 | 1.70 | 1.84 | 2.13 | 2.27 |
| 4000 | .82◊ | .90◊ | .98◊ | 1.15 | 1.23 | 1.30 | 1.46 | 1.63 | 1.71 | 1.78 | 1.94 | 2.24 | 2.39 |
| 4200 | .86◊ | .94◊ | 1.03◊ | 1.20 | 1.28 | 1.37 | 1.53 | 1.71 | 1.76 | 1.86 | 2.03 | 2.35 | 2.50 |
| 4400 | .90◊ | .99◊ | 1.08◊ | 1.25◊ | 1.34 | 1.43 | 1.61 | 1.78 | 1.86 | 1.95 | 2.12 | 2.45 | 2.61 |
| 4600 | .94◊ | 1.03◊ | 1.13◊ | 1.31◊ | 1.40 | 1.50 | 1.68 | 1.66 | 1.95 | 2.04 | 2.21 | 2.55 | 2.71 |
| 4800 | .98◊ | 1.07◊ | 1.18◊ | 1.37◊ | 1.46 | 1.56 | 1.75 | 1.94 | 2.03 | 2.13 | 2.30 | 2.65 | 2.82 |
| 5000 | 1.02◊ | 1.12◊ | 1.23◊ | 1.42◊ | 1.52 | 1.63 | 1.82 | 2.01 | 2.11 | 2.20 | 2.39 | 2.75 | 2.92 |
| 5500 | – | – | – | – | 1.67◊ | 1.78 | 2.00 | 2.20 | 2.30 | 2.41 | 2.61 | 2.99 | 3.18 |
| 6000 | – | – | – | – | 1.82◊ | 1.94 | 2.16 | 2.39 | 2.50 | 2.61 | 2.82 | 3.23 | 3.41 |
| 6500 | – | – | – | – | 1.96◊ | 2.09 | 2.34 | 2.57 | 2.69 | 2.80 | 3.03 | 3.42 | 3.64 |
| 7000 | – | – | – | – | 2.11◊ | 2.24◊ | 2.50 | 2.75 | 2.87 | 2.99 | 3.23 | 3.65 | 3.84 |
| 7500 | – | – | – | – | 2.25◊ | 2.39◊ | 2.66 | 2.92 | 3.05 | 3.18 | 3.41 | 3.84 | 4.03 |
| 8000 | – | – | – | – | – | – | 2.82◊ | 3.10 | 3.23 | 3.34 | 3.59 | 4.02 | 4.21 |
| 8500 | – | – | – | – | – | – | 2.97◊ | 3.26 | 3.39 | 3.52 | 3.76 | 4.19 | 4.37 |
| 9000 | – | – | – | – | – | – | 3.13◊ | 3.41◊ | 3.55 | 3.68 | 3.92 | 4.34 | 4.51 |
| 9500 | – | – | – | – | – | – | 3.28◊ | 3.56◊ | 3.70 | 3.83 | 4.07 | 4.47 | 4.63 |
| 10000 | – | – | – | – | – | – | 3.41◊ | 3.71◊ | 3.84 | 3.97 | 4.21 | 4.59 | 4.72 |

### XL Belt Width Table

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Belt Width Factor** | .15 | .28 | .35 | .42 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 |
| **Belt Width** | 1/4 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 |
| **Belt Width Code** | 025 | 037 | 043 | 050 | 062 | 075 | 087 | 100 | 125 | 150 |

**Shaded area indicates stock belt widths.**

◊ Pulley diameter is below recommended minimum.
A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

# Selection

## L Stock Drive Selections

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10L 1.194 P.D. | 12L 1.432 P.D. | 13L Δ 1552 P.D. | 14L 1.671 P.D. | 15L Δ 1.790 P.D. | 16L 1.910 P.D. | 17L 2.029 P.D. | 18L 2.149 P.D. | 19L 2.268 P.D. | 20L 2.387 P.D. | 21L 2.507 P.D. | 22L 2.626 P.D. | 24L 2.865 P.D. | 26L 3.104 P.D. | 28L 3.342 P.D. | 30L 3.581 P.D. | 32L 3.820 P.D. | 40L 4.775 P.D. | 48L 5.730 P.D. |
| 100 | .05◊ | .06 | .07 | .07 | .08 | .08 | .09 | .09 | .10 | .10 | .11 | .12 | .13 | .14 | .15 | .16 | .17 | .21 | .25 |
| 200 | .10◊ | .13 | .14 | .15 | .16 | .17 | .18 | .19 | .20 | .21 | .22 | .23 | .25 | .27 | .29 | .31 | .33 | .42 | .50 |
| 300 | .16◊ | .19 | .20 | .22 | .23 | .25 | .27 | .28 | .30 | .31 | .33 | .34 | .38 | .41 | .44 | .47 | .50 | .63 | .75 |
| 400 | .21◊ | .25 | .27 | .29 | .31 | .33 | .35 | .38 | .40 | .42 | .44 | .46 | .50 | .54 | .58 | .62 | .67 | .83 | 1.00 |
| 500 | .26◊ | .31 | .34 | .37 | .39 | .42 | .44 | .47 | .50 | .52 | .55 | .57 | .63 | .68 | .73 | .78 | .83 | 1.04 | 1.24 |
| 600 | .31◊ | .37 | .41 | .44 | .47 | .50 | .53 | .56 | .59 | .63 | .66 | .69 | .75 | .81 | .87 | .94 | 1.00 | 1.24 | 1.49 |
| 700 | .37◊ | .44 | .47 | .51 | .55 | .58 | .62 | .66 | .69 | .73 | .77 | .80 | .87 | .95 | 1.02 | 1.09 | 1.16 | 1.45 | 1.73 |
| 800 | .42◊ | .50 | .54 | .58 | .62 | .67 | .71 | .75 | .79 | .83 | .87 | .92 | 1.00 | 1.08 | 1.16 | 1.24 | 1.32 | 1.85 | 1.97 |
| 870 | .45◊ | .54 | .59 | .63 | .68 | .73 | .77 | .82 | .86 | .91 | .95 | 1.00 | 1.08 | 1.17 | 1.26 | 1.35 | 1.44 | 1.79 | 2.14 |
| 900 | .47◊ | .56 | .61 | .66 | .70 | .75 | .80 | .84 | .89 | .94 | .98 | 1.03 | 1.12 | 1.21 | 1.30 | 1.40 | 1.49 | 1.65 | 2.21 |
| 1000 | .52◊ | .62 | .88 | .73 | .78 | .83 | .89 | .94 | .99 | 1.04 | 1.09 | 1.14 | 1.24 | 1.34 | 1.45 | 1.55 | 1.65 | 2.05 | 2.44 |
| 1100 | .57◊ | .69 | .75 | .80 | .86 | .92 | .97 | 1.03 | 1.08 | 1.14 | 1.20 | 1.25 | 1.36 | 1.48 | 1.59 | 1.70 | 1.81 | 2.25 | 2.67 |
| 1160 | .60◊ | .72 | .79 | .85 | .91 | .97 | 1.03 | 1.08 | 1.14 | 1.20 | 1.26 | 1.32 | 1.44 | 1.56 | 1.67 | 1.79 | 1.91 | 2.36 | 2.81 |
| 1200 | .63◊ | .75◊ | .81 | .88 | .94 | 1.00 | 1.06 | 1.12 | 1.18 | 1.24 | 1.30 | 1.36 | 1.49 | 1.61 | 1.73 | 1.85 | 1.97 | 2.44 | 2.90 |
| 1300 | .68◊ | .81◊ | .68 | .95 | 1.01 | 1.08 | 1.15 | 1.21 | 1.28 | 1.34 | 1.41 | 1.48 | 1.61 | 1.74 | 1.87 | 2.00 | 2.13 | 2.63 | 3.12 |
| 1400 | .73◊ | .87◊ | .95 | 1.02 | 1.09 | 1.16 | 1.23 | 1.30 | 1.38 | 1.45 | 1.52 | 1.59 | 1.73 | 1.87 | 2.01 | 2.15 | 2.29 | 2.82 | 3.34 |
| 1500 | .78◊ | .94◊ | 1.02◊ | 1.09 | 1.16 | 1.24 | 1.32 | 1.40 | 1.47 | 1.55 | 1.62 | 1.70 | 1.85 | 2.00 | 2.15 | 2.30 | 2.44 | 3.01 | 3.55 |
| 1600 | .83◊ | 1.00◊ | 1.08◊ | 1.16 | 1.24 | 1.32 | 1.41 | 1.49 | 1.57 | 1.65 | 1.73 | 1.81 | 1.97 | 2.13 | 2.28 | 2.44 | 2.60 | 3.20 | 3.76 |
| 1700 | .89◊ | 1.06◊ | 1.15◊ | 1.23 | 1.32 | 1.41 | 1.49 | 1.58 | 1.66 | 1.75 | 1.83 | 1.92 | 2.09 | 2.26 | 2.42 | 2.59 | 2.75 | 3.38 | 3.97 |
| 1750 | .91◊ | 1.09◊ | 1.17◊ | 1.27 | 1.36 | 1.45 | 1.54 | 1.62 | 1.71 | 1.80 | 1.89 | 1.98 | 2.15 | 2.32 | 2.49 | 2.66 | 2.83 | 3.47 | 4.06 |
| 1800 | – | 1.12◊ | 1.21◊ | 1.30◊ | 1.39 | 1.49 | 1.58 | 1.67 | 1.76 | 1.85 | 1.94 | 2.03 | 2.21 | 2.38 | 2.56 | 2.73 | 2.90 | 3.55 | 4.16 |
| 1900 | – | 1.18◊ | 1.27◊ | 1.38◊ | 1.47 | 1.57 | 1.66 | 1.76 | 1.85 | 1.95 | 2.04 | 2.14 | 2.32 | 2.51 | 2.69 | 2.87 | 3.05 | 3.73 | 4.35 |
| 2000 | – | 1.24◊ | 1.35◊ | 1.45◊ | 1.55 | 1.65 | 1.75 | 1.85 | 1.95 | 2.05 | 2.15 | 2.25 | 2.44 | 2.63 | 2.82 | 3.01 | 3.19 | 3.89 | 4.54 |
| 2200 | – | 1.36◊ | 1.48◊ | 1.59◊ | 1.70 | 1.81 | 1.92 | 2.03 | 2.14 | 2.25 | 2.35 | 2.46 | 2.67 | 2.88 | 3.08 | 3.28 | 3.49 | 4.23 | 4.89 |
| 2400 | – | 1.49◊ | 1.61◊ | 1.73◊ | 1.85 | 1.97 | 2.09 | 2.21 | 2.32 | 2.44 | 2.56 | 2.67 | 2.90 | 3.12 | 3.34 | 3.56 | 3.76 | 4.54 | 5.21 |
| 2500 | – | 1.55◊ | 1.68◊ | 1.80◊ | 1.92◊ | 2.05 | 2.17 | 2.30 | 2.42 | 2.54 | 2.66 | 2.78 | 3.01 | 3.24 | 3.47 | 3.68 | 3.90 | 4.69 | 5.35 |
| 2600 | – | 1.61◊ | 1.74◊ | 1.87◊ | 2.00◊ | 2.13 | 2.26 | 2.38 | 2.51 | 2.63 | 2.76 | 2.88 | 3.12 | 3.36 | 3.59 | 3.81 | 4.03 | 4.83 | 5.48 |
| 2800 | – | 1.73◊ | 1.87◊ | 2.01◊ | 2.14◊ | 2.29 | 2.42 | 2.56 | 2.69 | 2.82 | 2.96 | 3.09 | 3.34 | 3.59 | 3.83 | 4.06 | 4.29 | 5.10 | 5.73 |
| 3000 | – | 1.85◊ | 2.00◊ | 2.15◊ | 2.29◊ | 2.44 | 2.59 | 2.73 | 2.87 | 3.01 | 3.15 | 3.29 | 3.55 | 3.81 | 4.06 | 4.30 | 4.54 | 5.35 | 5.94 |
| 3200 | – | – | 2.13◊ | 2.28◊ | 2.44◊ | 2.60 | 2.74 | 2.90 | 3.04 | 3.19 | 3.34 | 3.48 | 3.76 | 4.03 | 4.29 | 4.54 | 4.77 | 5.57 | 6.11 |
| 3400 | – | – | 2.26◊ | 2.42◊ | 2.58◊ | 2.75 | 2.91 | 3.07 | 3.22 | 3.37 | 3.53 | 3.67 | 3.97 | 4.24 | 4.50 | 4.76 | 4.99 | 5.78 | 6.23 |
| 3500 | – | – | 2.32◊ | 2.49◊ | 2.65◊ | 2.83 | 2.99 | 3.15 | 3.31 | 3.46 | 3.62 | 3.77 | 4.06 | 4.35 | 4.61 | 4.86 | 5.10 | 5.87 | 6.27 |
| 3600 | – | – | – | 2.55◊ | 2.73◊ | 2.90◊ | 3.07◊ | 3.23 | 3.39 | 3.55 | 3.71 | 3.86 | 4.16 | 4.45 | 4.72 | 4.97 | 5.21 | 5.95 | 6.31 |
| 3800 | – | – | – | 2.69◊ | 2.86◊ | 3.03◊ | 3.22◊ | 3.40 | 3.56 | 3.73 | 3.89 | 4.05 | 4.35 | 4.64 | 4.91 | 5.16 | 5.40 | 6.09 | 6.33 |
| 4000 | – | – | – | 2.83◊ | 3.00◊ | 3.20◊ | 3.37◊ | 3.56 | 3.73 | 3.89 | 4.06 | 4.23 | 4.54 | 4.83 | 5.10 | 5.34 | 5.57 | 6.21 | 6.31 |
| 4200 | – | – | – | – | 3.15◊ | 3.34◊ | 3.53◊ | 3.72 | 3.88 | 4.06 | 4.23 | 4.40 | 4.72 | 5.01 | 5.28 | 5.52 | 5.74 | 6.28 | 6.23 |
| 4400 | – | – | – | – | 3.28◊ | 3.49◊ | 3.67◊ | 3.86 | 4.04 | 4.22 | 4.40 | 4.57 | 4.89 | 5.19 | 5.44 | 5.68 | 5.88 | 6.33 | 6.09† |
| 4600 | – | – | – | – | 3.41◊ | 3.63◊ | 3.82◊ | 4.01 | 4.20 | 4.38 | 4.56 | 4.73 | 5.05 | 5.34 | 5.59 | 5.82 | 6.01 | 6.35 | 5.89† |
| 4800 | – | – | – | – | 3.54◊ | 3.77◊ | 3.96◊ | 4.17 | 4.35 | 4.54 | 4.72 | 4.89 | 5.20 | 5.48 | 5.73 | 5.94 | 6.12 | 6.32 | 5.63† |
| 5000 | – | – | – | – | 3.67◊ | 3.91◊ | 4.10◊ | 4.31◊ | 4.50◊ | 4.68 | 4.86 | 5.04 | 5.35 | 5.63 | 5.86 | 6.06 | 6.20 | 6.26 | 5.30† |
| 5200 | – | – | – | – | 3.81◊ | 4.03◊ | 4.23◊ | 4.45◊ | 4.63◊ | 4.82 | 5.01 | 5.18 | 5.48 | 5.76 | 5.98 | 6.15 | 6.27 | 6.16† | 4.91† |
| 5400 | – | – | – | – | 3.93◊ | 4.17◊ | 4.37◊ | 4.59◊ | 4.77◊ | 4.96 | 5.14 | 5.31 | 5.61 | 5.88 | 6.07 | 6.23 | 6.32 | 6.01† | 4.44† |
| 5600 | – | – | – | – | 4.05◊ | 4.29◊ | 4.50◊ | 4.72◊ | 4.91◊ | 5.09 | 5.28 | 5.44 | 5.73 | 5.98 | 6.16 | 6.28 | 6.34 | 5.83† | 3.89† |
| 5800 | – | – | – | – | 4.17◊ | 4.42◊ | 4.62◊ | 4.84◊ | 5.04◊ | 5.22 | 5.40 | 5.57 | 5.84 | 6.07 | 6.23 | 6.32 | 6.34 | 5.60† | 3.27† |
| 6000 | – | – | – | – | 4.29◊ | 4.5◊ | 4.75◊ | 4.97◊ | 5.15◊ | 5.34 | 5.52 | 5.68 | 5.93 | 6.15 | 6.28 | 6.35 | 6.33 | 5.32† | 2.57† |

### L Belt Width Table

| Belt Width Factor | .28 | .35 | .45 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 |
| Belt Width Code | 037 | 043 | 050 | 062 | 075 | 087 | 100 | 125 | 150 | 175 | 200 | 250 | 300 |

**Shaded area indicates stock belt widths.**

Δ Special non-stock sizes.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◊ Pulley diameter is below recommended minimum.
A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

# Selection

## H Stock Drive Selections

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 14H 2.228 P.D. | 16H 2.546 P.D. | 17H 2.706 P.D. | 18H 2.865 P.D. | 19H 3.024 P.D. | 20H 3.183 P.D. | 21H 3.342 P.D. | 22H 3.501 P.D. | 24H 3.820 P.D. | 26H 4.138 P.D. | 28H 4.456 P.D. | 30H 4.775 P.D. | 32H 5.039 P.D. | 36H Δ 5.730 P.D. | 40H 6.366 P.D. | 44H Δ 7.003 P.D. | 48H 7.639 P.D. |
| 100 | .25 | .28 | .30 | .32 | .34 | .35 | .37 | .39 | .42 | .46 | .50 | .53 | .57 | .64 | .71 | .78 | .85 |
| 200 | .50 | .57 | .60 | .64 | .67 | .71 | .74 | .78 | .85 | .92 | .99 | 1.06 | 1.13 | 1.27 | 1.41 | 1.56 | 1.70 |
| 300 | .74 | .85 | .90 | .96 | 1.01 | 1.06 | 1.11 | 1.17 | 1.27 | 1.38 | 1.49 | 1.59 | 1.70 | 1.91 | 2.12 | 2.33 | 2.54 |
| 400 | .99 | 1.13 | 1.20 | 1.27 | 1.34 | 1.41 | 1.49 | 1.56 | 1.70 | 1.84 | 1.98 | 2.12 | 2.26 | 2.54 | 2.82 | 3.10 | 3.38 |
| 500 | 1.24 | 1.41 | 1.50 | 1.59 | 1.68 | 1.77 | 1.86 | 1.94 | 2.12 | 2.30 | 2.47 | 2.65 | 2.82 | 3.17 | 3.52 | 3.87 | 4.22 |
| 600 | 1.49 | 1.70 | 1.80 | 1.91 | 2.02 | 2.12 | 2.23 | 2.33 | 2.54 | 2.75 | 2.96 | 3.17 | 3.38 | 3.80 | 4.22 | 4.64 | 5.05 |
| 700 | 1.73 | 1.98 | 2.10 | 2.23 | 2.35 | 2.47 | 2.59 | 2.72 | 2.96 | 3.21 | 3.45 | 3.70 | 3.94 | 4.43 | 4.91 | 5.40 | 5.88 |
| 800 | 1.98 | 2.26 | 2.40 | 2.54 | 2.68 | 2.82 | 2.96 | 3.10 | 3.38 | 3.66 | 3.94 | 4.22 | 4.50 | 5.05 | 5.60 | 6.15 | 6.69 |
| 870 | 2.15 | 2.46 | 2.61 | 2.76 | 2.91 | 3.07 | 3.22 | 3.37 | 3.68 | 3.98 | 4.28 | 4.58 | 4.89 | 5.49 | 6.08 | 6.67 | 7.26 |
| 900 | 2.23◊ | 2.54 | 2.70 | 2.86 | 3.01 | 3.17 | 3.33 | 3.49 | 3.80 | 4.11 | 4.43 | 4.74 | 5.05 | 5.67 | 6.29 | 6.89 | 7.50 |
| 1000 | 2.47◊ | 2.82 | 3.00 | 3.17 | 3.35 | 3.52 | 3.70 | 3.87 | 4.22 | 4.57 | 4.91 | 5.26 | 5.60 | 6.29 | 6.96 | 7.63 | 8.30 |
| 1100 | 2.72◊ | 3.10 | 3.30 | 3.49 | 3.68 | 3.87 | 4.06 | 4.26 | 4.64 | 5.02 | 5.40 | 5.77 | 6.15 | 6.90 | 7.63 | 8.36 | 9.08 |
| 1160 | 2.86◊ | 3.27 | 3.47 | 3.68 | 3.88 | 4.08 | 4.28 | 4.48 | 4.89 | 5.28 | 5.68 | 6.08 | 6.48 | 7.26 | 8.03 | 8.80 | 9.55 |
| 1200 | – | 3.38◊ | 3.59 | 3.80 | 4.01 | 4.22 | 4.43 | 4.64 | 5.05 | 5.46 | 5.88 | 6.29 | 6.69 | 7.50 | 8.30 | 9.08 | 9.86 |
| 1300 | – | 3.66◊ | 3.89 | 4.12 | 4.34 | 4.57 | 4.79 | 5.01 | 5.46 | 5.91 | 6.35 | 6.79 | 7.23 | 8.10 | 8.95 | 9.79 | 10.62 |
| 1400 | – | 3.94◊ | 4.19 | 4.43 | 4.67 | 4.91 | 5.15 | 5.39 | 5.87 | 6.35 | 6.83 | 7.30 | 7.77 | 8.69 | 9.60 | 10.49 | 11.36 |
| 1500 | – | 4.22◊ | 4.48◊ | 4.74 | 5.00 | 5.26 | 5.51 | 5.77 | 6.28 | 6.79 | 7.30 | 7.80 | 8.30 | 9.28 | 10.24 | 11.18 | 12.09 |
| 1600 | – | 4.50◊ | 4.78◊ | 5.05 | 5.33 | 5.60 | 5.87 | 6.15 | 6.69 | 7.23 | 7.77 | 8.30 | 8.82 | 9.86 | 10.87 | 11.85 | 12.80 |
| 1700 | – | 4.77◊ | 5.07◊ | 5.36 | 5.65 | 5.94 | 6.23 | 6.52 | 7.10 | 7.67 | 8.23 | 8.79 | 9.34 | 10.43 | 11.49 | 12.51 | 13.50 |
| 1750 | – | 4.91◊ | 5.22◊ | 5.52 | 5.81 | 6.11 | 6.41 | 6.71 | 7.30 | 7.88 | 8.46 | 9.03 | 9.60 | 10.71 | 11.79 | 12.84 | 13.84 |
| 1800 | – | 5.05◊ | 5.36◊ | 5.67◊ | 5.98 | 6.28 | 6.59 | 6.89 | 7.50 | 8.10 | 8.69 | 9.28 | 9.86 | 10.99 | 12.09 | 13.15 | 14.18 |
| 1900 | – | 5.42◊ | 5.66◊ | 5.98◊ | 6.30 | 6.62 | 6.94 | 7.26 | 7.90 | 8.53 | 9.15 | 9.76 | 10.36 | 11.55 | 12.69 | 13.78 | 14.83 |
| 2000 | – | 5.60 | 5.95◊ | 6.28◊ | 6.62 | 6.96 | 7.30 | 7.63 | 8.29 | 8.95 | 9.60 | 10.24 | 10.87 | 12.10 | 13.27 | 14.40 | 15.46 |
| 2100 | – | – | – | 6.59◊ | 6.94 | 7.29 | 7.65 | 8.00 | 8.69 | 9.37 | 10.05 | 10.71 | 11.36 | 12.63 | 13.84 | 14.99 | 16.08 |
| 2200 | – | – | – | 6.89◊ | 7.26 | 7.63 | 8.00 | 8.36 | 9.08 | 9.79 | 10.49 | 11.18 | 11.85 | 13.16 | 14.40 | 15.57 | 16.66 |
| 2300 | – | – | – | 7.20◊ | 7.58 | 7.96 | 8.34 | 8.72 | 9.47 | 10.21 | 10.93 | 11.64 | 12.33 | 13.68 | 14.94 | 16.13 | 17.23 |
| 2400 | – | – | – | 7.50◊ | 7.90 | 8.29 | 8.69 | 9.08 | 9.85 | 10.62 | 11.37 | 12.09 | 12.80 | 14.18 | 15.46 | 16.66 | 17.76 |
| 2500 | – | – | – | 7.80◊ | 8.21◊ | 8.62 | 9.03 | 9.44 | 10.23 | 11.02 | 11.80 | 12.54 | 13.27 | 14.68 | 15.98 | 17.18 | 18.27 |
| 2600 | – | – | – | 8.10◊ | 8.52◊ | 8.95 | 9.37 | 9.79 | 10.61 | 11.42 | 12.22 | 12.98 | 13.72 | 15.16 | 16.47 | 17.67 | 18.75 |
| 2800 | – | – | – | 8.69◊ | 9.14◊ | 9.59 | 10.04 | 10.49 | 11.35 | 12.21 | 13.05 | 13.84 | 14.61 | 16.09 | 17.41 | 18.60 | 19.63 |
| 3000 | – | – | – | 9.28◊ | 9.75◊ | 10.23 | 10.70 | 11.18 | 12.08 | 12.98 | 13.85 | 14.67 | 15.46 | 16.96 | 18.27 | 19.42 | 20.38 |
| 3200 | – | – | – | 9.85◊ | 10.36◊ | 10.85 | 11.35 | 11.85 | 12.79 | 13.72 | 14.63 | 15.46 | 18.27 | 17.78 | 19.06 | 20.14 | 20.99 |
| 3400 | – | – | – | 10.43◊ | 10.95◊ | 11.47 | 11.99 | 12.51 | 13.48 | 14.45 | 15.37 | 16.22 | 17.03 | 18.53 | 19.76 | 20.75 | 21.46† |
| 3500 | – | – | – | 10.71◊ | 11.24◊ | 11.77 | 12.31 | 12.84 | 13.82 | 14.80 | 15.74 | 16.59 | 17.40 | 18.89 | 20.08 | 21.01 | 21.63† |
| 3600 | – | – | – | – | – | 12.07◊ | 12.62 | 13.16 | 14.16 | 15.15 | 16.09 | 16.95 | 17.75 | 19.22 | 20.37 | 21.24† | 21.77† |
| 3800 | – | – | – | – | – | 12.67◊ | 13.23 | 13.79 | 14.81 | 15.82 | 16.78 | 17.63 | 18.42 | 19.85 | 20.89 | 21.60† | 21.92† |
| 4000 | – | – | – | – | – | 13.24◊ | 13.82 | 14.40 | 15.44 | 16.46 | 17.43 | 18.27 | 19.04 | 20.40 | 21.31† | 21.83† | 21.90† |
| 4200 | – | – | – | – | – | 13.81◊ | 14.41 | 15.00 | 16.04 | 17.08 | 18.05 | 18.87 | 19.61 | 20.88 | 21.62† | 21.93† | 21.70† |
| 4400 | – | – | – | – | – | 14.36◊ | 14.97 | 15.57 | 16.63 | 17.67 | 18.82 | 18.42 | 20.12 | 21.27† | 21.83† | 21.87† | 21.32† |
| 4600 | – | – | – | – | – | 14.90◊ | 15.52◊ | 16.13 | 17.18 | 18.22 | 19.16 | 19.90 | 20.57 | 21.58† | 21.82† | 21.67† | 20.73† |
| 4800 | – | – | – | – | – | 15.42◊ | 16.05◊ | 16.67 | 17.71 | 18.74 | 19.66 | 20.37 | 20.96 | 21.81† | 21.89† | 21.30† | 19.93† |
| 5000 | – | – | – | – | – | 15.93◊ | 16.56◊ | 17.19 | 18.22 | 19.23 | 20.12 | 20.77 | 21.29† | 21.95† | 21.73† | 20.77† | – |
| 5200 | – | – | – | – | – | 16.41◊ | 17.05◊ | 17.69 | 18.69 | 19.68 | 20.53 | 21.11† | 21.54† | 21.99† | 21.44† | 20.06† | – |
| 5400 | – | – | – | – | – | 18.89◊ | 17.53◊ | 18.16◊ | 19.13 | 20.09 | 20.90 | 21.39† | 21.73† | 21.93† | 21.02† | – | – |
| 5600 | – | – | – | – | – | 17.34◊ | 17.98◊ | 18.61◊ | 19.55 | 20.47 | 21.22† | 21.62† | 21.85† | 21.76† | 20.45† | – | – |
| 5800 | – | – | – | – | – | 17.77◊ | 18.41◊ | 19.04◊ | 19.93 | 20.80 | 21.49† | 21.78† | 21.89† | 21.50† | 19.75† | – | – |
| 6000 | – | – | – | – | – | 18.19◊ | 18.82◊ | 19.41◊ | 20.27 | 21.10† | 21.70† | 21.88† | 21.85† | 21.12† | – | – | – |

### H Belt Width Table

| Belt Width Factor | .42 | .57 | .71 | .86 | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 | 4.06 | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 | 3-1/2 | 4 | 5 | 6 | 7 | 8 |
| Belt Width Code | 050 | 062 | 075 | 087 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | 800 |

**Shaded area indicates stock belt widths.**

Δ Special non-stock sizes.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◊ Pulley diameter is below recommended minimum.
A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

# Selection

## L Stock Drive Selections

## XH Basic Horsepower Ratings

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 18 XH 5.013 P.D. | 20 XH 5.570 P.D. | 22 XH 6.127 P.D. | 24 XH 6.685 P.D. | 26 XH 7.241 P.D. | 28 XH 7.799 P.D. | 30 XH 8.356 P.D. | 32 XH 8.913 P.D. | 40 XH 11.141 P.D. |
| 100 | 0.76◊ | 0.84 | 0.93 | 1.01 | 1.11 | 1.18 | 1.26 | 1.34 | 1.68 |
| 200 | 1.51◊ | 1.68 | 1.85 | 2.02 | 2.19 | 2.36 | 2.52 | 2.69 | 3.37 |
| 300 | 2.28◊ | 2.52 | 2.78 | 3.03 | 3.28 | 3.54 | 3.78 | 4.03 | 5.02 |
| 400 | 3.03◊ | 3.37 | 3.70 | 4.03 | 4.37 | 4.70 | 5.02 | 5.36 | 6.66 |
| 480 | 3.63◊ | 4.03 | 4.43 | 4.82 | 5.22 | 5.62 | 6.00 | 6.40 | 7.95 |
| 500 | 3.78◊ | 4.20◊ | 4.61 | 5.02 | 5.44 | 5.85 | 6.26 | 6.71 | 8.26 |
| 510 | 3.86◊ | 4.29◊ | 4.71 | 5.12 | 5.54 | 5.97 | 6.37 | 6.80 | 8.42 |
| 570 | 4.30◊ | 4.77◊ | 5.25 | 5.72 | 6.17 | 6.65 | 7.10 | 7.56 | 9.36 |
| 600 | 4.53◊ | 5.02◊ | 5.52 | 6.00 | 6.50 | 6.98 | 7.47 | 7.95 | 9.82 |
| 680 | 5.12◊ | 5.68◊ | 6.24 | 6.80 | 7.34 | 7.88 | 8.42 | 8.96 | 11.04 |
| 700 | 5.27◊ | 5.84◊ | 6.42 | 6.98 | 7.54 | 8.10 | 8.66 | 9.21 | 11.35 |
| 800 | 6.00◊ | 6.66◊ | 7.31 | 7.95 | 8.59 | 9.21 | 9.83 | 10.44 | 12.80 |
| 870 | 6.52◊ | 7.23◊ | 7.92 | 8.61 | 9.29 | 9.97 | 10.63 | 11.29 | 13.79 |
| 900 | 6.74◊ | 7.46◊ | 8.19◊ | 8.90 | 9.59 | 10.29 | 10.97 | 11.64 | 14.18 |
| 1000 | 7.47◊ | 8.26◊ | 9.05◊ | 9.82 | 10.59 | 11.35 | 12.08 | 12.80 | 15.51 |
| 1100 | 8.19◊ | 9.05◊ | 9.91◊ | 10.75 | 11.56 | 12.38 | 13.15 | 13.92 | 16.74 |
| 1160 | 8.61◊ | 9.51◊ | 10.41◊ | 11.29 | 12.13 | 12.97 | 13.79 | 14.57 | 17.44 |
| 1200 | – | 9.83◊ | 10.75◊ | 11.64◊ | 12.51 | 13.37 | 14.29 | 14.99 | 17.89 |
| 1300 | – | 10.59◊ | 11.57◊ | 12.51◊ | 13.44 | 14.32 | 15.18 | 16.01 | 18.94 |
| 1400 | – | 11.35◊ | 12.37◊ | 13.37◊ | 14.32 | 15.25 | 16.14 | 16.98 | 19.87 |
| 1500 | – | 12.08◊ | 13.15◊ | 14.19◊ | 15.18 | 16.14 | 17.03 | 17.89 | 20.71 |
| 1600 | – | 12.80◊ | 13.92◊ | 14.99◊ | 16.01 | 16.98 | 17.14 | 18.82 | 21.42 |
| 1700 | – | 13.50◊ | 14.66◊ | 15.76◊ | 16.80 | 17.78 | 18.68 | 19.51 | 21.99 |
| 1750 | – | 13.85◊ | 15.03◊ | 16.14◊ | 17.17 | 18.16 | 19.06 | 19.87 | 22.22 |
| 1800 | – | – | 15.37◊ | 16.51◊ | 17.56◊ | 18.53 | 19.42 | 20.22 | 22.35 |
| 1900 | – | – | 16.07◊ | 17.22◊ | 18.65◊ | 19.23 | 20.69 | 20.86 | 22.70 |
| 2000 | – | – | 16.74◊ | 17.89◊ | 18.94◊ | 19.87 | 20.71 | 21.42 | 22.84 |
| 2100 | – | – | 17.39◊ | 18.53◊ | 19.56◊ | 20.48 | 21.25 | 21.88 | 22.81 |
| 2200 | – | – | 18.00◊ | 19.43◊ | 20.14◊ | 21.01 | 21.72 | 22.27 | 22.61 |
| 2300 | – | – | 18.58◊ | 19.70◊ | 20.67◊ | 21.47 | 22.11 | 22.55 | 22.30† |
| 2400 | – | – | 19.13◊ | 20.22◊ | 21.14◊ | 21.88 | 22.42 | 22.75 | 21.65† |
| 2500 | – | – | – | 20.71◊ | 21.57◊ | 22.22◊ | 22.64 | 22.84 | 20.89† |
| 2600 | – | – | – | 21.14◊ | 21.94◊ | 22.49◊ | 22.80 | 22.82 | 19.92† |
| 2800 | – | – | – | 21.89◊ | 22.49◊ | 22.81◊ | 22.81 | 22.47† | – |
| 3000 | – | – | – | 22.42◊ | 22.80◊ | 22.81◊ | 22.44† | 21.65† | – |
| 3200 | – | – | – | 22.75◊ | 22.82◊ | 22.47†◊ | 21.65† | 20.33† | – |
| 3400 | – | – | – | 22.84◊ | 22.58◊ | 21.78†◊ | 20.42† | 18.48† | – |
| 3500 | – | – | – | 22.81◊ | 22.34†◊ | 21.29†◊ | 19.64† | – | – |
| 3600 | – | – | – | 22.71◊ | 22.02†◊ | 20.72†◊ | 18.73† | – | – |
| 3800 | – | – | – | 22.31†◊ | 21.41†◊ | 19.22†◊ | – | – | – |
| 4000 | – | – | – | 21.65†◊ | 19.92†◊ | – | – | – | – |
| 4200 | – | – | – | 20.71†◊ | 18.33†◊ | – | – | – | – |
| 4400 | – | – | – | 19.47†◊ | – | – | – | – | – |

## XXH Basic Horsepower Ratings

| RPM of Faster Shaft | HP for a 1" Wide Belt for Various Pulleys | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 18 XXH 7.162 P.D. | 20 XXH 7.958 P.D. | 22 XXH 8.753 P.D. | 24 XXH 9.549 P.D. | 26 XXH 10.345 P.D. | 30 XXH 11.937 P.D. | 32 XXH 13.528 P.D. | 40 XXH 15.915 P.D. |
| 100 | 1.33◊ | 1.48 | 1.83 | 1.77 | 1.92 | 2.21 | 2.51 | 2.95 |
| 200 | 2.66◊ | 2.95 | 3.24 | 3.54 | 3.84 | 4.42 | 5.00 | 5.87 |
| 300 | 3.98◊ | 4.42 | 4.85 | 5.29 | 5.72 | 6.58 | 7.45 | 8.73 |
| 400 | 5.29◊ | 5.87 | 8.44 | 7.02 | 7.60 | 8.73 | 9.85 | 11.49 |
| 480 | 6.33◊ | 7.02 | 7.70 | 8.39 | 9.06 | 10.40 | 11.71 | 13.61 |
| 500 | 6.63◊ | 7.31◊ | 8.02 | 8.73 | 9.43 | 10.81 | 12.17 | 14.13 |
| 510 | 6.72◊ | 7.45◊ | 8.17 | 8.89 | 9.61 | 11.02 | 12.39 | 14.39 |
| 570 | 7.50◊ | 8.31◊ | 9.11 | 9.90 | 10.68 | 12.23 | 13.73 | 15.89 |
| 600 | 7.88◊ | 8.73◊ | 9.57 | 10.40 | 11.22 | 12.83 | 14.39 | 16.62 |
| 680 | 8.89◊ | 9.85◊ | 10.78 | 11.71 | 12.62 | 14.39 | 16.09 | 18.49 |
| 700 | 9.15◊ | 10.13◊ | 11.09 | 12.03 | 12.96 | 14.77 | 16.51 | 18.93 |
| 800 | 10.40◊ | 11.49◊ | 12.56 | 13.62 | 14.64 | 16.62 | 18.49 | 21.02 |
| 870 | 10.85◊ | 12.43◊ | 13.56 | 14.70 | 15.79 | 17.88 | 19.78 | 22.34 |
| 900 | 11.69◊ | 12.83◊ | 14.00◊ | 15.15 | 16.23 | 18.37 | 20.31 | 22.86 |
| 1000 | 12.83◊ | 14.14◊ | 15.40◊ | 16.62 | 17.80 | 20.01 | 21.98 | 24.44 |
| 1100 | 14.00◊ | 15.40◊ | 16.94◊ | 18.00 | 19.26 | 21.50 | 23.45 | 25.70 |
| 1160 | 14.70◊ | 16.14◊ | 17.52◊ | 18.84 | 20.01 | 22.34 | 24.23 | 26.29 |
| 1200 | – | 16.62◊ | 18.03◊ | 19.37◊ | 20.62 | 22.88 | 24.71 | 26.62 |
| 1300 | – | 17.80◊ | 19.26◊ | 19.88◊ | 21.88 | 24.07 | 26.75 | 27.18 |
| 1400 | – | 18.93◊ | 20.41◊ | 21.79◊ | 23.03 | 26.10 | 26.54 | 27.33 |
| 1500 | – | 19.19◊ | 21.50◊ | 22.88◊ | 24.07 | 26.95 | 27.06 | 27.05 |
| 1600 | – | 21.02◊ | 22.52◊ | 23.84◊ | 24.98 | 26.62 | 27.32 | 26.33† |
| 1700 | – | 21.99◊ | 23.45◊ | 24.71◊ | 25.75 | 27.07 | 27.27 | 25.11† |
| 1750 | – | 22.43◊ | 23.88◊ | 25.11◊ | 26.08 | 27.22 | 27.12 | 24.31† |
| 1800 | – | 22.87◊ | 24.29◊ | 26.47◊ | 26.38◊ | 27.31 | 26.89 | 23.36† |
| 1900 | – | 23.69◊ | 25.04◊ | 26.11◊ | 26.86◊ | 27.31 | 26.18† | – |
| 2000 | – | 24.44◊ | 25.70◊ | 26.62◊ | 27.18◊ | 27.08 | 26.11† | – |
| 2100 | – | 25.11◊ | 26.24◊ | 27.00◊ | 27.33◊ | 26.56† | 23.66† | – |
| 2200 | – | 25.70◊ | 26.69◊ | 27.24◊ | 27.31◊ | 26.79† | – | – |
| 2300 | – | 26.21◊ | 27.03◊ | 27.33◊ | 27.09◊ | 24.74† | – | – |
| 2400 | – | 26.62◊ | 27.24◊ | 27.28◊ | 26.69† | 23.36† | – | – |
| 2500 | – | 29.95◊ | 27.33◊ | 27.06◊ | 26.07† | – | – | – |
| 2600 | – | 27.18◊ | 27.30◊ | 26.69† | 25.25† | – | – | – |
| 2800 | – | 27.34◊ | 26.83◊ | 25.40† | 22.95† | – | – | – |
| 3000 | – | 27.07◊ | 26.79 | 23.36† | – | – | – | – |
| 3200 | – | – | – | – | – | – | – | – |
| 3400 | – | – | – | – | – | – | – | – |
| 3500 | – | – | – | – | – | – | – | – |
| 3600 | – | – | – | – | – | – | – | – |
| 3800 | – | – | – | – | – | – | – | – |
| 4000 | – | – | – | – | – | – | – | – |
| 4200 | – | – | – | – | – | – | – | – |
| 4400 | – | – | – | – | – | – | – | – |

### XH, XXH Belt Width Table

| Belt Width Factor | 1.00 | 1.29 | 1.56 | 1.84 | 2.14 | 2.72 | 3.36 | 4.06 | 4.76 | 6.15 | 7.50 | 8.89 | 10.32 | 11.70 | 13.10 | 14.41 | 15.84 | 17.16 | 18.62 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width | 1 | 1-1/4 | 1-1/2 | 1-3/4 | 2 | 2-1/2 | 3 | 3-1/2 | 4 | 5ý | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Belt Width Code | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 |

**Shaded area indicates stock belt widths.**

† Belt Speed exceeds 6500 FPM – consult Dodge.

◊ Pulley diameter is below recommended minimum.
A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

Δ Stock with XXH Series only.

# Synchronous Installation
## HT500 and HT250 Drive Installation



### Sprocket Installation

1. Thoroughly inspect the bore of the sprocket and the tapered surface of the bushing. Any paint, dirt, oil or grease must be removed.

2. Assemble bushing into sprocket. Loosely insert the screws into assembly. At least one sprocket must have flanges.

3. With key in keyseat of shaft, slide sprocket to its desired position with screw heads to the outside. If it is hard to slide the bushing onto the shaft, check shaft for burrs, etc.

4. Line up assembly so as not to misalign belts and tighten screws evenly and progressively. Apply the recommended torque to screws.

### Sprocket Alignment

HT/HTD sprocket alignment and parallelism of the shafts are very important. Proper alignment helps to equalize the load across the entire belt width, thereby reducing wear and extending belt life.

Place a straightedge against the outside edge of the sprockets and move sprockets until the straightedge touches the two outside and two inside edges of the sprockets. The straightedge should cross the sprockets as close to the shafts as possible. A string can be used if a straightedge is not available. Remember the string should contact at four points as explained above. (See illustration on page PT3-253.

After aligning the sprockets, check the rigidity of the supporting framework. Shafts should be well supported to prevent distortion and a resulting change in the center distance under load. Do not use spring-loaded or weighted idlers. Idler sprockets or pulleys must be locked into position after adjusting belt tension.

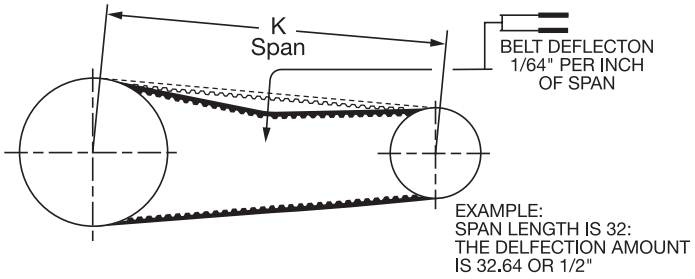
### Belt Installation and Tensioning

Do not pry or otherwise force the belt onto the sprockets, as this can result in permanent damage to the belt. Reduce the center distance between the pulleys so that the belt can be easily installed.

HT 200 drives must be properly tensioned. If the belt is too loose, it may jump teeth when heavier loads are applied. If the belt is too tight, belt life will suffer, and bearings will be unnecessarily overloaded. Improper tension can result in excessive drive noise.

Tensioning procedure: First, measure the span length and calculate the deflection distance of 1/64, per inch span (see illustration).

Use the formula method on page PT3-253 to calculate recommended deflection forces.




Apply a force (from the table) at the center of the span. Measure the deflection with this force applied. Move the center distance until the proper deflection is obtained.

# Synchronous Installation

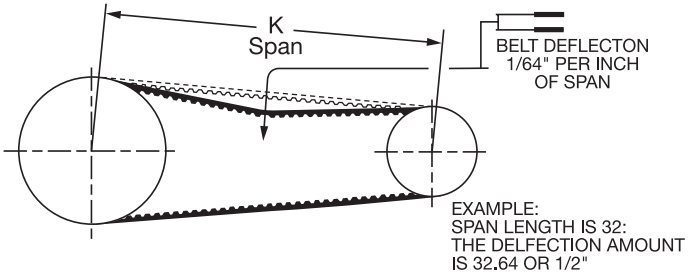
## Belt Installation and Tensioning

Do not pry or otherwise force the belt onto the sprockets, as this can result in permanent damage to the belt. Reduce the center distance between the pulleys so that the belt can be easily installed.

HT500 drives must be properly tensioned. If the belt is too loose, it may jump teeth when heavier loads are applied. If the belt is too tight, belt life will suffer, and bearings will be unnecessarily overloaded. Improper tension can result in excessive drive noise.

### Force/Deflection Tensioning Procedure:

First, measure the span length and calculate the deflection distance of 1/64, per inch span (see illustration).




Apply the calculated deflection force at the center of the span. Measure the deflection with this force applied. Move the center distance until the proper deflection is obtained.

### Sonic Tension Meter Method:

The Sonic Tension Meter (pn 109994) measures frequency in the belt upon an applied stimulus. The meter will then provide an output of both frequency and calculated static tension. The static tension is calculated based upon three user inputs: belt width, span (as measured in the above illustration) and the belt's mass constant. Variables for belt mass constants are provided in the following table.

| Belt | | Adjusted Belt Weight (g/m) |
|---|---|---|
| HT250 | 5M | 4.1 |
| HT250 | 8M | 5.8 |
| HT250 | 14M | 9.7 |
| HTD | 8M | 6.2 |
| HTD | 14M | 9.9 |
| HTD | 20M | 12.8 |
| HT500 | 14M | 7.9 |
| HT500 | 8M | 4.7 |

To measure the belt's span vibration:

Input parameters of span length, belt width and the belt mass constant into the meter.

Press the MEASURE button on the meter.

Thumb the belt at center span as if strumming a guitar string.

Hold the microphone ¼" away from the back of the belt.

The tension meter will display static tension and frequency. Compare the frequency output to the formula below. Note that drive outputs of static tension and frequency are also provided on-line from the ViaSync selection program at www.ptwizard.com.

$$T = 4 * M * W * S^2 * f^2 * 10^{-9}$$

Where:
- T = Belt span tension (Newtons)
- M = Belt mass constant (g/m)
- W = Belt width (mm)
- S = Span length (mm)
- $f$ = Natural frequency of the belt at applied tension (Hz)

# Synchronous Installation

## Installing/Tensioning DYNA-SYNC Drives

### Alignment

Use straight edge to check parallel and offset alignment. Align pulleys within 1/4° or 1/16" per foot center distance. Supporting framework must be rigid.

### Pulley Flanges

At least one pulley must have flanges. If center distance is more than 8 times the diameter of the smallest pulley, both pulleys should be flanged. Vertical shaft drives may require flanges on both pulleys.

### Installation

Reduce center distance so that belt can be slipped into place without forcing. Do not pry belt onto pulleys. Increase center distance to tighten belt. Belt should be snug, but not excessively tight. If belt has a tendency to "jump teeth" during operation, increase belt tension.

### Idlers

Adjustable center distance is preferred over idlers to tension belt. Idlers should be positioned on the slack side of the drive. Inside idlers are preferred over outside idlers. Idler diameter should be at least as large as the smallest pulley.

### Tensioning the Drive –

Simple Tensioning Procedure:

**Step 1** – Calculate the value of the deflection force "f" from the following formula, referring to drawing below.

**Force of Deflection** $f = \frac{T + (S/L)\,K}{16}$

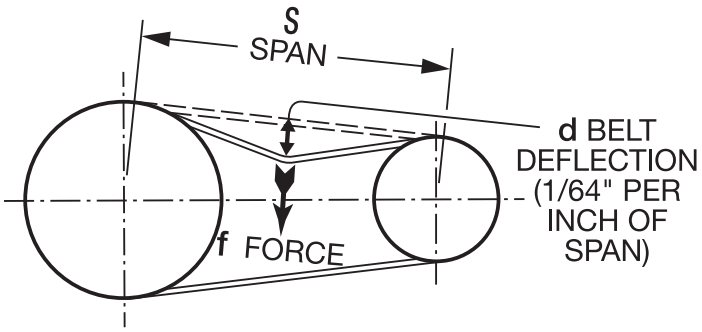
Where S = Span distance in inches

T = Tension in Lbs. from Table below

K = Constant from Table

L = Length of Belt

**Step 2** – Using a straight edge as a reference, apply enough force to deflect belt 1/64" for every inch of center span. If this force is less than the calculated "f", increase center distance of pulleys. If more than "f", decrease center distance of pulleys.




**Belt Deflection Force T and K Values**

| Belt Pitch | | Values # | Belt Width 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1-1/2 | 2 | 2-1/2 | 3 | 4 | 5 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| XL | 1/5" | T | 6.7 | 10 | 15 | 20 | 24.2 | 34.2 | – | – | – | – | – | – | – | – | – |
| | | K | .85 | 1.7 | 2.7 | 3.6 | 4.7 | 6.7 | – | – | – | – | – | – | – | – | – |
| L | 3/8" | T | – | 11.4 | 17.1 | 22.1 | 27.9 | 39.3 | 61.4 | – | – | – | – | – | – | – | – |
| | | K | – | 8.5 | 9.9 | 14 | 17 | 24 | 37 | – | – | – | – | – | – | – | – |
| H | 1/2" | T | – | – | 39.3 | 53.3 | 66 | 93.3 | 145.3 | 200 | 254 | 313 | 444 | 574 | 700 | – | – |
| | | K | – | – | 17 | 22 | 32 | 46 | 71 | 95 | 125 | 152 | 210 | 265 | 320 | – | – |
| XH | 7/8" | T | – | – | – | – | – | – | – | 227 | 288 | 356 | 504 | 652 | 795 | 1094 | 1388 |
| | | K | – | – | – | – | – | – | – | 190 | 250 | 305 | 440 | 568 | 700 | 1080 | 1330 |
| XXH | 1-1/4" | T | – | – | – | – | – | – | – | 556 | 707 | 873 | 1238 | 1599 | 1950 | 2683 | 3406 |
| | | K | – | – | – | – | – | – | – | 310 | 410 | 500 | 710 | 920 | 1100 | 1500 | – |

**#T = Tension in Pounds; K = constant for above formula.**

**Allowable Working Tension (Ta) Lbs.**

| Belt Pitch | | Belt Width 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1-1/2 | 2 | 2-1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| XL | 1/5" | 8 | 12 | 18 | 24 | 29 | 41 | – | – | – | – | – | – | – | – | – | – | – |
| L | 3/8" | – | 16 | 24 | 31 | 39 | 55 | 86 | 118 | 150 | 185 | – | – | – | – | – | – | – |
| H | 1/2" | – | – | 59 | 80 | 99 | 140 | 218 | 300 | 381 | 470 | 666 | 861 | 1050 | – | – | – | – |
| XH | 7/8" | – | – | – | – | – | – | – | 409 | 519 | 641 | 908 | 1175 | 1431 | 1969 | 2499 | 3022 | 3552 |
| XXH | 1-1/4" | – | – | – | – | – | – | – | 500 | 636 | 786 | 1114 | 1439 | 1755 | 2415 | 3065 | 3706 | 4357 |

**Note: These values have not been corrected for centrifugal force loss.**

# Synchronous Engineering

## HT500 Overhung Load Calculations

Overhung load is an important consideration for drive design. Motor and reducer bearings are rated for specific load capacities to achieve calculated life. If the drive design is such that bearing loads are exceeded, life will be proportionally reduced. Likewise, if the drive exerts a lesser load on the bearings, life will be extended. Needless to say, drive design that keeps bearing loads below ratings can pay big dividends.

### Best Pull

The basis for overhung load calculation is belt pull. Belt pull is the result of torque being transmitted when the belt exerts a pull on the sprocket diameter.

#### *Example*

5 hp at 200 RPM is 1,575 inch-pounds of torque. If a 6" diameter sprocket is used, (3 inch radius), 1,575/3= 525 pounds effective belt pull is required. Note that if a larger diameter sprocket is used, belt pull is reduced accordingly.

Belt pull can be calculated using the following formula:

$$\text{Belt Pull (lbs)} = \frac{126{,}000 \times HP \times F}{RPM \times PD}$$

Where: HP = Name plate horsepower of the motor or driver

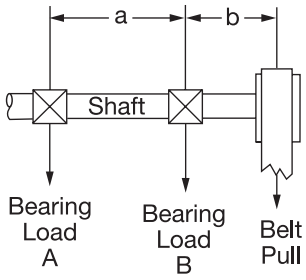
F = Drive Factor (1.3 for synchronous belt)

RPM = Shaft RPM

PD = Pitch Diameter of Sprocket

### Bearing Load

Belt pull translates into bearing load and is greatly affected by the location of the sprocket on the shaft. Fig.1 shows an example of what happens as the distance between the centerline of belt pull and the adjacent bearing is extended.




Overhung Sheave

$$\text{Load at B, lbs.} = \frac{\text{Belt Pull} \times (a + b)}{a}$$

Fig. 1

| a | b | Belt Pull | Bearing Load "B" |
|---|---|---|---|
| 10 in | 1 in | 500 lbs | 550 lbs |
| 10 in | 5 in | 500 lbs | 750 lbs |

Now consider the same situation for a motor or gearbox. Referring to Fig. 2, it should be obvious that the sprocket should be mounted as close as possible to the face of the gearbox.

As the distance between the gearbox face and sprocket increases, the bearing load is also increased, which leads to a reduction in bearing life.

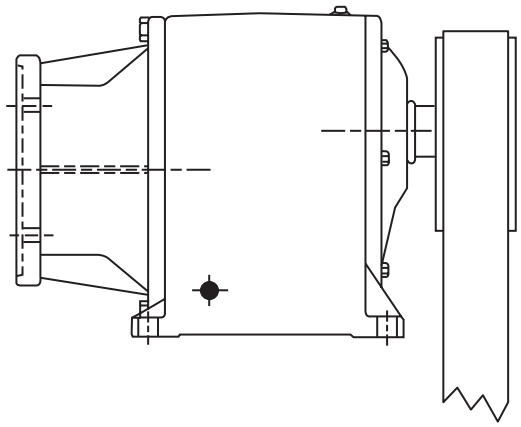


**Fig. 2**

Another warning from gearbox manufacturers is that the centerline of belt pull should not extend beyond the end of the shaft. Given a choice of a small diameter, wide face-width drive design, or a larger diameter, narrower face-width alternative, the latter would be preferable if bearing life is an important consideration.

### Drive Design Considerations

For any given application, there are usually several possible drive alternatives. In some cases, the selection with the smallest diameter sprockets might be the least expensive. As can be seen from the previous discussion, this alternative could be a bad choice. Smaller diameter sprockets lead to higher belt pull; their greater width is also more sensitive to misalignment.

# Synchronous Engineering

## Troubleshooting



| Problem | Cause | Remedy |
|---|---|---|
| **Unusual Noise** | Misaligned drive | Re-adjust alignment |
| | Hi or Low belt tension | Adjust to recommended value |
| | Backside idler | Use inside idler |
| | Worn sprocket | Replace sprocket |
| | Bent sprocket flange | Replace or repair |
| | Excessive belt speed | Redesign drive |
| | Incorrect belt profile | Replace with DODGE belt |
| | Subminimal spkt. dia. | Redesign with lager spkts. |
| | Excessive load | Use higher capacity drive |
| | Weak mntg. structure | |
| **Loss of Belt Tension** | Weak mntg. structure | Reinforce mounting structure |
| | Excessive spkt. wear | Use wear-resistant sprockets |
| | Fixed center drive | Install inside idler |
| | Excessive debris | Install adequate drive guard. |
| | Excessive load | Use higher capacity drive |
| | Subminimal spkt. dia. | Redesign drive |
| | Drive running hot | Use heat fingers on hot shaft |
| | Belt degradation | Protect from excessive heat |
| **Belt Edge Wear** | Damaged flanges | Repair or replace sprocket |
| | Low belt tension | Adjust to recommended value |
| | Poor tracking | Correct alignment |
| | Guard interference | Remove obstruction, add idler |
| **Pre-mature Tooth Wear** | Improper tension | Correct drive tension |
| | Poor alignment | Correct drive alignment |
| | Wrong belt type | Use correct DODGE belt |
| | Worn sprocket | Replace |
| | Damaged sprocket | Replace |
| | Excessive load | Use higher capacity drive |
| | Dirt or debris | Install adequate drive guard |
| | Sprocket wobble | Correct bushing installation |

| Problem | Cause | Remedy |
|---|---|---|
| **Tooth Shear** | Shock loads | Use higher capacity drive |
| | Few teeth in mesh | Redesign drive |
| | Worn sprocket | Replace |
| | Backside idler | Use inside idler |
| | Wrong belt profile | Use correct DODGE belt |
| | Low belt tension | Adjust to recommended value |
| **Tensile Break** | Shock load | Use higher capacity drive |
| | Subminimal spkt. dia. | Redesign with larger spkts. |
| | Debris in drive | Install adequate drive guard |
| | Improper belt handling, storage | Do not crimp belt or subject it to sharp bends |
| **Belt Cracking** | Subminimal spkt. dia. | Redesign with larger spkts. |
| | Backside idler | Install inside idler |
| | Start-up temp below 180 degrees F | Preheat drive before start-up |
| | Extended exposure to harsh chemicals | Protect drive |
| **Bearing Failure** | Excessive belt tension | Adjust to recommended value |
| | Drive misalignment | Re-adjust alignment |
| | Subminimal spkt. dia. | Redesign with larger spkts. |
| **Vibration** | Wrong belt profile | Install correct DODGE belt |
| | Hi or Low belt tension | Adjust to recommended value |
| | Loose key or bushing | Install per instructions |
| | Loose mounting structure | Reinforce or tighten |
| **Belt not Tracking** | Misalignment | Re-adjust alignment |
| | Long center distance | Carefully adjust alignment |
| | Mtg. structure bending | Reinforce mounting structure |

# Synchronous Engineering

## HTD Overhung Load Calculations

Overhung load is an important consideration for drive design. Motor and reducer bearings are rated for specific load capacities to achieve calculated life. If the drive design is such that bearing loads are exceeded, life will be proportionally reduced. Likewise, if the drive exerts a lesser load on the bearings, life will be extended. Needless to say, drive design that keeps bearing loads below ratings can pay big dividends.

### Best Pull

The basis for overhung load calculation is belt pull. Belt pull is the result of torque being transmitted when the belt exerts a pull on the sprocket diameter.

#### *Example*

5 hp at 200 RPM is 1,575 inch-pounds of torque. If a 6" diameter sprocket is used, (3 inch radius), 1,575/3= 525 pounds effective belt pull is required. Note that if a larger diameter sprocket is used, belt pull is reduced accordingly.

Belt pull can be calculated using the following formula:

$$\text{Belt Pull (lbs)} = \frac{126{,}000 \times \text{DHP} \times \text{F}}{\text{RPM} \times \text{PD}}$$

Where:

DHP = Design horsepower

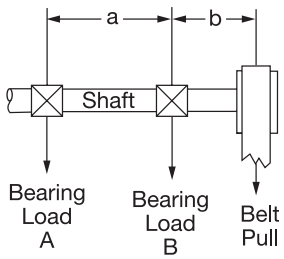
F = Drive Factor (1.3 for synchronous belt)

RPM = Shaft RPM

PD = Pitch Diameter of Sprocket

### Bearing Load

Belt pull translates into bearing load and is greatly affected by the location of the sprocket on the shaft. Fig.1 shows an example of what happens as the distance between the centerline of belt pull and the adjacent bearing is extended.




Overhung Sheave

$$\text{Load at B, lbs.} = \frac{\text{Belt Pull} \times (a + b)}{a}$$

**Fig. 1**

| a | b | Belt Pull | Bearing Load "B" |
|---|---|---|---|
| 10 in | 1 in | 500 lbs | 550 lbs |
| 10 in | 5 in | 500 lbs | 750 lbs |

Now consider the same situation for a motor or gearbox. Referring to Fig. 2, it should be obvious that the HT/HTD sprocket should be mounted as close as possible to the face of the gearbox.

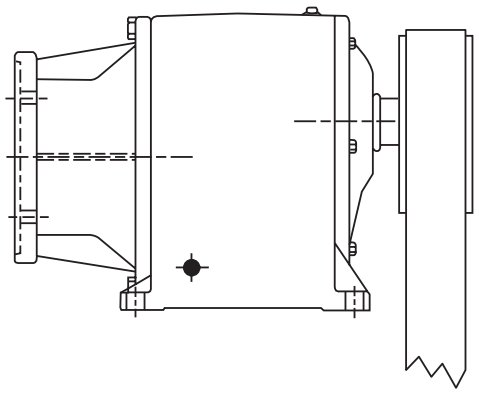


**Fig. 2**

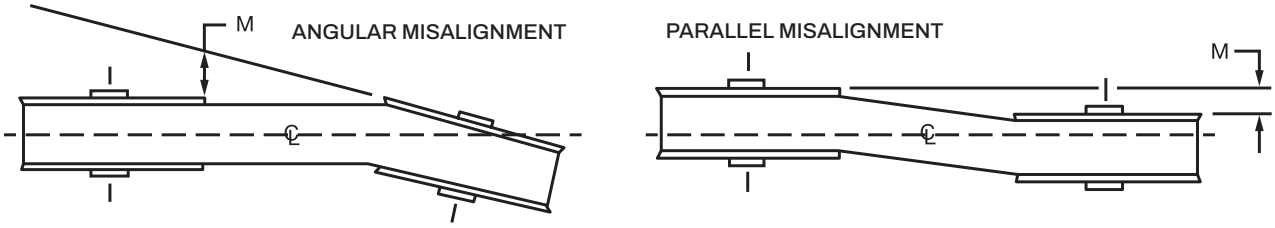
Another warning from gearbox manufacturers is that the centerline of belt pull should not extend beyond the end of the shaft. Given a choice of a small diameter, wide face-width drive design, or a larger diameter, narrower face-width alternative, the latter would be preferable if bearing life is an important consideration.

### Drive Design Considerations

For any given application, there are usually several possible drive alternatives. In some cases, the selection with the smallest diameter sprockets might be the least expensive. As can be seen from the previous discussion, this alternative could be a bad choice. Smaller diameter sprockets lead to higher belt pull; their greater width is also more sensitive to misalignment.

# Synchronous Engineering
## HTD

### Drive Alignment




Good tracking of synchronous belts on their sprockets depends upon alignment to within 1/4 degree. This translates to a maximum "M" dimension of 0.05" per foot center distance.

### Drive Tensioning

***Formula Method***

The formula method for determining belt tension may be used for greater accuracy, or for applications that fall out of guidelines given for the Simplified Method on page PT3-253.

**Step 1. Calculate Min. Installation Tension:**

**Formula 1:** $T = \frac{20\,(HP)}{V} + mV^2$

Where: HP = Horsepower

$V = \frac{\text{Belt Velocity (in FPM)}}{1000}$

m = Value in Table 1

Belt Velocity = PD x RPM x .262
(PD = Pitch Dia. in inches)

***Important!** If formula calculation for "T" is less than "Min T. Value" (Table 1) use the "Min T. Value" for T. Always use the greater T value: i.e. from T Formula 1 or Table 1.

**Step 2. Calculate Deflection Forces:**

**Formula 2:** **Min Force =** $\frac{1.0T + (K/L)Y}{16}$ **(lbs)**

**Formula 3:** **Max Force =** $\frac{1.1T + (K/L)Y}{16}$ **(lbs)**

Note: For used belt, use 0.7T to 0.8T instead of the 1.0T and 1.1T for new belts.

T = Static tension, lbs
K = Span length, inches
L = Belt length, inches
Y = Factor from Table 1

**Step 3.**

Adjust tension per Simplified Method Procedure on page PT3-253 using deflection forces from Step 2.

**Table 1**

| Belt | | Factors | | Min. T |
|---|---|---|---|---|
| Pitch | Width | m | Y | Value* |
| 5MM | 15MM | 0.28 | 24.9 | 14.1 |
| 5MM | 25MM | 0.47 | 41.5 | 23.4 |
| 8MM | 20MM | 0.58 | 34.2 | 18.5 |
| 8MM | 30MM | 0.88 | 51.3 | 30.0 |
| 8MM | 50MM | 1.46 | 85.5 | 52.0 |
| 8MM | 85MM | 2.45 | 145.3 | 94.5 |
| 14MM | 40MM | 1.78 | 93.0 | 76.5 |
| 14MM | 55MM | 2.44 | 127.9 | 120.0 |
| 14MM | 85MM | 3.77 | 197.7 | 205.5 |
| 14MM | 115MM | 5.11 | 267.5 | 291.0 |
| 14MM | 170MM | 7.55 | 395.4 | 447.0 |
| 20MM | 115MM | 7.24 | 367.0 | 391.5 |
| 20MM | 170MM | 10.71 | 542.5 | 603.0 |
| 20MM | 230MM | 14.49 | 734.0 | 834.0 |
| 20MM | 290MM | 18.27 | 925.4 | 1065.0 |
| 20MM | 340MM | 21.42 | 1085.0 | 1257.5 |

# Synchronous Engineering

## Drive Tensioning

**Table 1**

| | Pitch | Width | m | Y | Min Ts |
|---|---|---|---|---|---|
| HT250 | 5 mm | 15 mm | 0.28 | 24.9 | 14 |
| HT250 | 5 mm | 25 mm | 0.47 | 41.5 | 23 |
| HTD | 20 mm | 115 mm | 7.24 | 367.0 | 392 |
| HTD | 20 mm | 170 mm | 10.71 | 542.5 | 603 |
| HTD | 20 mm | 230 mm | 14.49 | 734.0 | 834 |
| HTD | 20 mm | 290 mm | 18.27 | 925.4 | 1065 |
| HTD | 20 mm | 340 mm | 21.42 | 1085.0 | 1258 |
| HT250 | 8 mm | 20 mm | 0.54 | 42.29 | 19 |
| HT250 | 8 mm | 30 mm | 0.81 | 63.44 | 30 |
| HT250 | 8 mm | 50 mm | 1.35 | 105.7 | 52 |
| HT250 | 8 mm | 85 mm | 2.29 | 179.7 | 95 |
| HT250 | 14 mm | 40 mm | 1.80 | 93.04 | 77 |
| HT250 | 14 mm | 55 mm | 2.48 | 127.9 | 120 |
| HT250 | 14 mm | 85 mm | 3.83 | 197.7 | 206 |
| HT250 | 14 mm | 115 mm | 2.18 | 267.5 | 291 |
| HT250 | 14 mm | 170 mm | 7.66 | 395.4 | 448 |
| HT500 | 8 mm | 12 mm | 0.33 | 65 | 28 |
| HT500 | 8 mm | 21 mm | 0.57 | 113 | 49 |
| HT500 | 8 mm | 36 mm | 0.97 | 194 | 84 |
| HT500 | 8 mm | 62 mm | 1.68 | 335 | 145 |
| HT500 | 14 mm | 20 mm | 0.92 | 230 | 119 |
| HT500 | 14 mm | 37 mm | 1.69 | 4.26 | 220 |
| HT500 | 14 mm | 68 mm | 3.11 | 782 | 405 |
| HT500 | 14 mm | 90 mm | 4.12 | 1035 | 536 |
| HT500 | 14 mm | 125 mm | 5.72 | 1438 | 744 |

# Synchronous Engineering

## Dyna-Sync Dimensions, Tolerances, etc.

**Warning - Do not use DYNA-SYNC Pulleys with belt speed exceeding 6500 fpm. May cause pulleys to fragment resulting in personal injury or property damage.**

### Concentricity and Face Run-Out Tolerances

| Runout (T.I.R.◊) | O.D. | Tol. |
|---|---|---|
| Radial | 8" and under | .005" |
| | For each add'l. inch of O.D. add .0005" | |
| Axial | 1" and Under | .001" |
| | For each add'l. inch of O.D. thru 10" add .001" | |
| | For each add'l. inch of O.D. over 10" add .0005" | |

◊Total Indicator Reading

### Reborable Pulley Bore Tolerances

| Bore Size | Tol. |
|---|---|
| 15/16" and Under | .0010" - .0000" |
| 1" to 1-15/16" | .0015" - .0000" |
| 2" to 2-15/16" | .0020" - .0000" |
| 3" and Over | .0025" - .0000" |

**Rebore Charges**–Reborable pulley alteration charges are shown in MLP Price Book. TAPER-LOCK pulleys accommodate all common tolerance variations found in commercial shafting.

**Balancing**–All DYNA-SYNC Pulleys have been given a careful static balance for operation up to 6500 FPM. When vibration is a problem, dynamic balancing is recommended – Consult price book MLP. (See Warning above)

**Special Pulleys**–In 1/5 thru 1-1/4" pitches, pulleys can be made to suit customer's specifications and may be furnished in sizes not listed on previous pages. Send us your inquiry.

### Standard Keyways

| Bore Range | Keyway |
|---|---|
| 5/16 - 7/16 Incl. | 3/32 x 3/64 |
| Over 7/16 - 9/16 Incl. | 1/8 x 1/16 |
| Over 9/16 - 7/8 Incl. | 3/16 x 3/32 |
| Over 7/8 - 1-1/4 Inc. | 1/4 x 1/8 |
| Over 1-1/4 - 1-3/8 Inc. | 5/16 x 5/32 |
| Over 1-3/8 - 1-3/4 Incl. | 3/8 x 3/16 |
| Over 1-3/4 - 2-1/4 Inc. | 1/2 x 1/4 |
| Over 2-1/4 - 2-3/4 Incl. | 5/8 x 5/16 |
| Over 2-3/4 - 3-1/4 Incl. | 3/4 x 3/8 |

Pulley Outside Diameter/Diameter Over Belt

| Pitch | Pulley O.D. | Diameter Over Belt |
|---|---|---|
| XL | P.D.- 0.02" | P.D.+0.08" |
| L | P.D.- 0.03" | P.D.+0.11" |
| H | P.D.- 0.054" | P.D.+0.11" |
| XH | P.D.- 0.11" | P.D.+0.27" |
| XXH | P.D.- 0.12" | – |

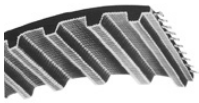
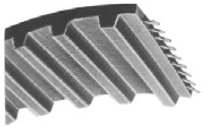
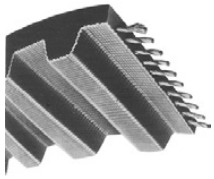
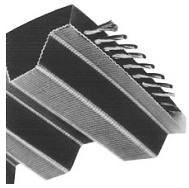
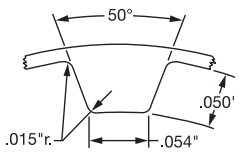
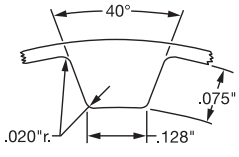
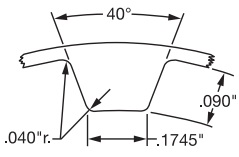
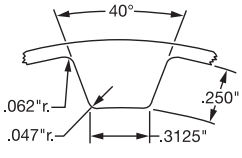
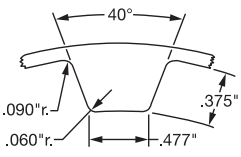
### NOMENCLATURE

**Pulleys**

| TL | 30 | H | 150 |
|---|---|---|---|
| Bush System | No. of Teeth | Pitch Code | Belt Width (x 100) =1.5" |

**Belts**

| 900 | H | 300 |
|---|---|---|
| Belt Lgth. (x10) = 90.0" | Pitch Code | Belt Width (x100) - 3.0" |

| 1/5" pitch (XL) | 3/8" pitch (L) | 1/2" pitch (H) | 7/8" pitch (XH) | 1-1/4" pitch (XXH) |
|---|---|---|---|---|
| |  |  |  |  |
| Typical uses are shown below the Tooth Dimensions Sketches . . . . | | | | |
|  |  |  |  |  |
| Business machines, instrumentation, sound equipment | FHP applications such as home appliances, small tools, pumps, blowers. | Machine tools, pumps, fans presses, motor-generator sets. | Medium-torque applications - such as heavy industrial equipment. | High torque applications- such as heavy industrial equipment |

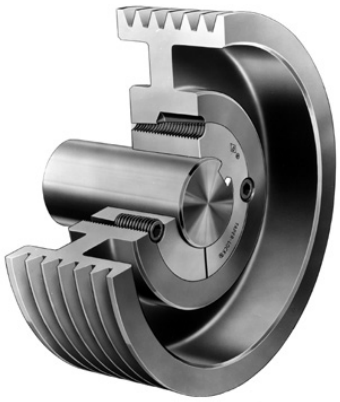
# Notes

# V-belt Products


| | |
|---|---|
| **PT4-2** | **Features/Benefits** |
| **PT4-3** | **V-belt sheaves** |
| PT4-3 | Taper-Lock sheaves |
| PT4-2 | Narrow |
| PT4-10 | Classical |
| PT4-15 | QD sheaves |
| PT4-14 | Narrow |
| PT4-21 | Classical |
| PT4-26 | Custom Made Sheaves |
| PT4-42 | Variable Pitch Sheaves |
| PT4-51 | Split Taper Sheaves |
| **PT4-64** | **V-Belts** |
| **PT4-67** | **Selection** |
| PT4-76 | FLEXLINK |
| PT4-78 | D-V Wedge |
| PT4-120 | Classical |
| **PT4-159** | **V-belt Installation** |
| **PT4-163** | **Engineering/Technical** |

# Features/Benefits

## Taper-Lock and QD Sheaves



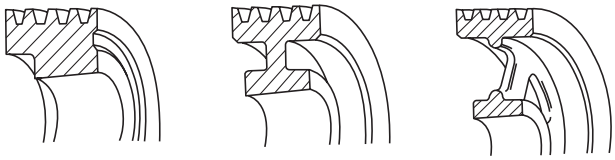
**TAPER-LOCK Sheaves**

**QD Sheaves**

Dodge sheaves are manufactured to meet or exceed joint RMA/ MPTA industry standards for smooth operation plus extended belt life.

Dodge manufacturing plants are certified to ISO 9002 quality standards.

### Sheave Construction




Dodge stock sheaves are manufactured from high quality gray iron. They are given a corrosion-resistant finish before packaging and shipping. Sheave construction follows the general format illustrated above: smaller sheaves are of the block construction, intermediate sizes of the web-type, and large sheaves of the arm- type construction.

### Sheave Balance

Stock sheaves are static balanced and sutable for most applications up to a rim speed of 7500 FPM for Block and 6500 FPM for Web and Arm-type. Dynamic (two-plane) balance is available at extra charge for applications that are more sensitive to vibration.

### V-Drive

- Isolates shock loads and vibration.
- Misalignment capability.
- Drive ratios of 6:1 or more possible.
- Low maintenance.
- No lubrication required.
- Quiet operation: Motors, etc. are normally at a higher db level than V-Drives.
- Efficiency of 93 percent is typical.

### WARNING

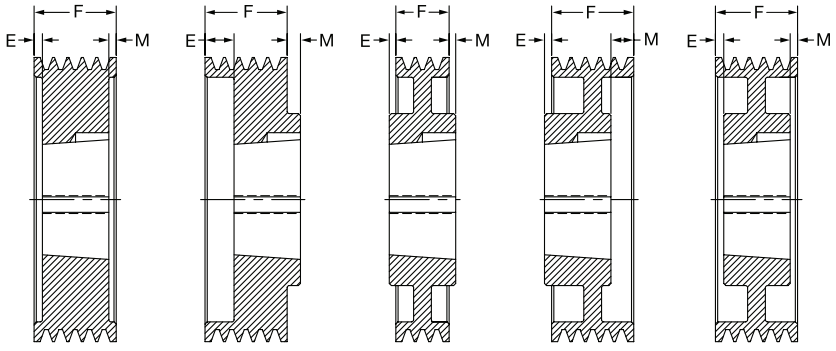
Stock sheaves are manufactured from gray iron, which is suitable for operation up to 6500 FPM for Arm and Web-type and 7500 FPM for block-type rim speed (e.g. 14, max. dia. on a 1750 RPM motor). Operation above this rim speed may cause sheave failure resulting in personnel and/ or equipment damage. Refer to the Made-To-Order sheave section for constructions that are suitable for operation at higher rim speeds.

### ARAMIDE CORD BELTS WARNING:

Because of the high horsepower rating of Aramide (Kevlar) cord belts, stock sheaves can not be used. Contact DODGE for made to order high capacity sheaves

# Selection/Dimensions

## 3V Taper-Lock Sheaves




**1-Groove** — F = **

| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
|---|---|---|---|---|---|---|
| 2.65 | **112124** | 1-3V2.65–1108 | .75 | A1 | .06 | 0 |
| 2.8 | **112125** | 1-3V2.8–1108 | .85 | A1 | .06 | 0 |
| 3.0 | **112126** | 1-3V3.0–1108 | 1.0 | A1 | .06 | 0 |
| 3.15 | **112127** | 1-3V3.15–1108 | 1.0 | A1 | .06 | 0 |
| 3.35 | **112175** | 1-3V3.35–1610 | 1.1 | A1 | .11 | .05 |
| 3.65 | **112176** | 1-3V3.65–1610 | 1.3 | A1 | .11 | .05 |
| 4.12 | **112177** | 1-3V4.12–1610 | 2.0 | A1 | .11 | .05 |
| 4.5 | **112178** | 1-3V4.5–1610 | 2.3 | A1 | .11 | .05 |
| 4.75 | **112179** | 1-3V4.75–1610 | 2.6 | A1 | .11 | .05 |
| 5.0 | **112180** | 1-3V5.0–1610 | 2.9 | A1 | .11 | .05 |
| 5.3 | **112181** | 1-3V5.3–1610 | 3.3 | A1 | .11 | .05 |
| 5.6 | **112182** | 1-3V5.6–1610 | 3.7 | A1 | .11 | .05 |
| 6.0 | **112183** | 1-3V6.0–1610 | 4.2 | B1 | 0 | .31 |
| 6.5 | **112184** | 1-3V6.5–1610 | 5.0 | B1 | 0 | .31 |
| 6.9 | **112185** | 1-3V6.9–1610 | 5.6 | B1 | 0 | .31 |
| 8.0 | **112008** | 1-3V8.0–2517 | 8.5 | B1 | 0 | 1.06 |
| 10.6 | **112009** | 1-3V10.6–2517 | 14.0 | B1 | 0 | 1.06 |
| 14.0 | **112010** | 1-3V14.0–2517 | 20.0 | C3 | 0 | .94 |
| 19.0 | **112011** | 1-3V19.0–3020 | 20.0 | C3 | 0 | .91 |

** 2.65–3.15=0.94, 3.35–5.6=1.06, 6.0–10.6=0.69, 14.0=0.81, 19.0=1.09

**2-Groove** — F = 1.09

| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
|---|---|---|---|---|---|---|
| 2.65 | **112128** | 2-3V2.65–1108 | 0.75 | A1 | .06 | .13 |
| 2.8 | **112129** | 2-3V2.8–1108 | 0.90 | A1 | .06 | .13 |
| 3.0 | **112186** | 2-3V3.0–1210 | 1.4 | A1 | .11 | .05 |
| 3.15 | **112187** | 2-3V3.15–1210 | 1.0 | A1 | .11 | .05 |
| 3.35 | **112188** | 2-3V3.35–1610 | 1.5 | A1 | .11 | .05 |
| 3.65 | **112189** | 2-3V3.65–1610 | 1.6 | A1 | .11 | .05 |
| 4.12 | **112190** | 2-3V4.12–1610 | 2.1 | A1 | .11 | .05 |
| 4.5 | **112191** | 2-3V4.5–1610 | 2.7 | A1 | .11 | .05 |
| 4.75 | **112192** | 2-3V4.75–1610 | 3.1 | A1 | .11 | .05 |
| 5.0 | **112193** | 2-3V5.0–1610 | 3.6 | A1 | .11 | .05 |
| 5.3 | **112194** | 2-3V5.3–1610 | 4.2 | A1 | 0 | .05 |
| 5.6 | **112195** | 2-3V5.6–1610 | 4.8 | A1 | 0 | .05 |
| 6.0 | **112196** | 2-3V6.0–1610 | 5.8 | A1 | .09 | 0 |
| 6.5 | **112197** | 2-3V6.5–1610 | 7.0 | A1 | .09 | 0 |
| 6.9 | **112198** | 2-3V6.9–1610 | 8.0 | A1 | 0 | .09 |
| 8.0 | **112023** | 2-3V8.0–2517 | 11.0 | B1 | 0 | .66 |
| 10.6 | **112024** | 2-3V10.6–2517 | 15.0 | B1 | 0 | .66 |
| 14.0 | **112025** | 2-3V14.0–2517 | 22.0 | C3 | 0 | .66 |
| 19.0 | **112026** | 2-3V19.0–3020 | 22.0 | C3 | 0 | .91 |
| 25.0 | **112027** | 2-3V25.0–3020 | 30.0 | C3 | .125 | .78 |

**3-Groove** — F = 1.50

| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
|---|---|---|---|---|---|---|
| 2.65 | **112130** | 3-3V2.65–1108 | 1.0 | A1 | .06 | .56 |
| 2.8 | **112131** | 3-3V2.8–1108 | 1.1 | A1 | .06 | .56 |
| 3.0 | **112199** | 3-3V3.0–1210 | 1.8 | A1 | .11 | .40 |
| 3.15 | **112200** | 3-3V3.15–1210 | 1.5 | A1 | .11 | .40 |
| 3.35 | **112201** | 3-3V3.35–1610 | 1.8 | A1 | .11 | .40 |
| 3.65 | **112202** | 3-3V3.65–1610 | 2.0 | A1 | .11 | .40 |
| 4.12 | **112203** | 3-3V4.12–1610 | 2.6 | A1 | 0 | .50 |
| 4.5 | **112204** | 3-3V4.5–1610 | 3.2 | A1 | 0 | .50 |
| 4.75 | **112205** | 3-3V4.75–1610 | 3.7 | A1 | 0 | .50 |
| 5.0 | **112206** | 3-3V5.0–1610 | 4.2 | A1 | 0 | .50 |
| 5.3 | **112207** | 3-3V5.3–1610 | 4.8 | A1 | 0 | .50 |
| 5.6 | **112208** | 3-3V5.6–1610 | 5.5 | A1 | 0 | .50 |
| 6.0 | **112038** | 3-3V6.0–2517 | 7.4 | B1 | 0 | .25 |
| 6.5 | **112144** | 3-3V6.5–2517 | 9.1 | B1 | 0 | .25 |
| 6.9 | **112145** | 3-3V6.9–2517 | 10.0 | B1 | 0 | .25 |
| 8.0 | **112039** | 3-3V8.0–2517 | 15.0 | B1 | 0 | .25 |
| 10.6 | **112040** | 3-3V10.6–2517 | 18.0 | C2 | 0 | .25 |
| 14.0 | **112041** | 3-3V14.0–2517 | 25.0 | C3 | 0 | .25 |
| 19.0 | **112042** | 3-3V19.0–3020 | 34.0 | C3 | 0 | .50 |
| 25.0 | **112043** | 3-3V25.0–3020 | 36.0 | C3 | 0 | .50 |
| 33.5 | **112044** | 3-3V33.5–3020 | 53.0 | C3 | .25 | .25 |

**4-Groove** — F = 1.90

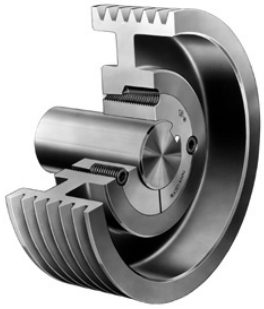
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
|---|---|---|---|---|---|---|
| 2.65 | **112132** | 4-3V2.65–1108 | 1.2 | A1 | .06 | .97 |
| 2.8 | **112133** | 4-3V2.8–1108 | 1.3 | A1 | .06 | .97 |
| 3.0 | **112209** | 4-3V3.0–1210 | 2.1 | A1 | .11 | .80 |
| 3.15 | **112210** | 4-3V3.15–1210 | 1.9 | A1 | .11 | .80 |
| 3.35 | **112211** | 4-3V3.35–1610 | 2.2 | A1 | .11 | .80 |
| 3.65 | **112212** | 4-3V3.65–1610 | 2.0 | A1 | .11 | .80 |
| 4.12 | **112213** | 4-3V4.12–1610 | 3.0 | A1 | 0 | .91 |
| 4.5 | **112214** | 4-3V4.5–1610 | 3.7 | A1 | 0 | .91 |
| 4.75 | **112215** | 4-3V4.75–1610 | 4.2 | A1 | 0 | .91 |
| 5.0 | **112216** | 4-3V5.0–1610 | 4.8 | A1 | 0 | .91 |
| 5.3 | **112217** | 4-3V5.3–1610 | 5.5 | A1 | 0 | .91 |
| 5.6 | **112218** | 4-3V5.6–1610 | 6.2 | A1 | 0 | .91 |
| 6.0 | **112053** | 4-3V6.0–2517 | 8.0 | A1 | 0 | .16 |
| 6.5 | **112150** | 4-3V6.5–2517 | 10.0 | A1 | 0 | .16 |
| 6.9 | **112151** | 4-3V6.9–2517 | 12.0 | A1 | 0 | .16 |
| 8.0 | **112054** | 4-3V8.0–2517 | 18.0 | A1 | 0 | .16 |
| 10.6 | **112055** | 4-3V10.6–2517 | 20.0 | A2 | 0 | .16 |
| 14.0 | **112056** | 4-3V14.0–2517 | 29.0 | A3 | 0 | .16 |
| 19.0 | **112275** | 4-3V19.0–3020 | 45.0 | C3 | 0 | .09 |
| 25.0 | **112276** | 4-3V25.0–3020 | 42.0 | D3 | .19 | .09 |
| 33.5 | **112059** | 4-3V33.5–3030 | 73.0 | C3 | .55 | .55 |

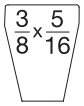
Δ Pitch diameter = O.D. – .05"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

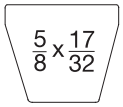
# Selection/Dimensions

## 3V Taper-Lock Sheaves

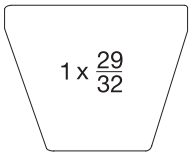





3V
Belt Profile




5V
Belt Profile




8V
Belt Profile

| 5-Groove | | | | | | F = 2.31 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 4.5 | **112102** | 5-3V4.5–1615 | 4.0 | A1 | 0 | .81 |
| 4.75 | **112103** | 5-3V4.75–2517 | 3.9 | A1 | .56 | 0 |
| 5.0 | **112061** | 5-3V5.0–2517 | 5.4 | A1 | .56 | 0 |
| 5.30 | **112062** | 5-3V5.3–2517 | 6.7 | A1 | .56 | 0 |
| 5.6 | **112063** | 5-3V5.6–2517 | 7.6 | A1 | .56 | 0 |
| 6.0 | **112064** | 5-3V6.0–2517 | 11.0 | A1 | .56 | 0 |
| 6.5 | **112152** | 5-3V6.5–2517 | 11.0 | A1 | 0 | .56 |
| 6.9 | **112153** | 5-3V6.9–2517 | 14.0 | A1 | 0 | .56 |
| 8.0 | **112065** | 5-3V8.0–2517 | 20.0 | A1 | 0 | .56 |
| 10.6 | **112066** | 5-3V10.6–2517 | 27.0 | A1 | 0 | .56 |
| 14.0 | **112067** | 5-3V14.0–2517 | 29.0 | A3 | 0 | .56 |
| 19.0 | **112277** | 5-3V19.0–3020 | 51.0 | A3 | 0 | .31 |
| 25.0 | **112069** | 5-3V25.0–3030 | 58.0 | C3 | 0 | .69 |
| 33.5 | **112070** | 5-3V33.5–3030 | 82.0 | C3 | .34 | .34 |

| 6-Groove | | | | | | F = 2.71 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 4.75 | **112071** | 6-3V4.75–2517 | 4.4 | A1 | .97 | 0 |
| 5.0 | **112072** | 6-3V5.0–2517 | 5.4 | A1 | .97 | 0 |
| 5.3 | **112073** | 6-3V5.3–2517 | 6.5 | A1 | .97 | 0 |
| 5.6 | **112074** | 6-3V5.6–2517 | 7.7 | A1 | .97 | 0 |
| 6.0 | **112075** | 6-3V6.0–2517 | 9.5 | A1 | 0 | .97 |
| 6.5 | **112154** | 6-3V6.5–2517 | 12.0 | A1 | 0 | .97 |
| 6.9 | **112155** | 6-3V6.9–2517 | 13.0 | A1 | 0 | .97 |
| 8.0 | **112076** | 6-3V8.0–2517 | 20.0 | A1 | 0 | .97 |
| 10.6 | **112077** | 6-3V10.6–2517 | 29.0 | A2 | 0 | .97 |
| 14.0 | **112078** | 6-3V14.0–2517 | 41.0 | A3 | .22 | .75 |
| 19.0 | **112278** | 6-3V19.0–3020 | 51.0 | A3 | 0 | .72 |
| 25.0 | **112080** | 6-3V25.0–3030 | 72.0 | C3 | 0 | .28 |
| 33.5 | **112081** | 6-3V33.5–3030 | 92.0 | C3 | .14 | .14 |

| 8-Groove | | | | | | F = 3.53 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 4.75 | **112082** | 8-3V4.75–2517 | 5.8 | A1 | 1.78 | 0 |
| 5.0 | **112083** | 8-3V5.0–2517 | 6.4 | A1 | 1.78 | 0 |
| 5.3 | **112084** | 8-3V5.3–2517 | 7.8 | A1 | 1.03 | .75 |
| 5.6 | **112085** | 8-3V5.6–2517 | 9.2 | A1 | .25 | 1.53 |
| 6.0 | **112086** | 8-3V6.0–2517 | 11.0 | A1 | .25 | 1.53 |
| 6.5 | **112156** | 8-3V6.5–2517 | 14.0 | A1 | .25 | 1.53 |
| 6.9 | **112157** | 8-3V6.9–2517 | 16.0 | A1 | .25 | 1.53 |
| 8.0 | **112087** | 8-3V8.0–3020 | 22.0 | A1 | .50 | 1.03 |
| 10.6 | **112088** | 8-3V10.6–3020 | 28.0 | A2 | .50 | 1.03 |
| 14.0 | **112279** | 8-3V14.0–3020 | 52.0 | A3 | .65 | .87 |
| 19.0 | **112090** | 8-3V19.0–3535 | 67.0 | A3 | 0 | .03 |
| 25.0 | **112091** | 8-3V25.0–3535 | 75.0 | A3 | 0 | .03 |
| 33.5 | **112092** | 8-3V33.5–4040 | 111.0 | C3 | .23 | .23 |

| 10-Groove | | | | | | F = 4.34 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 4.75 | **112093** | 10-3V4.75–2517 | 7.1 | A1 | 2.59 | 0 |
| 5.0 | **112094** | 10-3V5.0–2517 | 8.2 | A1 | 2.59 | 0 |
| 5.3 | **112158** | 10-3V5.3–2517 | 9.3 | A1 | 1.84 | .75 |
| 5.6 | **112159** | 10-3V5.6–2517 | 10.0 | A1 | .50 | 2.09 |
| 6.0 | **112095** | 10-3V6.0–2517 | 13.0 | A1 | .50 | 2.09 |
| 6.5 | **112160** | 10-3V6.5–2517 | 15.0 | A1 | .50 | 2.09 |
| 6.9 | **112161** | 10-3V6.9–2517 | 18.0 | A1 | .81 | 1.78 |
| 8.0 | **112096** | 10-3V8.0–3020 | 25.0 | A1 | .25 | 2.09 |
| 10.6 | **112097** | 10-3V10.6–3020 | 39.0 | A1 | .84 | 1.50 |
| 14.0 | **112098** | 10-3V14.0–3535 | 57.0 | A3 | 0 | .84 |
| 19.0 | **112099** | 10-3V19.0–3535 | 81.0 | A3 | 0 | .84 |
| 25.0 | **112100** | 10-3V25.0–4040 | 88.0 | A3 | 0 | .34 |
| 33.5 | **112101** | 10-3V33.5–4040 | 128.0 | A3 | .17 | .17 |

Δ Pitch diameter = O.D. – .05”

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## 5V Taper-Lock Sheaves

| 2-Groove | | | | | | F = 1.68 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 4.4++ | **111200** | 2-5V4.4–1610 | 3.0 | A1 | .06 | .62 |
| 4.65++ | **111201** | 2-5V4.65–1610 | 3.0 | A1 | .06 | .62 |
| 4.9++ | **111202** | 2-5V4.9–1610 | 4.0 | A1 | .06 | .62 |
| 5.2++ | **111203** | 2-5V5.2–1610 | 4.0 | A1 | .06 | .62 |
| 5.5++ | **111255** | 2-5V5.5–1610 | 5.0 | A1 | .06 | .62 |
| 5.9++ | **111204** | 2-5V5.9–1610 | 6.0 | A1 | .06 | .62 |
| 6.3++ | **111205** | 2-5V6.3–1610 | 7.0 | A1 | 0 | .68 |
| 6.7++ | **111206** | 2-5V6.7–1610 | 9.0 | A1 | 0 | .68 |
| 7.1 | **111132** | 2-5V7.1–2517 | 10.0 | B1 | 0 | .06 |
| 7.5 | **111133** | 2-5V7.5–2517 | 12.0 | B1 | 0 | .06 |
| 8.0 | **111134** | 2-5V8.0–2517 | 14.0 | B1 | 0 | .06 |
| 8.5 | **111135** | 2-5V8.5–2517 | 13.0 | C2 | 0 | .06 |
| 9.0 | **111136** | 2-5V9.0–2517 | 16.0 | C2 | 0 | .06 |
| 9.25 | **111137** | 2-5V9.25–3020 | 17.0 | B1 | 0 | .31 |
| 9.75 | **111138** | 2-5V9.75–3020 | 19.0 | B1 | 0 | .31 |
| 10.3 | **111139** | 2-5V10.3–3020 | 22.0 | C2 | 0 | .31 |
| 10.9 | **111140** | 2-5V10.9–3020 | 24.0 | C2 | 0 | .31 |
| 11.3 | **111207** | 2-5V11.3–3020 | 25.0 | C2 | 0 | .31 |
| 11.8 | **111141** | 2-5V11.8–3020 | 26.0 | C2 | 0 | .31 |
| 12.5 | **111142** | 2-5V12.5–3020 | 28.0 | C2 | 0 | .31 |
| 13.2 | **111143** | 2-5V13.2–3020 | 21.0 | C3 | 0 | .31 |
| 14.0 | **111144** | 2-5V14.0–3020 | 23.0 | C3 | 0 | .31 |
| 15.0 | **111145** | 2-5V15.0–3020 | 26.0 | C3 | 0 | .31 |
| 16.0 | **111146** | 2-5V16.0–3020 | 28.0 | C3 | 0 | .31 |
| 18.7 | **111208** | 2-5V18.7–3020 | 40.0 | C3 | 0 | .31 |
| 21.2 | **111147** | 2-5V21.2–3535 | 45.0 | C3 | .37 | 1.44 |
| 23.6 | **111209** | 2-5V23.6–3535 | 56.0 | C3 | .25 | 1.56 |
| 28.0 | **111148** | 2-5V28.0–3535 | 68.0 | C3 | .37 | 1.43 |

| 3-Groove | | | | | | F = 2.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 4.4++ | **111210** | 3-5V4.4–1610 | 4.0 | A1 | 1.38 | 0 |
| 4.65++ | **111211** | 3-5V4.65–1610 | 5.0 | A1 | .06 | 1.31 |
| 4.9++ | **111212** | 3-5V4.9–1610 | 5.0 | A1 | .06 | 1.31 |
| 5.2++ | **111213** | 3-5V5.2–1610 | 6.0 | A1 | .06 | 1.31 |
| 5.5++ | **111256** | 3-5V5.5–1610 | 6.0 | A1 | .06 | 1.31 |
| 5.9++ | **111214** | 3-5V5.9–2517 | 7.0 | A1 | 0 | .62 |
| 6.3++ | **111215** | 3-5V6.3–2517 | 9.0 | A1 | 0 | .62 |
| 6.7++ | **111216** | 3-5V6.7–2517 | 10.0 | A1 | 0 | .62 |
| 7.1 | **111001** | 3-5V7.1–2517 | 13.0 | A1 | 0 | .62 |
| 7.5 | **111002** | 3-5V7.5–2517 | 15.0 | A1 | 0 | .62 |
| 8.0 | **111003** | 3-5V8.0–2517 | 18.0 | A1 | 0 | .62 |
| 8.5 | **111004** | 3-5V8.5–2517 | 20.0 | A1 | 0 | .62 |
| 9.0 | **111005** | 3-5V9.0–2517 | 20.0 | A1 | 0 | .62 |
| 9.25 | **111099** | 3-5V9.25–3020 | 21.0 | A1 | 0 | .37 |
| 9.75 | **111100** | 3-5V9.75–3020 | 24.0 | A2 | 0 | .37 |
| 10.3 | **111101** | 3-5V10.3–3020 | 25.0 | A2 | 0 | .37 |
| 10.9 | **111102** | 3-5V10.9–3020 | 27.0 | A2 | 0 | .37 |
| 11.3 | **111217** | 3-5V11.3–3020 | 28.0 | A2 | 0 | .37 |
| 11.8 | **111006** | 3-5V11.8–3020 | 29.0 | A2 | 0 | .37 |
| 12.5 | **111103** | 3-5V12.5–3020 | 32.0 | A2 | 0 | .37 |
| 13.2 | **111007** | 3-5V13.2–3020 | 34.0 | A3 | 0 | .37 |
| 14.0 | **111008** | 3-5V14.0–3020 | 36.0 | A3 | 0 | .37 |
| 15.0 | **111009** | 3-5V15.0–3020 | 36.0 | A3 | 0 | .37 |
| 16.0 | **111010** | 3-5V16.0–3020 | 38.0 | A3 | 0 | .37 |
| 18.7 | **111218** | 3-5V18.7–3020 | 52.0 | A3 | 0 | .37 |
| 21.2 | **111011** | 3-5V21.2–3535 | 60.0 | C3 | 0 | 1.12 |
| 23.6 | **111219** | 3-5V23.6–3535 | 68.0 | C3 | 0 | 1.12 |
| 28.0 | **111012** | 3-5V28.0–3535 | 83.0 | C3 | 0 | 1.12 |
| 31.5 | **111220** | 3-5V31.5–3535 | 96.0 | C3 | .34 | .78 |
| 37.5 | **111013** | 3-5V37.5–4040 | 124.0 | C3 | .50 | 1.12 |
| 50.0 | **111014** | 3-5V50.0–4040 | 186.0 | C3 | .50 | 1.12 |

Δ Pitch diameter = O.D. – .10"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See drawings page PT4-2.**

++ 5VX Belts only on these sizes.

# Selection/Dimensions

## 5V Taper-Lock Sheaves

| 4-Groove | | | | | | F = 3.06 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 4.4++ | **111221** | 4-5V4.4–1610 | 6.0 | A1 | 2.06 | 0 |
| 4.65++ | **111222** | 4-5V4.65–1610 | 6.0 | A1 | 2.06 | 0 |
| 4.9++ | **111223** | 4-5V4.9–1610 | 6.0 | A1 | 2.06 | 0 |
| 5.2++ | **111224** | 4-5V5.2–1610 | 7.0 | A1 | 2.06 | 0 |
| 5.5++ | **111225** | 4-5V5.5–2517 | 8.0 | A1 | 1.31 | 0 |
| 5.9++ | **111226** | 4-5V5.9–2517 | 10.0 | A1 | 1.31 | 0 |
| 6.3++ | **111227** | 4-5V6.3–2517 | 11.0 | A1 | 0 | 1.31 |
| 6.7++ | **111228** | 4-5V6.7–2517 | 12.0 | A1 | 0 | 1.31 |
| 7.1 | **111020** | 4-5V7.1–2517 | 15.0 | A1 | 0 | 1.31 |
| 7.5 | **111021** | 4-5V7.5–2517 | 18.0 | A1 | 0 | 1.31 |
| 8.0 | **111022** | 4-5V8.0–2517 | 21.0 | A1 | 0 | 1.31 |
| 8.5 | **111023** | 4-5V8.5–2517 | 20.0 | A1 | 0 | 1.31 |
| 9.0 | **111035** | 4-5V9.0–2517 | 22.0 | A1 | 0 | 1.31 |
| 9.25 | **111104** | 4-5V9.25–3020 | 27.0 | A1 | 0 | 1.06 |
| 9.75 | **111105** | 4-5V9.75–3020 | 31.0 | A1 | 0 | 1.06 |
| 10.3 | **111106** | 4-5V10.3–3020 | 28.0 | A1 | 0 | 1.06 |
| 10.9 | **111107** | 4-5V10.9–3020 | 31.0 | A1 | 0 | 1.06 |
| 11.3 | **111229** | 4-5V11.3–3020 | 32.0 | A1 | 0 | 1.06 |
| 11.8 | **111025** | 4-5V11.8–3020 | 34.0 | A2 | 0 | 1.06 |
| 12.5 | **112280** | 4-5V12.5–3020 | 40.0 | A2 | 0 | 1.06 |
| 13.2 | **112281** | 4-5V13.2–3020 | 42.0 | A3 | 0 | 1.06 |
| 14.0 | **111028** | 4-5V14.0–3535 | 48.0 | C2 | .43 | 0 |
| 15.0 | **111029** | 4-5V15.0–3535 | 52.0 | C3 | .43 | 0 |
| 16.0 | **111030** | 4-5V16.0–3535 | 53.0 | C3 | .43 | 0 |
| 18.7 | **111230** | 4-5V18.7–3535 | 63.0 | C3 | .43 | 0 |
| 21.2 | **111031** | 4-5V21.2–3535 | 70.0 | C3 | 0 | .43 |
| 23.6 | **111231** | 4-5V23.6–3535 | 79.0 | C3 | 0 | .43 |
| 28.0 | **111032** | 4-5V28.0–3535 | 98.0 | C3 | 0 | .43 |
| 31.5 | **111232** | 4-5V31.5–3535 | 114.0 | C3 | 0 | .43 |
| 37.5 | **111033** | 4-5V37.5–4040 | 148.0 | C3 | 0 | .93 |
| 50.0 | **111034** | 4-5V50.0–4040 | 243.0 | C3 | 0 | .93 |

| 5-Groove | | | | | | F = 3.75 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 5.9++ | **111233** | 5-5V5.9–2517 | 11.0 | A1 | .56 | 1.43 |
| 6.3++ | **111234** | 5-5V6.3–2517 | 12.0 | A1 | .56 | 1.43 |
| 6.7++ | **111235** | 5-5V6.7–2517 | 13.0 | A1 | .56 | 1.43 |
| 7.1 | **111038** | 5-5V7.1–3020 | 16.0 | A1 | .50 | 1.25 |
| 7.5 | **111039** | 5-5V7.5–3020 | 19.0 | A1 | .50 | 1.25 |
| 8.0 | **111040** | 5-5V8.0–3020 | 22.0 | A1 | .50 | 1.25 |
| 8.5 | **111041** | 5-5V8.5–3020 | 26.0 | A1 | .50 | 1.25 |
| 9.0 | **111042** | 5-5V9.0–3020 | 30.0 | A1 | .50 | 1.25 |
| 9.25 | **111108** | 5-5V9.25–3020 | 31.0 | A1 | .50 | 1.25 |
| 9.75 | **111109** | 5-5V9.75–3020 | 36.0 | A1 | .50 | 1.25 |
| 10.3 | **111110** | 5-5V10.3–3020 | 33.0 | A1 | .50 | 1.25 |
| 10.9 | **111111** | 5-5V10.9–3020 | 36.0 | A1 | .50 | 1.25 |
| 11.3 | **111236** | 5-5V11.3–3020 | 38.0 | A1 | .50 | 1.25 |
| 11.8 | **111043** | 5-5V11.8–3020 | 40.0 | A2 | .50 | 1.25 |
| 12.5 | **111044** | 5-5V12.5–3535 | 54.0 | A2 | 0 | .25 |
| 13.2 | **111045** | 5-5V13.2–3535 | 57.0 | A2 | 0 | .25 |
| 14.0 | **111046** | 5-5V14.0–3535 | 57.0 | A3 | 0 | .25 |
| 15.0 | **111047** | 5-5V15.0–3535 | 65.0 | A3 | 0 | .25 |
| 16.0 | **111048** | 5-5V16.0–3535 | 70.0 | A3 | 0 | .25 |
| 18.7 | **111237** | 5-5V18.7–3535 | 84.0 | A3 | 0 | .25 |
| 21.2 | **111049** | 5-5V21.2–4040 | 81.0 | C3 | 0 | .25 |
| 23.6 | **111238** | 5-5V23.6–4040 | 92.0 | C3 | 0 | .25 |
| 28.0 | **111050** | 5-5V28.0–4040 | 115.0 | C3 | 0 | .25 |
| 31.5 | **111239** | 5-5V31.5–4040 | 155.0 | C3 | 0 | .25 |
| 37.5 | **111051** | 5-5V37.5–4040 | 190.0 | C3 | 0 | .25 |
| 50.0 | **111052** | 5-5V50.0–4545 | 280.0 | C3 | 0 | .75 |

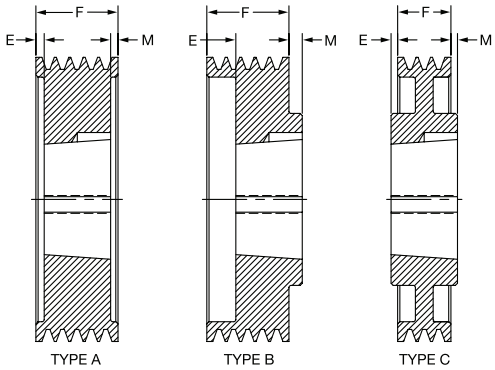
Δ Pitch diameter = O.D. – .10"

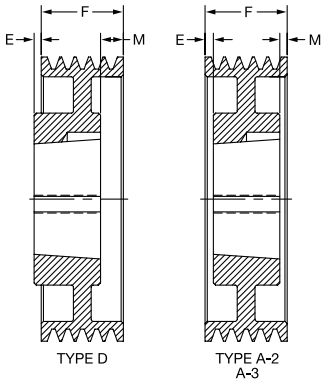
‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See drawings page PT4-2.**

++ 5VX Belts only on these sizes.

# Selection/Dimensions

## 5V Taper-Lock Sheaves




| 6-Groove | | | | | | F = 4.43 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 5.9++ | **111240** | 6-5V5.9–2517 | 13.0 | A1 | 1.12 | 1.56 |
| 6.3++ | **111241** | 6-5V6.3–2517 | 13.0 | A1 | .81 | 1.87 |
| 6.7++ | **111242** | 6-5V6.7–2517 | 15.0 | A1 | .81 | 1.87 |
| 7.1 | **111056** | 6-5V7.1–3020 | 18.0 | A1 | .75 | 1.68 |
| 7.5 | **111057** | 6-5V7.5–3020 | 21.0 | A1 | .75 | 1.68 |
| 8.0 | **111058** | 6-5V8.0–3020 | 24.0 | A1 | .75 | 1.68 |
| 8.5 | **111059** | 6-5V8.5–3020 | 28.0 | A1 | .75 | 1.68 |
| 9.0 | **111060** | 6-5V9.0–3020 | 32.0 | A1 | .75 | 1.68 |
| 9.25 | **111112** | 6-5V9.25–3535 | 41.0 | A1 | 0 | .93 |
| 9.75 | **111113** | 6-5V9.75–3535 | 48.0 | A1 | 0 | .93 |
| 10.3 | **111114** | 6-5V10.3–3535 | 56.0 | A1 | 0 | .93 |
| 10.9 | **111115** | 6-5V10.9–3535 | 65.0 | A1 | 0 | .93 |
| 11.3 | **111243** | 6-5V11.3–3535 | 53.0 | A1 | 0 | .93 |
| 11.8 | **111061** | 6-5V11.8–3535 | 59.0 | A2 | 0 | .93 |
| 12.5 | **111062** | 6-5V12.5–3535 | 59.0 | A2 | 0 | .93 |
| 13.2 | **111063** | 6-5V13.2–3535 | 67.0 | A2 | 0 | .93 |
| 14.0 | **111064** | 6-5V14.0–3535 | 67.0 | A2 | 0 | .93 |
| 15.0 | **111065** | 6-5V15.0–4040 | 82.0 | A2 | 0 | .43 |
| 16.0 | **111066** | 6-5V16.0–4040 | 84.0 | A2 | 0 | .43 |
| 18.7 | **111244** | 6-5V18.7–4040 | 97.0 | A2 | 0 | .43 |
| 21.2 | **111067** | 6-5V21.2–4040 | 91.0 | A3 | 0 | .43 |
| 23.6 | **111245** | 6-5V23.6–4040 | 124.0 | A3 | 0 | .43 |
| 28.0 | **111068** | 6-5V28.0–4040 | 149.0 | A3 | 0 | .43 |
| 31.5 | **111246** | 6-5V31.5–4040 | 171.0 | A3 | 0 | .43 |
| 37.5 | **111069** | 6-5V37.5–4545 | 214.0 | C3 | 0 | .06 |
| 50.0 | **111070** | 6-5V50.0–4545 | 336.0 | D3 | .50 | .56 |

| 8-Groove | | | | | | F = 5.81 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 7.1 | **111075** | 8-5V7.1–3030 | 24.0 | A1 | 1.00 | 1.81 |
| 7.5 | **111076** | 8-5V7.5–3030 | 28.0 | A1 | 1.00 | 1.81 |
| 8.0 | **111077** | 8-5V8.0–3030 | 33.0 | A1 | 1.00 | 1.81 |
| 8.5 | **111078** | 8-5V8.5–3030 | 38.0 | A1 | 1.00 | 1.81 |
| 9.0 | **111079** | 8-5V9.0–3535 | 44.0 | A1 | 1.00 | 1.31 |
| 9.25 | **111116** | 8-5V9.25–3535 | 45.0 | A1 | 1.00 | 1.31 |
| 9.75 | **111117** | 8-5V9.75–3535 | 51.0 | A1 | 1.00 | 1.31 |
| 10.3 | **111118** | 8-5V10.3–3535 | 60.0 | A1 | 1.00 | 1.31 |
| 10.9 | **111119** | 8-5V10.9–3535 | 68.0 | A1 | 1.00 | 1.31 |
| 11.3 | **111247** | 8-5V11.3–3535 | 57.0 | A1 | 1.00 | 1.31 |
| 11.8 | **111080** | 8-5V11.8–3535 | 63.0 | A1 | 1.00 | 1.31 |
| 12.5 | **111081** | 8-5V12.5–4040 | 102.0 | A1 | .25 | 1.56 |
| 13.2 | **111082** | 8-5V13.2–4040 | 82.0 | A1 | .25 | 1.56 |
| 14.0 | **111083** | 8-5V14.0–4040 | 87.0 | A1 | .25 | 1.56 |
| 15.0 | **111084** | 8-5V15.0–4040 | 97.0 | A2 | .25 | 1.56 |
| 16.0 | **111085** | 8-5V16.0–4040 | 102.0 | A2 | .25 | 1.56 |
| 18.7 | **111248** | 8-5V18.7–4040 | 112.0 | A3 | .25 | 1.56 |
| 21.2 | **111086** | 8-5V21.2–4040 | 129.0 | A3 | .25 | 1.56 |
| 23.6 | **111249** | 8-5V23.6–4040 | 145.0 | A3 | .25 | 1.56 |
| 28.0 | **111087** | 8-5V28.0–4545 | 178.0 | A3 | .25 | 1.06 |
| 31.5 | **111250** | 8-5V31.5–4545 | 228.0 | A3 | .25 | 1.06 |
| 37.5 | **111088** | 8-5V37.5–4545 | 279.0 | A3 | .25 | 1.06 |
| 50.0 | **111089** | 8-5V50.0–4545 | 403.0 | A3 | .25 | 1.06 |

| 10-Groove | | | | | | F = 7.18 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 8.0 | **111120** | 10-5V8.0–3030 | 36.0 | A1 | 1.00 | 3.18 |
| 8.5 | **111121** | 10-5V8.5–3030 | 42.0 | A1 | 1.00 | 3.18 |
| 9.0 | **111122** | 10-5V9.0–3535 | 47.0 | A1 | 1.00 | 2.68 |
| 9.25 | **111123** | 10-5V9.25–4040 | 46.0 | A1 | 1.00 | 2.18 |
| 9.75 | **111124** | 10-5V9.75–4040 | 54.0 | A1 | 1.00 | 2.18 |
| 10.3 | **111125** | 10-5V10.3–4040 | 64.0 | A1 | 1.00 | 2.18 |
| 10.9 | **111126** | 10-5V10.9–4040 | 73.0 | A1 | 1.00 | 2.18 |
| 11.3 | **111251** | 10-5V11.3–4040 | 80.0 | A1 | 1.00 | 2.18 |
| 11.8 | **111127** | 10-5V11.8–4040 | 92.0 | A1 | 1.00 | 2.18 |
| 12.5 | **111090** | 10-5V12.5–4040 | 107.0 | A1 | .38 | 2.81 |
| 13.2 | **111091** | 10-5V13.2–4040 | 107.0 | A1 | .38 | 2.81 |
| 14.0 | **111092** | 10-5V14.0–4545 | 106.0 | A1 | .75 | 1.93 |
| 15.0 | **111093** | 10-5V15.0–4545 | 116.0 | A1 | .69 | 2.00 |
| 16.0 | **111094** | 10-5V16.0–4545 | 126.0 | A2 | 0 | 2.68 |
| 18.7 | **111252** | 10-5V18.7–4545 | 116.0 | A2 | .50 | 2.18 |
| 21.2 | **111095** | 10-5V21.2–4545 | 149.0 | D3 | .50 | 3.18 |
| 23.6 | **111253** | 10-5V23.6–4545 | 191.0 | A3 | .50 | 2.18 |
| 28.0 | **111096** | 10-5V28.0–4545 | 227.0 | A3 | .75 | 1.93 |
| 31.5 | **111254** | 10-5V31.5–4545 | 259.0 | A3 | .75 | 1.93 |
| 37.5 | **111097** | 10-5V37.5–4545 | 320.0 | A3 | .75 | 1.93 |
| 50.0 | **111098** | 10-5V50.0–5050 | 471.0 | A3 | .75 | 1.43 |

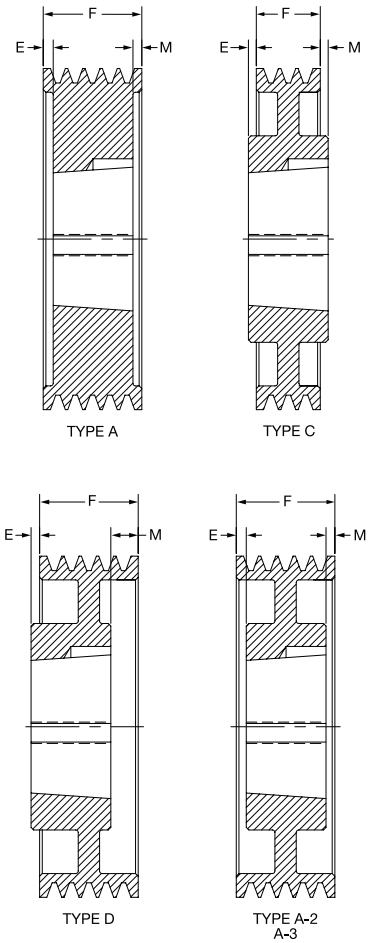
Δ Pitch diameter = O.D. – .10"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

++ 5VX Belts only on these sizes.

# Selection/Dimensions

## 8V Taper-Lock Sheaves




| 4-Groove | | | | | | F = 4.87 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 12.5 | **110003** | 4-8V12.5–4040 | 83.0 | A1 | 0 | .87 |
| 13.2 | **110008** | 4-8V13.2–4040 | 125.0 | A2 | 0 | .87 |
| 14.0 | **110950** | 4-8V14.0–4040 | 88.0 | A2 | 0 | .87 |
| 15.0 | **110951** | 4-8V15.0–4040 | 111.0 | A2 | .50 | .37 |
| 16.0 | **110952** | 4-8V16.0–4040 | 105.0 | A2 | .44 | .44 |
| 17.0 | **110953** | 4-8V17.0–4040 | 150.0 | A2 | 0 | .87 |
| 18.0 | **110954** | 4-8V18.0–4040 | 150.0 | A2 | 0 | .87 |
| 19.0 | **110955** | 4-8V19.0–4040 | 146.0 | A2 | 0 | .87 |
| 20.0 | **110015** | 4-8V20.0–4545 | 145.0 | A2 | 0 | .37 |
| 21.2 | **110016** | 4-8V21.2–4545 | 138.0 | A2 | 0 | .37 |
| 22.4 | **110004** | 4-8V22.4–4545 | 147.0 | A2 | 0 | .37 |
| 24.8 | **110681** | 4-8V24.8–5050 | 191.0 | D3 | .94 | .81 |
| 30.0 | **110957** | 4-8V30.0–5050 | 233.0 | D3 | 1.12 | 1.00 |
| 35.5 | **110900** | 4-8V35.5–5050 | 278.0 | D3 | 1.12 | 1.00 |
| 40.0 | **110006** | 4-8V40.0–5050 | 324.0 | D3 | 1.12 | 1.00 |
| 44.5 | **110002** | 4-8V44.5–5050 | 367.0 | D3 | .25 | .12 |
| 53.0 | **110007** | 4-8V53.0–5050 | 469.0 | B3 | 1.12 | 1.25 |

| 5-Groove | | | | | | F = 6.00 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 12.5 | **110958** | 5-8V12.5–4040 | 96.0 | A2 | .18 | 1.81 |
| 13.2 | **110959** | 5-8V13.2–4040 | 100.0 | A2 | .18 | 1.81 |
| 14.0 | **110960** | 5-8V14.0–4040 | 107.0 | A2 | .18 | 1.81 |
| 15.0 | **110961** | 5-8V15.0–4040 | 106.0 | A2 | .18 | 1.81 |
| 16.0 | **110962** | 5-8V16.0–4040 | 110.0 | A2 | .50 | 1.50 |
| 17.0 | **110023** | 5-8V17.0–4545 | 120.0 | A3 | 0 | 1.50 |
| 18.0 | **110024** | 5-8V18.0–4545 | 180.0 | A3 | 0 | 1.50 |
| 19.0 | **110025** | 5-8V19.0–4545 | 200.0 | A3 | 0 | 1.50 |
| 20.0 | **110026** | 5-8V20.0–4545 | 145.0 | A3 | 0 | 1.50 |
| 21.2 | **110027** | 5-8V21.2–4545 | 185.0 | A3 | 0 | 1.50 |
| 22.4 | **110028** | 5-8V22.4–4545 | 176.0 | A3 | 0 | 1.50 |
| 24.8 | **110682** | 5-8V24.8–5050 | 206.0 | A3 | 0 | 1.50 |
| 30.0 | **110029** | 5-8V30.0–5050 | 319.0 | D3 | .62 | 1.62 |
| 35.5 | **110046** | 5-8V35.5–5050 | 399.0 | A3 | 0 | 1.00 |
| 40.0 | **110017** | 5-8V40.0–5050 | 350.0 | A3 | 0 | 1.00 |
| 44.5 | **110047** | 5-8V44.5–5050 | 572.0 | A3 | 0 | 1.00 |
| 53.0 | **110018** | 5-8V53.0–5050 | 565.0 | A3 | 0 | 1.00 |

| 6-Groove | | | | | | F = 7.12 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 12.5 | **110964** | 6-8V12.5–4040 | 98.0 | A1 | 1.00 | 2.12 |
| 13.2 | **110965** | 6-8V13.2–4040 | 114.0 | A2 | 1.00 | 2.12 |
| 14.0 | **110966** | 6-8V14.0–4040 | 134.0 | A2 | 1.00 | 2.12 |
| 15.0 | **110033** | 6-8V15.0–4545 | 146.0 | A2 | .50 | 2.12 |
| 16.0 | **110034** | 6-8V16.0–4545 | 140.0 | A2 | .12 | 2.50 |
| 17.0 | **110035** | 6-8V17.0–4545 | 143.0 | A2 | .50 | 2.12 |
| 18.0 | **110036** | 6-8V18.0–4545 | 164.0 | A2 | .50 | 2.12 |
| 19.0 | **110037** | 6-8V19.0–4545 | 166.0 | A3 | .50 | 2.12 |
| 20.0 | **110967** | 6-8V20.0–5050 | 144.0 | D3 | 1.31 | 3.43 |
| 21.2 | **110968** | 6-8V21.2–5050 | 201.0 | A3 | .19 | 1.94 |
| 22.4 | **110969** | 6-8V22.4–5050 | 212.0 | D3 | 1.13 | 3.25 |
| 24.8 | **110683** | 6-8V24.8–5050 | 236.0 | D3 | .13 | 2.25 |
| 30.0 | **110041** | 6-8V30.0–5050 | 292.0 | A3 | .06 | 2.06 |
| 35.5 | **110049** | 6-8V35.5–5050 | 363.0 | A3 | .50 | 1.62 |
| 40.0 | **110042** | 6-8V40.0–5050 | 423.0 | A3 | .50 | 1.62 |
| 44.5 | **110064** | 6-8V44.5–5050 | 485.0 | A3 | .50 | 1.62 |
| 53.0 | **110043** | 6-8V53.0–5050 | 621.0 | A3 | .50 | 1.62 |

Δ Pitch diameter = O.D. – .20"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See drawings page PT4-2.**

# Selection/Dimensions

## 8V Taper-Lock Sheaves

| 8-Groove | | | | | | F = 9.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 12.5 | **110050** | 8-8V12.5–4545 | 150.0 | A1 | 1.50 | 3.37 |
| 13.2 | **110051** | 8-8V13.2–4545 | 141.0 | A2 | 1.50 | 3.37 |
| 14.0 | **110052** | 8-8V14.0–4545 | 160.0 | A2 | 1.50 | 3.37 |
| 15.0 | **110053** | 8-8V15.0–4545 | 185.0 | A2 | 1.50 | 3.37 |
| 16.0 | **110054** | 8-8V16.0–4545 | 168.0 | A2 | 1.50 | 3.37 |
| 17.0 | **110971** | 8-8V17.0–5050 | 179.0 | A2 | .18 | 4.18 |
| 18.0 | **110056** | 8-8V18.0–5050 | 204.0 | A2 | .18 | 4.18 |
| 19.0 | **110057** | 8-8V19.0–5050 | 223.0 | A2 | .18 | 4.18 |
| 20.0 | **110058** | 8-8V20.0–5050 | 178.0 | A2 | .18 | 4.18 |
| 21.2 | **110059** | 8-8V21.2–5050 | 192.0 | A3 | .18 | 4.18 |
| 22.4 | **110060** | 8-8V22.4–5050 | 249.0 | A3 | .18 | 4.18 |
| 24.8 | **110065** | 8-8V24.8–5050 | 285.0 | A3 | 2.12 | 2.25 |
| 30.0 | **110061** | 8-8V30.0–5050 | 356.0 | A3 | 1.18 | 3.18 |
| 35.5 | **110066** | 8-8V35.5–5050 | 441.0 | A3 | 1.00 | 3.37 |
| 40.0 | **110062** | 8-8V40.0–5050 | 517.0 | A3 | 1.00 | 3.37 |
| 44.5 | **110973** | 8-8V44.5–6050 | 596.0 | A3 | 1.00 | 3.37 |
| 53.0 | **110974** | 8-8V53.0–6050 | 759.0 | A3 | 1.00 | 3.37 |

| 10-Groove | | | | | | F = 11.62 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 12.5 | **- - -** | 10-8V12.5–4545 | - - - | A1 | 2.06 | 5.06 |
| 13.2 | **110071** | 10-8V13.2–4545 | 150.0 | A1 | 2.06 | 5.06 |
| 14.0 | **110072** | 10-8V14.0–4545 | 175.0 | A2 | 2.06 | 5.06 |
| 15.0 | **110073** | 10-8V15.0–5050 | 175.0 | A2 | 1.31 | 4.68 |
| 16.0 | **110074** | 10-8V16.0–5050 | 200.0 | A2 | 2.18 | 4.43 |
| 17.0 | **110075** | 10-8V17.0–5050 | 210.0 | A2 | 2.25 | 4.37 |
| 18.0 | **110076** | 10-8V18.0–5050 | 220.0 | A2 | 2.25 | 4.37 |
| 19.0 | **110077** | 10-8V19.0–5050 | 240.0 | A3 | 2.25 | 4.37 |
| 20.0 | **110078** | 10-8V20.0–5050 | 211.0 | A3 | 2.25 | 4.37 |
| 21.2 | **110079** | 10-8V21.2–5050 | 270.0 | A3 | 2.50 | 4.12 |
| 22.4 | **110080** | 10-8V22.4–5050 | 291.0 | A3 | 2.25 | 4.37 |
| 24.8 | **110068** | 10-8V24.8–5050 | 328.0 | A3 | 2.37 | 4.25 |
| 30.0 | **110081** | 10-8V30.0–5050 | 416.0 | A3 | 2.25 | 4.37 |
| 35.5 | **110976** | 10-8V35.5–6050 | 517.0 | A3 | 2.25 | 4.37 |
| 40.0 | **110977** | 10-8V40.0–6050 | 606.0 | A3 | 2.25 | 4.37 |
| 44.5 | **110978** | 10-8V44.5–6050 | 701.0 | A3 | 2.25 | 4.37 |
| 53.0 | **110979** | 10-8V53.0–6050 | 898.0 | A3 | 2.25 | 4.37 |

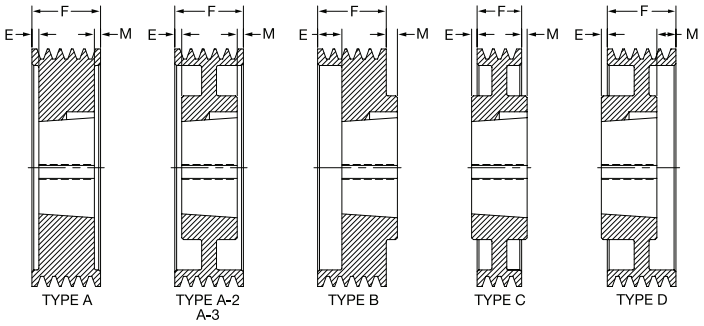
| 12-Groove | | | | | | F = 13.87 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 12.5 | **110980** | 12-8V12.5–5050 | 153.0 | A1 | 3.18 | 5.68 |
| 13.2 | **110981** | 12-8V13.2–5050 | 180.0 | A1 | 3.00 | 5.87 |
| 14.0 | **110982** | 12-8V14.0–5050 | 186.0 | A1 | 3.18 | 5.68 |
| 15.0 | **110983** | 12-8V15.0–5050 | 221.0 | A2 | 1.88 | 7.00 |
| 16.0 | **110984** | 12-8V16.0–5050 | 247.0 | A2 | 1.88 | 7.00 |
| 17.0 | **110985** | 12-8V17.0–5050 | 267.0 | A2 | 3.50 | 5.38 |
| 18.0 | **110986** | 12-8V18.0–5050 | 274.0 | A2 | 3.53 | 5.34 |
| 19.0 | **110987** | 12-8V19.0–5050 | 306.0 | A2 | 2.25 | 6.62 |
| 20.0 | **110988** | 12-8V20.0–5050 | 249.0 | A3 | 2.25 | 6.62 |
| 21.2 | **110989** | 12-8V21.2–5050 | 294.0 | A3 | 2.25 | 6.62 |
| 22.4 | **110990** | 12-8V22.4–5050 | 337.0 | A3 | 2.25 | 6.62 |
| 24.8 | **110991** | 12-8V24.8–5050 | 380.0 | A3 | 5.37 | 3.50 |
| 30.0 | **110992** | 12-8V30.0–6050 | 482.0 | A3 | 4.00 | 4.87 |
| 35.5 | **110993** | 12-8V35.5–6050 | 597.0 | A3 | 4.00 | 4.87 |
| 40.0 | **110994** | 12-8V40.0–6050 | 702.0 | A3 | 4.00 | 4.87 |
| 44.5 | **110995** | 12-8V44.5–6050 | 814.0 | A3 | 4.00 | 4.87 |
| 53.0 | **110996** | 12-8V53.0–7060 | 1077.0 | A3 | 5.00 | 2.87 |

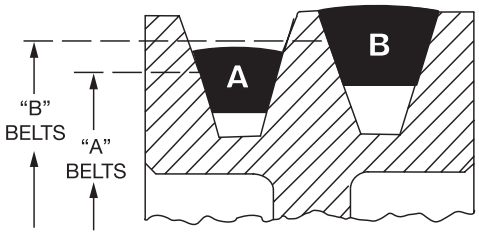
Δ Pitch diameter = O.D. – .20"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See drawings page PT4-2.**

# Selection/Dimensions

## A/B Taper-Lock Sheaves




Drawing illustrates how either A or B belts may be used with Dual Duty groove sheaves.

**1-Groove** — F = **

| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
|---|---|---|---|---|---|---|
| 3.75 | **118190** | 1A3.0B3.4-1210 | 1.5 | A1 | .11 | .04 |
| 3.95 | **118191** | 1A3.2B3.6-1210 | 1.7 | A1 | .11 | .04 |
| 4.15 | **118301** | 1A3.4B3.8-1610 | 1.5 | A1 | .11 | .04 |
| 4.35 | **118302** | 1A3.6B4.0-1610 | 1.9 | A1 | .11 | .04 |
| 4.55 | **118194** | 1A3.8B4.2-1610 | 2.2 | A1 | .11 | .04 |
| 4.75 | **118195** | 1A4.0B4.4-1610 | 2.5 | A1 | .11 | .04 |
| 4.95 | **118196** | 1A4.2B4.6-1610 | 2.9 | A1 | .11 | .04 |
| 5.15 | **118197** | 1A4.484.8-1610 | 3.3 | A1 | .11 | .04 |
| 5.35 | **118198** | 1A4.6B5.0-1610 | 3.6 | A1 | .11 | .04 |
| 5.55 | **118199** | 1A4.8B5.2-1610 | 4.1 | A1 | .11 | .04 |
| 5.75 | **118200** | 1A5.085.4-1610 | 4.5 | A1 | .11 | .04 |
| 5.95 | **118201** | 1A5.2B5.6-1610 | 4.9 | A1 | 0 | 0 |
| 6.15 | **118202** | 1A5.4B5.8-1610 | 5.3 | A1 | 0 | 0 |
| 6.35 | **118203** | 1A5.686.0-1610 | 5.8 | A1 | 0 | 0 |
| 6.55 | **118204** | 1A5.8B6.2-1610 | 6.3 | A1 | 0 | 0 |
| 6.75 | **118205** | 1A6.0B6.4-1610 | 6.8 | A1 | 0 | 0 |
| 6.95 | **118206** | 1A6.2B6.6-1610 | 7.5 | A1 | 0 | 0 |
| 7.15 | **118207** | 1A6.4B6.8-1610 | 7.8 | A1 | 0 | 0 |
| 7.35 | **118340** | 1A6.6B7.0-2517 | 8.5 | B1 | 0 | .75 |
| 7.75 | **118303** | 1A7.0B7.4-2517 | 9.4 | B1 | 0 | .75 |
| 8.35 | **118341** | 1A7.6B8.0-2517 | 11.0 | B1 | 0 | .75 |
| 8.95 | **118304** | 1A8.2B8.6-2517 | 12.0 | B1 | 0 | .75 |
| 9.75 | **118305** | 1A9.0B9.4-2517 | 14.0 | B1 | 0 | .75 |
| 11.35 | **118022** | 1A10.6611.0-2517 | 15.0 | B1 | 0 | .75 |
| 12.75 | **118023** | 1A12.0B12.4-2517 | 114.0 | C3 | .25 | .50 |
| 13.95 | **118342** | 1A13.2B13.6-2517 | 16.0 | C3 | .25 | .50 |
| 15.75 | **118024** | 1A15.0B15.4-2517 | 18.0 | C3 | .38 | .38 |
| 16.35 | **118343** | 1A15.6B16.0-2517 | 22.0 | C3 | .38 | .38 |
| 18.75 | **118025** | 1A18.0B18.4-2517 | 27.0 | C3 | .18 | .43 |

Δ P.D. for "A" Belts = O.D. – .37"
P.D. for "B" Belts = O.D. +.01"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

** 1.16" for 1A3.0B3.4 thru 1A4.4B4.8
1.05" for 1A4.6B5.0 thru 1A5.0B15.4
1.13" for 1A15.6B16.0 thru 1A18.0B18.4

**2-Groove** — F = 1.75

| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
|---|---|---|---|---|---|---|
| 3.75 | **118211** | 2A3.0B3.4-1210 | 2.2 | A1 | .10 | .65 |
| 3.95 | **118212** | 2A3.2B3.6-1210 | 2.6 | A1 | .10 | .65 |
| 4.15 | **118306** | 2A3.4B3.8-1610 | 2.5 | A1 | 0 | .75 |
| 4.35 | **118307** | 2A3.6B4.0-1610 | 2.9 | A1 | 0 | .75 |
| 4.55 | **118215** | 2A3.8B4.2-1610 | 3.3 | A1 | 0 | .75 |
| 4.75 | **118216** | 2A4.0B4.4-1610 | 3.7 | A1 | 0 | .75 |
| 4.95 | **118217** | 2A4.2B4.6-1610 | 4.2 | A1 | 0 | .75 |
| 5.15 | **118218** | 2A4.4B4.8-1610 | 4.1 | A1 | 0 | .75 |
| 5.35 | **118219** | 2A4.6B5.0-1610 | 5.0 | A1 | 0 | .75 |
| 5.55 | **118220** | 2A4.8B5.2-1610 | 5.5 | A1 | 0 | .75 |
| 5.75 | **118221** | 2A5.0B5.4-1610 | 5.9 | A1 | 0 | .75 |
| 5.95 | **118222** | 2A5.2B5.6-1610 | 6.5 | A1 | 0 | .75 |
| 6.15 | **118223** | 2A5.4B5.8-1610 | 6.9 | A1 | 0 | .75 |
| 6.35 | **118224** | 2A5.6B6.0-1610 | 7.6 | A1 | 0 | .75 |
| 6.55 | **118225** | 2A5.8B6.2-1610 | 8.2 | A1 | 0 | .75 |
| 6.75 | **118226** | 2A6.0B6.4-1610 | 8.6 | A1 | 0 | .75 |
| 6.95 | **118227** | 2A6.2B6.6-1610 | 9.5 | A1 | 0 | .75 |
| 7.15 | **118228** | 2A6.4B6.8-1610 | 9.8 | A1 | 0 | .75 |
| 7.35 | **118344** | 2A6.6B7.0-2517 | 14.0 | A1 | 0 | 0 |
| 7.75 | **118044** | 2A7.0B7.4-2517 | 14.0 | A1 | 0 | 0 |
| 8.35 | **118345** | 2A7.6B8.0-2517 | 15.0 | C2 | 0 | 0 |
| 8.95 | **118045** | 2A8.2B8.6-2517 | 15.0 | C2 | 0 | 0 |
| 9.75 | **118046** | 2A9.0B9.4-2517 | 18.0 | C2 | 0 | 0 |
| 11.35 | **118047** | 2A10.6B11.0-2517 | 25.0 | C2 | 0 | 0 |
| 12.75 | **118048** | 2A12.0B12.4-2517 | 18.0 | C3 | 0 | 0 |
| 13.95 | **118346** | 2A13.2B13.6-2517 | 24.0 | C3 | 0 | 0 |
| 15.75 | **118049** | 2A15.0B15.4-2517 | 24.0 | C3 | 0 | 0 |
| 16.35 | **118347** | 2A15.6B16.0-2517 | 26.0 | C3 | 0 | 0 |
| 18.75 | **118050** | 2A18.0B18.4-2517 | 33.0 | C3 | 0 | 0 |
| 20.35 | **114068** | 2B20.0-3020 | 31.0 | C3 | 0 | .25 |
| 25.35 | **114069** | 2B25.0-3020 | 41.0 | C3 | 0 | .25 |
| 30.35 | **114070** | 2B30.0-3020 | 52.0 | C3 | 0 | .25 |
| 38.35 | **114071** | 2B38.0-3020 | 71.0 | C3 | 0 | .25 |

# Selection/Dimensions

## A/B Taper-Lock Sheaves

| 3-Groove | | | | | | F = 2.50 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 3.75 | **118229** | 3A3.0B3.4–1210 | 3.0 | A1 | 0 | 1.50 |
| 3.95 | **118230** | 3A3.2B3.6–1210 | 3.5 | A1 | 0 | 1.50 |
| 4.15 | **118308** | 3A3.4B3.8–1610 | 3.4 | A1 | 0 | 1.50 |
| 4.35 | **118309** | 3A3.6B4.0–1610 | 4.0 | A1 | 0 | 1.50 |
| 4.55 | **118233** | 3A3.8B4.2–1610 | 4.6 | A1 | 0 | 1.50 |
| 4.75 | **118234** | 3A4.0B4.4–1610 | 4.9 | A1 | 0 | 1.50 |
| 4.95 | **118235** | 3A4.2B4.6–1610 | 5.4 | A1 | 0 | 1.50 |
| 5.15 | **118310** | 3A4.4B4.8–1610 | 5.9 | A1 | 0 | 1.50 |
| 5.35 | **118311** | 3A4.6B5.0–1610 | 6.4 | A1 | 0 | 1.50 |
| 5.55 | **118312** | 3A4.8B5.2–1610 | 7.0 | A1 | 0 | 1.50 |
| 5.75 | **118313** | 3A5.0B5.4–2517 | 7.8 | A1 | .75 | 0 |
| 5.95 | **118314** | 3A5.2B5.6–2517 | 8.2 | A1 | .75 | 0 |
| 6.15 | **118315** | 3A5.4B5.8–2517 | 8.9 | A1 | .75 | 0 |
| 6.35 | **118316** | 3A5.6B6.0–2517 | 9.8 | A1 | .75 | 0 |
| 6.55 | **118317** | 3A5.8B6.2–2517 | 11.0 | A1 | 0 | .75 |
| 6.75 | **118318** | 3A6.0B6.4–2517 | 12.0 | A1 | 0 | .75 |
| 6.95 | **118319** | 3A6.2B6.6–2517 | 13.0 | A1 | 0 | .75 |
| 7.15 | **118320** | 3A6.4B6.8–2517 | 14.0 | A1 | 0 | .75 |
| 7.35 | **118348** | 3A6.6B7.0–2517 | 15.0 | A1 | 0 | .75 |
| 7.75 | **118069** | 3A7.0B7.4–2517 | 17.0 | A1 | .0 | .75 |
| 8.35 | **118349** | 3A7.6B8.0–2517 | 19.0 | A1 | 0 | .75 |
| 8.95 | **118070** | 3A8.2B8.6–2517 | 19.0 | A1 | 0 | .75 |
| 9.75 | **118071** | 3A9.0B9.4–2517 | 21.0 | A2 | 0 | .75 |
| 11.35 | **118072** | 3A10.6B11.0–2517 | 28.0 | A2 | 0 | .75 |
| 12.75 | **118073** | 3A12.0B12.4–2517 | 22.0 | A3 | 0 | .75 |
| 13.95 | **118350** | 3A13.2B13.6–2517 | 25.0 | A3 | 0 | .75 |
| 15.75 | **118074** | 3A15.0B15.4–2517 | 30.0 | A3 | 0 | .75 |
| 16.35 | **118351** | 3A15.6B16.0–2517 | 32.0 | A3 | 0 | .75 |
| 18.75 | **118075** | 3A18.0B18.4–2517 | 39.0 | A3 | 0 | .75 |
| 20.35 | **114072** | 3B20.0–3020 | 39.0 | A3 | 0 | .50 |
| 25.35 | **114073** | 3B25.0–3020 | 52.0 | A3 | 0 | .50 |
| 30.35 | **114074** | 3B30.0–3020 | 66.0 | A3 | 0 | .50 |
| 38.35 | **114033** | 3B38.0–3020 | 103.0 | A3 | 0 | .50 |

| 4-Groove | | | | | | F = 3.25 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 3.75 | **118247** | 4A3.0B3.4–1210 | 3.7 | A1 | 2.25 | 0 |
| 3.95 | **118248** | 4A3.2B3.6–1210 | 4.4 | A1 | 2.25 | 0 |
| 4.15 | **118321** | 4A3.4B3.8–1610 | 4.3 | A1 | 2.25 | 0 |
| 4.35 | **118322** | 4A3.6B4.0–1610 | 5.1 | A1 | 2.25 | 0 |
| 4.55 | **118251** | 4A3.8B4.2–1610 | 5.5 | A1 | 2.25 | 0 |
| 4.75 | **118252** | 4A4.0B4.4–1610 | 6.0 | A1 | 2.25 | 0 |
| 4.95 | **118253** | 4A4.2B4.6–1610 | 6.7 | A1 | 2.25 | 0 |
| 5.15 | **118323** | 4A4.4B4.8–1610 | 7.2 | A1 | 2.25 | 0 |
| 5.35 | **118324** | 4A4.6B5.0–2517 | 6.7 | A1 | 1.50 | 0 |
| 5.55 | **118325** | 4A4.8B5.2–2517 | 8.0 | A1 | 1.50 | 0 |
| 5.75 | **118326** | 4A5.0B5.4–2517 | 8.7 | A1 | 1.50 | 0 |
| 5.95 | **118327** | 4A5.2B5.6–2517 | 9.8 | A1 | 1.50 | 0 |
| 6.15 | **118328** | 4A5.4B5.8–2517 | 10.0 | A1 | 1.50 | 0 |
| 6.35 | **118329** | 4A5.6B6.0–2517 | 12.0 | A1 | 1.50 | 0 |
| 6.55 | **118090** | 4A5.8B6.2–2517 | 13.0 | A1 | 0 | 1.50 |
| 6.75 | **118091** | 4A6.0B6.4–2517 | 13.0 | A1 | 0 | 1.50 |
| 6.95 | **118092** | 4A6.2B6.6–2517 | 15.0 | A1 | 0 | 1.50 |
| 7.15 | **118093** | 4A6.4B6.8–2517 | 15.0 | A1 | 0 | 1.50 |
| 7.35 | **118352** | 4A6.6B7.0–2517 | 16.0 | A1 | 0 | 1.50 |
| 7.75 | **118094** | 4A7.0B7.4–2517 | 19.0 | A1 | 0 | 1.50 |
| 8.35 | **118353** | 4A7.6B8.0–2517 | 21.0 | A1 | 0 | 1.50 |
| 8.95 | **118095** | 4A8.2B8.6–2517 | 21.0 | A1 | 0 | 1.50 |
| 9.75 | **118096** | 4A9.0B9.4–2517 | 24.0 | A1 | 0 | 1.50 |
| 11.35 | **118097** | 4A10.6B11.0–2517 | 31.0 | A1 | 0 | 1.50 |
| 12.75 | **118098** | 4A12.0B12.4–2517 | 30.0 | A3 | .37 | 1.12 |
| 13.95 | **118354** | 4A13.2B13.6–2517 | 34.0 | A3 | .37 | 1.12 |
| 15.75 | **118099** | 4A15.0B15.4–2517 | 41.0 | A3 | .37 | 1.12 |
| 16.35 | **118355** | 4A15.6B16.0–2517 | 61.0 | A3 | .37 | 1.12 |
| 18.75 | **118100** | 4A18.0B18.4–2517 | 67.0 | A3 | .48 | 1.01 |
| 20.35 | **114075** | 4B20.0–3020 | 58.0 | A3 | .50 | .75 |
| 25.35 | **114041** | 4B25.0–3030 | 73.0 | A3 | 0 | .25 |
| 30.35 | **114042** | 4B30.0–3030 | 91.0 | A3 | 0 | .25 |
| 38.35 | **114043** | 4B38.0–3030 | 123.0 | A3 | 0 | .25 |

# Selection/Dimensions

## A/B Taper-Lock Sheaves

| 5-Groove | | | | | | F = 4.00 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 3.75 | **118101** | 5A3.0B3.4–1215 | 4.9 | A1 | .87 | 1.62 |
| 3.95 | **118102** | 5A3.2B3.6–1215 | 5.4 | A1 | .87 | 1.62 |
| 4.15 | **118103** | 5A3.4B3.8–1215 | 5.1 | A1 | .87 | 1.62 |
| 4.35 | **118104** | 5A3.6B4.0–1215 | 6.1 | A1 | .87 | 1.62 |
| 4.55 | **118105** | 5A3.8B4.2–1615 | 6.6 | A1 | .87 | 1.62 |
| 4.75 | **118106** | 5A4.0B4.4–1615 | 6.9 | A1 | .87 | 1.62 |
| 4.95 | **118107** | 5A4.2B4.6–1615 | 8.6 | A1 | .87 | 1.62 |
| 5.15 | **118356** | 5A4.4B4.8–1615 | 9.4 | A1 | .87 | 1.62 |
| 5.35 | **118109** | 5A4.6B5.0–1615 | 9.2 | A1 | .87 | 1.62 |
| 5.55 | **118110** | 5A4.8B5.2–1615 | 9.9 | A1 | .87 | 1.62 |
| 5.75 | **118111** | 5A5.0B5.4–2517 | 11.0 | A1 | .81 | 1.43 |
| 5.95 | **118112** | 5A5.2B5.6–2517 | 11.0 | A1 | .81 | 1.43 |
| 6.15 | **118357** | 5A5.4B5.8–2517 | 13.0 | A1 | .81 | 1.43 |
| 6.35 | **118114** | 5A5.6B6.0–2517 | 13.0 | A1 | .81 | 1.43 |
| 6.55 | **118358** | 5A5.8B6.2–2517 | 14.0 | A1 | .81 | 1.43 |
| 6.75 | **118116** | 5A6.0B6.4–2517 | 15.0 | A1 | .81 | 1.43 |
| 6.95 | **118359** | 5A6.2B6.6–2517 | 16.0 | A1 | .81 | 1.43 |
| 7.15 | **118118** | 5A6.4B6.8–2517 | 18.0 | A1 | .81 | 1.43 |
| 7.35 | **118360** | 5A6.6B7.0–2517 | 18.0 | A1 | .75 | 1.50 |
| 7.75 | **118119** | 5A7.0B7.4–2517 | 22.0 | A1 | .75 | 1.50 |
| 8.35 | **118361** | 5A7.6B8.0–2517 | 23.0 | A1 | .50 | 1.75 |
| 8.95 | **118120** | 5A8.2B8.6–2517 | 24.0 | A1 | .75 | 1.50 |
| 9.75 | **118121** | 5A9.0B9.4–2517 | 26.0 | A1 | .75 | 1.50 |
| 11.35 | **118122** | 5A10.6B11.0–2517 | 32.0 | A2 | .75 | 1.50 |
| 12.75 | **118123** | 5A12.0B12.4–2517 | 35.0 | A3 | .75 | 1.50 |
| 13.95 | **118362** | 5A13.2B13.6–2517 | 38.0 | A3 | 1.00 | 1.25 |
| 15.75 | **118124** | 5A15.0B15.4–2517 | 43.0 | A3 | .75 | 1.50 |
| 16.35 | **118363** | 5A15.6B16.0–2517 | 67.0 | A3 | .75 | 1.50 |
| 18.75 | **118125** | 5A18.0B18.4–2517 | 70.0 | A3 | .81 | 1.44 |
| 20.35 | **114050** | 5B20.0–3030 | 65.0 | A3 | .25 | .75 |
| 25.35 | **114051** | 5B25.0–3030 | 84.0 | A3 | .25 | .75 |
| 30.35 | **114052** | 5B30.0–3030 | 105.0 | A3 | .38 | .63 |
| 38.35 | **114053** | 5B38.0–3030 | 144.0 | A3 | .25 | .75 |

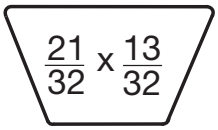
| 6-Groove | | | | | | F = 4.75 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 4.55 | **118130** | 6A3.8B4.2–1615 | 7.9 | A1 | 1.25 | 2.00 |
| 4.75 | **118131** | 6A4.0B4.4–1615 | 9.3 | A1 | 1.25 | 2.00 |
| 4.95 | **118132** | 6A4.2B4.6–1615 | 9.7 | A1 | 1.25 | 2.00 |
| 5.15 | **118364** | 6A4.4B4.8–1615 | 11.0 | A1 | 1.25 | 2.00 |
| 5.35 | **118134** | 6A4.6B5.0–1615 | 10.0 | A1 | 1.25 | 2.00 |
| 5.55 | **118135** | 6A4.8B5.2–1615 | 11.0 | A1 | 1.25 | 2.00 |
| 5.75 | **118136** | 6A5.0B5.4–2517 | 12.0 | A1 | 1.12 | 1.87 |
| 5.95 | **118137** | 6A5.2B5.6–2517 | 13.0 | A1 | 1.12 | 1.87 |
| 6.15 | **118365** | 6A5.4B5.8–2517 | 14.0 | A1 | 1.12 | 1.87 |
| 6.35 | **118139** | 6A5.6B6.0–2517 | 15.0 | A1 | 1.12 | 1.87 |
| 6.55 | **118366** | 6A5.8B6.2–2517 | 16.0 | A1 | 1.12 | 1.87 |
| 6.75 | **118141** | 6A6.0B6.4–2517 | 19.0 | A1 | 1.12 | 1.87 |
| 6.95 | **118367** | 6A6.2B6.6–2517 | 20.0 | A1 | 1.12 | 1.87 |
| 7.15 | **118143** | 6A6.4B6.8–2517 | 20.0 | A1 | 1.12 | 1.87 |
| 7.35 | **118368** | 6A6.6B7.0–2517 | 21.0 | A1 | 1.50 | 1.50 |
| 7.75 | **118144** | 6A7.0B7.4–2517 | 24.0 | A1 | 1.12 | 1.87 |
| 8.35 | **118369** | 6A7.6B8.0–2517 | 26.0 | A1 | 1.50 | 1.50 |
| 8.95 | **118145** | 6A8.2B8.6–2517 | 30.0 | A2 | 1.50 | 1.50 |
| 9.75 | **118146** | 6A9.0B9.4–2517 | 30.0 | A2 | 1.12 | 1.87 |
| 11.35 | **118147** | 6A10.6B11.0–2517 | 33.0 | A2 | 1.12 | 1.87 |
| 12.75 | **118148** | 6A12.0B12.4–2517 | 37.0 | A3 | 1.50 | 1.50 |
| 13.95 | **118370** | 6A13.2B13.6–2517 | 42.0 | A3 | 1.50 | 1.50 |
| 15.75 | **118149** | 6A15.0B15.4–2517 | 47.0 | A3 | 1.50 | 1.50 |
| 16.35 | **118371** | 6A15.6B16.0–2517 | 53.0 | A3 | 1.50 | 1.50 |
| 18.75 | **118150** | 6A18.0B18.4–2517 | 68.0 | A3 | 1.50 | 1.50 |
| 20.35 | **114060** | 6B20.0–3030 | 73.0 | A3 | .50 | 1.25 |
| 25.35 | **114061** | 6B25.0–3030 | 95.0 | A3 | .50 | 1.25 |
| 30.35 | **114062** | 6B30.0–3030 | 119.0 | A3 | .50 | 1.25 |
| 38.35 | **114063** | 6B38.0–3030 | 164.0 | A3 | .50 | 1.25 |

Δ P.D. for "A" Belts = O.D. – .37"
P.D. for "B" Belts = O.D. +.01"

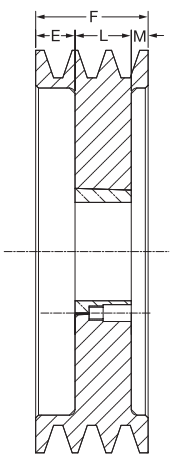
‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

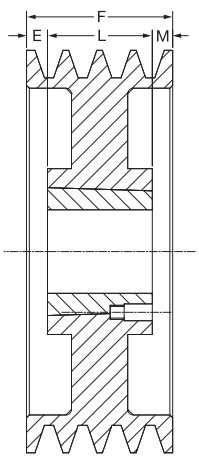
## B Taper-Lock Sheaves



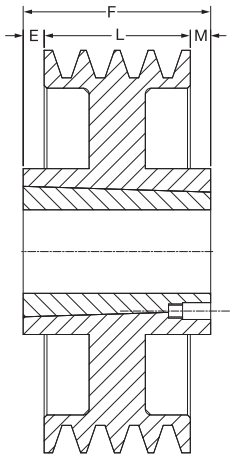

B




TYPE A




TYPE A-2
A-3




TYPE C

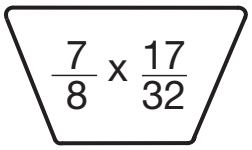
| 8-Groove | | | | | | F = 6.25 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 5.75 | **114114** | 8B5.4–2517 | 15.0 | A1 | 1.87 | 2.62 |
| 5.95 | **114115** | 8B5.6–2517 | 17.0 | A1 | 1.87 | 2.62 |
| 6.35 | **114116** | 8B6.0–2517 | 19.0 | A1 | 1.87 | 2.62 |
| 6.75 | **114117** | 8B6.4–2517 | 22.0 | A1 | 1.87 | 2.62 |
| 7.15 | **114118** | 8B6.8–2517 | 26.0 | A1 | 1.87 | 2.62 |
| 7.75 | **114119** | 8B7.4–2517 | 34.0 | A1 | 1.87 | 2.62 |
| 8.95 | **114130** | 8B8.6–3030 | 37.0 | A1 | 1.00 | 2.25 |
| 9.75 | **114131** | 8B9.4–3030 | 37.0 | A1 | 1.00 | 2.25 |
| 11.35 | **114132** | 8B11.0–3030 | 46.0 | A1 | 1.13 | 2.13 |
| 12.75 | **114133** | 8B12.4–3030 | 46.0 | A2 | 1.00 | 2.25 |
| 15.75 | **114134** | 8B15.4–3030 | 66.0 | A2 | 1.00 | 2.25 |
| 18.75 | **114135** | 8B18.4–3030 | 81.0 | A3 | 1.00 | 2.25 |
| 20.35 | **114136** | 8B20.0–3030 | 87.0 | A3 | 1.00 | 2.25 |
| 25.35 | **114137** | 8B25.0–3535 | 115.0 | A3 | .75 | 2.00 |
| 30.35 | **114138** | 8B30.0–3535 | 146.0 | A3 | .75 | 2.00 |
| 38.35 | **114139** | 8B38.0–4040 | 204.0 | A3 | 1.12 | 1.12 |

| 10-Groove | | | | | | F = 7.75 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 5.75 | **114150** | 10B5.4–2517 | 18.0 | A1 | 3.00 | 3.00 |
| 5.95 | **114151** | 10B5.6–2517 | 20.0 | A1 | 3.00 | 3.00 |
| 6.35 | **114152** | 10B6.0–2517 | 22.0 | A1 | 3.00 | 3.00 |
| 6.75 | **114153** | 10B6.4–2517 | 26.0 | A1 | 3.00 | 3.00 |
| 7.15 | **114154** | 10B6.8–2517 | 29.0 | A1 | 3.00 | 3.00 |
| 7.75 | **114155** | 10B7.4–2517 | 35.0 | A1 | 3.00 | 3.00 |
| 8.95 | **114170** | 10B8.6–3030 | 43.0 | A1 | 2.00 | 2.75 |
| 9.75 | **114171** | 10B9.4–3030 | 47.0 | A1 | 2.00 | 2.75 |
| 11.35 | **114172** | 10B11.0–3030 | 58.0 | A1 | 2.00 | 2.75 |

Δ P.D. for "B" Belts = O.D. + .01"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

## C Taper-Lock Sheaves




C

| 2-Groove | | | | | | F = 2.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 7.4 | **115162** | 2C7.0–2517 | 15.0 | A1 | 0 | .62 |
| 7.9 | **115163** | 2C7.5–2517 | 18.0 | A1 | 0 | .62 |
| 8.4 | **115164** | 2C8.0–2517 | 20.0 | A1 | 0 | .62 |
| 8.9 | **115165** | 2C8.5–2517 | 22.0 | A1 | 0 | .62 |
| 9.4 | **115166** | 2C9.0–2517 | 21.0 | A1 | 0 | .62 |
| 9.9 | **115186** | 2C9.5–2517 | 24.0 | A1 | 0 | .62 |
| 10.4 | **115171** | 2C10.0–2517 | 25.0 | A2 | 0 | .62 |
| 10.9 | **115187** | 2C10.5–2517 | 26.0 | A2 | 0 | .62 |
| 11.4 | **115174** | 2C11.0–2517 | 27.0 | A2 | 0 | .62 |
| 12.4 | **115175** | 2C12.0–2517 | 28.0 | A2 | 0 | .62 |
| 13.4 | **115176** | 2C13.0–2517 | 33.0 | A3 | 0 | .62 |
| 14.4 | **115177** | 2C14.0–2517 | 35.0 | A3 | 0 | .62 |
| 16.4 | **115178** | 2C16.0–2517 | 38.0 | A3 | 0 | .62 |
| 18.4 | **115325** | 2C18.0–3020 | 42.0 | A3 | 0 | .37 |
| 20.4 | **115326** | 2C20.0–3020 | 44.0 | A3 | 0 | .37 |
| 24.4 | **115327** | 2C24.0–3020 | 56.0 | A3 | 0 | .37 |
| 30.4 | **115000** | 2C30.0–3535 | 85.0 | C3 | .50 | .63 |

| 3-Groove | | | | | | F = 3.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 7.4 | **115130** | 3C7.0–2517 | 18.0 | A1 | .25 | 1.37 |
| 7.9 | **115131** | 3C7.5–2517 | 19.0 | A1 | .25 | 1.37 |
| 8.4 | **115132** | 3C8.0–2517 | 21.0 | A1 | 0 | 1.62 |
| 8.9 | **115133** | 3C8.5–2517 | 23.0 | A1 | .25 | 1.37 |
| 9.4 | **115001** | 3C9.0–2517 | 24.0 | A1 | .25 | 1.37 |
| 9.9 | **115188** | 3C9.5–2517 | 25.0 | A1 | .25 | 1.37 |
| 10.4 | **115016** | 3C10.0–2517 | 27.0 | A1 | .25 | 1.37 |
| 10.9 | **115189** | 3C10.5–2517 | 28.0 | A1 | .25 | 1.37 |
| 11.4 | **115006** | 3C11.0–2517 | 29.0 | A1 | .25 | 1.37 |
| 12.4 | **115328** | 3C12.0–3020 | 44.0 | A2 | 0 | 1.37 |
| 13.4 | **115329** | 3C13.0–3020 | 49.0 | A3 | 0 | 1.37 |
| 14.4 | **115330** | 3C14.0–3020 | 50.0 | A3 | 0 | 1.37 |
| 16.4 | **115331** | 3C16.0–3020 | 64.0 | A3 | .06 | 1.31 |
| 18.4 | **115014** | 3C18.0–3030 | 72.0 | A3 | 0 | .37 |
| 20.4 | **115009** | 3C20.0–3030 | 79.0 | A3 | 0 | .37 |
| 24.4 | **115010** | 3C24.0–3030 | 90.0 | A3 | 0 | .37 |
| 30.4 | **115011** | 3C30.0–3535 | 135.0 | C3 | 0 | .12 |
| 36.4 | **115012** | 3C36.0–3535 | 175.0 | C3 | 0 | .12 |

Δ P.D. for "C" Belts = O.D.

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## C Taper-Lock Sheaves

| 4-Groove | | | | | | F = 4.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 7.4 | **115135** | 4C7.0–2517 | 20.0 | A1 | 1.12 | 1.50 |
| 7.9 | **115136** | 4C7.5–2517 | 21.0 | A1 | 1.13 | 1.50 |
| 8.4 | **115137** | 4C8.0–2517 | 24.0 | A1 | .50 | 2.13 |
| 8.9 | **115138** | 4C8.5–2517 | 25.0 | A1 | .50 | 2.13 |
| 9.4 | **115017** | 4C9.0–2517 | 26.0 | A1 | .50 | 2.13 |
| 9.9 | **115190** | 4C9.5–2517 | 29.0 | A1 | .50 | 2.13 |
| 10.4 | **115032** | 4C10.0–2517 | 31.0 | A1 | .50 | 2.13 |
| 10.9 | **115191** | 4C10.5–2517 | 32.0 | A1 | .50 | 2.13 |
| 11.4 | **115022** | 4C11.0–2517 | 34.0 | A1 | .50 | 2.13 |
| 12.4 | **115151** | 4C12.0–3030 | 52.0 | A2 | 0 | 1.37 |
| 13.4 | **115023** | 4C13.0–3030 | 56.0 | A3 | 0 | 1.37 |
| 14.4 | **115155** | 4C14.0–3030 | 63.0 | A3 | 0 | 1.37 |
| 16.4 | **115024** | 4C16.0–3030 | 71.0 | A3 | 0 | 1.37 |
| 18.4 | **115030** | 4C18.0–3030 | 81.0 | A3 | .18 | 1.18 |
| 20.4 | **115025** | 4C20.0–3030 | 80.0 | A3 | 0 | 1.37 |
| 24.4 | **115026** | 4C24.0–3030 | 98.0 | A3 | 0 | 1.37 |
| 30.4 | **115027** | 4C30.0–3535 | 130.0 | A3 | .31 | .56 |
| 36.4 | **115028** | 4C36.0–3535 | 165.0 | A3 | 0 | .87 |
| 44.4 | **115029** | 4C44.0–4040 | 240.0 | A3 | 0 | .37 |

| 5-Groove | | | | | | F = 5.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 7.4 | **115140** | 5C7.0–2517 | 23.0 | A1 | 1.50 | 2.12 |
| 7.9 | **115141** | 5C7.5–2517 | 25.0 | A1 | 1.50 | 2.12 |
| 8.4 | **115142** | 5C8.0–2517 | 30.0 | A1 | 1.50 | 2.12 |
| 8.9 | **115143** | 5C8.5–2517 | 32.0 | A1 | 1.50 | 2.12 |
| 9.4 | **115033** | 5C9.0–2517 | 35.0 | A1 | 1.50 | 2.12 |
| 9.9 | **115192** | 5C9.5–2517 | 36.0 | A1 | 1.50 | 2.12 |
| 10.4 | **115048** | 5C10.0–2517 | 39.0 | A1 | 1.50 | 2.12 |
| 10.9 | **115193** | 5C10.5–2517 | 42.0 | A1 | 1.50 | 2.12 |
| 11.4 | **115038** | 5C11.0–2517 | 43.0 | A1 | 1.50 | 2.12 |
| 12.4 | **115152** | 5C12.0–3030 | 58.0 | A1 | .69 | 1.69 |
| 13.4 | **115039** | 5C13.0–3030 | 63.0 | A2 | .50 | 1.87 |
| 14.4 | **115156** | 5C14.0–3030 | 65.0 | A2 | .50 | 1.87 |
| 16.4 | **115040** | 5C16.0–3030 | 86.0 | A3 | .50 | 1.87 |
| 18.4 | **115036** | 5C18.0–3030 | 105.0 | A3 | .69 | 1.69 |
| 20.4 | **115041** | 5C20.0–3535 | 91.0 | A3 | 0 | 1.87 |
| 24.4 | **115042** | 5C24.0–3535 | 114.0 | A3 | .37 | 1.50 |
| 30.4 | **115043** | 5C30.0–3535 | 152.0 | A3 | .38 | 1.50 |
| 36.4 | **115044** | 5C36.0–4040 | 216.0 | A3 | .25 | 1.12 |
| 44.4 | **115045** | 5C44.0–4040 | 278.0 | A3 | .25 | 1.12 |

| 6-Groove | | | | | | F = 6.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 7.4 | **115145** | 6C7.0–3030 | 33.0 | A1 | 1.00 | 2.37 |
| 7.9 | **115146** | 6C7.5–3030 | 38.0 | A1 | 1.00 | 2.37 |
| 8.4 | **115147** | 6C8.0–3030 | 43.0 | A1 | 1.00 | 2.37 |
| 8.9 | **115148** | 6C8.5–3030 | 49.0 | A1 | 1.00 | 2.37 |
| 9.4 | **115049** | 6C9.0–3030 | 54.0 | A1 | 1.00 | 2.37 |
| 9.9 | **115194** | 6C9.5–3030 | 57.0 | A1 | 1.00 | 2.37 |
| 10.4 | **115064** | 6C10.0–3030 | 61.0 | A1 | 1.00 | 2.37 |
| 10.9 | **115195** | 6C10.5–3030 | 56.0 | A1 | 1.00 | 2.37 |
| 11.4 | **115054** | 6C11.0–3030 | 58.0 | A1 | 1.00 | 2.37 |
| 12.4 | **115153** | 6C12.0–3030 | 66.0 | A1 | 1.00 | 2.37 |
| 13.4 | **115055** | 6C13.0–3030 | 69.0 | A2 | 1.00 | 2.37 |
| 14.4 | **115157** | 6C14.0–3535 | 85.0 | A2 | .50 | 2.37 |
| 16.4 | **115056** | 6C16.0–3535 | 100.0 | A3 | .50 | 2.37 |
| 18.4 | **115062** | 6C18.0–3535 | 115.0 | A3 | .75 | 2.12 |
| 20.4 | **115057** | 6C20.0–3535 | 103.0 | A3 | .87 | 2.00 |
| 24.4 | **115058** | 6C24.0–3535 | 129.0 | A3 | .87 | 2.00 |
| 30.4 | **115059** | 6C30.0–4040 | 195.0 | A3 | 1.00 | 1.37 |
| 36.4 | **115060** | 6C36.0–4040 | 243.0 | A3 | 1.00 | 1.37 |
| 44.4 | **115061** | 6C44.0–4040 | 315.0 | A3 | 1.00 | 1.37 |

| 8-Groove | | | | | | F = 8.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 8.4 | **115160** | 8C8.0–3030 | 59.0 | A1 | 2.00 | 3.37 |
| 8.9 | **115161** | 8C8.5–3030 | 62.0 | A1 | 2.00 | 3.37 |
| 9.4 | **115081** | 8C9.0–3535 | 64.0 | A1 | 1.50 | 3.37 |
| 9.9 | **115196** | 8C9.5–3535 | 73.0 | A1 | 1.50 | 3.37 |
| 10.4 | **115096** | 8C10.0–3535 | 81.0 | A1 | 1.50 | 3.37 |
| 10.9 | **115197** | 8C10.5–3535 | 85.0 | A1 | 1.50 | 3.37 |
| 11.4 | **115086** | 8C11.0–3535 | 87.0 | A1 | 1.50 | 3.37 |
| 12.4 | **115185** | 8C12.0–3535 | 90.0 | A1 | 1.50 | 3.37 |
| 13.4 | **115087** | 8C13.0–3535 | 97.0 | A1 | 1.50 | 3.37 |
| 14.4 | **115097** | 8C14.0–3535 | 105.0 | A1 | 1.50 | 3.37 |
| 16.4 | **115088** | 8C16.0–3535 | 125.0 | A3 | 1.50 | 3.37 |
| 18.4 | **115098** | 8C18.0–4040 | 155.0 | A3 | 1.50 | 2.87 |
| 20.4 | **115089** | 8C20.0–4040 | 151.0 | A3 | 1.50 | 2.87 |
| 24.4 | **115090** | 8C24.0–4040 | 183.0 | A3 | 1.50 | 2.87 |
| 30.4 | **115091** | 8C30.0–4040 | 237.0 | A3 | 1.50 | 2.87 |
| 36.4 | **115092** | 8C36.0–4545 | 322.0 | A3 | 1.25 | 2.62 |
| 44.4 | **115093** | 8C44.0–4545 | 411.0 | A3 | 1.25 | 2.62 |

| 10-Groove | | | | | | F = 10.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 9.4 | **115351** | 10C9.0–4545 | 84.0 | A1 | 1.50 | 4.37 |
| 9.9 | **115352** | 10C9.5–4545 | 101.0 | A1 | 1.50 | 4.37 |
| 10.4 | **115353** | 10C10.0–4545 | 104.0 | A1 | 1.50 | 4.37 |
| 10.9 | **115354** | 10C10.5–4545 | 108.0 | A1 | 1.50 | 4.37 |
| 11.4 | **115355** | 10C11.0–4545 | 128.0 | A1 | 1.50 | 4.37 |
| 12.4 | **115356** | 10C12.0–4545 | 148.0 | A1 | 1.50 | 4.37 |
| 13.4 | **115349** | 10C13.0–4545 | 168.0 | A1 | 2.00 | 3.87 |
| 14.4 | **115357** | 10C14.0–4545 | 205.0 | A1 | 2.00 | 3.87 |
| 16.4 | **115358** | 10C16.0–4545 | 237.0 | A1 | 2.00 | 3.87 |
| 18.4 | **115359** | 10C18.0–4545 | 270.0 | A3 | 2.00 | 3.87 |
| 20.4 | **115360** | 10C20.0–4545 | 176.0 | A3 | 2.00 | 3.87 |
| 24.4 | **115361** | 10C24.0–5050 | 242.0 | A3 | 1.50 | 3.87 |
| 30.4 | **115123** | 10C30.0–4545 | 303.0 | A3 | 2.00 | 3.87 |
| 36.4 | **115124** | 10C36.0–4545 | 375.0 | A3 | 2.00 | 3.87 |
| 44.4 | **115125** | 10C44.0–4545 | 484.0 | A3 | 2.00 | 3.87 |

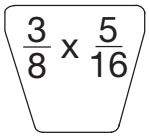
| 12-Groove | | | | | | F = 12.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | E | M |
| 9.4 | **115065** | 12C9.0–4040 | 87.0 | A1 | 3.50 | 4.87 |
| 9.9 | **115066** | 12C9.5–4040 | 90.0 | A1 | 3.50 | 4.87 |
| 10.4 | **115067** | 12C10.0–4040 | 95.0 | A1 | 3.50 | 4.87 |
| 10.9 | **115068** | 12C10.5–4040 | 104.0 | A1 | 3.50 | 4.87 |
| 11.4 | **115069** | 12C11.0–4040 | 125.0 | A1 | 3.50 | 4.87 |
| 12.4 | **115070** | 12C12.0–4040 | 140.0 | A1 | 3.50 | 4.87 |
| 13.4 | **115071** | 12C13.0–4545 | 173.0 | A1 | 3.00 | 4.87 |
| 14.4 | **115072** | 12C14.0–4545 | 177.0 | A1 | 3.00 | 4.87 |

Δ P.D. for "C" Belts = O.D.

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## 3V QD Sheaves




| 1-Groove | | | | | | F = * |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 2.2 | **455100** | 1-3V2.2–JA | 0.93 | E1 | 0.50 | 0.51 |
| 2.35 | **455101** | 1-3V2.35–JA | 1.1 | E1 | 0.50 | 0.51 |
| 2.5 | **455102** | 1-3V2.5–JA | 1.2 | E1 | 0.50 | 0.51 |
| 2.65 | **455103** | 1-3V2.65–JA | 1.4 | D1 | 0.14 | 0.37 |
| 2.8 | **455104** | 1-3V2.8–JA | 1.5 | D1 | 0.14 | 0.37 |
| 3.0 | **455105** | 1-3V3.00–JA | 1.6 | D1 | 0.14 | 0.37 |
| 3.15 | **455106** | 1-3V3.15–JA | 1.7 | D1 | 0.14 | 0.37 |
| 3.35 | **455107** | 1-3V3.35–JA | 1.8 | D1 | 0.14 | 0.37 |
| 3.65 | **455108** | 1-3V3.65–SH | 2.2 | D1 | 0.11 | 0.57 |
| 4.12 | **455109** | 1-3V4.12–SH | 2.7 | D1 | 0.05 | 0.63 |
| 4.5 | **455110** | 1-3V4.5–SH | 3.1 | D1 | 0.05 | 0.63 |
| 4.75 | **455111** | 1-3V4.75–SH | 3.4 | D1 | 0.05 | 0.63 |
| 5.0 | **455112** | 1-3V5.0–SH | 3.7 | C1 | 0.00 | 0.68 |
| 5.3 | **455113** | 1-3V5.3–SH | 3.9 | C1 | 0.00 | 0.68 |
| 5.6 | **455114** | 1-3V5.6–SH | 4.4 | C1 | 0.00 | 0.68 |
| 6.0 | **455115** | 1-3V6.0–SH | 4.5 | C1 | 0.00 | 0.68 |
| 6.5 | **455116** | 1-3V6.5–SH | 4.6 | C1 | 0.00 | 0.68 |
| 6.9 | **455117** | 1-3V6.9–SH | 4.8 | C1 | 0.00 | 0.68 |
| 8.0 | **455118** | 1-3V8.0–SDS | 6.6 | C1 | 0.06 | 0.64 |
| 10.6 | **455119** | 1-3V10.6–SDS | 8.5 | C2 | 0.12 | 0.58 |
| 14.0 | **455120** | 1-3V14.0–SK | 14.0 | C3 | 0.44 | 1.33 |
| 19.0 | **455121** | 1-3V19.0–SK | 20.0 | C3 | 0.16 | 1.05 |

* F=1.19 2.2 – 2.5, F=1.09 2.65 – 3.65 and 14.0 – 19.0,
F=0.93 4.12 – 4.75, F=0.81 5.0 – 6

| 2-Groove | | | | | | F = 1.09 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 2.2 | **455122** | 2-3V2.2–JA | 1.2 | E1 | 0.50 | 0.51 |
| 2.35 | **455123** | 2-3V2.35–JA | 1.3 | E1 | 0.50 | 0.51 |
| 2.5 | **455124** | 2-3V2.5–JA | 1.5 | E1 | 0.50 | 0.51 |
| 2.65 | **455125** | 2-3V2.65–JA | 1.6 | D1 | 0.14 | 0.37 |
| 2.8 | **455126** | 2-3V2.8–JA | 1.7 | D1 | 0.14 | 0.37 |
| 3.0 | **455127** | 2-3V3.0–JA | 2.0 | D1 | 0.14 | 0.37 |
| 3.15 | **455128** | 2-3V3.15–JA | 2.1 | D1 | 0.14 | 0.37 |
| 3.35 | **455129** | 2-3V3.35–SH | 2.2 | D1 | 0.11 | 0.57 |
| 3.65 | **455130** | 2-3V3.65–SH | 2.6 | D1 | 0.11 | 0.57 |
| 4.12 | **455131** | 2-3V4.12–SH | 3.2 | C1 | 0.28 | 0.40 |
| 4.5 | **455132** | 2-3V4.5–SH | 3.8 | C1 | 0.28 | 0.40 |
| 4.75 | **455133** | 2-3V4.75–SH | 4.1 | C1 | 0.28 | 0.40 |
| 5.0 | **455134** | 2-3V5.0–SH | 4.6 | C1 | 0.28 | 0.40 |
| 5.3 | **455135** | 2-3V5.3–SH | 5.1 | C1 | 0.28 | 0.40 |
| 5.6 | **455136** | 2-3V5.6–SH | 5.6 | C1 | 0.28 | 0.40 |
| 6.0 | **455137** | 2-3V6.0–SH | 5.8 | C1 | 0.12 | 0.56 |
| 6.5 | **455138** | 2-3V6.5–SDS | 6.0 | C1 | 0.34 | 0.36 |
| 6.9 | **455139** | 2-3V6.9–SDS | 6.6 | C1 | 0.34 | 0.36 |
| 8.0 | **455140** | 2-3V8.0–SDS | 7.8 | C1 | 0.34 | 0.36 |
| 10.6 | **455141** | 2-3V10.6–SK | 14.0 | C1 | 0.25 | 0.64 |
| 14.0 | **455142** | 2-3V14.0–SK | 17.0 | D3 | 0.25 | 0.64 |
| 19.0 | **455143** | 2-3V19.0–SK | 24.0 | D3 | 0.00 | 0.89 |
| 25.0 | **455144** | 2-3V25.0–SF | 29.0 | D3 | 0.18 | 0.76 |

| 3-Groove | | | | | | F = 1.50 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 2.5 | **455145** | 3-3V2.50–JA | 1.9 | E1 | 0.44 | 0.51 |
| 2.65 | **455146** | 3-3V2.65–JA | 1.9 | E1 | 0.00 | 0.51 |
| 2.8 | **455147** | 3-3V2.80–JA | 2.2 | E1 | 0.00 | 0.51 |
| 3.0 | **455148** | 3-3V3.00–SH | 2.6 | E1 | 0.52 | 0.68 |
| 3.15 | **455149** | 3-3V3.15–SH | 2.8 | E1 | 0.52 | 0.68 |
| 3.35 | **455150** | 3-3V3.35–SH | 3.0 | D1 | 0.11 | 0.57 |
| 3.65 | **455151** | 3-3V3.65–SH | 3.2 | D1 | 0.11 | 0.57 |
| 4.12 | **455152** | 3-3V4.12–SH | 3.6 | B1 | 0.69 | 0.01 |
| 4.5 | **455153** | 3-3V4.50–SDS | 4.3 | B1 | 0.75 | 0.05 |
| 4.75 | **455154** | 3-3V4.75–SDS | 4.8 | B1 | 0.75 | 0.05 |
| 5.0 | **455155** | 3-3V5.0–SDS | 5.1 | B1 | 0.75 | 0.05 |
| 5.3 | **455156** | 3-3V5.3–SDS | 5.8 | B1 | 0.75 | 0.05 |
| 5.6 | **455157** | 3-3V5.6–SDS | 6.5 | B1 | 0.75 | 0.05 |
| 6.0 | **455158** | 3-3V6.0–SDS | 7.5 | D1 | 0.56 | 0.14 |
| 6.5 | **455159** | 3-3V6.5–SDS | 7.8 | B1 | 0.75 | 0.05 |
| 6.9 | **455160** | 3-3V6.9–SDS | 8.0 | B1 | 0.75 | 0.05 |
| 8.0 | **455161** | 3-3V8.0–SK | 12.0 | C1 | 0.25 | 0.64 |
| 10.6 | **455162** | 3-3V10.6–SK | 15.0 | D2 | 0.25 | 0.64 |
| 14.0 | **455163** | 3-3V14.0–SK | 21.0 | C3 | 0.25 | 0.64 |
| 19.0 | **455164** | 3-3V19.0–SF | 36.0 | C3 | 0.25 | 0.69 |
| 25.0 | **455165** | 3-3V25.0–SF | 35.0 | C3 | 0.25 | 0.69 |
| 33.5 | **455166** | 3-3V33.5–SF | 52.0 | C3 | 0.25 | 0.69 |

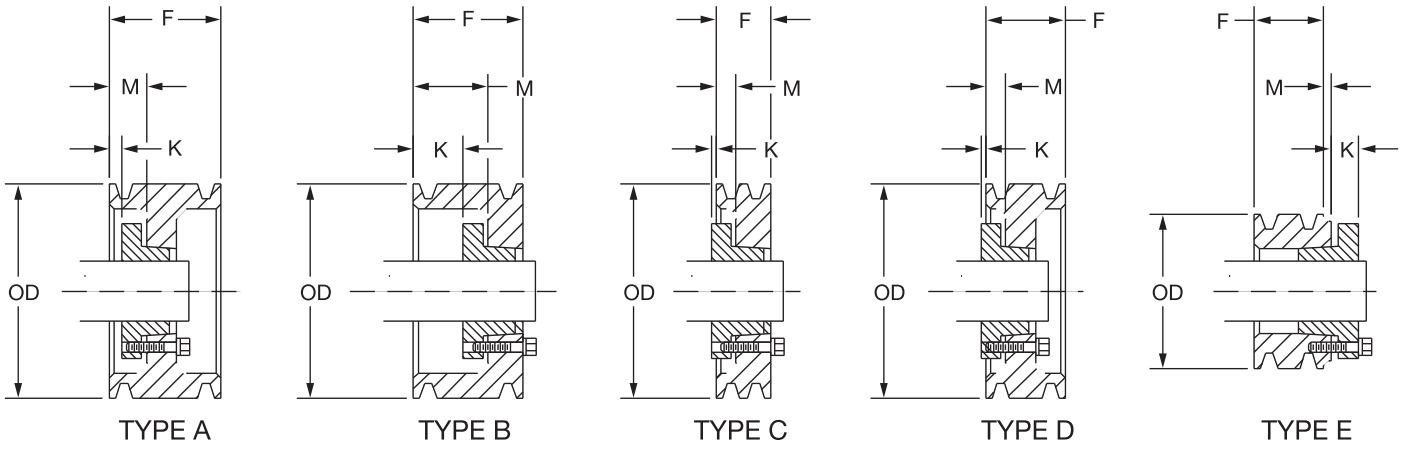
| 4-Groove | | | | | | F = 1.90 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 2.65 | **455167** | 4-3V2.65–JA | 2.2 | E1 | 0.00 | 0.51 |
| 2.8 | **455168** | 4-3V2.8–JA | 2.4 | E1 | 0.00 | 0.51 |
| 3.0 | **455169** | 4-3V3.0–SH | 2.8 | E1 | 0.38 | 0.68 |
| 3.15 | **455170** | 4-3V3.15–SH | 3.1 | E1 | 0.38 | 0.68 |
| 3.35 | **455171** | 4-3V3.35–SH | 3.3 | E1 | 0.38 | 0.68 |
| 3.65 | **455172** | 4-3V3.65–SH | 3.8 | E1 | 0.38 | 0.68 |
| 4.12 | **455173** | 4-3V4.12–SH | 4.1 | A1 | 1.09 | 0.41 |
| 4.5 | **455174** | 4-3V4.5–SDS | 4.6 | A1 | 1.15 | 0.45 |
| 4.75 | **455175** | 4-3V4.75–SDS | 5.3 | A1 | 1.15 | 0.45 |
| 5.0 | **455176** | 4-3V5.0–SDS | 5.6 | A1 | 1.15 | 0.45 |
| 5.3 | **455177** | 4-3V5.3–SDS | 6.4 | A1 | 1.15 | 0.45 |
| 5.6 | **455178** | 4-3V5.6–SDS | 6.9 | A1 | 1.15 | 0.45 |
| 6.0 | **455179** | 4-3V6.0–SK | 9.4 | D1 | 0.50 | 0.39 |
| 6.5 | **455180** | 4-3V6.5–SK | 9.5 | C1 | 0.66 | 0.23 |
| 6.9 | **455181** | 4-3V6.9–SK | 11.0 | C1 | 0.66 | 0.23 |
| 8.0 | **455182** | 4-3V8.0–SK | 13.0 | C1 | 0.66 | 0.23 |
| 10.6 | **455183** | 4-3V10.6–SK | 18.0 | D2 | 0.66 | 0.23 |
| 14.0 | **455184** | 4-3V14.0–SK | 24.0 | D3 | 0.63 | 0.27 |
| 19.0 | **455185** | 4-3V19.0–SF | 40.0 | D3 | 0.50 | 0.44 |
| 25.0 | **455186** | 4-3V25.0–SF | 41.0 | D3 | 0.63 | 0.31 |
| 33.5 | **455187** | 4-3V33.5–E | 65.0 | C3 | 0.34 | 0.86 |

Δ Pitch Diameter = O.D. – .05"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## 3V QD Sheaves




| 5-Groove | | | | | | F = 2.31 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 4.75 | **455188** | 5/3V4.75–SDS | 5.9 | A1 | 0.75 | 0.05 |
| 5.0 | **455189** | 5/3V5.0–SDS | 6.3 | A1 | 0.75 | 0.05 |
| 5.3 | **455190** | 5/3B5.3–SK | 8.0 | A1 | 0.94 | 0.05 |
| 5.6 | **455191** | 5/3V5.6–SK | 9.0 | A1 | 0.94 | 0.05 |
| 6.0 | **455192** | 5/3V6.0–SK | 11.0 | A1 | 0.94 | 0.05 |
| 6.5 | **455193** | 5/3V6.5–SK | 11.0 | A1 | 0.94 | 0.05 |
| 6.9 | **455194** | 5/3V6.9–SK | 12.0 | A1 | 0.94 | 0.05 |
| 8.0 | **455195** | 5/3V8.0–SK | 15.0 | A1 | 0.94 | 0.05 |
| 10.6 | **455196** | 5/3V10.6–SK | 20.0 | A1 | 0.94 | 0.05 |
| 14.0 | **455197** | 5/3V14.0–SF | 31.0 | D3 | 0.63 | 0.32 |
| 19.0 | **455198** | 5/3V19.0–SF | 46.0 | D3 | 0.63 | 0.31 |
| 25.0 | **455199** | 5/3V25.0–E | 50.0 | C3 | 0.63 | 0.57 |
| 33.5 | **455200** | 5/3V33.5–E | 74.0 | C3 | 0.63 | 0.57 |

| 6-Groove | | | | | | F = 2.72 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 4.75 | **455201** | 6/3V4.75–SK | 7.1 | E1 | 0.00 | 0.89 |
| 5.0 | **455202** | 6/3V5.0–SK | 7.8 | E1 | 0.00 | 0.89 |
| 5.3 | **455203** | 6/3V5.3–SK | 8.6 | A1 | 1.31 | 0.42 |
| 5.6 | **455204** | 6/3V5.6–SK | 8.8 | A1 | 1.31 | 0.42 |
| 6.0 | **455205** | 6/3V6.0–SK | 11.0 | A1 | 1.31 | 0.42 |
| 6.5 | **455206** | 6/3V6.5–SK | 12.0 | A1 | 1.31 | 0.42 |
| 6.9 | **455207** | 6/3V6.9–SK | 13.0 | A1 | 1.31 | 0.42 |
| 8.0 | **455208** | 6/3V8.0–SK | 17.0 | D1 | 0.59 | 0.30 |
| 10.6 | **455209** | 6/3V10.6–SF | 23.0 | D1 | 0.88 | 0.07 |
| 14.0 | **455210** | 6/3V14.0–SF | 33.0 | D3 | 0.88 | 0.06 |
| 19.0 | **455211** | 6/3V19.0–E | 62.0 | D3 | 0.88 | 0.32 |
| 25.0 | **455212** | 6/3V25.0–E | 56.0 | D3 | 1.00 | 0.20 |
| 33.5 | **455213** | 6/3V33.5–E | 83.0 | D3 | 1.00 | 0.20 |

| 8-Groove | | | | | | F = 3.53 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 4.75 | **455214** | 8/3V4.75–SK | 8.4 | E1 | 0.00 | 0.89 |
| 5.0 | **455215** | 8/3V5.0–SK | 8.6 | E1 | 0.00 | 0.89 |
| 5.3 | **455216** | 8/3V5.3–SK | 10.0 | A1 | 1.31 | 0.42 |
| 5.6 | **455217** | 8/3V5.6–SK | 11.0 | A1 | 1.31 | 0.42 |
| 6.0 | **455218** | 8/3V6.0–SK | 13.0 | A1 | 1.31 | 0.42 |
| 6.5 | **455219** | 8/3V6.5–SK | 15.0 | A1 | 1.31 | 0.42 |
| 6.9 | **455220** | 8/3V6.9–SK | 15.0 | A1 | 1.53 | 0.64 |
| 8.0 | **455221** | 8/3V8.0–SF | 20.0 | A1 | 1.31 | 0.37 |
| 10.6 | **455222** | 8/3V10.6–SF | 29.0 | A2 | 1.12 | 0.18 |
| 14.0 | **455223** | 8/3V14.0–E | 51.0 | A3 | 1.25 | 0.05 |
| 19.0 | **455224** | 8/3V19.0–E | 70.0 | D3 | 1.12 | 0.08 |
| 25.0 | **455225** | 8/3V25.0–E | 67.0 | A3 | 1.25 | 0.05 |
| 33.5 | **455226** | 8/3V33.5–F | 98.0 | D3 | 1.06 | 0.36 |

| 10-Groove | | | | | | F = 4.34 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 4.75 | **455227** | 10/3V4.75–SK | 9.7 | E1 | 0.00 | 0.89 |
| 5.0 | **455228** | 10/3V5.0–SK | 11.0 | E1 | 0.00 | 0.89 |
| 5.3 | **455229** | 10/3V5.3–SK | 12.0 | A1 | 1.44 | 0.55 |
| 5.6 | **455230** | 10/3V5.6–SK | 13.0 | A1 | 1.44 | 0.55 |
| 6.0 | **455231** | 10/3V6.0–SK | 15.0 | A1 | 1.44 | 0.55 |
| 6.5 | **455232** | 10/3V6.5–SK | 16.0 | A1 | 1.44 | 0.55 |
| 6.9 | **455233** | 10/3V6.9–SK | 18.0 | A1 | 1.44 | 0.55 |
| 8.0 | **455234** | 10/3V8.0–SF | 22.0 | A1 | 1.63 | 0.69 |
| 10.6 | **455235** | 10/3V10.6–E | 41.0 | A1 | 1.25 | 0.05 |
| 14.0 | **455236** | 10/3V14.0–E | 55.0 | A2 | 1.25 | 0.05 |
| 19.0 | **455237** | 10/3V19.0–E | 80.0 | A3 | 1.25 | 0.05 |
| 25.0 | **455238** | 10/3V25.0–F | 83.0 | D3 | 1.31 | 0.11 |
| 33.5 | **455239** | 10/3V33.5–F | 124.0 | D3 | 1.31 | 0.11 |

Δ Pitch Diameter = O.D. – .05"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## 5V QD Sheaves

| 2-Groove | | | | | | F = 1.69 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| ++4.4 | **455240** | 2/5V4.4–SH | 4.0 | D1 | 0.19 | 0.49 |
| ++4.65 | **455241** | 2/5V4.65–SDS | 4.4 | E1 | 0.19 | 0.70 |
| ++4.9 | **455242** | 2/5V4.9–SDS | 5.1 | E1 | 0.19 | 0.51 |
| ++5.2 | **455243** | 2/5V5.2–SDS | 5.7 | D1 | 0.69 | 0.01 |
| ++5.5 | **455244** | 2/5V5.5–SDS | 5.9 | D1 | 0.69 | 0.01 |
| ++5.9 | **455245** | 2/5V5.9–SDS | 6.8 | D1 | 0.69 | 0.01 |
| ++6.3 | **455246** | 2/5V6.3–SK | 10.0 | C1 | 0.44 | 0.45 |
| ++6.7 | **455247** | 2/5V6.7–SK | 13.0 | C1 | 0.44 | 0.45 |
| 7.1 | **455248** | 2/5V7.1–SK | 10.0 | C1 | 0.44 | 0.45 |
| 7.5 | **455249** | 2/5V7.5–SK | 12.0 | C1 | 0.44 | 0.45 |
| 8.0 | **455250** | 2/5V8.0–SK | 10.0 | C1 | 0.44 | 0.45 |
| 8.5 | **455251** | 2/5V8.5–SK | 11.0 | C2 | 0.44 | 0.45 |
| 9.0 | **455252** | 2/5V9.0–SK | 12.0 | C2 | 0.44 | 0.45 |
| 9.25 | **455253** | 2/5V9.25–SK | 13.0 | C1 | 0.44 | 0.45 |
| 9.75 | **455254** | 2/5V9.75–SK | 13.0 | C1 | 0.44 | 0.45 |
| 10.3 | **455255** | 2/5V10.3–SK | 15.0 | C2 | 0.44 | 0.45 |
| 10.9 | **455256** | 2/5V10.9–SK | 16.0 | C2 | 0.44 | 0.45 |
| 11.3 | **455257** | 2/5V11.3–SK | 19.0 | C2 | 0.44 | 0.45 |
| 11.8 | **455258** | 2/5V11.8–SK | 18.0 | C2 | 0.44 | 0.45 |
| 12.5 | **455259** | 2/5V12.5–SF | 20.0 | C2 | 0.44 | 0.50 |
| 13.2 | **455260** | 2/5V13.2–SF | 21.0 | D3 | 0.31 | 0.63 |
| 14.0 | **455261** | 2/5V14.0–SF | 23.0 | D3 | 0.31 | 0.63 |
| 15.0 | **455262** | 2/5V15.0–SF | 26.0 | D3 | 0.31 | 0.63 |
| 16.0 | **455263** | 2/5V16.0–SF | 29.0 | D3 | 0.31 | 0.63 |
| 18.7 | **455264** | 2/5V18.7–SF | 39.0 | D3 | 0.31 | 0.63 |
| 21.2 | **455265** | 2/5V21.2–SF | 39.0 | C3 | 0.44 | 0.50 |
| 23.6 | **455266** | 2/5V23.6–E | 48.0 | D3 | 0.25 | 0.95 |
| 28.0 | **455267** | 2/5V28.0–E | 60.0 | D3 | 0.25 | 0.95 |
| – | – | – | – | – | – | – |
| – | – | – | – | – | – | – |
| – | – | – | – | – | – | – |

| 3-Groove | | | | | | F = 2.38 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| ++4.4. | **455268** | 3/5V4.4–SDS | 5.7 | E1 | 0.00 | 0.70 |
| ++4.65 | **455269** | 3/5V4.65–SDS | 6.2 | E1 | 0.00 | 0.70 |
| ++4.9 | **455270** | 3/5V4.9–SDS | 6.3 | A1 | 1.06 | 0.36 |
| ++5.2 | **455271** | 3/5V5.2–SDS | 6.8 | A1 | 1.06 | 0.36 |
| ++5.5 | **455272** | 3/5V5.5–SDS | 7.7 | A1 | 1.06 | 0.36 |
| ++5.9 | **455273** | 3/5V5.9–SDS | 8.3 | A1 | 1.06 | 0.36 |
| ++6.3 | **455274** | 3/5V6.3–SK | 12.0 | B1 | 1.13 | 0.24 |
| ++6.7 | **455275** | 3/5V6.7–SK | 13.0 | B1 | 1.13 | 0.24 |
| 7.1 | **455276** | 3/5V7.1–SF | 15.0 | A1 | 1.00 | 0.06 |
| 7.5 | **455277** | 3/5V7.5–SF | 17.0 | A1 | 1.00 | 0.06 |
| 8.0 | **455278** | 3/5V8.0–SF | 19.0 | A1 | 1.00 | 0.06 |
| 8.5 | **455279** | 3/5V8.5–SF | 21.0 | D1 | 0.81 | 0.13 |
| 9.0 | **455280** | 3/5V9.0–SF | 22.0 | D1 | 0.81 | 0.13 |
| 9.25 | **455281** | 3/5V9.25–SF | 23.0 | A1 | 1.00 | 0.06 |
| 9.75 | **455282** | 3/5V9.75–SF | 23.0 | A2 | 1.13 | 0.19 |
| 10.3 | **455284** | 3/5V10.3–SF | 25.0 | A2 | 1.00 | 0.06 |
| 10.9 | **455285** | 3/5V10.9–SF | 27.0 | D2 | 0.81 | 0.13 |
| 11.3 | **455286** | 3/5V11.3–SF | 25.0 | D2 | 0.81 | 0.13 |
| 11.8 | **455287** | 3/5V11.8–SF | 28.0 | A2 | 1.00 | 0.06 |
| 12.5 | **455288** | 3/5V12.5–E | 36.0 | D2 | 0.56 | 0.64 |
| 13.2 | **455289** | 3/5V13.2–E | 38.0 | C2 | 0.75 | 0.45 |
| 14.0 | **455290** | 3/5V14.0–E | 46.0 | D3 | 0.56 | 0.64 |
| 15.0 | **455291** | 3/5V15.0–E | 48.0 | D3 | 0.63 | 0.57 |
| 16.0 | **455292** | 3/5V16.0–E | 50.0 | D3 | 0.63 | 0.57 |
| 18.7 | **455293** | 3/5V18.7–E | 54.0 | D3 | 0.50 | 0.70 |
| 21.2 | **455294** | 3/5V21.2–E | 62.0 | C3 | 0.75 | 0.45 |
| 23.6 | **455295** | 3/5V23.6–E | 79.0 | C3 | 0.75 | 0.45 |
| 28.0 | **455296** | 3/5V28.0–E | 85.0 | C3 | 0.75 | 0.45 |
| 31.5 | **455297** | 3/5V31.5–F | 124.0 | D3 | 0.56 | 0.86 |
| 37.5 | **455298** | 3/5V37.5–F | 143.0 | D3 | 0.56 | 0.86 |
| 50.0 | **455299** | 3/5V50.0–F | 218.0 | D3 | 0.31 | 1.11 |

| 4-Groove | | | | | | F = 3.06 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| ++4.4 | **455300** | 4/5V4.40–SD | 6.8 | E1 | 0.00 | 0.70 |
| ++4.65 | **455301** | 4/5V4.65–SD | 7.7 | E1 | 0.00 | 0.70 |
| ++4.9 | **455302** | 4/5V4.90–SD | 8.0 | A1 | 1.31 | 0.61 |
| ++5.2 | **455303** | 4/5V5.20–SD | 8.7 | A1 | 1.31 | 0.61 |
| ++5.5 | **455304** | 4/5V5.50–SD | 9.7 | A1 | 1.31 | 0.61 |
| ++5.9 | **455305** | 4/5V5.90–SD | 11.0 | A1 | 1.31 | 0.61 |
| ++6.3 | **455306** | 4/5V6.30–SK | 13.0 | A1 | 1.31 | 0.42 |
| ++6.7 | **455307** | 4/5V6.70–SK | 14.0 | A1 | 1.31 | 0.42 |
| 7.1 | **455308** | 4/5V7.1–SF | 17.0 | A1 | 1.31 | 0.37 |
| 7.5 | **455309** | 4/5V7.5–SF | 20.0 | A1 | 1.06 | 0.12 |
| 8.0 | **455310** | 4/5V8.0–E | 28.0 | B1 | 1.44 | 0.24 |
| 8.5 | **455311** | 4/5V8.5–E | 30.0 | B1 | 1.44 | 0.24 |
| 9.0 | **455312** | 4/5V9.0–E | 33.0 | B1 | 1.44 | 0.24 |
| 9.25 | **455313** | 4/5V9.25–E | 36.0 | B1 | 1.44 | 0.24 |
| 9.75 | **455314** | 4/5V9.75–E | 36.0 | B1 | 1.44 | 0.24 |
| 10.3 | **455315** | 4/5V10.3–E | 37.0 | B1 | 1.44 | 0.24 |
| 10.9 | **455316** | 4/5V10.9–E | 40.0 | B1 | 1.44 | 0.24 |
| 11.3 | **455317** | 4/5V11.3–E | 39.0 | B1 | 1.44 | 0.24 |
| 11.8 | **455318** | 4/5V11.8–E | 42.0 | B2 | 1.44 | 0.24 |
| 12.5 | **455319** | 4/5V12.5–E | 43.0 | B2 | 1.44 | 0.24 |
| 13.2 | **455320** | 4/5V13.2–E | 44.0 | A3 | 1.06 | 0.14 |
| 14.0 | **455321** | 4/5V14.0–E | 47.0 | A3 | 1.31 | 0.11 |
| 15.0 | **455322** | 4/5V15.0–E | 50.0 | A3 | 1.31 | 0.11 |
| 16.0 | **455323** | 4/5V16.0–E | 51.0 | A3 | 1.31 | 0.11 |
| 18.7 | **455324** | 4/5V18.7–E | 63.0 | A3 | 1.31 | 0.11 |
| 21.2 | **455325** | 4/5V21.2–E | 62.0 | D3 | 0.88 | 0.32 |
| 23.6 | **455326** | 4/5V23.6–F | 75.0 | D3 | 0.88 | 0.54 |
| 28.0 | **455327** | 4/5V28.0–F | 94.0 | D3 | 0.88 | 0.54 |
| 31.5 | **455328** | 4/5V31.5–F | 111.0 | D3 | 0.88 | 0.54 |
| 37.5 | **455329** | 4/5V37.5–F | 144.0 | D3 | 0.88 | 0.54 |
| 50.0 | **455330** | 4/5V50.0–J | 267.0 | D3 | 0.69 | 0.91 |

| 5-Groove | | | | | | F = 3.75 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| ++4.4 | **455331** | 5/5V4.4–SD | 8.0 | E1 | 0.00 | 0.70 |
| ++4.65 | **455332** | 5/5V4.65–SD | 8.5 | E1 | 0.00 | 0.70 |
| ++4.9 | **455333** | 5/5V4.9–SD | 10.0 | E1 | 0.00 | 0.70 |
| ++5.2 | **455334** | 5/5V5.2–SD | 11.0 | A1 | 1.31 | 0.61 |
| ++5.5 | **455335** | 5/5V5.5–SD | 11.0 | A1 | 1.31 | 0.61 |
| ++5.9 | **455336** | 5/5V5.9–SK | 13.0 | A1 | 1.31 | 0.42 |
| ++6.3 | **455337** | 5/5V6.3–SK | 15.0 | A1 | 1.31 | 0.42 |
| ++6.7 | **455338** | 5/5V6.7–SF | 16.0 | A1 | 1.19 | 0.25 |
| 7.1 | **455339** | 5/5V7.1–SF | 19.0 | A1 | 1.19 | 0.25 |
| 7.5 | **455340** | 5/5V7.5–SF | 21.0 | A1 | 1.19 | 0.25 |
| 8.0 | **455341** | 5/5V8.0–E | 30.0 | A1 | 1.38 | 0.18 |
| 8.5 | **455342** | 5/5V8.5–E | 33.0 | A1 | 1.38 | 0.18 |
| 9.0 | **455343** | 5/5V9.0–E | 36.0 | A1 | 1.38 | 0.18 |
| 9.25 | **455344** | 5/5V9.25–E | 38.0 | A1 | 1.38 | 0.18 |
| 9.75 | **455345** | 5/5V9.75–E | 38.0 | A1 | 1.38 | 0.18 |
| 10.3 | **455346** | 5/5V10.3–E | 41.0 | A1 | 1.38 | 0.18 |
| 10.9 | **455347** | 5/5V10.9–E | 45.0 | A1 | 1.38 | 0.18 |
| 11.3 | **455348** | 5/5V11.3–E | 42.0 | A1 | 1.38 | 0.18 |
| 11.8 | **455349** | 5/5V11.8–E | 45.0 | A2 | 1.38 | 0.18 |
| 12.5 | **455350** | 5/5V12.5–E | 55.0 | A2 | 1.38 | 0.18 |
| 13.2 | **455351** | 5/5V13.2–E | 58.0 | A2 | 1.38 | 0.18 |
| 14.0 | **455352** | 5/5V14.0–E | 60.0 | A2 | 1.38 | 0.18 |
| 15.0 | **455353** | 5/5V15.0–E | 61.0 | A3 | 1.31 | 0.11 |
| 16.0 | **455354** | 5/5V16.0–E | 67.0 | A3 | 1.25 | 0.05 |
| 18.7 | **455355** | 5/5V18.7–F | 92.0 | C3 | 1.31 | 0.11 |
| 21.2 | **455356** | 5/5V21.2–F | 77.0 | C3 | 1.31 | 0.11 |
| 23.6 | **455357** | 5/5V23.6–F | 88.0 | C3 | 1.31 | 0.11 |
| 28.0 | **455358** | 5/5V28.0–F | 111.0 | D3 | 1.08 | 0.34 |
| 31.5 | **455359** | 5/5V31.5–J | 150.0 | D3 | 1.00 | 0.60 |
| 37.5 | **455360** | 5/5V37.5–J | 186.0 | D3 | 0.81 | 0.79 |
| 50.0 | **455361** | 5/5V50.0–J | 273.0 | D3 | 1.00 | 0.60 |

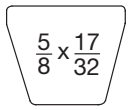
Δ Pitch diameter = O.D. – .10" . . .

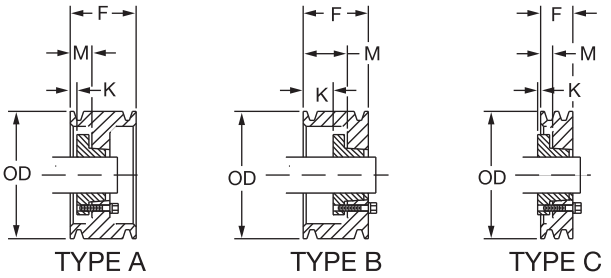
‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

++ 5VX Belts only on these sizes.

# Selection/Dimensions

## 5V QD Sheaves




| 6-Groove | | | | | | F = 4.44 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| ++4.4 | **455362** | 6/5V4.40–SD | 9.0 | E1 | 0.00 | 0.70 |
| ++4.65 | **455363** | 6/5V4.65–SD | 10.0 | E1 | 0.00 | 0.70 |
| ++4.90 | **455364** | 6/5V4.90–SD | 11.0 | E1 | 0.00 | 0.70 |
| ++5.20 | **455365** | 6/5V5.20–SD | 12.0 | A1 | 1.31 | 0.61 |
| ++5.50 | **455366** | 6/5V5.50–SD | 13.0 | A1 | 1.31 | 0.61 |
| ++5.90 | **455367** | 6/5V5.90–SK | 14.0 | A1 | 1.31 | 0.42 |
| ++6.30 | **455368** | 6/5V6.30–SK | 16.0 | A1 | 1.31 | 0.42 |
| ++6.70 | **455369** | 6/5V6.70–SF | 19.0 | A1 | 1.69 | 0.75 |
| 7.1 | **455370** | 6/5V7.1–SF | 21.0 | A1 | 1.63 | 0.68 |
| 7.5 | **455371** | 6/5V7.5–SF | 24.0 | A1 | 1.63 | 0.68 |
| 8.0 | **455372** | 6/5V8.0–E | 32.0 | A1 | 2.00 | 0.80 |
| 8.5 | **455373** | 6/5V8.5–E | 34.0 | A1 | 2.00 | 0.80 |
| 9.0 | **455374** | 6/5V9.0–E | 38.0 | A1 | 2.00 | 0.80 |
| 9.25 | **455375** | 6/5V9.25–E | 40.0 | A1 | 2.00 | 0.80 |
| 9.75 | **455376** | 6/5V9.75–E | 41.0 | A1 | 2.00 | 0.80 |
| 10.3 | **455377** | 6/5V10.3–E | 44.0 | A1 | 2.00 | 0.80 |
| 10.9 | **455378** | 6/5V10.9–E | 49.0 | A1 | 2.00 | 0.80 |
| 11.3 | **455379** | 6/5V11.3–E | 47.0 | A1 | 2.00 | 0.80 |
| 11.8 | **455380** | 6/5V11.8E | 49.0 | A2 | 2.00 | 0.80 |
| 12.5 | **455381** | 6/5V12.5–F | 63.0 | B2 | 2.06 | 0.64 |
| 13.2 | **455382** | 6/5V13.2–F | 64.0 | B2 | 2.06 | 0.64 |
| 14.0 | **455383** | 6/5V14.0–F | 73.0 | B2 | 2.06 | 0.64 |
| 15.0 | **455384** | 6/5V15.0–F | 75.0 | D2 | 1.31 | 0.11 |
| 16.0 | **455385** | 6/5V16.0–F | 91.0 | B3 | 1.88 | 0.46 |
| 18.7 | **455386** | 6/5V18.7–F | 99.0 | A3 | 1.44 | 0.02 |
| 21.2 | **455387** | 6/5V21.2–F | 86.0 | D3 | 1.31 | 0.11 |
| 23.6 | **455388** | 6/5V23.6–J | 121.0 | B3 | 1.31 | 0.11 |
| 28.0 | **455389** | 6/5V28.0–J | 145.0 | B3 | 1.31 | 0.11 |
| 31.5 | **455390** | 6/5V31.5–J | 167.0 | B3 | 1.31 | 0.11 |
| 37.5 | **455391** | 6/5V37.5–J | 208.0 | B3 | 1.31 | 0.11 |
| 50.0 | **455392** | 6/5V50.0–M | 353.0 | B3 | 0.00 | 1.74 |

| 8-Groove | | | | | | F = 5.81 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 7.1 | **455393** | 8/5V7.1–SF | 24.0 | A1 | 2.13 | 1.19 |
| 7.5 | **455394** | 8/5V7.5–SF | 28.0 | A1 | 2.13 | 1.19 |
| 8.0 | **455395** | 8/5V8.0–E | 36.0 | A1 | 2.50 | 1.30 |
| 8.5 | **455396** | 8/5V8.5–E | 39.0 | A1 | 2.50 | 1.30 |
| 9.0 | **455397** | 8/5V9.0–E | 43.0 | A1 | 2.50 | 1.30 |
| 9.25 | **455398** | 8/5V9.25–F | 55.0 | A1 | 2.31 | 0.89 |
| 9.75 | **455399** | 8/5V9.75–F | 56.0 | A1 | 2.31 | 0.89 |
| 10.3 | **455400** | 8/5V10.3–F | 60.0 | A1 | 2.31 | 0.89 |
| 10.9 | **455401** | 8/5V10.9–F | 65.0 | A1 | 2.31 | 0.89 |
| 11.3 | **455402** | 8/5V11.3–F | 70.0 | A1 | 2.31 | 0.89 |
| 11.8 | **455403** | 8/5V11.8–F | 67.0 | A1 | 2.31 | 0.89 |
| 12.5 | **455404** | 8/5V12.5–F | 76.0 | A1 | 2.56 | 1.14 |
| 13.2 | **455405** | 8/5V13.2–F | 77.0 | A1 | 2.56 | 1.14 |
| 14.0 | **455406** | 8/5V14.0–F | 77.0 | A1 | 2.44 | 1.02 |
| 15.0 | **455407** | 8/5V15.0–F | 85.0 | A2 | 2.44 | 1.02 |
| 16.0 | **455408** | 8/5V16.0–F | 90.0 | A3 | 2.38 | 0.96 |
| 18.7 | **455409** | 8/5V18.7–J | 138.0 | A3 | 2.91 | 1.31 |
| 21.2 | **455410** | 8/5V21.2–J | 126.0 | D3 | 1.56 | 0.04 |
| 23.6 | **455411** | 8/5V23.6–J | 141.0 | D3 | 1.56 | 0.04 |
| 28.0 | **455412** | 8/5V28.0–J | 172.0 | D3 | 1.56 | 0.04 |
| 31.5 | **455413** | 8/5V31.5–M | 246.0 | A3 | 1.94 | 0.20 |
| 37.5 | **455414** | 8/5V37.5–M | 296.0 | A3 | 1.94 | 0.20 |
| 50.0 | **455415** | 8/5V50.0–M | 419.0 | A3 | 1.94 | 0.20 |

| 10-Groove | | | | | | F = 7.19 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 8.0 | **456062** | 10/5V8.0–E | 42.0 | A1 | 3.25 | 2.05 |
| 8.5 | **456063** | 10/5V8.5–E | 44.0 | A1 | 3.25 | 2.05 |
| 9.0 | **456064** | 10/5V9.0–F | 57.0 | A1 | 3.31 | 1.89 |
| 9.25 | **456065** | 10/5V9.25–F | 60.0 | A1 | 3.31 | 1.89 |
| 9.75 | **456066** | 10/5V9.75–F | 61.0 | A1 | 3.31 | 1.89 |
| 10.3 | **456067** | 10/5V10.3–F | 66.0 | A1 | 3.31 | 1.89 |
| 10.9 | **456068** | 10/5V10.9–F | 72.0 | A1 | 3.31 | 1.89 |
| 11.3 | **456069** | 10/5V11.3–F | 78.0 | A1 | 3.31 | 1.89 |
| 11.8 | **456070** | 10/5V11.8–F | 80.0 | A1 | 3.31 | 1.89 |
| 12.5 | **456071** | 10/5V12.5–J | 111.0 | A1 | 3.56 | 1.96 |
| 13.2 | **456072** | 10/5V13.2–J | 115.0 | A1 | 3.56 | 1.96 |
| 14.0 | **456073** | 10/5V14.0–J | 118.0 | A1 | 3.44 | 1.84 |
| 15.0 | **456074** | 10/5V15.0–J | 120.0 | A1 | 3.31 | 1.71 |
| 16.0 | **456075** | 10/5V16.0–J | 160.0 | A1 | 3.56 | 1.96 |
| 18.7 | **456076** | 10/5V18.7–J | 151.0 | D2 | 1.56 | 0.04 |
| 21.2 | **456077** | 10/5V21.2–J | 143.0 | D2 | 1.56 | 0.04 |
| 23.6 | **456078** | 10/5V23.6–M | 209.0 | B3 | 1.94 | 0.20 |
| 28.0 | **456079** | 10/5V28.0–M | 245.0 | B3 | 1.94 | 0.20 |
| 31.5 | **456080** | 10/5V31.5–M | 277.0 | B3 | 1.94 | 0.20 |
| 37.5 | **456081** | 10/5V37.5–M | 337.0 | B3 | 1.94 | 0.20 |
| 50.0 | **456082** | 10/5V50.0–M | 484.0 | B3 | 1.94 | 0.20 |

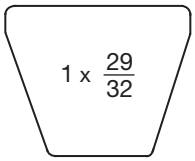
Δ Pitch diameter = O.D. – .10"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See drawings page PT4-2.**

++ 5VX Belts only on these sizes.

# Selection/Dimensions

## 8V QD Sheaves




| 4-Groove | | | | | | F = 4.88 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 12.5 | **455416** | 4/8V12.5–F | 83.0 | D1 | 1.19 | 0.23 |
| 13.2 | **455417** | 4/8V13.2–F | 88.0 | D2 | 1.19 | 0.23 |
| 14.0 | **455418** | 4/8V14.0–F | 88.0 | D2 | 1.19 | 0.23 |
| 15.0 | **455419** | 4/8V15.0–F | 111.0 | D2 | 1.19 | 0.23 |
| 16.0 | **455420** | 4/8V16.0–F | 105.0 | D2 | 1.19 | 0.23 |
| 17.0 | **455521** | 4/8V17.0–F | 150.0 | D3 | 1.19 | 0.23 |
| 18.0 | **455422** | 4/8V18.0–F | 150.0 | D3 | 1.19 | 0.23 |
| 19.0 | **455423** | 4/8V19.0–F | 146.0 | D3 | 1.19 | 0.23 |
| 20.0 | **455424** | 4/8V20.0–J | 145.0 | D3 | 1.44 | 0.16 |
| 21.2 | **455425** | 4/8V21.2–J | 181.0 | D3 | 1.44 | 0.16 |
| 22.4 | **455426** | 4/8V22.4–J | 199.0 | D3 | 1.44 | 0.16 |
| 24.8 | **456654** | 4/8V24.8–M | 211.0 | C3 | 1.44 | 0.93 |
| 30.0 | **455427** | 4/8V30.0–M | 292.0 | C3 | 0.81 | 0.93 |
| 35.5 | **456655** | 4/8V35.5–M | 367.0 | C3 | 0.81 | 0.93 |
| 40.0 | **455428** | 4/8V40.0–M | 434.0 | C3 | 0.81 | 0.93 |
| 44.5 | **456656** | 4/8V44.5–M | 371.0 | C3 | 0.81 | 0.93 |
| 53.0 | **455429** | 4/8V53.0–M | 818.0 | C3 | 0.81 | 0.93 |

| 5-Groove | | | | | | F = 6.00 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 12.5 | **455430** | 5/8V12.5–F | 69.0 | A2 | 2.31 | 0.89 |
| 13.2 | **455431** | 5/8V13.2–F | 75.0 | A2 | 2.31 | 0.89 |
| 14.0 | **455432** | 5/8V14.0–F | 83.0 | A2 | 2.31 | 0.89 |
| 15.0 | **455433** | 5/8V15.0–F | 94.0 | A2 | 2.31 | 0.89 |
| 16.0 | **455434** | 5/8V16.0–F | 106.0 | A2 | 2.31 | 0.89 |
| 17.0 | **455435** | 5/8V17.0–J | 133.0 | A2 | 2.00 | 0.40 |
| 18.0 | **455436** | 5/8V18.0–J | 147.0 | A3 | 2.00 | 0.40 |
| 19.0 | **455437** | 5/8V19.0–J | 161.0 | A3 | 2.00 | 0.40 |
| 20.0 | **455438** | 5/8V20.0–J | 141.0 | A3 | 2.00 | 0.40 |
| 21.2 | **455439** | 5/8V21.2–J | 151.0 | A3 | 2.00 | 0.40 |
| 22.4 | **456402** | 5/8V22.4–M | 208.0 | D3 | 1.94 | 0.20 |
| 24.8 | **456657** | 5/8V24.8–M | 229.0 | D3 | 1.94 | 0.20 |
| 30.0 | **455441** | 5/8V30.0–M | 276.0 | D3 | 1.94 | 0.20 |
| 35.5 | **456658** | 5/8V35.5–M | 334.0 | D3 | 1.94 | 0.20 |
| 40.0 | **455442** | 5/8V40.0–M | 385.0 | D3 | 1.94 | 0.20 |
| 44.5 | **456659** | 5/8V44.5–N | 459.0 | C3 | 0.94 | 1.11 |
| 53.0 | **455443** | 5/8V53.0–N | 574.0 | C3 | 0.94 | 1.11 |

| 6-Groove | | | | | | F = 7.13 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 12.5 | **455444** | 6/8V12.5–F | 78.0 | A1 | 2.31 | 0.89 |
| 13.2 | **455445** | 6/8V13.2–F | 85.0 | A2 | 2.31 | 0.89 |
| 14.0 | **455446** | 6/8V14.0–F | 94.0 | A2 | 2.31 | 0.89 |
| 15.0 | **455447** | 6/8V15.0–J | 122.0 | A2 | 2.56 | 0.96 |
| 16.0 | **455448** | 6/8V16.0–J | 134.0 | A2 | 2.56 | 0.96 |
| 17.0 | **455449** | 6/8V17.0–J | 147.0 | A2 | 2.56 | 0.96 |
| 18.0 | **455450** | 6/8V18.0–J | 161.0 | A2 | 2.56 | 0.96 |
| 19.0 | **455451** | 6/8V19.0–J | 177.0 | A3 | 2.56 | 0.96 |
| 20.0 | **455452** | 6/8V20.0–M | 232.0 | B3 | 2.94 | 1.20 |
| 21.2 | **455453** | 6/8V21.2–M | 216.0 | B3 | 2.94 | 1.20 |
| 22.4 | **455454** | 6/8V22.4–M | 227.0 | B3 | 2.94 | 1.20 |
| 24.8 | **456660** | 6/8V24.8–M | 251.0 | B3 | 1.94 | 0.20 |
| 30.0 | **455455** | 6/8V30.0–M | 306.0 | B3 | 2.06 | 0.32 |
| 35.5 | **456661** | 6/8V35.5–N | 391.0 | C3 | 1.13 | 0.92 |
| 40.0 | **455456** | 6/8V40.0–N | 450.0 | C3 | 1.13 | 0.92 |
| 44.5 | **456662** | 6/8V44.5–N | 511.0 | C3 | 1.13 | 0.92 |
| 53.0 | **455457** | 6/8V53.0–N | 646.0 | C3 | 1.13 | 0.92 |
| 63.0 | **456663** | 6/8V63.0–P | 856.0 | C3 | 2.00 | 0.30 |
| 71.0 | **456690** | 6/8V71.0–P | 1016.0 | C3 | 2.00 | 0.30 |

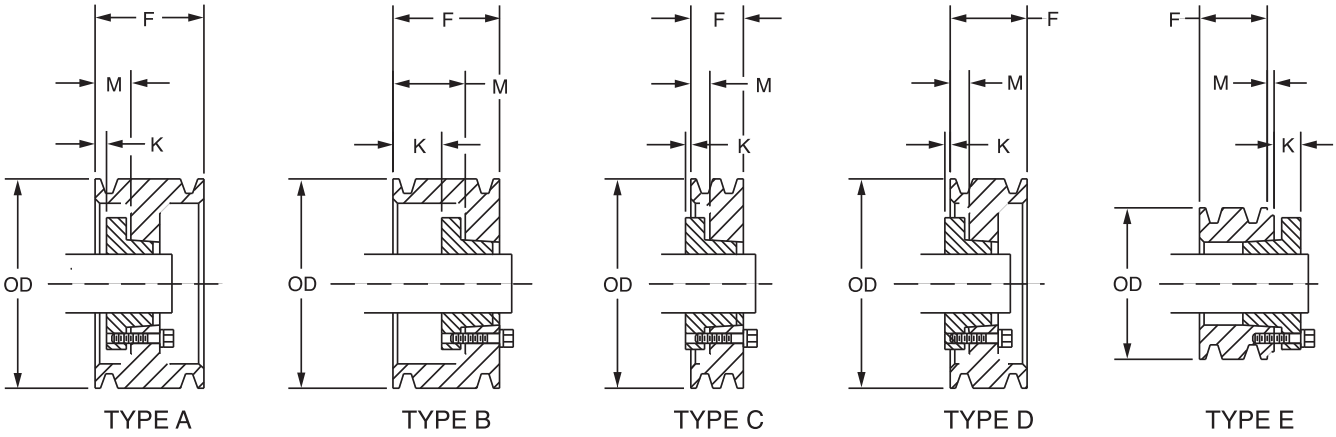
| 8-Groove | | | | | | F = 9.38 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 12.5 | **455458** | 8/8V12.5–J | 115.0 | A1 | 3.56 | 1.96 |
| 13.2 | **455459** | 8/8V13.2–J | 129.0 | A2 | 3.56 | 1.96 |
| 14.0 | **455460** | 8/8V14.0–J | 146.0 | A2 | 3.56 | 1.96 |
| 15.0 | **455461** | 8/8V15.0–J | 144.0 | A2 | 3.56 | 1.96 |
| 16.0 | **455462** | 8/8V16.0–J | 158.0 | A2 | 3.56 | 1.96 |
| 17.0 | **455463** | 8/8V17.0–M | 214.0 | A1 | 3.94 | 2.20 |
| 18.0 | **455464** | 8/8V18.0–M | 230.0 | A2 | 4.19 | 2.45 |
| 19.0 | **455465** | 8/8V19.0–M | 247.0 | A2 | 3.94 | 2.20 |
| 20.0 | **455466** | 8/8V20.0–M | 266.0 | A2 | 3.94 | 2.20 |
| 21.2 | **455467** | 8/8V21.2–M | 245.0 | A3 | 3.94 | 2.20 |
| 22.4 | **455468** | 8/8V22.4–M | 264.0 | A3 | 2.25 | 0.51 |
| 24.8 | **456664** | 8/8V24.8–N | 315.0 | A3 | 2.25 | 0.20 |
| 30.0 | **455469** | 8/8V30.0–N | 384.0 | A3 | 2.25 | 0.20 |
| 35.5 | **456665** | 8/8V35.5–N | 468.0 | A3 | 2.25 | 0.20 |
| 40.0 | **455470** | 8/8V40.0–N | 543.0 | B3 | 2.63 | 0.58 |
| 44.5 | **456666** | 8/8V44.5–P | 670.0 | B3 | 2.63 | 0.33 |
| 53.0 | **455471** | 8/8V53.0–P | 833.0 | B3 | 2.63 | 0.33 |
| 63.0 | **456667** | 8/8V63.0–P | 1049.0 | B3 | 2.63 | 0.33 |
| 71.0 | **456691** | 8/8V71.0–W | 1266.0 | C3 | 0.19 | 2.37 |

Δ Pitch diameter = O.D. – .20”

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## 8V QD Sheaves




| 10-Groove | | | | | | F = 11.63 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 12.5 | **455472** | 10/8V12.5–J | 133 | A1 | 3.56 | 1.96 |
| 13.2 | **455473** | 10/8V13.2–J | 148 | A1 | 3.56 | 1.96 |
| 14.0 | **455474** | 10/8V14.0–J | 166 | A2 | 3.56 | 1.96 |
| 15.0 | **455475** | 10/8V15.0–M | 224 | A2 | 3.94 | 2.20 |
| 16.0 | **455476** | 10/8V16.0–M | 260 | A2 | 3.94 | 2.20 |
| 17.0 | **455477** | 10/8V17.0–M | 241 | A1 | 3.94 | 2.20 |
| 18.0 | **455478** | 10/8V18.0–M | 259 | A2 | 3.94 | 2.20 |
| 19.0 | **455479** | 10/8V19.0–M | 279 | A2 | 3.94 | 2.20 |
| 20.0 | **455480** | 10/8V20.0–M | 300 | A2 | 3.94 | 2.20 |
| 21.2 | **455481** | 10/8V21.2–M | 286 | A3 | 3.94 | 2.20 |
| 22.4 | **455482** | 10/8V22.4–N | 321 | A3 | 2.25 | 0.20 |
| 24.8 | **456668** | 10/8V24.8–N | 357 | A3 | 2.25 | 0.20 |
| 30.0 | **455483** | 10/8V30.0–N | 444 | A3 | 2.25 | 0.20 |
| 35.5 | **456669** | 10/8V35.5–P | 591 | A3 | 2.63 | 0.33 |
| 40.0 | **455484** | 10/8V40.0–P | 680 | A3 | 2.63 | 0.33 |
| 44.5 | **456670** | 10/8V44.5–P | 775 | A3 | 2.63 | 0.33 |
| 53.0 | **455485** | 10/8V53.0–P | 971 | A3 | 2.63 | 0.33 |
| 63.0 | **456671** | 10/8V63.0–W | 1256 | D3 | 1.31 | 1.25 |
| 71.0 | **456692** | 10/8V71.0–W | 1482 | D3 | 1.31 | 1.25 |

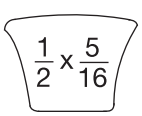
| 12-Groove | | | | | | F = 13.88 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 12.5 | **456672** | 12/8V12.5–M | 164 | A1 | 3.94 | 2.20 |
| 13.2 | **456673** | 12/8V13.2–M | 186 | A1 | 3.94 | 2.20 |
| 14.0 | **456674** | 12/8V14.0–M | 213 | A1 | 3.94 | 2.20 |
| 15.0 | **456675** | 12/8V15.0–M | 248 | A2 | 3.94 | 2.20 |
| 16.0 | **456676** | 12/8V16.0–M | 285 | A1 | 3.94 | 2.20 |
| 17.0 | **456677** | 12/8V17.0–M | 270 | A1 | 3.94 | 2.20 |
| 18.0 | **456678** | 12/8V18.0–M | 292 | A2 | 3.94 | 2.20 |
| 19.0 | **456679** | 12/8V19.0–N | 330 | A2 | 2.25 | 0.20 |
| 20.0 | **456680** | 12/8V20.0–N | 354 | A2 | 2.25 | 0.20 |
| 21.2 | **456681** | 12/8V21.2–N | 365 | A3 | 2.25 | 0.20 |
| 22.4 | **456682** | 12/8V22.4–N | 367 | A3 | 2.25 | 0.20 |
| 24.8 | **456683** | 12/8V24.8–N | 408 | A3 | 2.25 | 0.20 |
| 30.0 | **456684** | 12/8V30.0–P | 557 | A3 | 2.63 | 0.32 |
| 35.5 | **456685** | 12/8V35.5–P | 671 | A3 | 2.63 | 0.32 |
| 40.0 | **456686** | 12/8V40.0–P | 776 | A3 | 2.63 | 0.32 |
| 44.5 | **456687** | 12/8V44.5–P | 887 | A3 | 2.63 | 0.32 |
| 53.0 | **456688** | 12/8V53.0–W | 1150 | A3 | 2.88 | 0.32 |
| 63.0 | **456689** | 12/8V63.0–W | 1445 | D3 | 2.44 | 0.12 |
| 71.0 | **456693** | 12/8V71.0–W | 1706 | D3 | 2.44 | 0.12 |

Δ Pitch diameter = O.D. – .20"

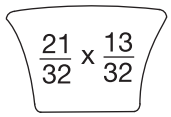
‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

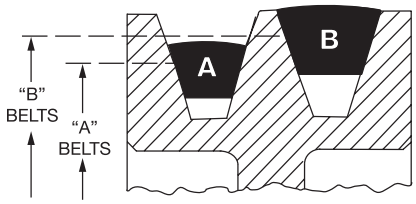
## A/B QD Sheaves



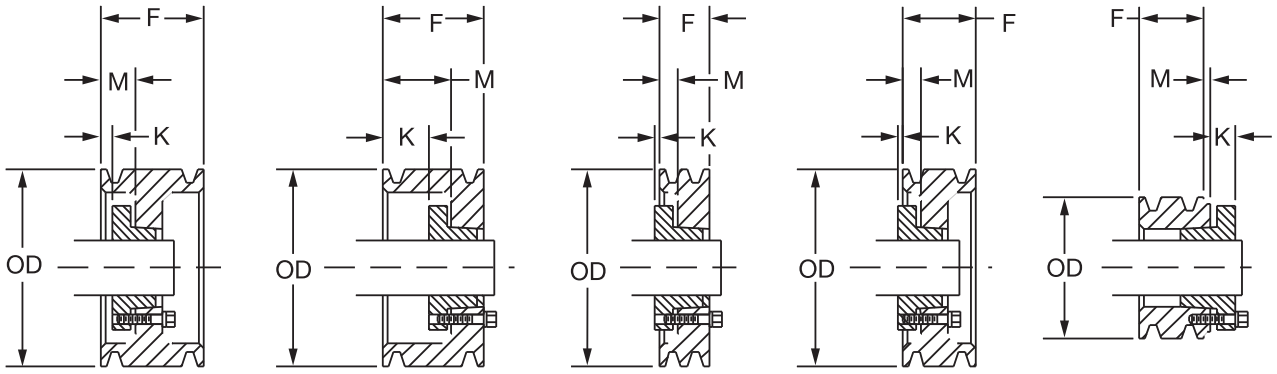

A




B




Drawing illustrates how either A or B belts may be used with combination groove sheaves.




**1-Groove** — F = .84 A3.2 thru A4.0 B4.4 to all others F = 1

| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
|---|---|---|---|---|---|---|
| 3.75 | **118283** | 1A3.0B3.4–SH | 2.0 | E1 | 0.44 | 0.68 |
| 3.95 | **118284** | 1A3.2B3.6–SH | 2.2 | D1 | 0.05 | 0.63 |
| 4.15 | **118285** | 1A3.4B3.8–SH | 2.4 | D1 | 0.05 | 0.63 |
| 4.35 | **118286** | 1A3.6B4.0–SH | 2.7 | D1 | 0.05 | 0.63 |
| 4.55 | **455550** | 1A3.8B4.2–SH | 2.9 | D1 | 0.05 | 0.63 |
| 4.75 | **455551** | 1A4.0B4.4–SH | 3.4 | D1 | 0.05 | 0.63 |
| 4.95 | **455552** | 1A4.2B4.6–SDS | 4.0 | D1 | 0.14 | 0.55 |
| 5.15 | **455553** | 1A4.4B4.8–SDS | 4.0 | D1 | 0.14 | 0.55 |
| 5.35 | **455554** | 1A4.6B5.0–SDS | 4.0 | D1 | 0.14 | 0.55 |
| 5.55 | **455555** | 1A4.8B5.2–SDS | 5.0 | D1 | 0.14 | 0.55 |
| 5.75 | **455556** | 1A5.0B5.4–SDS | 5.0 | D1 | 0.14 | 0.55 |
| 5.95 | **455557** | 1A5.2B5.6–SDS | 6.0 | C1 | 0.25 | 0.45 |
| 6.15 | **455558** | 1A5.4B5.8–SDS | 6.0 | C1 | 0.25 | 0.45 |
| 6.35 | **455559** | 1A5.6B6.0–SDS | 6.0 | C1 | 0.25 | 0.45 |
| 6.55 | **455560** | 1A5.8B6.2–SDS | 6.0 | C1 | 0.25 | 0.45 |
| 6.75 | **455561** | 1A6.0B6.4–SDS | 6.0 | C1 | 0.25 | 0.45 |
| 6.95 | **455562** | 1A6.2B6.6–SDS | 7.0 | C1 | 0.25 | 0.45 |
| 7.15 | **455563** | 1A6.4B6.8–SDS | 7.0 | C1 | 0.25 | 0.45 |
| 7.35 | **455564** | 1A6.6B7.0–SDS | 7.5 | D1 | 0.13 | 0.57 |
| 7.75 | **455565** | 1A7.0B7.4–SDS | 8.0 | C1 | 0.25 | 0.45 |
| 8.35 | **455566** | 1A7.6B8.0–SDS | 8.0 | D1 | 0.13 | 0.57 |
| 8.95 | **455567** | 1A8.2B8.6–SDS | 8.0 | D2 | 0.13 | 0.57 |
| 9.75 | **455568** | 1A9.0B9.4–SDS | 8.0 | D2 | 0.13 | 0.57 |
| 11.35 | **455569** | 1A10.6B11.0–SDS | 10.0 | D2 | 0.13 | 0.57 |
| 12.75 | **455570** | 1A12.0B12.4–SDS | 11.0 | D3 | 0.13 | 0.57 |
| 13.95 | **455571** | 1A13.2B13.6–SDS | 13.0 | D3 | 0.06 | 0.63 |
| 15.75 | **455572** | 1A15.0B15.4–SK | 16.0 | C3 | 0.06 | 0.83 |
| 16.35 | **455573** | 1A15.6B16.0–SK | 17.0 | C3 | 0.00 | 0.89 |
| 18.75 | **455574** | 1A18.0B18.4–SK | 18.0 | C3 | 0.00 | 0.89 |
| 20.35 | **455575** | 1B20.0–SK | 18.0 | C3 | 0.00 | 0.89 |

**2-Groove** — F = 1.75

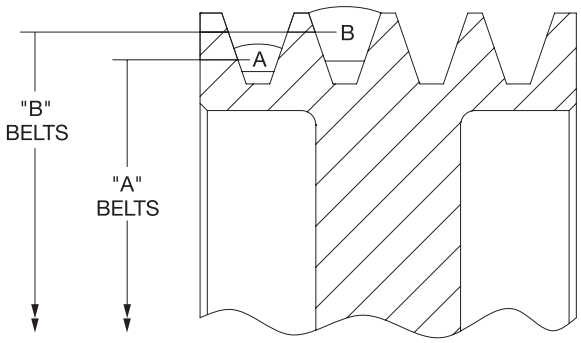
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
|---|---|---|---|---|---|---|
| 3.75 | **455576** | 2A3.0B3.4–SH | 3.2 | E1 | 0.38 | 0.68 |
| 3.95 | **455577** | 2A3.2B3.6–SH | 3.4 | E1 | 0.00 | 0.68 |
| 4.15 | **455578** | 2A3.4B3.8–SH | 3.9 | E1 | 0.00 | 0.68 |
| 4.35 | **455579** | 2A3.6B4.0–SH | 3.8 | A1 | 0.94 | 0.26 |
| 4.55 | **455580** | 2A3.8B4.2–SH | 4.4 | A1 | 0.94 | 0.26 |
| 4.75 | **455581** | 2A4.0B4.4–SH | 4.6 | A1 | 0.94 | 0.26 |
| 4.95 | **455582** | 2A4.2B4.6–SDS | 5.0 | A1 | 1.00 | 0.30 |
| 5.15 | **455583** | 2A4.4B4.8–SDS | 4.1 | A1 | 1.00 | 0.30 |
| 5.35 | **455584** | 2A4.6B5.0–SDS | 6.0 | A1 | 1.00 | 0.30 |
| 5.55 | **455585** | 2A4.8B5.2–SDS | 7.0 | A1 | 1.00 | 0.30 |
| 5.75 | **455586** | 2A5.0B5.4–SDS | 7.0 | A1 | 1.00 | 0.30 |
| 5.95 | **455587** | 2A5.2B5.6–SDS | 7.0 | A1 | 0.81 | 0.12 |
| 6.15 | **455588** | 2A5.4B5.8–SDS | 7.0 | D1 | 0.69 | 0.01 |
| 6.35 | **455589** | 2A5.6B6.0–SDS | 7.0 | D1 | 0.69 | 0.01 |
| 6.55 | **455590** | 2A5.8B6.2–SDS | 6.3 | D1 | 0.69 | 0.01 |
| 6.75 | **455591** | 2A6.0B6.4–SDS | 8.0 | D1 | 0.69 | 0.01 |
| 6.95 | **455592** | 2A6.2B6.6–SDS | 8.2 | D1 | 0.69 | 0.01 |
| 7.15 | **455593** | 2A6.4B6.8–SDS | 9.0 | D1 | 0.69 | 0.01 |
| 7.35 | **455594** | 2A6.6B7.0–SK | 10.0 | C1 | 0.50 | 0.39 |
| 7.75 | **455595** | 2A7.0B7.4–SK | 11.0 | C1 | 0.50 | 0.39 |
| 8.35 | **455596** | 2A7.6B8.0–SK | 11.0 | D2 | 0.44 | 0.46 |
| 8.95 | **455597** | 2A8.2B8.6–SK | 12.0 | D2 | 0.44 | 0.46 |
| 9.75 | **455598** | 2A9.0B9.4–SK | 12.0 | D2 | 0.44 | 0.46 |
| 11.35 | **455599** | 2A10.6B11.0–SK | 14.0 | D2 | 0.44 | 0.46 |
| 12.75 | **455600** | 2A12.0B12.4–SK | 18.0 | D3 | 0.44 | 0.46 |
| 13.95 | **455601** | 2A13.2B13.6–SK | 19.0 | D3 | 0.38 | 0.52 |
| 15.75 | **455602** | 2A15.0B15.4–SK | 24.0 | D3 | 0.44 | 0.46 |
| 16.35 | **455603** | 2A15.6B16.0–SK | 22.0 | D3 | 0.44 | 0.46 |
| 18.75 | **455604** | 2A18.0B18.4–SK | 29.0 | D3 | 0.31 | 0.58 |
| 20.35 | **455605** | 2B20.0–SF | 30.0 | D3 | 0.38 | 0.57 |
| 25.35 | **455606** | 2B25.0–SF | 40.0 | D3 | 0.38 | 0.57 |
| 30.35 | **455607** | 2B30.0–SF | 50.0 | D3 | 0.38 | 0.57 |
| 38.35 | **455608** | 2B38.0–SF | 70.0 | D3 | 0.34 | 0.60 |

Δ P.D. for "A" Belts = O.D. – .37"
P.D. for "B" Belts = O.D. + .01"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## A/B QD Sheaves




Drawing illustrates how either A or B belts may be used with combination groove sheaves.

| 3-Groove | | | | | | F = 2.50 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 3.75 | **455609** | 3A3.0B3.4–SH | 4.2 | E1 | 0.38 | 0.68 |
| 3.95 | **455610** | 3A3.2B3.6–SH | 4.7 | E1 | 0.00 | 0.68 |
| 4.15 | **455611** | 3A3.4B3.8–SH | 5.4 | E1 | 0.00 | 0.68 |
| 4.35 | **455612** | 3A3.6B4.0–SH | 4.8 | E1 | 0.00 | 0.68 |
| 4.55 | **455613** | 3A3.8B4.2–SH | 5.4 | E1 | 0.00 | 0.68 |
| 4.75 | **455614** | 3A4.0B4.4–SH | 5.6 | E1 | 0.00 | 0.68 |
| 4.95 | **455615** | 3A4.2B4.6–SD | 8.0 | A1 | 1.06 | 0.37 |
| 5.15 | **455616** | 3A4.4B4.8–SD | 8.5 | A1 | 1.06 | 0.67 |
| 5.35 | **455617** | 3A4.6B5.0–SD | 9.0 | A1 | 1.06 | 0.67 |
| 5.55 | **455618** | 3A4.8B5.2–SD | 9.0 | A1 | 1.06 | 0.37 |
| 5.75 | **455619** | 3A5.0B5.4–SD | 10.0 | A1 | 1.06 | 0.37 |
| 5.95 | **455620** | 3A5.2B5.6–SD | 11.0 | A1 | 1.06 | 0.37 |
| 6.15 | **455621** | 3A5.4B5.8–SD | 9.1 | A1 | 1.06 | 0.37 |
| 6.35 | **455622** | 3A5.6B6.0–SD | 10.0 | A1 | 1.06 | 0.37 |
| 6.55 | **455623** | 3A5.8B6.2–SD | 11.0 | A1 | 1.06 | 0.37 |
| 6.75 | **455624** | 3A6.0B6.4–SD | 11.0 | A1 | 1.06 | 0.37 |
| 6.95 | **455625** | 3A6.2B6.6–SD | 12.0 | A1 | 1.06 | 0.37 |
| 7.15 | **455626** | 3A6.4B6.8–SD | 13.0 | A1 | 1.06 | 0.37 |
| 7.35 | **455627** | 3A6.6B7.0–SK | 13.0 | D1 | 0.75 | 0.14 |
| 7.75 | **455628** | 3A7.0B7.4–SK | 13.0 | D1 | 0.75 | 0.14 |
| 8.35 | **455629** | 3A7.6B8.0–SK | 14.0 | D1 | 0.88 | 0.02 |
| 8.95 | **455630** | 3A8.2B8.6–SK | 13.0 | D1 | 0.88 | 0.02 |
| 9.75 | **455631** | 3A9.0B9.4–SK | 16.0 | D2 | 0.75 | 0.14 |
| 11.35 | **455632** | 3A10.6B11.0–SK | 19.0 | D2 | 0.75 | 0.14 |
| 12.75 | **455633** | 3A12.0B12.4–SK | 24.0 | D3 | 0.75 | 0.14 |
| 13.95 | **455634** | 3A13.2B13.6–SK | 24.0 | D3 | 0.69 | 0.21 |
| 15.75 | **455635** | 3A15.0B15.4–SK | 30.0 | D3 | 0.75 | 0.14 |
| 16.35 | **455636** | 3A15.6B16.0–SK | 27.0 | D3 | 0.75 | 0.14 |
| 18.75 | **455637** | 3A18.0B18.4–SK | 38.0 | D3 | 0.75 | 0.14 |
| 20.35 | **455638** | 3B20.0–SF | 38.0 | D3 | 0.63 | 0.32 |
| 25.35 | **455639** | 3B25.0–SF | 51.0 | D3 | 0.63 | 0.32 |
| 30.35 | **455640** | 3B30.0–SF | 65.0 | D3 | 0.63 | 0.32 |
| 38.35 | **455641** | 3B38.0–E | 95.0 | D3 | 0.63 | 0.57 |

| 4-Groove | | | | | | F = 3.25 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 3.75 | **455642** | 4A3.0B3.4–SD | 5.5 | E1 | 0.47 | 0.70 |
| 3.95 | **455643** | 4A3.2B3.6–SD | 5.8 | E1 | 0.47 | 0.70 |
| 4.15 | **455644** | 4A3.4B3.8–SD | 6.2 | E1 | 0.47 | 0.70 |
| 4.35 | **455645** | 4A3.6B4.0–SD | 6.6 | E1 | 0.00 | 0.70 |
| 4.55 | **455646** | 4A3.8B4.2–SD | 6.9 | E1 | 0.00 | 0.70 |
| 4.75 | **455647** | 4A4.0B4.4–SD | 7.5 | E1 | 0.00 | 0.70 |
| 4.95 | **455648** | 4A4.2B4.6–SD | 7.5 | A1 | 1.50 | 0.80 |
| 5.15 | **455649** | 4A4.4B4.8–SD | 7.3 | A1 | 1.50 | 0.80 |
| 5.35 | **455650** | 4A4.6B5.0–SD | 10.0 | A1 | 1.50 | 0.80 |
| 5.55 | **455651** | 4A4.8B5.2–SD | 11.0 | A1 | 1.50 | 0.80 |
| 5.75 | **455652** | 4A5.0B5.4–SD | 11.0 | A1 | 1.50 | 0.80 |
| 5.95 | **455653** | 4A5.2B5.6–SD | 12.0 | A1 | 1.50 | 0.80 |
| 6.15 | **455654** | 4A5.4B5.8–SD | 11.0 | A1 | 1.50 | 0.80 |
| 6.35 | **455655** | 4A5.6B6.0–SD | 11.0 | A1 | 1.50 | 0.80 |
| 6.55 | **455656** | 4A5.8B6.2–SD | 14.0 | A1 | 1.50 | 0.80 |
| 6.75 | **455657** | 4A6.0B6.4–SD | 14.0 | A1 | 1.50 | 0.80 |
| 6.95 | **455658** | 4A6.2B6.6–SD | 14.0 | A1 | 1.50 | 0.80 |
| 7.15 | **455659** | 4A6.4B6.8–SD | 14.0 | A1 | 1.50 | 0.80 |
| 7.35 | **455660** | 4A6.6B7.0–SK | 14.0 | A1 | 1.00 | 0.11 |
| 7.75 | **455661** | 4A7.0B7.4–SK | 15.0 | A1 | 1.25 | 0.36 |
| 8.35 | **455662** | 4A7.6B8.0–SK | 15.0 | A1 | 1.38 | 0.48 |
| 8.95 | **455663** | 4A8.2B8.6–SK | 17.0 | A1 | 1.50 | 0.61 |
| 9.75 | **455664** | 4A9.0B9.4–SK | 19.0 | A2 | 1.13 | 0.23 |
| 11.35 | **455665** | 4A10.6B11.0–SK | 22.0 | A2 | 1.00 | 0.11 |
| 12.75 | **455666** | 4A12.0B12.4–SK | 29.0 | A3 | 1.00 | 0.11 |
| 13.95 | **455667** | 4A13.2B13.6–SK | 29.0 | A3 | 1.00 | 0.11 |
| 15.75 | **455668** | 4A15.0B15.4–SF | 39.0 | A3 | 1.13 | 0.18 |
| 16.35 | **455669** | 4A15.6B16.0–SF | 34.0 | A3 | 1.00 | 0.06 |
| 18.75 | **455670** | 4A18.0B18.4–SF | 47.0 | A3 | 1.00 | 0.06 |
| 20.35 | **455671** | 4B20.0–SF | 46.0 | A3 | 1.00 | 0.06 |
| 25.35 | **455672** | 4B25.0–E | 66.0 | D3 | 1.00 | 0.20 |
| 30.35 | **455673** | 4B30.0–E | 83.0 | D3 | 0.63 | 0.57 |
| 38.35 | **455674** | 4B38.0–E | 115.0 | D3 | 1.00 | 0.20 |

Δ P.D. for "A" Belts = O.D. – .37"
P.D. for "B" Belts = O.D. + .01"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## A/B QD Sheaves

| 5-Groove | | | | | | F = 4.00 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 3.75 | **455675** | 5A3.0B3.4–SD | 5.9 | E1 | 0.47 | 0.70 |
| 3.95 | **455676** | 5A3.2B3.6–SD | 6.5 | E1 | 0.47 | 0.70 |
| 4.15 | **455677** | 5A3.4B3.8–SD | 7.2 | E1 | 0.47 | 0.70 |
| 4.35 | **455678** | 5A3.6B4.0–SD | 7.3 | E1 | 0.00 | 0.70 |
| 4.55 | **455679** | 5A3.8B4.2–SD | 8.0 | E1 | 0.00 | 0.70 |
| 4.75 | **455680** | 5A4.0B4.4–SD | 8.8 | E1 | 0.00 | 0.70 |
| 4.95 | **455681** | 5A4.2B4.6–SD | 9.0 | A1 | 1.31 | 0.62 |
| 5.15 | **455682** | 5A4.4B4.8–SD | 8.5 | A1 | 1.31 | 0.62 |
| 5.35 | **455683** | 5A4.6B5.0–SD | 11.0 | A1 | 1.31 | 0.62 |
| 5.55 | **455684** | 5A4.8B5.2–SD | 12.0 | A1 | 1.31 | 0.62 |
| 5.75 | **455685** | 5A5.0B5.4–SK | 12.0 | A1 | 1.31 | 0.42 |
| 5.95 | **455686** | 5A5.2B5.6–SK | 12.0 | A1 | 1.31 | 0.42 |
| 6.15 | **455687** | 5A5.4B5.8–SK | 13.0 | A1 | 1.31 | 0.42 |
| 6.35 | **455688** | 5A5.6B6.0–SK | 14.0 | A1 | 1.31 | 0.42 |
| 6.55 | **455689** | 5A5.8B6.2–SK | 13.0 | A1 | 1.31 | 0.42 |
| 6.75 | **455690** | 5A6.0B6.4–SK | 16.0 | A1 | 1.31 | 0.42 |
| 6.95 | **455691** | 5A6.2B6.6–SK | 15.0 | A1 | 1.31 | 0.42 |
| 7.15 | **455692** | 5A6.4B6.8–SK | 17.0 | A1 | 1.31 | 0.42 |
| 7.35 | **455693** | 5A6.6B7.0–SF | 16.0 | A1 | 1.31 | 0.37 |
| 7.75 | **455694** | 5A7.0B7.4–SF | 20.0 | A1 | 1.31 | 0.37 |
| 8.35 | **455695** | 5A7.6B8.0–SF | 17.0 | A1 | 1.31 | 0.37 |
| 8.95 | **455696** | 5A8.2B8.6–SF | 24.0 | A1 | 1.31 | 0.37 |
| 9.75 | **455697** | 5A9.0B9.4–SF | 24.0 | A1 | 1.31 | 0.37 |
| 11.35 | **455698** | 5A10.6B11.0–SF | 29.0 | A2 | 1.31 | 0.37 |
| 12.75 | **455699** | 5A12.0B12.4–SF | 34.0 | A3 | 1.06 | 0.12 |
| 13.95 | **455700** | 5A13.2B13.6–SF | 33.0 | A3 | 1.31 | 0.37 |
| 15.75 | **455701** | 5A15.0B15.4–SF | 46.0 | A3 | 1.31 | 0.37 |
| 16.35 | **455702** | 5A15.6B16.0–SF | 38.0 | A2 | 1.25 | 0.31 |
| 18.75 | **455703** | 5A18.0B18.4–SF | 55.0 | A3 | 1.31 | 0.37 |
| 20.35 | **455704** | 5B20.0–E | 58.0 | A3 | 1.25 | 0.05 |
| 25.35 | **455705** | 5B25.0–E | 76.0 | A3 | 1.25 | 0.05 |
| 30.35 | **455706** | 5B30.0–E | 97.0 | A3 | 1.25 | 0.05 |
| 38.35 | **455707** | 5B38.0–E | 135.0 | A3 | 1.25 | 0.05 |

| 6-Groove | | | | | | F = 4.75 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 3.75 | **455708** | 6A3.0B3.4–SD | 6.7 | E1 | 0.38 | 0.70 |
| 3.95 | **455709** | 6A3.2B3.6–SD | 7.4 | E1 | 0.38 | 0.70 |
| 4.15 | **455710** | 6A3.4B3.8–SD | 8.0 | E1 | 0.38 | 0.70 |
| 4.35 | **455711** | 6A3.6B4.0–SD | 8.4 | E1 | 0.00 | 0.70 |
| 4.55 | **455712** | 6A3.8B4.2–SD | 9.0 | E1 | 0.00 | 0.70 |
| 4.75 | **455713** | 6A4.0B4.4–SD | 10.0 | E1 | 0.00 | 0.70 |
| 4.95 | **455714** | 6A4.2B4.6–SD | 10.0 | A1 | 1.31 | 0.62 |
| 5.15 | **455715** | 6A4.4B4.8–SD | 10.0 | A1 | 1.31 | 0.62 |
| 5.35 | **455716** | 6A4.6B5.0–SD | 12.0 | A1 | 1.31 | 0.62 |
| 5.55 | **455717** | 6A4.8B5.2–SD | 13.0 | A1 | 1.31 | 0.62 |
| 5.75 | **455718** | 6A5.0B5.4–SK | 13.0 | A1 | 1.31 | 0.42 |
| 5.95 | **455719** | 6A5.2B5.6–SK | 14.0 | A1 | 1.31 | 0.42 |
| 6.15 | **455720** | 6A5.4B5.8–SK | 12.0 | A1 | 1.31 | 0.42 |
| 6.35 | **455721** | 6A5.6B6.0–SK | 15.0 | A1 | 1.31 | 0.42 |
| 6.55 | **455722** | 6A5.8B6.2–SK | 15.0 | A1 | 1.31 | 0.42 |
| 6.75 | **455723** | 6A6.0B6.4–SK | 17.0 | A1 | 1.31 | 0.42 |
| 6.95 | **455724** | 6A6.2B6.6–SK | 17.0 | A1 | 1.31 | 0.42 |
| 7.15 | **455725** | 6A6.4B6.8–SK | 19.0 | A1 | 1.31 | 0.42 |
| 7.35 | **455726** | 6A6.6B7.0–SF | 18.0 | A1 | 1.69 | 0.75 |
| 7.75 | **455727** | 6A7.0B7.4–SF | 22.0 | A1 | 1.69 | 0.75 |
| 8.35 | **455728** | 6A7.6B8.0–SF | 23.0 | A1 | 1.69 | 0.75 |
| 8.95 | **455729** | 6A8.2B8.6–SF | 26.0 | A1 | 1.69 | 0.75 |
| 9.75 | **455730** | 6A9.0B9.4–SF | 27.0 | A1 | 1.69 | 0.75 |
| 11.35 | **455731** | 6A10.6B11.0–SF | 32.0 | A2 | 1.69 | 0.75 |
| 12.75 | **455732** | 6A12.0B12.4–SF | 39.0 | A3 | 1.50 | 0.56 |
| 13.95 | **455733** | 6A13.2B13.6–SF | 38.0 | A3 | 1.69 | 0.75 |
| 15.75 | **455734** | 6A15.0B15.4–SF | 50.0 | A2 | 1.81 | 0.87 |
| 16.35 | **455735** | 6A15.6B16.0–SF | 44.0 | A2 | 1.81 | 0.87 |
| 18.75 | **455736** | 6A18.0B18.4–SF | 62.0 | A3 | 1.75 | 0.81 |
| 20.35 | **455737** | 6B20.0–E | 65.0 | A3 | 1.38 | 0.18 |
| 25.35 | **455738** | 6B25.0–E | 87.0 | A3 | 1.38 | 0.18 |
| 30.35 | **455739** | 6B30.0–E | 111.0 | A3 | 1.38 | 0.18 |
| 38.35 | **455740** | 6B38.0–E | 155.0 | A3 | 1.38 | 0.18 |

| 8-Groove | | | | | | F = 6.25 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 5.8 | **455741** | 8B5.4–SK | 15.0 | A1 | 1.88 | 0.98 |
| 6.0 | **455742** | 8B5.6–SK | 16.0 | A1 | 1.88 | 0.98 |
| 6.4 | **455743** | 8B6.0–SF | 21.0 | A1 | 1.81 | 0.87 |
| 6.8 | **455744** | 8B6.4–SF | 23.0 | A1 | 1.81 | 0.87 |
| 7.2 | **455745** | 8B6.8–SF | 25.0 | A1 | 1.25 | 0.31 |
| 7.8 | **455746** | 8B7.4–SF | 28.0 | A1 | 1.25 | 1.18 |
| 9.0 | **455747** | 8B8.6–E | 40.0 | A1 | 2.38 | 1.18 |
| 9.8 | **455748** | 8B9.4–E | 43.0 | A1 | 2.38 | 1.18 |
| 11.4 | **455749** | 8B11.0–E | 49.0 | A1 | 2.38 | 1.18 |
| 12.8 | **455750** | 8B12.4–E | 56.0 | A2 | 2.38 | 1.18 |
| 15.8 | **455751** | 8B15.4–E | 69.0 | A2 | 2.38 | 1.18 |
| 18.8 | **455752** | 8B18.4–F | 91.0 | D3 | 1.31 | 0.11 |
| 20.4 | **455753** | 8B20.0–F | 84.0 | D3 | 1.31 | 0.11 |
| 25.4 | **455754** | 8B25.0–F | 111.0 | D3 | 1.31 | 0.11 |
| 30.4 | **455755** | 8B30.0–F | 142.0 | D3 | 1.31 | 0.11 |
| 38.4 | **455756** | 8B38.0–F | 200.0 | D3 | 1.31 | 0.11 |

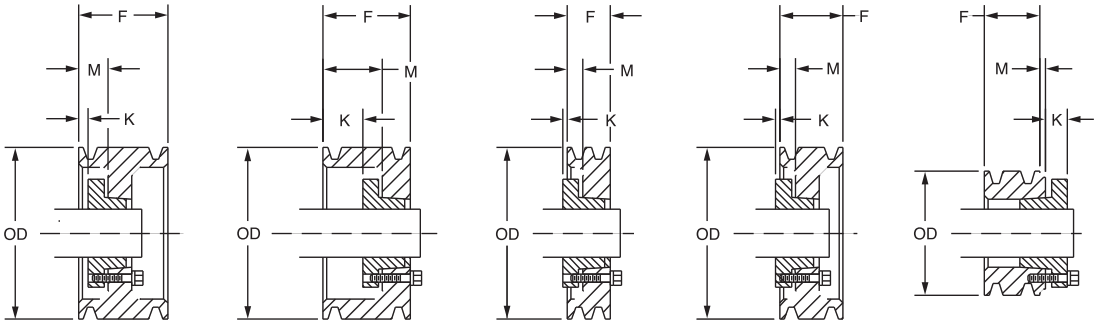
| 10-Groove | | | | | | F = 7.75 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 5.8 | **455757** | 10B5.4–SK | 18.0 | A1 | 3.25 | 2.36 |
| 6.0 | **455758** | 10B5.6–SK | 19.0 | A1 | 3.50 | 2.61 |
| 6.4 | **455759** | 10B6.0–SF | 24.0 | A1 | 3.25 | 2.31 |
| 6.8 | **455760** | 10B6.4–SF | 26.0 | A1 | 3.50 | 2.56 |
| 7.2 | **455761** | 10B6.8 SF | 28.0 | A1 | 3.00 | 2.06 |
| 7.8 | **455762** | 10B7.4–SF | 32.0 | A1 | 2.56 | 1.62 |
| 9.0 | **455763** | 10B8.6–E | 47.0 | A1 | 3.13 | 1.93 |
| 9.8 | **455764** | 10B9.4–E | 48.0 | A1 | 3.13 | 1.93 |
| 11.4 | **455765** | 10B11.0–E | 56.0 | A1 | 3.13 | 1.93 |
| 12.8 | **455766** | 10B12.4–F | 64.0 | A1 | 3.13 | 1.70 |
| 15.8 | **455767** | 10B15.4 F | 88.0 | A2 | 2.06 | 0.64 |
| 18.8 | **455768** | 10B18.4–F | 103.0 | A3 | 2.06 | 0.64 |
| 20.4 | **455769** | 10B20.0–F | 99.0 | A3 | 2.06 | 0.64 |
| 25.4 | **455770** | 10B25.0–F | 132.0 | A3 | 2.06 | 0.64 |
| 30.4 | **455771** | 10B30.0–F | 169.0 | A3 | 2.06 | 0.64 |
| 38.4 | **455772** | 10B38.0–J | 257.0 | D3 | 1.44 | 0.16 |

Δ P.D. for "A" Belts = O.D. – .37"
P.D. for "B" Belts = O.D. + .01"

‡ **Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

# Selection/Dimensions

## C QD Sheaves




TYPE A TYPE B TYPE C TYPE D TYPE E

| 1-Groove | | | | | | F = 1.38 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 7.4 | **455773** | 1C7.0–SF | 9.0 | C1 | 0.13 | 0.82 |
| 7.9 | **455774** | 1C7.5–SF | 11.0 | C1 | 0.13 | 0.82 |
| 8.4 | **455775** | 1C8.0–SF | 11.0 | C1 | 0.13 | 0.82 |
| 8.9 | **455776** | 1C8.5–SF | 12.0 | C1 | 0.13 | 0.82 |
| 9.4 | **455777** | 1C9.0–SF | 12.0 | C1 | 0.13 | 0.82 |
| 9.9 | **455778** | 1C9.5–SF | 13.0 | C1 | 0.13 | 0.82 |
| 10.4 | **455779** | 1C10.0–SF | 14.0 | C2 | 0.13 | 0.82 |
| 10.9 | **455780** | 1C10.5–SF | 14.0 | C2 | 0.13 | 0.82 |
| 11.4 | **455781** | 1C11.0–SF | 16.0 | C2 | 0.13 | 0.82 |
| 12.4 | **455782** | 1C12.0–SF | 17.0 | C2 | 0.13 | 0.82 |
| 13.4 | **455783** | 1C13.0–SF | 19.0 | C3 | 0.13 | 0.82 |
| 14.4 | **455784** | 1C14.0–SF | 21.0 | C3 | 0.13 | 0.82 |
| 16.4 | **455785** | 1C16.0–SF | 24.0 | C3 | 0.13 | 0.82 |
| 18.4 | **455786** | 1C18.0–SF | 27.0 | C3 | 0.13 | 0.82 |
| 20.4 | **455787** | 1C20.0–SF | 31.0 | C3 | 0.13 | 0.82 |
| 24.4 | **455788** | 1C24.0–SF | 38.0 | C3 | 0.13 | 0.82 |

| 2-Groove | | | | | | F = 2.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 7.4 | **455789** | 2C7.0–SF | 18.0 | D1 | 0.81 | 0.13 |
| 7.9 | **455790** | 2C7.5–SF | 20.0 | D1 | 0.81 | 0.13 |
| 8.4 | **455791** | 2C8.0–SF | 19.0 | D1 | 0.81 | 0.13 |
| 8.9 | **455792** | 2C8.5–SF | 20.0 | D1 | 0.81 | 0.13 |
| 9.4 | **455793** | 2G9.0–SF | 21.0 | D1 | 0.81 | 0.13 |
| 9.9 | **455794** | 2C9.5–SF | 22.0 | D1 | 0.81 | 0.13 |
| 10.4 | **455795** | 2C10.0–SF | 23.0 | D2 | 0.81 | 0.13 |
| 10.9 | **455796** | 2C10.5–SF | 23.0 | D2 | 0.81 | 0.13 |
| 11.4 | **455797** | 2C11.0–SF | 25.0 | D2 | 0.81 | 0.13 |
| 12.4 | **455798** | 2C12.0–SF | 27.0 | D2 | 0.56 | 0.38 |
| 13.4 | **455799** | 2C13.0–SF | 29.0 | D3 | 0.56 | 0.68 |
| 14.4 | **455800** | 2C14.0–SF | 34.0 | D3 | 0.56 | 0.38 |
| 16.4 | **455801** | 2C16.0–SF | 39.0 | D3 | 0.63 | 0.32 |
| 18.4 | **455802** | 2C18.0–SF | 39.0 | D2 | 0.63 | 0.32 |
| 20.4 | **455803** | 2C20.0–SF | 43.0 | D3 | 0.56 | 0.38 |
| 24.4 | **455804** | 2C24.0–SF | 55.0 | D3 | 0.56 | 0.38 |
| 27.4 | **456012** | 2C27.0–F | 72.0 | C3 | 0.56 | 0.86 |
| 30.4 | **456805** | 2C30.0–F | 82.0 | C3 | 0.56 | 0.86 |

| 3-Groove | | | | | | F = 3.38 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 5.4 | **455806** | +3C5.0–SD | 9.0 | A1 | 1.31 | 0.62 |
| 5.9 | **455807** | +3C5.5–SD | 10.0 | A1 | 1.31 | 0.62 |
| 6.4 | **455808** | +3C6.0–SF | 10.0 | A1 | 1.31 | 0.37 |
| 7.4 | **455809** | 3C7.0–SF | 20.0 | A1 | 1.13 | 0.18 |
| 7.9 | **455810** | 3C7.5–SF | 23.0 | A1 | 1.31 | 0.37 |
| 8.4 | **455811** | 3C8.0–E | 33.0 | B1 | 1.75 | 0.55 |
| 8.9 | **455812** | 3C8.5–E | 35.0 | B1 | 1.75 | 0.55 |
| 9.4 | **455813** | 3C9.0–E | 36.0 | B1 | 1.75 | 0.55 |
| 9.9 | **455814** | 3C9.5–E | 37.0 | B1 | 1.75 | 0.55 |
| 10.4 | **455815** | 3C10.0–E | 39.0 | B1 | 1.75 | 0.55 |
| 10.9 | **455816** | 3C10.5–E | 39.0 | B1 | 1.75 | 0.55 |
| 11.4 | **455817** | 3C11.0–E | 40.0 | B1 | 1.75 | 0.55 |
| 12.4 | **455818** | 3C12.0–E | 43.0 | B2 | 1.75 | 0.55 |
| 13.4 | **455819** | 3C13.0–E | 45.0 | B3 | 1.75 | 0.55 |
| 14.4 | **455820** | 3C14.0–E | 51.0 | B3 | 1.75 | 0.55 |
| 16.4 | **455821** | 3C16.0–E | 59.0 | A3 | 1.31 | 0.12 |
| 18.4 | **455822** | 3C18.0–E | 55.0 | D3 | 0.81 | 0.38 |
| 20.4 | **455823** | 3C20.0–E | 60.0 | D3 | 1.00 | 0.20 |
| 24.4 | **455824** | 3C24.0–E | 75.0 | D3 | 1.00 | 0.20 |
| 27.4 | **456013** | 3C27.0–F | 91.0 | D3 | 0.81 | 0.61 |
| 30.4 | **455825** | 3C30.0–F | 104.0 | D3 | 0.81 | 0.61 |
| 36.4 | **455826** | 3C36.0–F | 133.0 | D3 | 0.81 | 0.61 |
| 44.4 | **455827** | 3C44.0–F | 176.0 | D3 | 0.81 | 0.61 |
| 50.4 | **455828** | 3C50.0–F | 211.0 | D3 | 0.81 | 0.61 |

| 4-Groove | | | | | | F = 4.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 5.4 | **455829** | +4C5.0–SD | 11.0 | A1 | 1.56 | 0.87 |
| 5.9 | **455830** | +4C5.5–SD | 12.0 | A1 | 1.56 | 0.87 |
| 6.4 | **455831** | +4C6.0–SF | 11.0 | A1 | 1.56 | 0.62 |
| 7.4 | **455832** | 4C7.0–SF | 23.0 | A1 | 1.56 | 0.62 |
| 7.9 | **455833** | 4C7.5–SF | 25.0 | A1 | 1.50 | 0.56 |
| 8.4 | **455834** | 4C8.0–E | 36.0 | A1 | 2.00 | 0.80 |
| 8.9 | **455835** | 4C8.5–E | 39.0 | A1 | 2.00 | 0.80 |
| 9.4 | **455836** | 4C9.0–E | 39.0 | A1 | 2.13 | 0.93 |
| 9.9 | **455837** | 4C9.5–E | 41.0 | A1 | 2.00 | 0.80 |
| 10.4 | **455838** | 4C10.0–E | 43.0 | A1 | 2.13 | 0.93 |
| 10.9 | **455839** | 4C10.5–E | 44.0 | A1 | 2.13 | 0.93 |
| 11.4 | **455840** | 4C11.0–E | 46.0 | A1 | 2.13 | 0.93 |
| 12.4 | **455841** | 4C12.0–E | 50.0 | A2 | 2.13 | 0.93 |
| 13.4 | **455842** | 4C13.0–E | 53.0 | A3 | 2.00 | 0.80 |
| 14.4 | **455843** | 4C14.0–E | 59.0 | A2 | 1.81 | 0.62 |
| 16.4 | **455844** | 4C16.0–E | 69.0 | A3 | 1.94 | 0.74 |
| 18.4 | **455845** | 4C18.0–E | 66.0 | A3 | 1.88 | 0.68 |
| 20.4 | **455846** | 4C20.0–E | 72.0 | A3 | 1.50 | 0.30 |
| 24.4 | **455847** | 4C24.0–F | 95.0 | D3 | 1.31 | 0.11 |
| 27.4 | **456014** | 4C27.0–F | 110.0 | D3 | 1.31 | 0.11 |
| 30.4 | **455848** | 4C30.0–F | 126.0 | D3 | 1.31 | 0.11 |
| 36.4 | **455849** | 4C36.0–F | 162.0 | D3 | 1.31 | 0.11 |
| 44.4 | **455850** | 4C44.0–F | 236.0 | D3 | 1.19 | 0.41 |
| 50.4 | **455851** | 4C50.0–J | 279.0 | D3 | 1.56 | 0.04 |

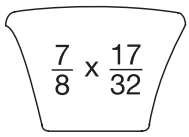
Δ Pitch Diameter = O.D.

**‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

+ Recommended CX Belt only

# Selection/Dimensions

## C QD Sheaves




| 5-Groove | | | | | | F = 5.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 6.4 | **455852** | +5C6.0–SF | 13.0 | A1 | 1.94 | 1.00 |
| 7.9 | **455854** | 5C7.5–SF | 28.0 | A1 | 1.88 | 0.93 |
| 8.4 | **455855** | 5C8.0–E | 39.0 | A1 | 1.50 | 0.30 |
| 8.9 | **455856** | 5C8.5–E | 42.0 | A1 | 1.63 | 0.43 |
| 9.4 | **455857** | 5C9.0–E | 43.0 | A1 | 1.63 | 0.43 |
| 9.9 | **455858** | 5C9.5–E | 45.0 | A1 | 1.50 | 0.30 |
| 10.4 | **455859** | 5C10.0–E | 48.0 | A1 | 1.50 | 0.30 |
| 10.9 | **455860** | 5C10.5–E | 50.0 | A1 | 1.50 | 0.30 |
| 11.4 | **455861** | 5C11.0–E | 52.0 | A1 | 2.25 | 1.05 |
| 12.4 | **455862** | 5C12.0–E | 57.0 | A1 | 2.22 | 1.02 |
| 13.4 | **455863** | 5C13.0–E | 61.0 | A2 | 2.00 | 0.80 |
| 14.4 | **455864** | 5C14.0–E | 69.0 | A2 | 2.00 | 0.80 |
| 16.4 | **455865** | 5C16.0–E | 79.0 | A3 | 2.00 | 0.80 |
| 18.4 | **455866** | 5C18.0–E | 74.0 | A3 | 2.38 | 1.18 |
| 20.4 | **455867** | 5C20.0–F | 88.0 | D3 | 1.31 | 0.11 |
| 24.4 | **455868** | 5C24.0–F | 110.0 | D3 | 1.31 | 0.11 |
| 27.4 | **456083** | 5C27.0–F | 128.0 | D3 | 1.31 | 0.11 |
| 30.4 | **455869** | 5C30.0–F | 148.0 | D3 | 1.31 | 0.11 |
| 36.4 | **455870** | 5C36.0–J | 212.0 | D3 | 1.31 | 0.29 |
| 44.4 | **455871** | 5C44.0–J | 274.0 | D3 | 1.31 | 0.29 |
| 50.0 | **455872** | 5C50.0–J | 325.0 | D3 | 1.56 | 0.04 |

| 8-Groove | | | | | | F = 8.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 7.4 | **455894** | 8C7.0–SF | 32.0 | A1 | 4.00 | 3.06 |
| 8.4 | **455895** | 8C8.0–E | 49.0 | A1 | 3.25 | 2.05 |
| 8.9 | **455896** | 8C8.5–E | 53.0 | A1 | 3.25 | 2.05 |
| 9.4 | **455897** | 8C9.0–F | 68.0 | A1 | 2.50 | 1.08 |
| 9.9 | **455898** | 8C9.5–F | 74.0 | A1 | 2.50 | 1.08 |
| 10.4 | **455899** | 8C10.0–F | 73.0 | A1 | 2.50 | 1.08 |
| 10.9 | **455900** | 8C10.5–F | 74.0 | A1 | 2.50 | 1.08 |
| 11.4 | **455901** | 8C11.0–F | 78.0 | A1 | 3.38 | 1.95 |
| 12.4 | **455902** | 8C12.0–F | 86.0 | A1 | 3.38 | 1.95 |
| 13.4 | **455903** | 8C13.0–F | 93.0 | A1 | 3.38 | 1.95 |
| 14.4 | **455904** | 8C14.0–F | 102.0 | A1 | 3.38 | 1.95 |
| 16.4 | **455905** | 8C16.0–F | 116.0 | A3 | 3.38 | 1.95 |
| 18.4 | **455906** | 8C18.0–F | 133.0 | A3 | 3.63 | 2.20 |
| 20.4 | **455907** | 8C20.0–J | 147.0 | D3 | 1.56 | 0.04 |
| 24.4 | **455908** | 8C24.0–J | 179.0 | D3 | 1.56 | 0.04 |
| 27.4 | **456085** | 8C27.0–J | 205.0 | D3 | 1.56 | 0.04 |
| 30.4 | **455909** | 8C30.0–J | 233.0 | D3 | 1.56 | 0.04 |
| 36.4 | **455910** | 8C36.0–M | 339.0 | A3 | 1.94 | 0.20 |
| 44.4 | **455911** | 8C44.0–M | 428.0 | A3 | 1.94 | 0.20 |
| 50.4 | **455912** | 8C50.0–M | 502.0 | A3 | 1.94 | 0.20 |

| 12-Groove | | | | | | F = 12.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 9.4 | **455930** | 12C9.0–J | 92.0 | A1 | 4.06 | 2.46 |
| 9.9 | **455931** | 12C9.5–J | 100.0 | A1 | 4.06 | 2.46 |
| 10.4 | **455932** | 12C10.0–J | 108.0 | A1 | 4.06 | 2.46 |
| 10.9 | **455933** | 12C10.5–J | 115.0 | A1 | 4.06 | 2.46 |
| 11.4 | **455934** | 12C11.0–J | 125.0 | A1 | 4.06 | 2.46 |
| 12.4 | **455935** | 12C12.0–J | 127.0 | A1 | 4.06 | 2.46 |
| 13.4 | **455936** | 12C13.0–J | 135.0 | A1 | 4.06 | 2.46 |
| 14.4 | **455937** | 12C14.0–J | 145.0 | A1 | 4.06 | 2.46 |
| 16.4 | **455938** | 12C16.0–J | 165.0 | A2 | 4.06 | 2.46 |
| 18.4 | **455939** | 12C18.0–J | 198.0 | A3 | 4.06 | 2.46 |
| 20.4 | **455940** | 12C20.0–M | 277.0 | A3 | 1.94 | 0.20 |
| 24.4 | **455941** | 12C24.0–M | 287.0 | A3 | 1.94 | 0.20 |
| 30.4 | **455942** | 12C30.0–M | 362.0 | A3 | 1.94 | 0.20 |
| 36.4 | **455943** | 12C36.0–M | 446.0 | A3 | 1.94 | 0.20 |
| 44.4 | **455944** | 12C44.0–M | 572.0 | A3 | 1.94 | 0.20 |
| 50.4 | **455945** | 12C50.0–M | 676.0 | A3 | 1.94 | 0.20 |

| 6-Groove | | | | | | F = 6.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 6.4 | **455873** | +6C6.0–SF | 15.0 | A1 | 1.94 | 1.00 |
| 7.4 | **455874** | 6C7.0–SF | 29.0 | A1 | 1.94 | 1.00 |
| 7.9 | **455875** | 6C7.5–SF | 31.0 | A1 | 1.94 | 1.18 |
| 8.4 | **455876** | 6C8.0–E | 42.0 | A1 | 2.38 | 1.18 |
| 8.9 | **455877** | 6C8.5-E | 46.0 | A1 | 2.38 | 1.02 |
| 9.4 | **455878** | 6C9.0–F | 60.0 | A1 | 2.44 | 1.02 |
| 9.9 | **455879** | 6C9.5–F | 66.0 | A1 | 2.44 | 1.02 |
| 10.4 | **455880** | 6C10.0–F | 64.0 | A1 | 2.44 | 1.02 |
| 10.9 | **455881** | 6C10.5–F | 65.0 | A1 | 2.44 | 1.02 |
| 11.4 | **455882** | 6C11.0–F | 68.0 | A1 | 2.44 | 1.02 |
| 12.4 | **455883** | 6C12.0–F | 73.0 | A1 | 2.44 | 1.02 |
| 13.4 | **455884** | 6C13.0–F | 76.0 | A2 | 2.50 | 1.08 |
| 14.4 | **455885** | 6C14.0–F | 85.0 | A2 | 2.44 | 1.02 |
| 16.4 | **455886** | 6C16.0–F | 96.0 | A3 | 2.44 | 1.02 |
| 18.4 | **455887** | 6C18.0–F | 90.0 | A3 | 2.63 | 1.20 |
| 20.4 | **455888** | 6C20.0–F | 100.0 | A3 | 1.94 | 0.52 |
| 24.4 | **455889** | 6C24.0–F | 126.0 | A3 | 1.94 | 0.52 |
| 27.4 | **456084** | 6C27.0–J | 169.0 | D3 | 0.56 | 0.04 |
| 30.4 | **455890** | 6C30.0–J | 191.0 | D3 | 1.56 | 0.04 |
| 36.4 | **455891** | 6C36.0–J | 239.0 | D3 | 1.56 | 0.04 |
| 44.4 | **455892** | 6C44.0–J | 310.0 | D3 | 1.56 | 0.04 |
| 50.4 | **455893** | 6C50.0–J | 415.0 | B3 | 1.94 | 0.34 |

| 10-Groove | | | | | | F = 10.37 |
|---|---|---|---|---|---|---|
| O.D.Δ | Part No. | Description | Wt. | Type‡ | M | K |
| 8.4 | **455913** | 10C8.0–E | 76.0 | A1 | 3.25 | 2.05 |
| 8.9 | **455914** | 10C8.5–E | 80.0 | A1 | 3.25 | 2.05 |
| 9.4 | **455915** | 10C9.0–J | 84.0 | A1 | 3.56 | 1.96 |
| 9.9 | **455916** | 10C9.5–J | 91.0 | A1 | 3.56 | 1.96 |
| 10.4 | **455917** | 10C10.0–J | 99.0 | A1 | 3.56 | 1.96 |
| 10.9 | **455918** | 10C10.5–J | 106.0 | A1 | 3.56 | 1.96 |
| 11.4 | **455919** | 10C11.0–J | 115.0 | A1 | 3.56 | 1.96 |
| 12.4 | **455920** | 10C12.0–J | 114.0 | A1 | 3.56 | 1.96 |
| 13.4 | **456061** | 10C13.0–J | 119.0 | A1 | 3.56 | 1.96 |
| 14.4 | **455921** | 10C14.0–J | 128.0 | A1 | 3.63 | 2.02 |
| 16.4 | **455922** | 10C16.0–J | 147.0 | A1 | 3.56 | 1.96 |
| 18.4 | **455923** | 10C18.0–J | 156.0 | A3 | 3.56 | 1.96 |
| 20.4 | **455924** | 10C20.0–J | 171.0 | A3 | 3.56 | 1.96 |
| 24.4 | **455925** | 10C24.0–M | 257.0 | A3 | 1.94 | 0.20 |
| 30.4 | **455926** | 10C30.0–M | 321.0 | A3 | 1.94 | 0.20 |
| 36.4 | **455927** | 10C36.0–M | 393.0 | A3 | 1.94 | 0.20 |
| 44.4 | **455928** | 10C44.0–M | 500.0 | A3 | 1.94 | 0.20 |
| 50.4 | **455929** | 10C50.0–M | 589.0 | A3 | 1.94 | 0.20 |

Δ Pitch Diameter = O.D.

**‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT4-2.**

+ Recommended CX Belt only

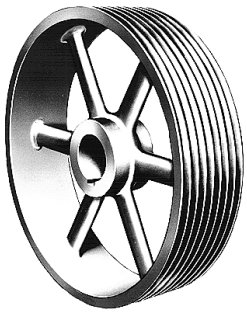
**WARNING:** The sheaves listed in this catalog must not be used with the high modulus belts unless approved by factory. Do not use with belt speeds exceeding 6500 fpm. May cause sheaves to fragment resulting in personal injury or property damage.

# Selection

## Custom-Made Sheaves and Sprockets

### V-Belt Sheaves and Synchronous Sprockets

Standard stock products offer the best value for most power transmission operations. But, for requirements that cannot be served with stock products, Dodge manufactures custom-made sheaves and synchronous belt sprockets.



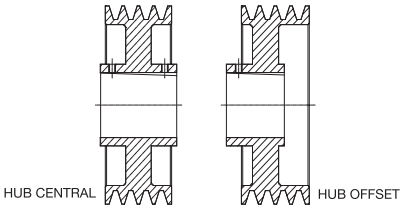
**V-Belt Sheaves**

### Custom Construction Options

- Non-stock pitch diameter
- Non-stock number of teeth
- Alternate hub location
- Special material: ductile, steel, aluminum, stainless steel etc.
- Alternate bushing or bore configuration for mounting product onto shaft
- Other non-standard requirements

### Hub Locations

- Hub central
- Typical for larger diameter products
- Hub offset
- This location is preferred for wider face widths. It is positioned to accommodate the shaft and provides centralized sheave support
- Hub projection
- Required for access to setscrews on smaller bored-to-size products
- Special coating and plating




### Mounting Styles

#### Bored-to-size

Required when rim diameter cannot accommodate the bushing that is required for the bore size. One keyseat, as well as one or two setscrews are usually specified.

#### Taper bushed

Specify Taper-Lock or QD bushing for required bore size. Verify that hub diameter accommodates bushing. Taper bushed mounting is preferred because this mounting compensates for variations in shaft diameter; provides tight, secure fit; and removes easily for servicing.

**Rim Speed Limits per MPTA Standard**

| Product Material | Maximum allowable RIM Speed in FPM | |
|---|---|---|
| | Web/Arm Style | Block Style |
| Class 30 Gray Iron | 6500 | 7500 |
| Ductile Iron 65 | 8000 | 10000 |
| Ductile Iron 80 | 10000 | 13000 |
| Steel (1018) | 9000 | 11000 |

**(FPM = .262 x Dia. (inches) x RPM)**

**NOTE:** Above rim speed values are maximum for normal considerations. In some cases these values may be exceeded. Consult factory and include complete details of proposed application.

$$\text{Dynamic balance RPM for Sheave/Sprocket} \lozenge = \frac{15600}{\sqrt{\text{Dia x Face Width}}}$$

◊ Note: MPTA recommends Dynamic balance application RPM exceeds this value

# Light duty fixed and bush type

### Fixed bore: MA, 2MA, MB, 2MB:

### Features

- All products have two setscrews, resulting in a tighter grip and improved performance.
- Bore range 1/2” to 1-7/16”
- 1 and 2 grooves, A-B and 3L-4L-5L belts

Note: Metric, or additional special bores, are made to order items. Contact Dodge for price and delivery. For immediate use, Dodge suggests using an MAL, MBL, 2MAL or 2MBL for a stock product.

### How to order

Example: **2MB65X1-1/8**

2MB65 X 1-1/8

2MB65: Sheave size

**1-1/8: Bore size** (1-1/8”)
Inch bore sizes are designated with the whole inch followed by the fraction. For example, a 1.5” diameter bore would be 1-1/2”. Metric bore sizes are designated with mm after the metric dimension (X 25mm).

### Bush type: MAL, 2MAL, MBL, 2MBL:

### Features

- Can handle up to 20 Hp @ 1750 RPM
- Bore range 1/2” to 1-7/16”
- 1 and 2 grooves, A-B and 3L-4L-5L belts

# Light duty fixed bore

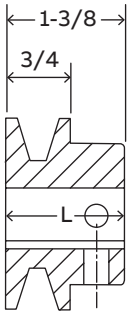
## MA (A and 3L-4L V-belts)



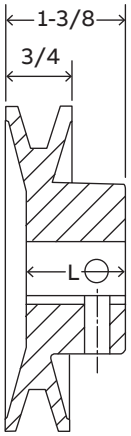
**1 groove**

| Part number | Cross reference | D.D. (3L) belts | D.D. A (4L) belts | O.D. | Type | L | Maximum bore | Approximate weight |
|---|---|---|---|---|---|---|---|---|
| MA15* | – | – | 1.30 | 1.55 | 1B | 1-1/4 | 5/8 | 0.4 |
| MA18* | AK17 | – | 1.50 | 1.75 | 1B | 1-3/8 | 3/4 | 0.4 |
| MA20 | AK20 | 1.41 | 1.75 | 2.00 | 1B | 1-3/8 | 7/8 | 0.7 |
| MA21 | AK21 | 1.51 | 1.85 | 2.10 | 1B | 1-3/8 | 7/8 | 0.7 |
| MA22 | AK22 | 1.61 | 1.95 | 2.20 | 1B | 1-3/8 | 7/8 | 0.8 |
| MA23 | AK23 | 1.71 | 2.05 | 2.30 | 1B | 1-3/8 | 1 | 0.8 |
| MA24 | – | 1.76 | 2.10 | 2.35 | 1B | 1-3/8 | 7/8 | 0.8 |
| MA25 | AK25 | 1.91 | 2.25 | 2.50 | 2B | 1-1/4 | 1-1/8 | 0.9 |
| MA26 | AK26 | 2.01 | 2.35 | 2.60 | 2B | 1-1/4 | 1-1/8 | 0.9 |
| MA27 | AK27 | 2.11 | 2.45 | 2.70 | 2B | 1-1/4 | 1-1/8 | 0.9 |
| MA28 | AK28 | 2.21 | 2.55 | 2.80 | 2B | 1-1/4 | 1-1/8 | 0.9 |
| MA30 | AK30 | 2.46 | 2.80 | 3.05 | 2B | 1-1/4 | 1-1/8 | 1.2 |
| MA33 | AK32 | 2.66 | 3.00 | 3.25 | 2B | 1-1/4 | 1-1/8 | 1.5 |
| MA35 | AK34 | 2.86 | 3.20 | 3.45 | 2B | 1-1/4 | 1-1/8 | 1.4 |
| MA38 | AK39 | 3.16 | 3.50 | 3.75 | 2W | 1-1/8 | 1-1/8 | 1.5 |
| MA40 | AK41 | 3.36 | 3.70 | 3.95 | 2W | 1-1/8 | 1-3/16 | 2.0 |
| MA43 | AK44 | 3.66 | 4.00 | 4.25 | 2W | 1-1/8 | 1-3/16 | 2.0 |
| MA45 | AK46 | 3.86 | 4.20 | 4.45 | 2W | 1-1/8 | 1-3/16 | 2.0 |
| MA48 | AK49 | 4.16 | 4.50 | 4.75 | 1A | 1-3/8 | 1-3/16 | 2.0 |
| MA50 | AK51 | 4.36 | 4.70 | 4.95 | 1A | 1-3/8 | 1-3/16 | 2.0 |
| MA53 | AK54 | 4.66 | 5.00 | 5.25 | 1A | 1-3/8 | 1-3/16 | 2.5 |
| MA55 | AK56 | 4.86 | 5.20 | 5.45 | 1A | 1-3/8 | 1-3/16 | 2.5 |
| MA58 | AK59 | 5.16 | 5.50 | 5.75 | 1A | 1-3/8 | 1-3/16 | 2.5 |
| MA60 | AK61 | 5.36 | 5.70 | 5.95 | 1A | 1-3/8 | 1-3/16 | 3.0 |
| MA63 | AK64 | 5.66 | 6.00 | 6.25 | 1A | 1-3/8 | 1-1/4 | 3.0 |
| MA65 | AK66 | 5.86 | 6.20 | 6.45 | 1A | 1-3/8 | 1-1/4 | 3.0 |
| MA68 | AK69 | 6.16 | 6.50 | 6.75 | 1A | 1-3/8 | 1-1/4 | 3.0 |
| MA70 | AK71 | 6.36 | 6.70 | 6.95 | 1A | 1-3/8 | 1-7/16 | 3.5 |
| MA73 | AK74 | 6.66 | 7.00 | 7.25 | 1A | 1-3/8 | 1-7/16 | 3.5 |
| MA78 | AK79 | 7.16 | 7.50 | 7.75 | 1A | 1-3/8 | 1-7/16 | 3.5 |
| MA80 | – | 7.41 | 7.75 | 8.00 | 1A | 1-3/8 | 1-7/16 | 3.5 |
| MA83 | AK84 | 7.66 | 8.00 | 8.25 | 1A | 1-3/8 | 1-7/16 | 4.4 |
| MA88 | AK89 | 8.16 | 8.50 | 8.75 | 1A | 1-3/8 | 1-7/16 | 4.5 |
| MA90 | – | 8.41 | 8.75 | 9.00 | 1A | 1-3/8 | 1-7/16 | 4.5 |
| MA93 | AK94 | 8.66 | 9.00 | 9.25 | 1A | 1-3/8 | 1-7/16 | 5.4 |
| MA98 | AK99 | 9.16 | 9.50 | 9.75 | 1A | 1-3/8 | 1-7/16 | 5.5 |
| MA100 | – | 9.41 | 9.75 | 10.00 | 1A | 1-3/8 | 1-7/16 | 5.5 |
| MA103 | AK104 | 9.66 | 10.00 | 10.25 | 1A | 1-3/8 | 1-7/16 | 6.0 |
| MA108 | AK109 | 10.16 | 10.50 | 10.75 | 1A | 1-3/8 | 1-7/16 | 6.0 |
| MA110 | – | 10.41 | 10.75 | 11.00 | 1A | 1-3/8 | 1-5/8 | 6.5 |
| MA113 | AK114 | 10.66 | 11.00 | 11.25 | 1A | 1-3/8 | 1-7/16 | 6.5 |
| MA120 | – | 11.41 | 11.75 | 12.00 | 1A | 1-3/8 | 1-7/16 | 7.5 |
| MA123 | AK124 | 11.66 | 12.00 | 12.25 | 1A | 1-3/8 | 1-7/16 | 7.0 |
| MA133 | AK134 | 12.66 | 13.00 | 13.25 | 1A | 1-3/8 | 1-3/4 | 8.5 |
| MA143 | AK144 | 13.66 | 14.00 | 14.25 | 1A | 1-3/8 | 1-3/4 | 9.0 |
| MA153 | AK155 | 14.66 | 15.00 | 15.25 | 1A | 1-3/8 | 1-3/4 | 9.0 |
| MA183 | AK184 | 17.66 | 18.00 | 18.25 | 1A | 1-3/8 | 1-7/8 | 14.0 |

P.D. for "A" (4L) belts = O.D
P.D. for "3L" belts = D.D.+0.25 = O.D.-0.34
* DO NOT use 3L belts with MA15 and MA18 sheaves




**Type 1**




**Type 2**

# Light duty fixed bore

## MA (A and 3L-4L V-belts)

**1 groove**

| Part number | Standard bores part numbers | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/2 | 5/8 | 3/4 | 7/8 | 15/16 | 1 | 1-1/8 | 1-3/16 | 1-1/4 | 1-3/8 | 1-7/16 |
| MA15* | MA15X1/2 | MA15X5/8 | – | – | – | – | – | – | – | – | – |
| MA18* | MA18X1/2 | MA18X5/8 | MA18X3/4 | – | – | – | – | – | – | – | – |
| MA20 | MA20X1/2 | MA20X5/8 | MA20X3/4 | MA20X7/8 | – | – | – | – | – | – | – |
| MA21 | MA21X1/2 | MA21X5/8 | MA21X3/4 | – | – | – | – | – | – | – | – |
| MA22 | MA22X1/2 | MA22X5/8 | MA22X3/4 | MA22X7/8 | – | – | – | – | – | – | – |
| MA23 | MA23X1/2 | MA23X5/8 | MA23X3/4 | MA23X7/8 | – | MA23X1 | – | – | – | – | – |
| MA24 | MA24X1/2 | MA24X5/8 | MA24X3/4 | – | – | – | – | – | – | – | – |
| MA25 | MA25X1/2 | MA25X5/8 | MA25X3/4 | MA25X7/8 | – | MA25X1 | MA25X1-1/8 | – | – | – | – |
| MA26 | MA26X1/2 | MA26X5/8 | MA26X3/4 | MA26X7/8 | – | MA26X1 | – | – | – | – | – |
| MA27 | MA27X1/2 | MA27X5/8 | MA27X3/4 | MA27X7/8 | – | MA27X1 | – | – | – | – | – |
| MA28 | MA28X1/2 | MA28X5/8 | MA28X3/4 | MA28X7/8 | – | MA28X1 | MA28X1-1/8 | – | – | – | – |
| MA30 | MA30X1/2 | MA30X5/8 | MA30X3/4 | MA30X7/8 | – | MA30X1 | MA30X1-1/8 | – | – | – | – |
| MA33 | MA33X1/2 | MA33X5/8 | MA33X3/4 | MA33X7/8 | – | MA33X1 | MA33X1-1/8 | – | – | – | – |
| MA35 | MA35X1/2 | MA35X5/8 | MA35X3/4 | MA35X7/8 | – | MA35X1 | MA35X1-1/8 | – | – | – | – |
| MA38 | MA38X1/2 | MA38X5/8 | MA38X3/4 | MA38X7/8 | MA38X15/16 | MA38X1 | MA38X1-1/8 | – | – | – | – |
| MA40 | MA40X1/2 | MA40X5/8 | MA40X3/4 | MA40X7/8 | MA40X15/16 | MA40X1 | MA40X1-1/8 | – | – | – | – |
| MA43 | MA43X1/2 | MA43X5/8 | MA43X3/4 | MA43X7/8 | MA43X15/16 | MA43X1 | MA43X1-1/8 | – | – | – | – |
| MA45 | MA45X1/2 | MA45X5/8 | MA45X3/4 | MA45X7/8 | MA45X15/16 | MA45X1 | MA45X1-1/8 | – | – | – | – |
| MA48 | MA48X1/2 | MA48X5/8 | MA48X3/4 | MA48X7/8 | MA48X15/16 | MA48X1 | MA48X1-1/8 | – | – | – | – |
| MA50 | MA50X1/2 | MA50X5/8 | MA50X3/4 | MA50X7/8 | – | MA50X1 | MA50X1-1/8 | MA50X1-3/16 | – | – | – |
| MA53 | MA53X1/2 | MA53X5/8 | MA53X3/4 | MA53X7/8 | MA53X15/16 | MA53X1 | MA53X1-1/8 | MA53X1-3/16 | – | – | – |
| MA55 | MA55X1/2 | MA55X5/8 | MA55X3/4 | MA55X7/8 | MA55X15/16 | MA55X1 | MA55X1-1/8 | MA55X1-3/16 | – | – | – |
| MA58 | MA58X1/2 | MA58X5/8 | MA58X3/4 | MA58X7/8 | MA58X15/16 | MA58X1 | MA58X1-1/8 | MA58X1-3/16 | – | – | – |
| MA60 | MA60X1/2 | MA60X5/8 | MA60X3/4 | MA60X7/8 | MA60X15/16 | MA60X1 | MA60X1-1/8 | MA60X1-3/16 | – | – | – |
| MA63 | MA63X1/2 | MA63X5/8 | MA63X3/4 | MA63X7/8 | MA63X15/16 | MA63X1 | MA63X1-1/8 | MA63X1-3/16 | – | – | – |
| MA65 | MA65X1/2 | MA65X5/8 | MA65X3/4 | MA65X7/8 | – | MA65X1 | MA65X1-1/8 | – | – | – | – |
| MA68 | – | MA68X5/8 | MA68X3/4 | – | – | MA68X1 | MA68X1-1/8 | – | – | – | – |
| MA70 | MA70X1/2 | MA70X5/8 | MA70X3/4 | MA70X7/8 | – | MA70X1 | MA70X1-1/8 | MA70X1-3/16 | – | – | MA70X1-7/16 |
| MA73 | MA73X1/2 | MA73X5/8 | MA73X3/4 | MA73X7/8 | – | MA73X1 | MA73X1-1/8 | MA73X1-3/16 | MA73X1-1/4 | – | MA73X1-7/16 |
| MA78 | – | MA78X5/8 | MA78X3/4 | MA78X7/8 | – | MA78X1 | MA78X1-1/8 | - | - | – | MA78X1-7/16 |
| MA80 | MA80X1/2 | MA80X5/8 | MA80X3/4 | MA80X7/8 | – | MA80X1 | MA80X1-1/8 | - | MA80X1-1/4 | – | – |
| MA83 | MA83X1/2 | MA83X5/8 | MA83X3/4 | MA83X7/8 | – | MA83X1 | MA83X1-1/8 | MA83X1-3/16 | – | – | MA83X1-7/16 |
| MA88 | – | – | MA88X3/4 | – | – | MA88X1 | MA88X1-1/8 | – | – | – | MA88X1-7/16 |
| MA90 | – | MA90X5/8 | MA90X3/4 | – | – | MA90X1 | – | – | – | – | – |
| MA93 | MA93X1/2 | MA93X5/8 | MA93X3/4 | – | MA93X15/16 | MA93X1 | MA93X1-1/8 | MA93X1-3/16 | MA93X1-1/4 | – | MA93X1-7/16 |
| MA98 | – | – | MA98X3/4 | – | – | MA98X1 | – | – | – | – | MA98X1-7/16 |
| MA100 | – | MA100X5/8 | MA100X3/4 | MA100X7/8 | – | MA100X1 | MA100X1-1/8 | – | – | – | – |
| MA103 | – | MA103X5/8 | MA103X3/4 | – | – | MA103X1 | – | MA103X1-3/16 | – | – | – |
| MA108 | – | – | - | – | – | MA108X1 | – | – | – | – | – |
| MA110 | – | – | MA110X3/4 | – | – | MA110X1 | – | – | – | – | – |
| MA113 | – | – | MA113X3/4 | MA113X7/8 | – | MA113X1 | – | MA113X1-3/16 | – | – | MA113X1-7/16 |
| MA120 | MA120X1/2 | MA120X5/8 | MA120X3/4 | MA120X7/8 | – | MA120X1 | – | MA120X1-3/16 | – | – | – |
| MA123 | – | MA123X5/8 | MA123X3/4 | – | – | MA123X1 | – | MA123X1-3/16 | MA123X1-1/4 | – | MA123X1-7/16 |
| MA133 | – | – | MA133X3/4 | – | – | MA133X1 | – | MA133X1-3/16 | – | MA133X1-3/8 | MA133X1-7/16 |
| MA143 | – | MA143X5/8 | MA143X3/4 | MA143X7/8 | – | MA143X1 | – | MA143X1-3/16 | – | – | MA143X1-7/16 |
| MA153 | – | MA153X5/8 | MA153X3/4 | – | – | MA153X1 | – | MA153X1-3/16 | – | MA153X1-3/8 | MA153X1-7/16 |
| MA183 | – | – | MA183X3/4 | – | – | MA183X1 | – | MA183X1-3/16 | – | – | MA183X1-7/16 |

# Light duty fixed bore

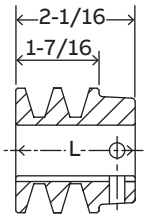
## 2MA (A V-belts)



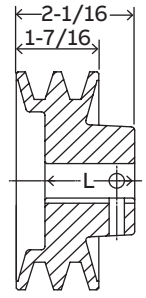
### 2 grooves

| Part number | Cross reference | D.D. A belts | O.D. | Type | L | Maximum bore | Approximate weight |
|---|---|---|---|---|---|---|---|
| 2MA20 | 2AK20 | 1.75 | 2.00 | 3B | 2-1/16 | 3/4 | 1.0 |
| 2MA22 | 2AK21 | 1.90 | 2.15 | 3B | 2-1/16 | 7/8 | 1.0 |
| 2MA23 | 2AK22 | 2.00 | 2.25 | 3B | 2-1/16 | 1 | 1.0 |
| 2MA24 | 2AK23 | 2.10 | 2.35 | 4B | 1-7/8 | 1-1/8 | 1.0 |
| 2MA25 | 2AK25 | 2.30 | 2.55 | 4B | 1-11/16 | 1-1/8 | 1.5 |
| 2MA27 | 2AK26 | 2.40 | 2.65 | 4B | 1-7/8 | 1-1/8 | 1.5 |
| 2MA28 | 2AK27 | 2.50 | 2.75 | 4B | 1-11/16 | 1-1/8 | 1.5 |
| 2MA29 | 2AK28 | 2.60 | 2.85 | 4B | 1-11/16 | 1-1/8 | 1.5 |
| 2MA30 | 2AK30 | 2.80 | 3.05 | 4B | 1-11/16 | 1-1/8 | 2.0 |
| 2MA33 | 2AK32 | 3.00 | 3.25 | 4B | 1-5/8 | 1-1/8 | 2.0 |
| 2MA35 | 2AK34 | 3.20 | 3.45 | 4B | 1-5/8 | 1-1/8 | 2.5 |
| 2MA38 | 2AK39 | 3.50 | 3.75 | 4B | 1-5/8 | 1-3/16 | 3.0 |
| 2MA40 | 2AK41 | 3.70 | 3.95 | 4W | 1-9/16 | 1-3/16 | 3.0 |
| 2MA43 | 2AK44 | 4.00 | 4.25 | 4W | 1-9/16 | 1-3/16 | 3.0 |
| 2MA45 | 2AK46 | 4.20 | 4.45 | 4W | 1-11/16 | 1-3/16 | 4.0 |
| 2MA48 | 2AK49 | 4.50 | 4.75 | 4W | 1-9/16 | 1-3/8 | 3.5 |
| 2MA50 | 2AK51 | 4.70 | 4.95 | 4W | 1-9/16 | 1-3/16 | 4.0 |
| 2MA53 | 2AK54 | 5.00 | 5.25 | 4W | 1-9/16 | 1-3/8 | 4.0 |
| 2MA55 | 2AK56 | 5.20 | 5.45 | 4W | 1-9/16 | 1-3/8 | 5.0 |
| 2MA58 | 2AK59 | 5.50 | 5.75 | 4W | 1-9/16 | 1-3/8 | 5.0 |
| 2MA60 | 2AK61 | 5.70 | 5.95 | 4W | 1-11/16 | 1-3/8 | 6.0 |
| 2MA63 | 2AK64 | 6.00 | 6.25 | 4A | 1-9/16 | 1-7/16 | 5.5 |
| 2MA70 | – | 6.75 | 7.00 | 4A | 1-9/16 | 1-7/16 | 6.0 |
| 2MA73 | 2AK74 | 7.00 | 7.25 | 4A | 1-9/16 | 1-7/16 | 6.0 |
| 2MA80 | – | 7.75 | 8.00 | 4A | 1-9/16 | 1-7/16 | 7.0 |
| 2MA83 | 2AK84 | 8.00 | 8.25 | 4A | 1-9/16 | 1-7/16 | 8.0 |
| 2MA90 | – | 8.75 | 9.00 | 4A | 1-9/16 | 1-7/16 | 8.5 |
| 2MA93 | 2AK94 | 9.00 | 9.25 | 4A | 1-9/16 | 1-7/16 | 9.0 |
| 2MA100 | – | 9.75 | 10.00 | 4A | 1-9/16 | 1-7/16 | 9.0 |
| 2MA103 | 2AK104 | 10.00 | 10.25 | 4A | 1-9/16 | 1-7/16 | 10.0 |
| 2MA110 | – | 10.75 | 11.00 | 4A | 1-9/16 | 1-7/16 | 10.0 |
| 2MA113 | 2AK114 | 11.00 | 11.25 | 4A | 1-9/16 | 1-7/16 | 11.0 |
| 2MA120 | – | 11.75 | 12.00 | 4A | 1-9/16 | 1-7/16 | 11.0 |
| 2MA123 | 2AK124 | 12.00 | 12.25 | 4A | 1-19/32 | 1-7/16 | 12.0 |
| 2MA133 | 2AK134 | 13.00 | 13.25 | 4A | 1-19/32 | 1-7/16 | 14.0 |
| 2MA143 | 2AK144 | 14.00 | 14.25 | 4A | 1-9/16 | 1-7/16 | 15.0 |
| 2MA153 | 2AK155 | 15.00 | 15.25 | 4A | 1-9/16 | 1-7/16 | 17.0 |
| 2MA183 | 2AK184 | 18.00 | 18.25 | 4A | 1-17/32 | 1-7/16 | 19.0 |

P.D. for "A" belts = O.D.




**Type 3**




**Type 4**

### Keyseat information

| Bore range | Keyseat |
|---|---|
| 1/2" | None |
| 5/8" - 7/8" | 3/16" X 3/32" |
| 15/16" - 1-1/4" | 1/4" X 1/8" |
| 1-5/16" - 1-3/8" | 5/16" X 5/32" |
| 1-7/16" - 1-3/4" | 3/8" X 3/16" |

# Light duty fixed bore

## 2MA (A V-belts)

**2 grooves**

| Part number | Standard bores part numbers | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/2 | 5/8 | 3/4 | 7/8 | 15/16 | 1 | 1-1/8 | 1-3/16 | 1-1/4 | 1-3/8 | 1-7/16 |
| 2MA20 | 2MA20X1/2 | 2MA20X5/8 | 2MA20X3/4 | 2MA20X7/8 | – | – | – | – | – | – | – |
| 2MA22 | 2MA22X1/2 | 2MA22X5/8 | 2MA22X3/4 | – | – | – | – | – | – | – | – |
| 2MA23 | 2MA23X1/2 | 2MA23X5/8 | 2MA23X3/4 | 2MA23X7/8 | – | 2MA23X1 | – | – | – | – | – |
| 2MA24 | – | 2MA24X5/8 | 2MA24X3/4 | 2MA24X7/8 | – | 2MA24X1 | – | – | – | – | – |
| 2MA25 | 2MA25X1/2 | 2MA25X5/8 | 2MA25X3/4 | 2MA25X7/8 | – | 2MA25X1 | 2MA25X1-1/8 | – | – | – | – |
| 2MA27 | 2MA27X1/2 | 2MA27X5/8 | 2MA27X3/4 | 2MA27X7/8 | – | 2MA27X1 | – | – | – | – | – |
| 2MA28 | – | 2MA28X5/8 | 2MA28X3/4 | 2MA28X7/8 | – | 2MA28X1 | 2MA28X1-1/8 | – | – | – | – |
| 2MA29 | – | 2MA29X5/8 | 2MA29X3/4 | 2MA29X7/8 | – | 2MA29X1 | – | – | – | – | – |
| 2MA30 | 2MA30X1/2 | 2MA30X5/8 | 2MA30X3/4 | 2MA30X7/8 | – | 2MA30X1 | 2MA30X1-1/8 | – | – | – | – |
| 2MA33 | – | 2MA33X5/8 | 2MA33X3/4 | 2MA33X7/8 | – | 2MA33X1 | 2MA33X1-1/8 | – | – | – | – |
| 2MA35 | 2MA35X1/2 | 2MA35X5/8 | 2MA35X3/4 | 2MA35X7/8 | – | 2MA35X1 | 2MA35X1-1/8 | – | – | – | – |
| 2MA38 | – | 2MA38X5/8 | 2MA38X3/4 | 2MA38X7/8 | – | 2MA38X1 | 2MA38X1-1/8 | – | – | – | – |
| 2MA40 | – | 2MA40X5/8 | 2MA40X3/4 | 2MA40X7/8 | – | 2MA40X1 | 2MA40X1-1/8 | – | – | – | – |
| 2MA43 | – | 2MA43X5/8 | 2MA43X3/4 | 2MA43X7/8 | – | 2MA43X1 | 2MA43X1-1/8 | – | – | – | – |
| 2MA45 | – | 2MA45X5/8 | 2MA45X3/4 | 2MA45X7/8 | – | 2MA45X1 | 2MA45X1-1/8 | – | – | – | – |
| 2MA48 | – | - | 2MA48X3/4 | 2MA48X7/8 | – | 2MA48X1 | 2MA48X1-1/8 | – | – | 2MA48X1-3/8 | – |
| 2MA50 | – | 2MA50X5/8 | 2MA50X3/4 | 2MA50X7/8 | – | 2MA50X1 | 2MA50X1-1/8 | – | – | 2MA50X1-3/8 | – |
| 2MA53 | – | 2MA53X5/8 | 2MA53X3/4 | 2MA53X7/8 | – | 2MA53X1 | 2MA53X1-1/8 | – | – | 2MA53X1-3/8 | – |
| 2MA55 | – | 2MA55X5/8 | 2MA55X3/4 | 2MA55X7/8 | – | 2MA55X1 | 2MA55X1-1/8 | – | – | 2MA55X1-3/8 | – |
| 2MA58 | – | – | – | – | – | 2MA58X1 | 2MA58X1-1/8 | – | – | 2MA58X1-3/8 | – |
| 2MA60 | – | – | 2MA60X3/4 | 2MA60X7/8 | – | 2MA60X1 | 2MA60X1-1/8 | – | – | 2MA60X1-3/8 | – |
| 2MA63 | – | – | 2MA63X3/4 | – | – | 2MA63X1 | 2MA63X1-1/8 | 2MA63X1-3/16 | – | 2MA63X1-3/8 | 2MA63X1-7/16 |
| 2MA70 | – | – | 2MA70X3/4 | – | – | 2MA70X1 | 2MA70X1-1/8 | - | – | – | – |
| 2MA73 | – | – | 2MA73X3/4 | – | – | 2MA73X1 | 2MA73X1-1/8 | 2MA73X1-3/16 | – | 2MA73X1-3/8 | 2MA73X1-7/16 |
| 2MA80 | – | – | 2MA80X3/4 | – | – | 2MA80X1 | 2MA80X1-1/8 | - | – | – | – |
| 2MA83 | – | – | 2MA83X3/4 | – | 2MA83X15/16 | 2MA83X1 | 2MA83X1-1/8 | 2MA83X1-3/16 | – | 2MA83X1-3/8 | 2MA83X1-7/16 |
| 2MA90 | – | 2MA90X5/8 | – | – | – | 2MA90X1 | 2MA90X1-1/8 | - | – | – | – |
| 2MA93 | – | – | 2MA93X3/4 | – | – | 2MA93X1 | 2MA93X1-1/8 | 2MA93X1-3/16 | – | 2MA93X1-3/8 | 2MA93X1-7/16 |
| 2MA100 | – | – | – | – | – | 2MA100X1 | – | - | – | – | – |
| 2MA103 | – | – | 2MA103X3/4 | – | 2MA103X15/16 | 2MA103X1 | – | 2MA103X1-3/16 | – | – | – |
| 2MA110 | – | – | – | – | – | – | – | – | – | – | – |
| 2MA113 | – | – | 2MA113X3/4 | – | – | 2MA113X1 | – | 2MA113X1-3/16 | – | 2MA113X1-3/8 | 2MA113X1-7/16 |
| 2MA120 | – | – | – | 2MA120X7/8 | – | 2MA120X1 | – | – | – | – | – |
| 2MA123 | – | – | 2MA123X3/4 | – | – | 2MA123X1 | – | 2MA123X1-3/16 | – | – | 2MA123X1-7/16 |
| 2MA133 | – | – | – | – | – | – | – | 2MA133X1-3/16 | – | – | 2MA133X1-7/16 |
| 2MA143 | – | – | – | – | – | 2MA143X1 | – | 2MA143X1-3/16 | – | – | 2MA143X1-7/16 |
| 2MA153 | – | – | – | – | – | – | – | 2MA153X1-3/16 | – | – | 2MA153X1-7/16 |
| 2MA183 | – | – | – | – | – | – | – | 2MA183X1-3/16 | 2MA183X1-1/4 | – | 2MA183X1-7/16 |

# Light duty fixed bore

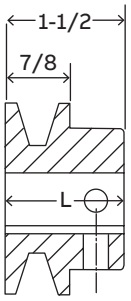
## MB (A,B,4L and 5L V-belts)



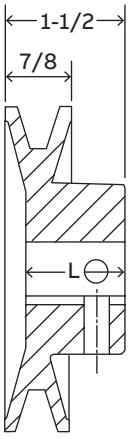
**1 groove**

| Part number | Cross reference | D.D. A (4L) belts | D.D. B (5L) belts | O.D. | Type | L | Maximum bore | Approximate weight |
|---|---|---|---|---|---|---|---|---|
| MB20 | – | *1.25 | 1.65 | 2.00 | 5B | 1-1/2 | 3/4 | 0.5 |
| MB23 | – | *1.50 | 1.90 | 2.25 | 6B | 1-11/35 | 1 | 1.0 |
| MB24 | BK24 | 1.65 | 2.05 | 2.40 | 6B | 1-1/2 | 1 | 1.0 |
| MB25 | BK25 | *1.75 | 2.15 | 2.50 | 5B | 1-1/2 | 1-1/8 | 1.0 |
| MB26 | BK26 | 1.85 | 2.25 | 2.60 | 5B | 1-1/2 | 1-1/8 | 1.0 |
| MB28 | BK27 | 1.95 | 2.35 | 2.70 | 6B | 1-3/8 | 1-1/8 | 1.0 |
| MB30 | BK28 | 2.20 | 2.60 | 2.95 | 6B | 1-3/8 | 1-1/8 | 1.0 |
| MB31 | BK30 | 2.40 | 2.80 | 3.15 | 6B | 1-3/8 | 1-1/8 | 1.0 |
| MB33 | – | 2.50 | 2.90 | 3.25 | 6B | 1-3/8 | 1-1/8 | 1.0 |
| MB34 | BK32 | 2.60 | 3.00 | 3.35 | 6B | 1-3/8 | 1-1/8 | 1.0 |
| MB35 | BK34 | 2.80 | 3.20 | 3.55 | 6B | 1-3/8 | 1-1/8 | 1.5 |
| MB38 | BK36 | 3.00 | 3.40 | 3.75 | 6B | 1-1/4 | 1-1/8 | 1.5 |
| MB40 | BK40 | 3.20 | 3.60 | 3.95 | 6B | 1-1/4 | 1-3/16 | 2.0 |
| MB43 | BK45 | 3.50 | 3.90 | 4.25 | 6W | 1-1/4 | 1-3/16 | 2.0 |
| MB45 | BK47 | 3.70 | 4.10 | 4.45 | 6W | 1-1/4 | 1-3/16 | 2.0 |
| MB48 | BK50 | 4.00 | 4.40 | 4.75 | 5W | 1-1/2 | 1-1/4 | 2.5 |
| MB50 | BK52 | 4.20 | 4.60 | 4.95 | 5W | 1-1/2 | 1-1/4 | 2.5 |
| MB53 | BK55 | 4.50 | 4.90 | 5.25 | 6W | 1-5/16 | 1-3/16 | 3.0 |
| MB55 | BK57 | 4.70 | 5.10 | 5.45 | 5A | 1-1/2 | 1-1/4 | 2.5 |
| MB58 | BK60 | 5.00 | 5.40 | 5.75 | 5A | 1-1/2 | 1-3/16 | 2.5 |
| MB60 | BK62 | 5.20 | 5.60 | 5.95 | 5A | 1-1/2 | 1-1/2 | 2.5 |
| MB63 | BK65 | 5.50 | 5.90 | 6.25 | 5A | 1-1/2 | 1-5/16 | 3.0 |
| MB65 | BK67 | 5.70 | 6.10 | 6.45 | 5A | 1-1/2 | 1-1/4 | 3.0 |
| MB68 | BK70 | 6.00 | 6.40 | 6.75 | 5A | 1-1/2 | 1-7/16 | 4.0 |
| MB70 | BK72 | 6.20 | 6.60 | 6.95 | 5A | 1-1/2 | 1-1/4 | 3.5 |
| MB73 | BK75 | 6.50 | 6.90 | 7.25 | 5A | 1-1/2 | 1-3/8 | 3.5 |
| MB75 | BK77 | 6.70 | 7.10 | 7.45 | 5A | 1-1/2 | 1-1/2 | 4.0 |
| MB78 | BK80 | 7.00 | 7.40 | 7.75 | 5A | 1-1/2 | 1-7/16 | 4.0 |
| MB80 | – | 7.25 | 7.65 | 8.00 | 5A | 1-1/2 | 1-7/16 | 4.0 |
| MB83 | BK85 | 7.50 | 7.90 | 8.25 | 5A | 1-1/2 | 1-7/16 | 4.5 |
| MB88 | BK90 | 8.00 | 8.40 | 8.75 | 5A | 1-1/2 | 1-7/16 | 5.0 |
| MB90 | – | 8.25 | 8.65 | 9.00 | 5A | 1-1/2 | 1-7/16 | 5.0 |
| MB93 | BK95 | 8.50 | 8.90 | 9.25 | 5A | 1-1/2 | 1-7/16 | 5.5 |
| MB98 | BK100 | 9.00 | 9.40 | 9.75 | 5A | 1-1/2 | 1-7/16 | 6.0 |
| MB100 | – | 9.25 | 9.65 | 10.00 | 5A | 1-1/2 | 1-7/16 | 6.0 |
| MB103 | BK105 | 9.50 | 9.90 | 10.25 | 5A | 1-1/2 | 1-5/8 | 6.5 |
| MB108 | BK110 | 10.00 | 10.40 | 10.75 | 5A | 1-1/2 | 1-7/16 | 7.0 |
| MB110 | – | 10.25 | 10.65 | 11.00 | 5A | 1-1/2 | 1-5/8 | 7.0 |
| MB113 | BK115 | 10.50 | 10.90 | 11.25 | 5A | 1-1/2 | 1-5/8 | 8.0 |
| MB118 | BK120 | 11.00 | 11.40 | 11.75 | 5A | 1-1/2 | 1-5/8 | 8.0 |
| MB120 | – | 11.25 | 11.65 | 12.00 | 5A | 1-1/2 | 1-5/8 | 8.0 |
| MB128 | BK130 | 12.00 | 12.40 | 12.75 | 5A | 1-1/2 | 1-5/8 | 9.0 |
| MB138 | BK140 | 13.00 | 13.40 | 13.75 | 5A | 1-1/2 | 1-5/8 | 10.0 |
| MB158 | BK160 | 15.00 | 15.40 | 15.75 | 5A | 1-1/2 | 1-5/8 | 12.0 |
| MB188 | BK190 | 18.00 | 18.40 | 18.75 | 5A | 1-1/2 | 1-5/8 | 14.0 |

P.D. for "A" (4L) belts = Datum dia. + 0.35" = O.D. - 0.40"
P.D. for "B" (5L) belts = O.D.
* DO NOT use "A" or "4L" belts with these specific bores




**Type 5**




**Type 6**

# Light duty fixed bore

## MB (A,B,4L and 5L V-belts)

**1 groove**

| Part number | Standard bores part numbers | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/2 | 5/8 | 3/4 | 7/8 | 15/16 | 1 | 1-1/8 | 1-3/16 | 1-1/4 | 1-3/8 | 1-7/16 |
| MB20 | MB20X1/2 | MB20X5/8 | MB20X3/4 | – | – | – | – | – | – | – | – |
| MB23 | MB23X1/2 | MB23X5/8 | MB23X3/4 | MB23X7/8 | – | MB23X1 | – | – | – | – | – |
| MB24 | MB24X1/2 | MB24X5/8 | MB24X3/4 | MB24X7/8 | – | – | – | – | – | – | – |
| MB25 | MB25X1/2 | MB25X5/8 | MB25X3/4 | MB25X7/8 | – | MB25X1 | MB25X1-1/8 | – | – | – | – |
| MB26 | MB26X1/2 | MB26X5/8 | MB26X3/4 | MB26X7/8 | – | MB26X1 | – | – | – | – | – |
| MB28 | MB28X1/2 | MB28X5/8 | MB28X3/4 | MB28X7/8 | – | MB28X1 | MB28X1-1/8 | – | – | – | – |
| MB30 | MB30X1/2 | MB30X5/8 | MB30X3/4 | MB30X7/8 | – | MB30X1 | MB30X1-1/8 | – | – | – | – |
| MB31 | MB31X1/2 | MB31X5/8 | MB31X3/4 | MB31X7/8 | – | MB31X1 | MB31X1-1/8 | – | – | – | – |
| MB33 | MB33X1/2 | MB33X5/8 | MB33X3/4 | MB33X7/8 | – | MB33X1 | MB33X1-1/8 | – | – | – | – |
| MB34 | MB34X1/2 | MB34X5/8 | MB34X3/4 | MB34X7/8 | – | MB34X1 | MB34X1-1/8 | – | – | – | – |
| MB35 | MB35X1/2 | MB35X5/8 | MB35X3/4 | MB35X7/8 | – | MB35X1 | MB35X1-1/8 | – | – | – | – |
| MB38 | MB38X1/2 | MB38X5/8 | MB38X3/4 | MB38X7/8 | – | MB38X1 | MB38X1-1/8 | – | – | – | – |
| MB40 | MB40X1/2 | MB40X5/8 | MB40X3/4 | MB40X7/8 | – | MB40X1 | MB40X1-1/8 | MB40X1-3/16 | – | – | – |
| MB43 | MB43X1/2 | MB43X5/8 | MB43X3/4 | MB43X7/8 | – | MB43X1 | MB43X1-1/8 | – | – | – | – |
| MB45 | MB45X1/2 | MB45X5/8 | MB45X3/4 | MB45X7/8 | – | MB45X1 | MB45X1-1/8 | – | – | – | – |
| MB48 | MB48X1/2 | MB48X5/8 | MB48X3/4 | MB48X7/8 | MB48X15/16 | MB48X1 | MB48X1-1/8 | – | – | – | – |
| MB50 | MB50X1/2 | MB50X5/8 | MB50X3/4 | MB50X7/8 | – | MB50X1 | MB50X1-1/8 | MB50X1-3/16 | – | – | – |
| MB53 | MB53X1/2 | MB53X5/8 | MB53X3/4 | MB53X7/8 | – | MB53X1 | MB53X1-1/8 | MB53X1-3/16 | – | – | – |
| MB55 | – | MB55X5/8 | MB55X3/4 | MB55X7/8 | MB55X15/16 | MB55X1 | MB55X1-1/8 | MB55X1-3/16 | MB55X1-1/4 | – | – |
| MB58 | – | MB58X5/8 | MB58X3/4 | MB58X7/8 | – | MB58X1 | MB58X1-1/8 | MB58X1-3/16 | – | – | – |
| MB60 | MB60X1/2 | MB60X5/8 | MB60X3/4 | MB60X7/8 | MB60X15/16 | MB60X1 | MB60X1-1/8 | MB60X1-3/16 | – | – | – |
| MB63 | – | MB63X5/8 | MB63X3/4 | – | – | MB63X1 | MB63X1-1/8 | – | – | – | – |
| MB65 | – | MB65X5/8 | MB65X3/4 | MB65X7/8 | – | MB65X1 | MB65X1-1/8 | – | – | – | – |
| MB68 | – | MB68X5/8 | MB68X3/4 | – | MB68X15/16 | MB68X1 | MB68X1-1/8 | MB68X1-3/16 | – | – | MB68X1-7/16 |
| MB70 | – | – | MB70X3/4 | – | – | MB70X1 | MB70X1-1/8 | MB70X1-3/16 | – | MB70X1-3/8 | MB70X1-7/16 |
| MB73 | – | – | MB73X3/4 | – | – | MB73X1 | MB73X1-1/8 | MB73X1-3/16 | – | MB73X1-3/8 | – |
| MB75 | – | – | MB75X3/4 | – | – | MB75X1 | MB75X1-1/8 | – | – | MB75X1-3/8 | – |
| MB78 | – | MB78X5/8 | MB78X3/4 | MB78X7/8 | – | MB78X1 | MB78X1-1/8 | MB78X1-3/16 | MB78X1-1/4 | MB78X1-3/8 | MB78X1-7/16 |
| MB80 | – | – | MB80X3/4 | MB80X7/8 | – | MB80X1 | MB80X1-1/8 | – | – | – | – |
| MB83 | – | – | MB83X3/4 | – | – | MB83X1 | MB83X1-1/8 | – | – | MB83X1-3/8 | MB83X1-7/16 |
| MB88 | – | MB88X5/8 | MB88X3/4 | MB88X7/8 | MB88X15/16 | MB88X1 | MB88X1-1/8 | MB88X1-3/16 | – | MB88X1-3/8 | MB88X1-7/16 |
| MB90 | – | – | MB90X3/4 | – | – | MB90X1 | – | – | – | – | MB90X1-7/16 |
| MB93 | – | – | MB93X3/4 | – | – | MB93X1 | MB93X1-1/8 | – | – | MB93X1-3/8 | MB93X1-7/16 |
| MB98 | – | – | MB98X3/4 | MB98X7/8 | MB98X15/16 | MB98X1 | MB98X1-1/8 | MB98X1-3/16 | MB98X1-1/4 | MB98X1-3/8 | MB98X1-7/16 |
| MB100 | – | MB100X5/8 | MB100X3/4 | – | – | MB100X1 | MB100X1-1/8 | MB100X1-3/16 | – | MB100X1-3/8 | – |
| MB103 | – | – | – | – | – | MB103X1 | – | – | – | MB103X1-3/8 | MB103X1-7/16 |
| MB108 | – | – | MB108X3/4 | – | – | MB108X1 | MB108X1-1/8 | MB108X1-3/16 | – | MB108X1-3/8 | MB108X1-7/16 |
| MB110 | – | – | – | – | – | MB110X1 | – | – | – | – | MB110X1-7/16 |
| MB113 | – | – | MB113X3/4 | – | – | MB113X1 | – | – | – | MB113X1-3/8 | MB113X1-7/16 |
| MB118 | – | – | MB118X3/4 | – | – | MB118X1 | – | MB118X1-3/16 | MB118X1-1/4 | MB118X1-3/8 | MB118X1-7/16 |
| MB120 | – | – | – | – | – | MB120X1 | – | MB120X1-3/16 | – | – | MB120X1-7/16 |
| MB128 | – | – | MB128X3/4 | – | – | MB128X1 | MB128X1-1/8 | MB128X1-3/16 | MB128X1-1/4 | – | MB128X1-7/16 |
| MB138 | – | – | MB138X3/4 | – | – | MB138X1 | MB138X1-1/8 | MB138X1-3/16 | – | – | MB138X1-7/16 |
| MB158 | – | – | – | – | – | MB158X1 | MB158X1-1/8 | MB158X1-3/16 | MB158X1-1/4 | – | MB158X1-7/16 |
| MB188 | – | – | – | – | – | MB188X1 | – | MB188X1-3/16 | MB188X1-1/4 | – | MB188X1-7/16 |

# Light duty fixed bore

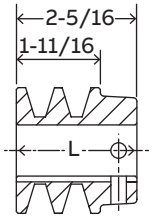
## 2MB (A and B V-belts)



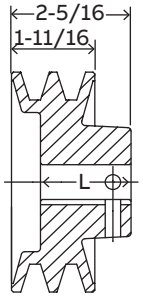
### 2 grooves

| Part number | Cross reference | D.D. A belts | D.D. B belts | O.D. | Type | L | Maximum bore | Approximate weight |
|---|---|---|---|---|---|---|---|---|
| 2MB20 | – | *1.35 | 1.75 | 2.00 | 7B | 2-1/8 | 7/8 | 1.0 |
| 2MB23 | – | *1.60 | 2.00 | 2.25 | 8B | 2-5/16 | 7/8 | 1.0 |
| 2MB25 | 2BK25 | *1.90 | 2.30 | 2.50 | 7B | 2-5/16 | 1-1/8 | 1.5 |
| 2MB28 | 2BK27 | 2.10 | 2.50 | 2.70 | 8B | 1-15/16 | 1-1/8 | 1.5 |
| 2MB30 | 2BK28 | 2.20 | 2.60 | 2.95 | 8B | 1-15/16 | 1-1/8 | 2.0 |
| 2MB32 | 2BK30 | 2.40 | 2.80 | 3.15 | 8B | 1-7/8 | 1-1/8 | 2.0 |
| 2MB33 | – | 2.50 | 2.90 | 3.25 | 8B | 1-7/8 | 1-1/8 | 2.0 |
| 2MB34 | 2BK32 | 2.60 | 3.00 | 3.35 | 8B | 1-15/16 | 1-1/8 | 3.0 |
| 2MB35 | 2BK34 | 2.80 | 3.20 | 3.55 | 8B | 1-7/8 | 1-1/8 | 2.5 |
| 2MB38 | 2BK36 | 3.00 | 3.40 | 3.75 | 8B | 1-7/8 | 1-3/8 | 3.0 |
| 2MB40 | 2BK40 | 3.20 | 3.60 | 3.95 | 8B | 1-11/16 | 1-3/16 | 3.0 |
| 2MB43 | 2BK45 | 3.50 | 3.90 | 4.25 | 8W | 1-13/16 | 1-3/8 | 4.0 |
| 2MB45 | 2BK47 | 3.70 | 4.10 | 4.45 | 8W | 1-13/16 | 1-1/4 | 4.0 |
| 2MB48 | 2BK50 | 4.00 | 4.40 | 4.75 | 8W | 1-13/16 | 1-1/4 | 4.0 |
| 2MB50 | 2BK52 | 4.20 | 4.60 | 4.95 | 8W | 1-11/16 | 1-1/4 | 4.5 |
| 2MB53 | 2BK55 | 4.50 | 4.90 | 5.25 | 8W | 1-13/16 | 1-3/8 | 5.0 |
| 2MB55 | 2BK57 | 4.70 | 5.10 | 5.45 | 8W | 1-13/16 | 1-3/8 | 5.0 |
| 2MB58 | 2BK60 | 5.00 | 5.40 | 5.75 | 8W | 1-13/16 | 1-3/8 | 5.0 |
| 2MB60 | 2BK62 | 5.20 | 5.60 | 5.95 | 8W | 1-13/16 | 1-3/8 | 6.0 |
| 2MB63 | 2BK65 | 5.50 | 5.90 | 6.25 | 8A | 1-13/16 | 1-11/16 | 6.0 |
| 2MB65 | 2BK67 | 5.70 | 6.10 | 6.45 | 8A | 1-11/16 | 1-11/16 | 6.0 |
| 2MB68 | 2BK70 | 6.00 | 6.40 | 6.75 | 8A | 1-13/16 | 1-11/16 | 6.0 |
| 2MB70 | – | 6.25 | 6.65 | 7.00 | 8A | 1-13/16 | 1-11/16 | 6.0 |
| 2MB78 | 2BK80 | 7.00 | 7.40 | 7.75 | 8A | 1-13/16 | 1-11/16 | 7.0 |
| 2MB80 | – | 7.25 | 7.65 | 8.00 | 8A | 1-13/16 | 1-11/16 | 8.0 |
| 2MB88 | 2BK90 | 8.00 | 8.40 | 8.75 | 8A | 1-13/16 | 1-11/16 | 8.0 |
| 2MB90 | – | 8.25 | 8.65 | 9.00 | 8A | 1-11/16 | 1-11/16 | 9.0 |
| 2MB98 | 2BK100 | 9.00 | 9.40 | 9.75 | 8A | 1-13/16 | 1-11/16 | 10.0 |
| 2MB100 | – | 9.25 | 9.65 | 10.00 | 8A | 1-13/16 | 1-11/16 | 10.0 |
| 2MB108 | 2BK110 | 10.00 | 10.40 | 10.75 | 8A | 1-13/16 | 1-11/16 | 13.0 |
| 2MB110 | – | 10.25 | 10.65 | 11.00 | 8A | 1-13/16 | 1-11/16 | 13.0 |
| 2MB118 | 2BK120 | 11.00 | 11.40 | 11.75 | 8A | 1-13/16 | 1-11/16 | 10.0 |
| 2MB120 | – | 11.25 | 11.65 | 12.00 | 8A | 1-11/16 | 1-11/16 | 15.0 |
| 2MB128 | 2BK130 | 12.00 | 12.40 | 12.75 | 8A | 1-13/16 | 1-7/8 | 15.0 |
| 2MB138 | 2BK140 | 13.00 | 13.40 | 13.75 | 8A | 1-13/16 | 1-7/8 | 17.0 |
| 2MB158 | 2BK160 | 15.00 | 15.40 | 15.75 | 8A | 1-13/16 | 1-7/8 | 18.0 |
| 2MB188 | 2BK190 | 18.00 | 18.40 | 18.75 | 8A | 1-13/16 | 1-7/8 | 26.0 |

P.D. for "A" belts = Datum dia. + 0.35" = O.D. - 0.40"
P.D. for "B" belts = O.D.
* DO NOT use "A" belts with these specific bores




**Type 7**




**Type 8**

### Keyseat information

| Bore range | Keyseat |
|---|---|
| 1/2" | None |
| 5/8" - 7/8" | 3/16" X 3/32" |
| 15/16" - 1-1/4" | 1/4" X 1/8" |
| 1-5/16" - 1-3/8" | 5/16" X 5/32" |
| 1-7/16" - 1-3/4" | 3/8" X 3/16" |

# Light duty fixed bore

## 2MB (A and B V-belts)

**2 grooves**

| Part number | Standard bores part numbers | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/2 | 5/8 | 3/4 | 7/8 | 15/16 | 1 | 1-1/8 | 1-3/16 | 1-1/4 | 1-3/8 | 1-7/16 |
| 2MB20 | 2MB20X1/2 | 2MB20X5/8 | 2MB20X3/4 | 2MB20X7/8 | – | – | – | – | – | – | – |
| 2MB23 | – | 2MB23X5/8 | – | 2MB23X7/8 | – | – | – | – | – | – | – |
| 2MB25 | 2MB25X1/2 | 2MB25X5/8 | 2MB25X3/4 | 2MB25X7/8 | – | 2MB25X1 | 2MB25X1-1/8 | – | – | – | – |
| 2MB28 | 2MB28X1/2 | 2MB28X5/8 | 2MB28X3/4 | 2MB28X7/8 | – | 2MB28X1 | 2MB28X1-1/8 | – | – | – | – |
| 2MB30 | 2MB30X1/2 | 2MB30X5/8 | 2MB30X3/4 | 2MB30X7/8 | – | 2MB30X1 | 2MB30X1-1/8 | – | – | 2MB30X1-3/8 | – |
| 2MB32 | 2MB32X1/2 | 2MB32X5/8 | 2MB32X3/4 | 2MB32X7/8 | – | 2MB32X1 | 2MB32X1-1/8 | – | – | – | – |
| 2MB33 | – | 2MB33X5/8 | 2MB33X3/4 | 2MB33X7/8 | – | 2MB33X1 | 2MB33X1-1/8 | – | – | – | – |
| 2MB34 | – | 2MB34X5/8 | – | 2MB34X7/8 | – | 2MB34X1 | 2MB34X1-1/8 | – | – | – | – |
| 2MB35 | – | 2MB35X5/8 | 2MB35X3/4 | 2MB35X7/8 | – | 2MB35X1 | 2MB35X1-1/8 | – | – | – | – |
| 2MB38 | – | 2MB38X5/8 | 2MB38X3/4 | 2MB38X7/8 | – | 2MB38X1 | 2MB38X1-1/8 | – | – | 2MB38X1-3/8 | – |
| 2MB40 | – | 2MB40X5/8 | 2MB40X3/4 | 2MB40X7/8 | – | 2MB40X1 | 2MB40X1-1/8 | – | 2MB40X1-1/4 | 2MB40X1-3/8 | – |
| 2MB43 | – | – | – | – | – | 2MB43X1 | 2MB43X1-1/8 | – | – | 2MB43X1-3/8 | – |
| 2MB45 | – | 2MB45X5/8 | – | 2MB45X7/8 | – | 2MB45X1 | 2MB45X1-1/8 | – | – | – | – |
| 2MB48 | – | – | 2MB48X3/4 | – | – | 2MB48X1 | 2MB48X1-1/8 | – | – | 2MB48X1-3/8 | – |
| 2MB50 | – | 2MB50X5/8 | 2MB50X3/4 | 2MB50X7/8 | – | 2MB50X1 | 2MB50X1-1/8 | – | 2MB50X1-1/4 | 2MB50X1-3/8 | – |
| 2MB53 | – | – | – | 2MB53X7/8 | – | 2MB53X1 | 2MB53X1-1/8 | – | – | 2MB53X1-3/8 | – |
| 2MB55 | – | – | 2MB55X3/4 | 2MB55X7/8 | – | 2MB55X1 | 2MB55X1-1/8 | – | – | 2MB55X1-3/8 | – |
| 2MB58 | – | – | – | – | – | 2MB58X1 | 2MB58X1-1/8 | – | – | 2MB58X1-3/8 | – |
| 2MB60 | – | – | – | 2MB60X7/8 | – | 2MB60X1 | 2MB60X1-1/8 | – | – | 2MB60X1-3/8 | – |
| 2MB63 | – | – | 2MB63X3/4 | – | – | 2MB63X1 | 2MB63X1-1/8 | – | – | 2MB63X1-3/8 | – |
| 2MB65 | – | – | 2MB65X3/4 | – | – | 2MB65X1 | 2MB65X1-1/8 | – | – | 2MB65X1-3/8 | – |
| 2MB68 | – | – | – | – | – | 2MB68X1 | 2MB68X1-1/8 | 2MB68X1-3/16 | – | 2MB68X1-3/8 | 2MB68X1-7/16 |
| 2MB70 | – | – | – | 2MB70X7/8 | – | 2MB70X1 | 2MB70X1-1/8 | – | – | – | – |
| 2MB75 | – | – | – | – | – | – | 2MB75X1-1/8 | – | – | – | – |
| 2MB78 | – | – | 2MB78X3/4 | 2MB78X7/8 | – | 2MB78X1 | 2MB78X1-1/8 | 2MB78X1-3/16 | 2MB78X1-1/4 | 2MB78X1-3/8 | 2MB78X1-7/16 |
| 2MB80 | – | – | – | – | – | 2MB80X1 | 2MB80X1-1/8 | – | – | 2MB80X1-3/8 | – |
| 2MB88 | – | – | 2MB88X3/4 | – | – | 2MB88X1 | 2MB88X1-1/8 | 2MB88X1-3/16 | 2MB88X1-1/4 | 2MB88X1-3/8 | 2MB88X1-7/16 |
| 2MB90 | – | – | – | – | – | 2MB90X1 | – | – | – | – | – |
| 2MB98 | – | – | 2MB98X3/4 | – | – | 2MB98X1 | 2MB98X1-1/8 | 2MB98X1-3/16 | – | – | 2MB98X1-7/16 |
| 2MB100 | – | – | – | – | – | 2MB100X1 | – | - | 2MB100X1-1/4 | – | – |
| 2MB108 | – | – | – | – | – | 2MB108X1 | – | 2MB108X1-3/16 | 2MB108X1-1/4 | – | 2MB108X1-7/16 |
| 2MB110 | – | – | – | – | – | 2MB110X1 | – | – | 2MB110X1-1/4 | – | – |
| 2MB118 | – | – | – | – | – | 2MB118X1 | – | 2MB118X1-3/16 | 2MB118X1-1/4 | – | 2MB118X1-7/16 |
| 2MB120 | – | – | – | – | – | 2MB120X1 | – | – | 2MB120X1-1/4 | – | – |
| 2MB128 | – | – | – | – | – | 2MB128X1 | – | 2MB128X1-3/16 | – | – | 2MB128X1-7/16 |
| 2MB138 | – | – | – | – | – | 2MB138X1 | – | 2MB138X1-3/16 | 2MB138X1-1/4 | – | 2MB138X1-7/16 |
| 2MB158 | – | – | – | – | – | 2MB158X1 | – | 2MB158X1-3/16 | – | – | 2MB158X1-7/16 |
| 2MB188 | – | – | – | – | – | – | – | 2MB188X1-3/16 | – | – | 2MB188X1-7/16 |

# Light duty bush type

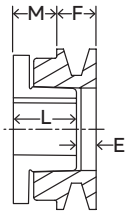
## MAL (A and 3L-4L V-belts)



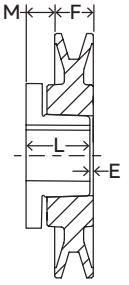
**1 groove**

| Part number | Cross reference | D.D. (3L) belts | D.D. A (4L) belts | O.D. | Type | Dimensions* | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | E | F | H | M | |
| MAL30 | AK30H | 2.46 | 2.8 | 3.05 | 1B | 3/8 | 3/4 | 1-11/32 | 31/32 | 1.15 |
| MAL32 | AK32H | 2.66 | 3.0 | 3.25 | 1B | 3/8 | 3/4 | 1-11/32 | 31/32 | 1.30 |
| MAL34 | AK34H | 2.86 | 3.2 | 3.45 | 1B | 3/32 | 3/4 | 1-11/32 | 11/16 | 1.20 |
| MAL37 | AK39H | 3.16 | 3.5 | 3.75 | 1B | 3/32 | 3/4 | 1-11/32 | 11/16 | 1.50 |
| MAL39 | AK41H | 3.36 | 3.7 | 3.95 | 1B | 3/32 | 3/4 | 1-11/32 | 11/16 | 1.75 |
| MAL42 | AK44H | 3.66 | 4.0 | 4.25 | 1B | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.05 |
| MAL44 | AK46H | 3.86 | 4.2 | 4.45 | 1B | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.25 |
| MAL47 | AK49H | 4.16 | 4.5 | 4.75 | 3W | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.10 |
| MAL49 | AK51H | 4.36 | 4.7 | 4.95 | 3W | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.35 |
| MAL52 | AK54H | 4.66 | 5.0 | 5.25 | 3W | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.65 |
| MAL54 | AK56H | 4.86 | 5.2 | 5.45 | 3W | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.75 |
| MAL57 | AK59H | 5.16 | 5.5 | 5.75 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.60 |
| MAL59 | AK61H | 5.36 | 5.7 | 5.95 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.50 |
| MAL62 | AK64H | 5.66 | 6.0 | 6.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.60 |
| MAL64 | AK66H | 5.86 | 6.2 | 6.45 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.70 |
| MAL67 | AK69H | 6.16 | 6.5 | 6.75 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.85 |
| MAL69 | AK71H | 6.36 | 6.7 | 6.95 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 2.90 |
| MAL72 | AK74H | 6.66 | 7.0 | 7.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 3.10 |
| MAL77 | AK79H | 7.16 | 7.5 | 7.75 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 3.35 |
| MAL82 | AK84H | 7.66 | 8.0 | 8.25 | 5A | 1/8 | 3/4 | 1-11/32 | 23/32 | 3.85 |
| MAL87 | AK89H | 8.16 | 8.5 | 8.75 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 4.10 |
| MAL92 | AK94H | 8.66 | 9.0 | 9.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 4.40 |
| MAL97 | AK99H | 9.16 | 9.5 | 9.75 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 4.60 |
| MAL102 | AK104H | 9.66 | 10.0 | 10.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 4.90 |
| MAL107 | AK109H | 10.16 | 10.5 | 10.75 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 5.20 |
| MAL112 | AK114H | 10.66 | 11.0 | 11.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/32 | 5.55 |
| MAL122 | AK124H | 11.66 | 12.0 | 12.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 5.90 |
| MAL132 | AK134H | 12.66 | 13.0 | 13.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 6.55 |
| MAL142 | AK144H | 13.66 | 14.0 | 14.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 7.30 |
| MAL152 | AK155H | 14.66 | 15.0 | 15.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 9.80 |
| MAL182 | AK184H | 17.66 | 18.0 | 18.25 | 5A | 3/32 | 3/4 | 1-11/32 | 11/16 | 9.95 |

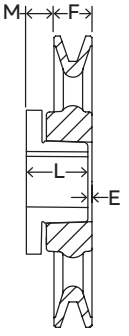
P.D. for "A" (4L) belts = O.D.
P.D. for "3L" belts = D.D.+0.25 = O.D. - 0.34
* Dimensions to closest fraction
Legend: "E" and "M" dimensions may vary according to shaft tolerance.
With "H" bushing only reverse mounting is possible.




**Type 1**




**Type 3**




**Type 5**

**Note: This entire product series uses the "H" bushing.**

# Light duty bush type

## 2MAL (A V-belts)

**2 grooves**

| Part number | Cross reference | D.D. A belts | O.D. | Type | Dimensions* | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | E | F | H | M | |
| 2MAL30 | 2AK30H | 2.8 | 3.05 | 2B | 1 | 1-3/8 | 1-11/32 | 31/32 | 1.70 |
| 2MAL32 | 2AK32H | 3.0 | 3.25 | 2B | 1 | 1-3/8 | 1-11/32 | 31/32 | 1.90 |
| 2MAL34 | 2AK34H | 3.2 | 3.45 | 2B | 23/32 | 1-3/8 | 1-11/32 | 11/16 | 1.90 |
| 2MAL37 | 2AK39H | 3.5 | 3.75 | 2B | 23/32 | 1-3/8 | 1-11/32 | 11/16 | 2.15 |
| 2MAL39 | 2AK41H | 3.7 | 3.95 | 4B | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 2.30 |
| 2MAL42 | 2AK44H | 4.0 | 4.25 | 4B | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 2.75 |
| 2MAL44 | 2AK46H | 4.2 | 4.45 | 4W | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 2.85 |
| 2MAL47 | 2AK49H | 4.5 | 4.75 | 4W | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 3.50 |
| 2MAL49 | 2AK51H | 4.7 | 4.95 | 4W | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 3.70 |
| 2MAL52 | 2AK54H | 5.0 | 5.25 | 4W | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 4.05 |
| 2MAL54 | 2AK56H | 5.2 | 5.45 | 4W | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 4.20 |
| 2MAL57 | 2AK59H | 5.5 | 5.75 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 3.90 |
| 2MAL59 | 2AK61H | 5.7 | 5.95 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 4.05 |
| 2MAL62 | 2AK64H | 6.0 | 6.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 4.50 |
| 2MAL72 | 2AK74H | 7.0 | 7.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 5.70 |
| 2MAL82 | 2AK84H | 8.0 | 8.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 6.50 |
| 2MAL92 | 2AK94H | 9.0 | 9.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 7.80 |
| 2MAL102 | 2AK104H | 10.0 | 10.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 8.80 |
| 2MAL112 | 2AK114H | 11.0 | 11.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 9.50 |
| 2MAL122 | 2AK124H | 12.0 | 12.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 10.60 |
| 2MAL132 | 2AK134H | 13.0 | 13.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 11.90 |
| 2MAL142 | 2AK144H | 14.0 | 14.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 12.45 |
| 2MAL152 | 2AK155H | 15.0 | 15.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 14.00 |
| 2MAL182 | 2AK184H | 18.0 | 18.25 | 6A | 3/32 | 1-3/8 | 1-11/32 | 1/16 | 17.95 |

P.D. for "A" belts = O.D.
* Dimensions to closest fraction
Legend: "E" and "M" dimensions may vary according to shaft tolerance.
With "H" bushing only reverse mounting is possible.

**Note: This entire product series uses the "H" bushing.**

# Light duty bush type

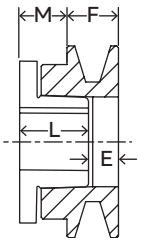
## MBL (A-B and 4L-5L V-belts)



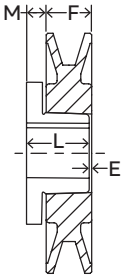
**1 groove**

| Part number | Cross reference | D.D. A (4L) belts | D.D. B (5L) belts | O.D. | Type | Dimensions* | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | E | F | H | M | |
| MBL31 | BK30H | 2.40 | 2.80 | 3.15 | 1B | 17/32 | 29/32 | 1-11/32 | 63/64 | 1.25 |
| MBL33 | BK32H | 2.60 | 3.00 | 3.35 | 1B | 17/32 | 29/32 | 1-11/32 | 63/64 | 1.40 |
| MBL35 | BK34H | 2.80 | 3.20 | 3.55 | 1B | 17/32 | 29/32 | 1-11/32 | 63/64 | 1.65 |
| MBL37 | BK36H | 3.00 | 3.40 | 3.75 | 3B | 3/32 | 29/32 | 1-11/32 | 17/32 | 1.40 |
| MBL39 | BK40H | 3.20 | 3.60 | 3.95 | 3B | 3/32 | 29/32 | 1-11/32 | 17/32 | 1.70 |
| MBL42 | BK45H | 3.50 | 3.90 | 4.25 | 3B | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.05 |
| MBL44 | BK47H | 3.70 | 4.10 | 4.45 | 3B | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.35 |
| MBL47 | BK50H | 4.00 | 4.40 | 4.75 | 3W | 3/32 | 29/32 | 1-11/32 | 17/32 | 1.95 |
| MBL49 | BK52H | 4.20 | 4.60 | 4.95 | 3W | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.40 |
| MBL52 | BK55H | 4.50 | 4.90 | 5.25 | 3W | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.35 |
| MBL54 | BK57H | 4.70 | 5.10 | 5.45 | 3W | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.90 |
| MBL57 | BK60H | 5.00 | 5.40 | 5.75 | 5W | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.45 |
| MBL59 | BK62H | 5.20 | 5.60 | 5.95 | 5W | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.80 |
| MBL62 | BK65H | 5.50 | 5.90 | 6.25 | 5W | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.70 |
| MBL64 | BK67H | 5.70 | 6.10 | 6.45 | 5W | 3/32 | 29/32 | 1-11/32 | 17/32 | 2.80 |
| MBL67 | BK70H | 6.00 | 6.40 | 6.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 3.00 |
| MBL69 | BK72H | 6.20 | 6.60 | 6.95 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 3.60 |
| MBL72 | BK75H | 6.50 | 6.90 | 7.25 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 3.45 |
| MBL74 | BK77H | 6.70 | 7.10 | 7.45 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 3.65 |
| MBL77 | BK80H | 7.00 | 7.40 | 7.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 3.80 |
| MBL82 | BK85H | 7.50 | 7.90 | 8.25 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 4.55 |
| MBL87 | BK90H | 8.00 | 8.40 | 8.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 5.10 |
| MBL92 | BK95H | 8.50 | 8.90 | 9.25 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 5.30 |
| MBL97 | BK100H | 9.00 | 9.40 | 9.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 5.80 |
| MBL102 | BK105H | 9.50 | 9.90 | 10.25 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 5.50 |
| MBL107 | BK110H | 10.00 | 10.40 | 10.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 5.85 |
| MBL112 | BK115H | 10.50 | 10.90 | 11.25 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 7.20 |
| MBL117 | BK120H | 11.00 | 11.40 | 11.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 6.59 |
| MBL127 | BK130H | 12.00 | 12.40 | 12.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 7.90 |
| MBL137 | BK140H | 13.00 | 13.40 | 13.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 10.15 |
| MBL147 | BK150H | 14.00 | 14.40 | 14.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 13.25 |
| MBL157 | BK160H | 15.00 | 15.40 | 15.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 16.05 |
| MBL187 | BK190H | 18.00 | 18.40 | 18.75 | 5A | 3/32 | 29/32 | 1-11/32 | 17/32 | 12.45 |

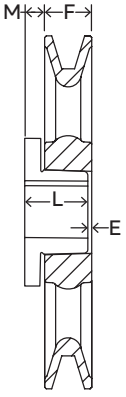
P.D. for "A" (4L) belts = Datum dia. + 0.35" = O.D. - 0.40"
P.D. for "B" (5L) belts = O.D.
* Dimensions to closest fraction
Legend: "E" and "M" dimensions may vary according to shaft tolerance.
With "H" bushing only reverse mounting is possible.




**Type 1**




**Type 3**




**Type 5**

**Note: This entire product series uses the "H" bushing.**

# Light duty bush type

## 2MBL (A-B V-belts)

**2 grooves**

| Part number | Cross reference | D.D. A belts | D.D. B belts | O.D. | Type | Dimensions* | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | E | F | H | M | |
| 2MBL33 | 2BK32H | 2.60 | 3.00 | 3.35 | 2B | 1-3/8 | 1-3/4 | 1-11/32 | 31/32 | 2.35 |
| 2MBL35 | 2BK34H | 2.80 | 3.20 | 3.55 | 2B | 1-3/8 | 1-3/4 | 1-11/32 | 31/32 | 2.55 |
| 2MBL37 | 2BK36H | 3.00 | 3.40 | 3.75 | 2B | 1-3/8 | 1-3/4 | 1-11/32 | 31/32 | 3.00 |
| 2MBL39 | 2BK40H | 3.20 | 3.60 | 3.95 | 2B | 15/16 | 1-3/4 | 1-11/32 | 17/32 | 2.80 |
| 2MBL42 | 2BK45H | 3.50 | 3.90 | 4.25 | 2B | 15/16 | 1-3/4 | 1-11/32 | 17/32 | 3.25 |
| 2MBL44 | 2BK47H | 3.70 | 4.10 | 4.45 | 2B | 15/16 | 1-3/4 | 1-11/32 | 17/32 | 3.35 |
| 2MBL47 | 2BK50H | 4.00 | 4.40 | 4.75 | 4W | 3/32 | 1-3/4 | 1-11/32 | 5/16 | 3.85 |
| 2MBL49 | 2BK52H | 4.20 | 4.60 | 4.95 | 4W | 3/32 | 1-3/4 | 1-11/32 | 5/16 | 4.00 |
| 2MBL52 | 2BK55H | 4.50 | 4.90 | 5.25 | 4W | 3/32 | 1-3/4 | 1-11/32 | 5/16 | 4.40 |
| 2MBL54 | 2BK57H | 4.70 | 5.10 | 5.45 | 4W | 3/32 | 1-3/4 | 1-11/32 | 5/16 | 4.95 |
| 2MBL57 | 2BK60H | 5.00 | 5.40 | 5.75 | 4W | 3/32 | 1-3/4 | 1-11/32 | 5/16 | 5.30 |
| 2MBL59 | 2BK62H | 5.20 | 5.60 | 5.95 | 4W | 3/32 | 1-3/4 | 1-11/32 | 5/16 | 5.80 |
| 2MBL62 | 2BK65H | 5.50 | 5.90 | 6.25 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 5.40 |
| 2MBL64 | 2BK67H | 5.70 | 6.10 | 6.45 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 5.85 |
| 2MBL67 | 2BK70H | 6.00 | 6.40 | 6.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 5.55 |
| 2MBL69 | - | 6.20 | 6.60 | 6.95 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 6.65 |
| 2MBL77 | 2BK80H | 7.00 | 7.40 | 7.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 6.85 |
| 2MBL87 | 2BK90H | 8.00 | 8.40 | 8.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 9.65 |
| 2MBL97 | 2BK100H | 9.00 | 9.40 | 9.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 9.20 |
| 2MBL107 | 2BK110H | 10.00 | 10.40 | 10.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 12.80 |
| 2MBL117 | 2BK120H | 11.00 | 11.40 | 11.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 14.65 |
| 2MBL127 | 2BK130H | 12.00 | 12.40 | 12.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 14.15 |
| 2MBL137 | 2BK140H | 13.00 | 13.40 | 13.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 14.95 |
| 2MBL157 | 2BK160H | 15.00 | 15.40 | 15.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 18.70 |
| 2MBL187 | 2BK190H | 18.00 | 18.40 | 18.75 | 6A | 1/16 | 1-3/4 | 1-11/32 | 11/32 | 24.20 |

P.D. for "A" belts = Datum dia. + 0.35" = O.D. - 0.40"
P.D. for "B" belts = O.D.
* Dimensions to closest fraction
Legend: "E" and "M" dimensions may vary according to shaft tolerance.
With "H" bushing only reverse mounting is possible.

**Note: This entire product series uses the "H" bushing.**

# Fractional horsepower series (F.H.P.)

## Fractional horsepower series MFAL



(Fixed bore A and 4L V-belt series)

### Features

- Stock items include one set screw with standard keyseat.

Caution: DO NOT use “A” gripnotch belts ratings with MFAL and MFAM sheaves.

### How to order

Example: **MFAL104X3/4**

M FAL 104 X 3/4

M: Light duty family

FAL: Fractional horsepower series

104: Outside diameter (10”)
(Refer to the dimensions table for exact value)

3/4: Bore size (3/4”)

# Fractional horsepower series (F.H.P.)

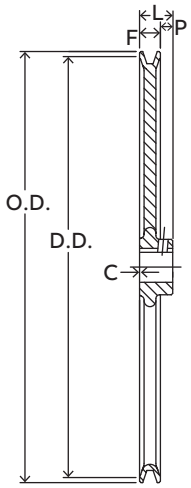
## Fractional horsepower series MFAL

| Part number | Cross reference | Diameter | | Stock bore part numbers | | | | Dimensions | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Outside | D.D. A (4L) | 5/8 | 3/4 | 7/8 | 1 | F | L | P | C | |
| MFAL54* | AL 54 | 4.93 | 4.78 | MFAL54X5/8 | MFAL54X3/4 | – | MFAL54X1 | 19/32 | 1-1/16 | 15/32 | – | 1.1 |
| MFAL64* | AL 64 | 5.93 | 5.78 | MFAL64X5/8 | MFAL64X3/4 | MFAL64X7/8 | MFAL64X1 | 19/32 | 1-1/16 | 15/32 | – | 1.5 |
| MFAL74* | AL 74 | 6.93 | 6.78 | MFAL74X5/8 | MFAL74X3/4 | – | MFAL74X1 | 19/32 | 1-1/16 | 15/32 | – | 1.75 |
| MFAL84* | AL 84 | 7.93 | 7.78 | MFAL84X5/8 | MFAL84X3/4 | MFAL84X7/8 | MFAL84X1 | 19/32 | 1-1/16 | 15/32 | – | 2.2 |
| MFAL94 | AL 94 | 8.93 | 8.78 | – | MFAL94X3/4 | MFAL94X7/8 | MFAL94X1 | 19/32 | 1-1/16 | 15/32 | – | 3.0 |
| MFAL104 | AL 104 | 9.93 | 9.78 | – | MFAL104X3/4 | – | MFAL104X1 | 19/32 | 1-1/16 | 15/32 | – | 2.7 |
| MFAL114 | AL 114 | 10.93 | 10.78 | – | MFAL114X3/4 | – | MFAL114X1 | 19/32 | 1-1/16 | 15/32 | – | 3.1 |
| MFAL124 | AL 124 | 11.93 | 11.78 | – | MFAL124X3/4 | MFAL124X7/8 | MFAL124X1 | 19/32 | 1-1/16 | 15/32 | – | 3.5 |
| MFAM144 | AM 144 | 14.16 | 14.00 | – | – | – | MFAM144X1 | 11/16 | 1-3/32 | 13/32 | 1/32 | 5.2 |

* This item is packaged 10 per carton.
Pitch dia. for "A" (4L) belts = Datum dia. +.26" = O.D. +.11"

### Keyseat information

| Bore range | Keyseat |
|---|---|
| 1/2" | None |
| 5/8" - 7/8" | 3/16" X 3/32" |
| 15/16" - 1-1/4" | 1/4" X 1/8" |



# Adjustable pitch sheaves



Adjustable speed sheaves are used primarily in the air handling industry. Optimal fan working speed is easily obtained by simply adjusting one of the pulleys.

### Features

- Adjustable pitch sheaves are made of durable gray cast iron class 30.
- Line covers from fractional light duty (less than 1 Hp) to heavy duty (40 Hp) applications

### Note:

- DO NOT use these gray cast iron sheaves with rim speeds in excess of 6500 feet per minute. Note that the maximum RPM indicated on the arm of the sheave is based on the 6500 ft./min. limit, and doesn't take into consideration the need for dynamic balancing (two planes). Please verify the validity of dynamic balancing in your application. All operational PT products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards and good safety practice. (Refer to ANSI standard B15.1)
- Irregardless of the equipment used, Dodge recommends NOT reboring adjustable pitch pulleys. The concentricity may be lost.

# Adjustable pitch MVL

**Features:**

- HVAC applications
- Designed for applications up to 5 Hp
- Bore range 1/2” to 7/8”
- Bulk packaged 20 per carton
- Designed to be used with the MFAL series

Note: DO NOT use B gripnotch belt ratings with MVL sheaves.

**How to order:**

Example: MVL30X5/8

MVL 30 X 5/8

MVL: Adjustable pitch sheave series

30: Approximate outside diameter (2.87”)

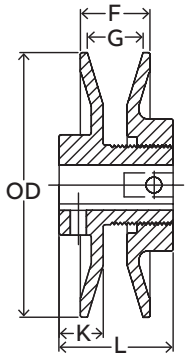
5/8: Bore size (5/8”)
Inch bore sizes are designated with the whole inch followed by the fraction. For example, a 1.5” diameter bore would be 1-1/2”.

Pulley Adjustment

Modify the sheave pitch diameter by rotating the adjustable flange on the threaded hub of the pulley. Once the required diameter is obtained, tighten the adjusting screw(s) on one of the two flat surfaces.

# Adjustable pitch sheaves
## Dimensions

| Part number | Cross reference | O.D. | Dimensions | | | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|
| | | | F maximum | F minimum | G maximum | G minimum | L | K | |
| MVL25 | VL25 | 2.50 | 27/32 | 19/32 | 5/8 | 3/8 | 1-1/2 | 37/64 | 0.8 |
| MVL30 | VL30 | 2.87 | 27/32 | 19/32 | 5/8 | 3/8 | 1-1/2 | 37/64 | 1.0 |
| MVL34 | VL34 | 3.15 | 1-5/64 | 23/32 | 7/8 | 1/2 | 1-11/16 | 37/64 | 1.1 |
| MVL40 | VL40 | 3.75 | 1-3/32 | 45/64 | 7/8 | 1/2 | 1-11/16 | 37/64 | 1.5 |
| MVL44 | VL44 | 4.15 | 1-3/32 | 45/64 | 7/8 | 1/2 | 1-11/16 | 37/64 | 1.8 |
| 1VM50 | 1VM50 | 4.75 | 1-1/16 | 11/16 | 7/8 | 1/2 | 1 7/8 | 21/32 | 2.8 |




| Part number | Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | 1/2 | 5/8 | 3/4 | 7/8 | 14mm | 19mm |
| MVL25 | MVL25X1/2 | MVL25X5/8 | – | – | – | – |
| MVL30 | MVL30X1/2 | MVL30X5/8 | – | – | – | – |
| MVL34 | MVL34X1/2 | MVL34X5/8 | MVL34X3/4 | – | – | – |
| MVL40 | MVL40X1/2 | MVL40X5/8 | MVL40X3/4 | MVL40X7/8 | – | – |
| MVL44 | MVL44X1/2 | MVL44X5/8 | MVL44X3/4 | MVL44X7/8 | MVL44X14MM | MVL44X19MM |
| 1VM50 | 1VM50X1/2 | 1VM50X5/8 | 1VM50X3/4 | 1VM50X7/8 | – | – |

### Datum diameters

| | Part number | Datum diameter, inches | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Minimum | Maximum | 0 turn close | 1 turn open | 2 turns open | 3 turns open | 4 turns open | 5 turns open | 6 turns open | 7 turns open |
| 3L belt | MVL25 | 1.6 | 2.4 | 2.4 | 2.2 | 2.0 | 1.8 | 1.6 | – | – | – |
| | MVL30 | 1.8 | 2.6 | 2.6 | 2.4 | 2.2 | 2.0 | 1.8 | – | – | – |
| | MVL34 | 1.7 | 2.5 | 2.5 | 2.3 | 2.1 | 1.9 | 1.7 | – | – | – |
| | MVL40 | 2.3 | 3.1 | 3.1 | 2.9 | 2.7 | 2.5 | 2.3 | – | – | – |
| | MVL44 | 2.7 | 3.5 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 | – | – | – |
| | 1VM50 | 3.3 | 4.1 | 4.1 | 3.9 | 3.7 | 3.5 | 3.3 | – | – | – |
| A (4L) belt | MVL25 | 1.6 | 2.2 | – | – | 2.2 | 2.0 | 1.8 | 1.6 | – | – |
| | MVL30 | 2.0 | 2.6 | – | – | 2.6 | 2.4 | 2.2 | 2.0 | – | – |
| | MVL34 | 1.9 | 2.9 | 2.9 | 2.7 | 2.5 | 2.3 | 2.1 | 1.9 | – | – |
| | MVL40 | 2.4 | 3.4 | 3.4 | 3.2 | 3.0 | 2.8 | 2.6 | 2.4 | – | – |
| | MVL44 | 2.8 | 3.8 | 3.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.8 | – | – |
| | 1VM50 | 3.4 | 4.4 | 4.4 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 | – | – |
| B* (5L) belt | MVL25 | 2.0 | 2.2 | – | – | – | – | 2.2 | 2.0 | – | – |
| | MVL30 | 2.4 | 2.6 | – | – | – | – | 2.6 | 2.4 | – | – |
| | MVL34 | 2.4 | 3.2 | – | 3.2 | 3.0 | 2.8 | 2.6 | 2.4 | – | – |
| | MVL40 | 2.7 | 3.7 | – | 3.7 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 | – |
| | MVL44 | 3.1 | 4.1 | – | 4.1 | 3.9 | 3.7 | 3.5 | 3.3 | 3.1 | – |
| | 1VM50 | 3.7 | 4.7 | – | 4.7 | 4.5 | 4.3 | 4.1 | 3.9 | 3.7 | – |

Pitch dia. for 3L belts = Datum dia. + .25”
Pitch dia. for “A” (4L) belts = Datum dia. + .25”
Pitch dia. for “B” (5L) belts = Datum dia. + .35”

| Bore range | Keyseat |
|---|---|
| 1/2” | None |
| 5/8” - 7/8” | 3/16” X 3/32” |

# Adjustable pitch VP series

### Features:

- Dodge 1VP and 2VP series are finished bore variable speed sheaves made of cast iron and designed for heavier duty service up to 25 Hp
- Available in single and double grooves, offering a pitch range from 1.9” x to 6.7” (A belt) and 2.4” to 7.0” (B belt)
- Type 2 model has positive locked-on settings

### How to order:

Example: 1VP71X3/4

1 VP71 X 3/4

1: Number of grooves

VP71: Adjustable pitch sheave size
Last 2 digits represent the approximate outside diameter. (7.1”)

3/4: Bore size (3/4”)
Inch bore sizes are designated with the whole inch followed by the fraction. For example, a 1.5” diameter bore would be 1-1/2”.

Pulley adjustment

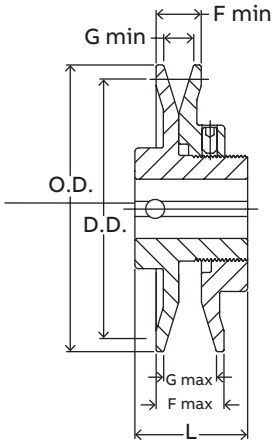
Modify the sheave pitch diameter by rotating the adjustable flange on the threaded hub of the pulley. Once the required diameter is obtained, tighten the adjusting screw(s) on one of the two flat surfaces.

To obtain the same pitch diameter in both grooves of the VP series, tighten both movable flanges against the central flange, make trace marks on both flanges, then rotate both flanges the same number of turns.

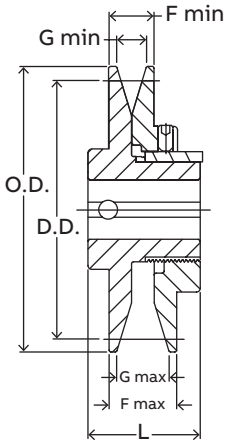
# Adjustable pitch VP series

## 1VP and 2VP

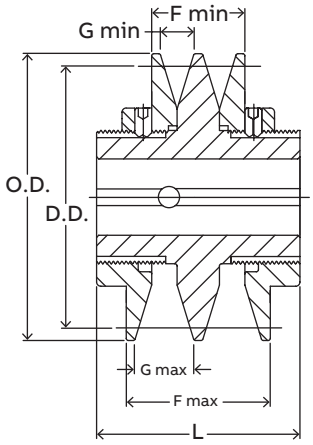




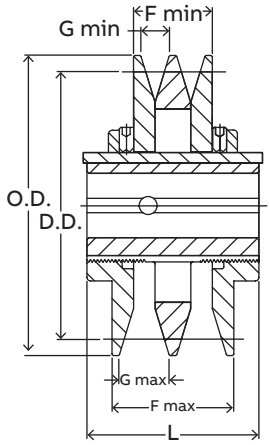

**Type 1 (without key)**




**Type 2**




**Type 3 (without key)**




**Type 4**

| Part number | Type | O.D. | L | F | | G | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|
| | | | | Maximum | Minimum | Maximum | Minimum | |
| 1VP25 | 1 | 2.50 | 1-1/2 | 13/16 | 9/16 | 5/8 | 3/8 | 7 |
| 1VP30 | 1 | 2.87 | 1-21/32 | 13/16 | 9/16 | 5/8 | 3/8 | 1.1 |
| 1VP34 | 1 | 3.15 | 1-7/8 | 1 | 11/16 | 13/16 | 1/2 | 1.4 |
| 1VP40 | 1 | 3.75 | 1-7/8 | 1-1/16 | 11/16 | 7/8 | 1/2 | 1.9 |
| 1VP44 | 1 | 4.15 | 1-7/8 | 1-1/16 | 11/16 | 7/8 | 1/2 | 2.4 |
| 1VP44 | 2 | 4.15 | 1-7/8 | 1-1/8 | 3/4 | 7/8 | 1/2 | 2.9 |
| 1VP50 | 1 | 4.75 | 2 | 1-1/16 | 11/16 | 7/8 | 1/2 | 2.9 |
| 1VP50 | 2 | 4.75 | 1-7/8 | 1-1/8 | 3/4 | 7/8 | 1/2 | 3.6 |
| 1VP56 | 1 | 5.35 | 1-7/8 | 1-1/16 | 11/16 | 7/8 | 1/2 | 3.8 |
| 1VP56 | 2 | 5.35 | 1-7/8 | 1-1/8 | 3/4 | 7/8 | 1/2 | 4.4 |
| 1VP60 | 2 | 6.00 | 1-21/32 | 1-1/4 | 7/8 | 1-1/32 | 21/32 | 6.5 |
| 1VP62 | 2 | 5.95 | 1-29/32 | 1-1/8 | 3/4 | 7/8 | 1/2 | 6.1 |
| 1VP65 | 2 | 6.50 | 1-21/32 | 1-1/4 | 7/8 | 1-1/32 | 21/32 | 6.8 |
| 1VP68 | 2 | 6.55 | 1-29/32 | 1-1/8 | 3/4 | 7/8 | 1/2 | 7.3 |
| 1VP71 | 2 | 7.10 | 1-21/32 | 1-1/4 | 7/8 | 1-1/32 | 21/32 | 8.2 |
| 1VP75 | 2 | 7.50 | 1-21/32 | 1-1/4 | 7/8 | 1-1/32 | 21/32 | 9.2 |
| 2VP36 | 3 | 3.35 | 3 | 2 | 1-3/8 | 13/16 | 1/2 | 3.4 |
| 2VP42 | 3 | 3.95 | 3 | 2-1/8 | 1-3/8 | 7/8 | 1/2 | 4.4 |
| 2VP50 | 4 | 4.75 | 3 | 2-1/8 | 1-3/8 | 7/8 | 1/2 | 6.3 |
| 2VP56 | 4 | 5.35 | 3 | 2-1/8 | 1-3/8 | 7/8 | 1/2 | 7.8 |
| 2VP60 | 4 | 6.00 | 3-1/4 | 2-3/8 | 1-5/8 | 1-1/32 | 21/32 | 10.6 |
| 2VP62 | 4 | 5.95 | 3 | 2-1/8 | 1-3/8 | 7/8 | 1/2 | 10.0 |
| 2VP65 | 4 | 6.50 | 3-1/4 | 2-3/8 | 1-5/8 | 1-1/32 | 21/32 | 12.3 |
| 2VP68 | 4 | 6.55 | 3 | 2-1/8 | 1-3/8 | 7/8 | 1/2 | 11.7 |
| 2VP71 | 4 | 7.10 | 3-1/4 | 2-3/8 | 1-5/8 | 1-1/32 | 21/32 | 14.6 |
| 2VP75 | 4 | 7.50 | 3-1/4 | 2-3/8 | 1-5/8 | 1-1/32 | 21/32 | 16.5 |

* Supplied without keyway thru the bore

# Adjustable pitch VP series

## 1VP and 2VP

| Part number | Standard bores part numbers | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-1/4 |
| 1VP25 | 1VP25X1/2 | – | – | – | – | – | – |
| 1VP30 | 1VP30X1/2 | 1VP30X5/8 | 1VP30X3/4 | – | – | – | – |
| 1VP34 | 1VP34X1/2 | 1VP34X5/8 | 1VP34X3/4 | 1VP34X7/8 | – | – | – |
| 1VP40 | 1VP40X1/2 | 1VP40X5/8 | 1VP40X3/4 | 1VP40X7/8 | – | 1VP40X1-1/8 | – |
| 1VP44 | 1VP44X1/2 | 1VP44X5/8 | 1VP44X3/4 | – | – | – | – |
| 1VP44 | – | – | – | 1VP44X7/8 | 1VP44X1 | 1VP44X1-1/8 | – |
| 1VP50 | 1VP50X1/2 | 1VP50X5/8 | 1VP50X3/4 | – | – | – | – |
| 1VP50 | – | – | – | 1VP50X7/8 | 1VP50X1 | 1VP50X1-1/8 | – |
| 1VP56 | 1VP56X1/2 | 1VP56X5/8 | 1VP56X3/4 | – | – | – | – |
| 1VP56 | – | – | – | 1VP56X7/8 | 1VP56X1 | 1VP56X1-1/8 | – |
| 1VP60 | – | – | 1VP60X3/4 | 1VP60X7/8 | – | 1VP60X1-1/8 | – |
| 1VP62 | – | 1VP62X5/8 | 1VP62X3/4 | 1VP62X7/8 | 1VP62X1 | 1VP62X1-1/8 | 1VP62X1-1/4 |
| 1VP65 | – | – | 1VP65X3/4 | 1VP65X7/8 | – | 1VP65X1-1/8 | - |
| 1VP68 | – | 1VP68X5/8 | 1VP68X3/4 | 1VP68X7/8 | 1VP68X1 | 1VP68X1-1/8 | 1VP68X1-1/4 |
| 1VP71 | – | – | 1VP71X3/4 | 1VP71X7/8 | – | 1VP71X1-1/8 | – |
| 1VP75 | – | 1VP75X5/8 | 1VP75X3/4 | 1VP75X7/8 | 1VP75X1 | 1VP75X1-1/8 | – |
| 2VP36 | 2VP36X1/2 | 2VP36X5/8 | 2VP36X3/4 | 2VP36X7/8 | – | – | – |
| 2VP42 | – | 2VP42X5/8 | 2VP42X3/4 | 2VP42X7/8 | 2VP42X1 | 2VP42X1-1/8 | – |
| 2VP50 | – | 2VP50X5/8 | 2VP50X3/4 | 2VP50X7/8 | 2VP50X1 | 2VP50X1-1/8 | – |
| 2VP56 | – | 2VP56X5/8 | 2VP56X3/4 | 2VP56X7/8 | 2VP56X1 | 2VP56X1-1/8 | – |
| 2VP60 | – | – | 2VP60X3/4 | 2VP60X7/8 | – | 2VP60X1-1/8 | – |
| 2VP62 | – | – | 2VP62X3/4 | 2VP62X7/8 | 2VP62X1 | 2VP62X1-1/8 | 2VP62X1-1/4 |
| 2VP65 | – | – | 2VP65X3/4 | 2VP65X7/8 | – | 2VP65X1-1/8 | – |
| 2VP68 | – | – | 2VP68X3/4 | 2VP68X7/8 | 2VP68X1 | 2VP68X1-1/8 | 2VP68X1-1/4 |
| 2VP71 | – | – | 2VP71X3/4 | 2VP71X7/8 | – | 2VP71X1-1/8 | – |
| 2VP75 | – | – | 2VP75X3/4 | 2VP75X7/8 | 2VP75X1 | 2VP75X1-1/8 | – |

| Part number | Standard bores part numbers | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1-3/8 | 1-5/8 | 14mm | 19mm | 24mm | 28mm | 38mm |
| 1VP25 | – | – | – | – | – | – | – |
| 1VP30 | – | – | – | – | – | – | – |
| 1VP34 | – | – | 1VP34X14MM | 1VP34X19MM | – | – | – |
| 1VP40 | – | – | 1VP40X14MM | 1VP40X19MM | – | – | – |
| 1VP44 | – | – | 1VP44X14MM | 1VP44X19MM | – | – | – |
| 1VP44 | – | – | – | – | 1VP44X24MM | – | – |
| 1VP50 | – | – | – | 1VP50X19MM | – | – | – |
| 1VP50 | – | – | – | – | 1VP50X24MM | 1VP50X28MM | – |
| 1VP56 | – | – | – | – | | – | – |
| 1VP56 | – | – | – | – | 1VP56X24MM | 1VP56X28MM | – |
| 1VP60 | 1VP60X1-3/8 | – | – | – | – | – | – |
| 1VP62 | 1VP62X1-3/8 | – | – | – | 1VP62X24MM | 1VP62X28MM | – |
| 1VP65 | 1VP65X1-3/8 | 1VP65X1-5/8 | – | – | – | – | – |
| 1VP68 | 1VP68X1-3/8 | - | – | – | – | – | – |
| 1VP71 | 1VP71X1-3/8 | 1VP71X1-5/8 | – | – | – | – | – |
| 1VP75 | 1VP75X1-3/8 | 1VP75X1-5/8 | – | – | – | – | – |
| 2VP36 | – | – | – | – | – | – | – |
| 2VP42 | – | – | – | – | 2VP42X24MM | 2VP42X28MM | – |
| 2VP50 | – | – | – | – | – | 2VP50X28MM | – |
| 2VP56 | 2VP56X1-3/8 | – | – | – | – | 2VP56X28MM | 2VP56X38MM |
| 2VP60 | 2VP60X1-3/8 | 2VP60X1-5/8 | – | – | – | – | – |
| 2VP62 | 2VP62X1-3/8 | – | – | – | – | 2VP62X28MM | 2VP62X38MM |
| 2VP65 | 2VP65X1-3/8 | 2VP65X1-5/8 | – | – | – | – | – |
| 2VP68 | 2VP68X1-3/8 | 2VP68X1-5/8 | – | – | – | 2VP68X28MM | 2VP68X38MM |
| 2VP71 | 2VP71X1-3/8 | 2VP71X1-5/8 | – | – | – | – | – |
| 2VP75 | 2VP75X1-3/8 | 2VP75X1-5/8 | – | – | – | – | – |

# Adjustable pitch VP series



## Datum diameters

| | Part number | Datum diameter, inches | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Minimum | Maximum | 0 turn close | 1 turn open | 2 turns open | 3 turns open | 4 turns open | 5 turns open | 6 turns open |
| 3L belt | 1VP25 | 1.6 | 2.4 | 2.4 | 2.2 | 2.0 | 1.8 | 1.6 | – | – |
| | 1VP30 | 1.8 | 2.6 | 2.6 | 2.4 | 2.2 | 2.0 | 1.8 | – | – |
| | 1VP34 | 1.7 | 2.5 | 2.5 | 2.3 | 2.1 | 1.9 | 1.7 | – | – |
| | 2VP36 | 1.9 | 2.7 | 2.7 | 2.5 | 2.3 | 2.1 | 1.9 | – | – |
| | 1VP40 | 2.3 | 3.1 | 3.1 | 2.9 | 2.7 | 2.5 | 2.3 | – | – |
| | 2VP42 | 2.5 | 3.3 | 3.3 | 3.1 | 2.9 | 2.7 | 2.5 | – | – |
| | 1VP44 | 2.7 | 3.5 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 | – | – |
| | 1VP50 and 2VP50 | 3.3 | 4.1 | 4.1 | 3.9 | 3.7 | 3.5 | 3.3 | – | – |
| | 1VP56 and 2VP56 | 3.9 | 4.7 | 4.7 | 4.5 | 4.3 | 4.1 | 3.9 | – | – |
| | 1VP60 and 2VP60 | – | – | – | – | – | – | – | – | – |
| | 1VP62 and 2VP62 | 4.5 | 5.3 | 5.3 | 5.1 | 4.9 | 4.7 | 4.5 | – | – |
| | 1VP65 and 2VP65 | – | – | – | – | – | – | – | – | – |
| | 1VP68 and 2VP68 | 5.1 | 5.9 | 5.9 | 5.7 | 5.5 | 5.3 | 5.1 | – | – |
| | 1VP71 and 2VP71 | – | – | – | – | – | – | – | – | – |
| | 1VP75 and 2VP75 | – | – | – | – | – | – | – | – | – |
| (4L) A belt | 1VP34 | 1.9 | 2.9 | 2.9 | 2.7 | 2.5 | 2.3 | 2.1 | 1.9 | – |
| | 2VP36 | 2.0 | 3.0 | 3.0 | 2.8 | 2.6 | 2.4 | 2.2 | 2.0 | – |
| | 1VP40 | 2.4 | 3.4 | 3.4 | 3.2 | 3.0 | 2.8 | 2.6 | 2.4 | – |
| | 2VP42 | 2.6 | 3.6 | 3.6 | 3.4 | 3.2 | 3.0 | 2.8 | 2.6 | – |
| | 1VP44 | 2.8 | 3.8 | 3.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.8 | – |
| | 1VP50 and 2VP50 | 3.4 | 4.4 | 4.4 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 | – |
| | 1VP56 and 2VP56 | 4.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | 4.0 | – |
| | 1VP60 and 2VP60 | 4.2 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.4 | 4.2 | – |
| | 1VP62 and 2VP62 | 4.6 | 5.6 | 5.6 | 5.4 | 5.2 | 5.0 | 4.8 | 4.6 | – |
| | 1VP65 and 2VP65 | 4.7 | 5.7 | 5.7 | 5.5 | 5.3 | 5.1 | 4.9 | 4.7 | – |
| | 1VP68 and VP68 | 5.2 | 6.2 | 6.2 | 6.0 | 5.8 | 5.6 | 5.4 | 5.2 | – |
| | 1VP71 and 2VP71 | 5.3 | 6.3 | 6.3 | 6.1 | 5.9 | 5.7 | 5.5 | 5.3 | – |
| | 1VP75 and 2VP75 | 5.7 | 6.7 | 6.7 | 6.5 | 6.3 | 6.1 | 5.9 | 5.7 | – |
| (5L) B belt | 1VP34 | 2.4 | 3.2 | – | 3.2 | 3.0 | 2.8 | 2.6 | 2.4 | – |
| | 2VP36 | 2.5 | 3.3 | – | 3.3 | 3.1 | 2.9 | 2.7 | 2.5 | – |
| | 1VP40 | 2.7 | 3.7 | – | 3.7 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 |
| | 2VP42 | 2.9 | 3.9 | – | 3.9 | 3.7 | 3.5 | 3.3 | 3.1 | 2.9 |
| | 1VP44 | 3.1 | 4.1 | – | 4.1 | 3.9 | 3.7 | 3.5 | 3.3 | 3.1 |
| | 1VP50 and 2VP50 | 3.7 | 4.7 | – | 4.7 | 4.5 | 4.3 | 4.1 | 3.9 | 3.7 |
| | 1VP56 and 2VP56 | 4.3 | 5.3 | – | 5.3 | 5.1 | 4.9 | 4.7 | 4.5 | 4.3 |
| | 1VP60 and 2VP60 | 4.3 | 5.5 | 5.5 | 5.3 | 5.1 | 4.9 | 4.7 | 4.5 | 4.3 |
| | 1VP62 and 2VP62 | 4.9 | 5.9 | – | 5.9 | 5.7 | 5.5 | 5.3 | 5.1 | 4.9 |
| | 1VP65 and 2VP65 | 4.8 | 6.0 | 6.0 | 5.8 | 5.6 | 5.4 | 5.2 | 5.0 | 4.8 |
| | 1VP68 and 2VP68 | 5.5 | 6.5 | – | 6.5 | 6.3 | 6.1 | 5.9 | 5.7 | 5.5 |
| | 1VP71 and 2VP71 | 5.4 | 6.6 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 | 5.6 | 5.4 |
| | 1VP75 and 2VP75 | 5.8 | 7.0 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 |
| 5V belt | 1VP34 | – | – | – | – | – | – | – | – | – |
| | 2VP36 | – | – | – | – | – | – | – | – | – |
| | 1VP40 | – | – | – | – | – | – | – | – | – |
| | 2VP42 | – | – | – | – | – | – | – | – | – |
| | 1VP44 | – | – | – | – | – | – | – | – | – |
| | 1VP50 and 2VP50 | – | – | – | – | – | – | – | – | – |
| | 1VP56 and 2VP56 | – | – | – | – | – | – | – | – | – |
| | 1VP60 and 2VP60 | – | – | – | – | – | – | – | – | – |
| | 1VP62 and 2VP62 | 5.3 | 6.3 | – | 6.3 | 6.1 | 5.9 | 5.7 | 5.5 | 5.3 |
| | 1VP65 and 2VP65 | 5.2 | 6.4 | 6.4 | 6.2 | 6.0 | 5.8 | 5.6 | 5.4 | 5.2 |
| | 1VP68 and 2VP68 | 5.9 | 6.9 | – | 6.9 | 6.7 | 6.5 | 6.3 | 6.1 | 5.9 |
| | 1VP71 and 2VP71 | 5.8 | 7.0 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 |
| | 1VP75 and 2VP75 | 6.2 | 7.4 | 7.4 | 7.2 | 7.0 | 6.8 | 6.6 | 6.4 | 6.2 |

P.D. for "3L" belts = Datum dia. "3L" belts + .25"
P.D. for "A" (4L) belts = Datum dia. "A" belts + .25"
P.D. for "B" (5L) belts = Datum dia. "B" belts + .35"
P.D. for "5V" belts = Datum dia. "5V" belts + .10"

# Heavy duty adjustable pitch MVS sheaves
## 1VP and 2VP

### Features:

- Designed for up to 40 Hp @ 1750 RPM
- Used with A, B, 3V and 5V belts

Note: Every turn of the adjustment screw moves the flange by 1/16".

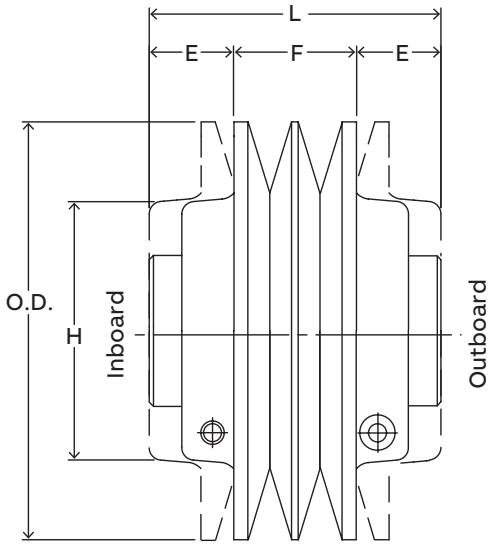
### How to order:

Example: MVS150X1-3/8

MVS150 X 1-3/8

MVS150: Adjustable pitch sheave size
Last three digits represent the outside diameter in mm. 150mm = 5.905"

1-3/8: Adjustable bore size (1-3/8")
Inch bore sizes are designated with the whole inch followed by the fraction. For example, a 1.5" diameter bore would be 1-1/2".




Pulley adjustment

Modify the sheave pitch diameter by using the adjustment screw. Every turn of the adjustment screw moves the flanges by 1/16". Once the required diameter is obtained, tighten the locking screw.

# Heavy duty adjustable pitch MVS sheaves

## Dimensions

| Part number | Cross reference | O.D. | Dimensions | | | | | | Stock bore part numbers | | | | | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | F max. | F min. | E max. | E min. | L | H | 1-1/8 | 1-3/8 | 1-5/8 | 1-7/8 | 2-1/8 | |
| MVS130 | JVS 130 | 5.118 | 1.73 | 2.27 | 0.75 | 1.02 | 3.77 | 3.15 | MVS130X1-1/8 | MVS130X1-3/8 | – | – | – | 8.5 |
| MVS150 | JVS 150 | 5.905 | 1.73 | 2.59 | 0.77 | 1.20 | 4.13 | 3.62 | MVS150X1-1/8 | MVS150X1-3/8 | MVS150X1-5/8 | – | – | 12.1 |
| MVS170 | JVS 170 | 6.692 | 1.73 | 2.59 | 0.77 | 1.20 | 4.13 | 3.62 | MVS170X1-1/8 | MVS170X1-3/8 | MVS170X1-5/8 | – | – | 14.8 |
| MVS190 | JVS 190 | 7.480 | 1.73 | 2.59 | 0.77 | 1.20 | 4.13 | 5.12 | – | MVS190X1-3/8 | MVS190X1-5/8 | MVS190X1-7/8 | – | 23.2 |
| MVS210 | JVS 210 | 8.268 | 1.73 | 2.59 | 0.77 | 1.20 | 4.13 | 5.12 | – | MVS210X1-3/8 | MVS210X1-5/8 | MVS210X1-7/8 | MVS210X2-1/8 | 27.0 |
| MVS230 | JVS 230 | 9.055 | 1.73 | 2.59 | 0.77 | 1.20 | 4.13 | 5.12 | – | MVS230X1-3/8 | MVS230X1-5/8 | MVS230X1-7/8 | MVS230X2-1/8 | 30.4 |

### Datum diameters

| | Part number | Datum diameter, inches | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Minimum | Maximum | 0 turn close | 1 turn open | 2 turns open | 3 turns open | 4 turns open | 5 turns open | 6 turns open | 7 turns open |
| A belt | MVS130 | 3.45 | 4.47 | 4.47 | 4.26 | 4.06 | 3.85 | 3.65 | 3.45 | – | – |
| | MVS150 | 4.23 | 5.25 | 5.25 | 5.05 | 4.85 | 4.64 | 4.44 | 4.23 | – | – |
| | MVS170 | 4.81 | 6.04 | 6.04 | 5.84 | 5.63 | 5.43 | 5.22 | 5.02 | 4.81 | – |
| | MVS190 | 5.60 | 6.83 | 6.83 | 6.62 | 6.42 | 6.21 | 6.01 | 5.81 | 5.60 | – |
| | MVS210 | 6.40 | 7.63 | 7.63 | 7.43 | 7.22 | 7.02 | 6.81 | 6.61 | 6.40 | – |
| | MVS230 | 7.19 | 8.42 | 8.42 | 8.21 | 8.01 | 7.81 | 7.60 | 7.40 | 7.19 | – |
| B belt | MVS130 | 3.63 | 4.86 | 4.86 | 4.65 | 4.45 | 4.24 | 4.04 | 3.84 | 3.63 | – |
| | MVS150 | 4.21 | 5.65 | 5.65 | 5.44 | 5.24 | 5.03 | 4.83 | 4.62 | 4.42 | 4.21 |
| | MVS170 | 5.00 | 6.43 | 6.43 | 6.23 | 6.02 | 5.82 | 5.61 | 5.41 | 5.21 | 5.00 |
| | MVS190 | 5.79 | 7.22 | 7.22 | 7.01 | 6.81 | 6.60 | 6.40 | 6.20 | 5.99 | 5.79 |
| | MVS210 | 6.59 | 8.02 | 8.02 | 7.82 | 7.61 | 7.41 | 7.20 | 7.00 | 6.80 | 6.59 |
| | MVS230 | 7.38 | 8.81 | 8.81 | 8.61 | 8.40 | 8.20 | 7.99 | 7.79 | 7.58 | 7.38 |
| 3V belt | MVS130 | 3.56 | 4.17 | 4.17 | 3.97 | 3.77 | 3.56 | – | – | – | – |
| | MVS150 | 4.35 | 4.96 | 4.96 | 4.76 | 4.55 | 4.35 | – | – | – | – |
| | MVS170 | 5.13 | 5.75 | 5.75 | 5.54 | 5.34 | 5.13 | – | – | – | – |
| | MVS190 | 5.92 | 6.53 | 6.53 | 6.33 | 6.13 | 5.92 | – | – | – | – |
| | MVS210 | 6.73 | 7.34 | 7.34 | 7.13 | 6.93 | 6.73 | – | – | – | – |
| | MVS230 | 7.51 | 8.13 | 8.13 | 7.92 | 7.72 | 7.51 | – | – | – | – |
| 5V belt | MVS130 | – | – | – | – | – | – | – | – | – | – |
| | MVS150* | 4.31 | 5.74 | 5.74 | 5.54 | 5.33 | 5.13 | 4.93 | 4.72 | 4.52 | 4.31 |
| | MVS170* | 5.10 | 6.53 | 6.53 | 6.33 | 6.12 | 5.92 | 5.71 | 5.51 | 5.30 | 5.10 |
| | MVS190 | 5.88 | 7.32 | 7.32 | 7.11 | 6.91 | 6,7 | 6.50 | 6.29 | 6.09 | 5.88 |
| | MVS210 | 6.69 | 8.12 | 8.12 | 7.92 | 7.71 | 7.51 | 7.30 | 7.10 | 6.89 | 6.69 |
| | MVS230 | 7.48 | 8.91 | 8.91 | 8.70 | 8.50 | 8.29 | 8.09 | 7.89 | 7.68 | 7.48 |

* Important: Recommended for use with narrow cog belts only.
P.D. for "A" belt = Datum dia. "A" belt + .25
P.D. for "B" belt= Datum dia. "B" belt + .35
P.D. for "3V" belts = Datum dia. "3V" belts + .05
P.D. for "5V" belts = Datum dia. "5V" belts + .10

# Split taper sheaves

**Features:**

- Used with conventional A, B and 5V belts
- Available in 1 to 6 grooves
- B bushing used with the majority of B5V sheaves, bores 1/2 to 2-7/16
- Popular in HVAC, wood processing industry, bulk material handling and package material handling

Note: The type of sheave construction is indicated in the column entitled type. The number refers to the drawing and the letter as follows: A = Arms; B = Block; W = Web.

**Split taper sheave nomenclature:**

Example: 2B5V54

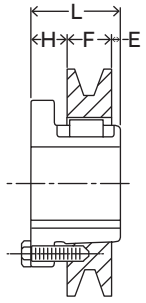
| | |
|---|---|
| 2B5V | 54 |
| 2: | Number of grooves |
| B5V: | Belt profile |
| 54: | Datum diameter for B belts (5.4”) |

# Split taper sheaves

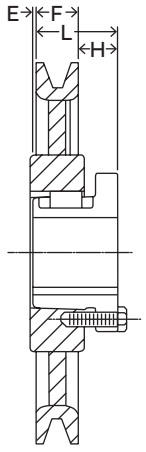


**1 groove**

| Part number | Description | OD | Diameter | | | H | Type | Bushing | L | E | F | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Datum A belts | Datum B belts | Pitch 5V belts | | | | | | | |
| 469000 | 1B34 | 3.75 | 3 | 3.4 | – | 1-1/16 | 2B | P1 | 1-15/16 | 1/8 | 1 | 2 |
| 469001 | 1B36 | 3.95 | 3.2 | 3.6 | – | 1-1/16 | 2B | P1 | 1-15/16 | 1/8 | 1 | 2.3 |
| 469002 | 1B38 | 4.15 | 3.4 | 3.8 | – | 1-1/16 | 2B | P1 | 1-15/16 | 1/8 | 1 | 2.6 |
| 469003 | 1B40 | 4.35 | 3.6 | 4 | – | 5/8 | 10B | P1 | 1-15/16 | 5/16 | 1 | 2.1 |
| 469004 | 1B5V42 | 4.48 | 3.8 | 4.2 | 4.5 | 5/8 | 1B | P1 | 1-15/16 | 5/16 | 1 | 2.5 |
| 469005 | 1B5V44 | 4.68 | 4 | 4.4 | 4.5 | 5/8 | 1B | P1 | 1-15/16 | 5/16 | 1 | 2.8 |
| 469006 | 1B5V46 | 4.88 | 4.2 | 4.6 | 4.7 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 2.5 |
| 469007 | 1B5V48 | 5.08 | 4.4 | 4.8 | 4.9 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 2.9 |
| 469008 | 1B5V50 | 5.28 | 4.6 | 5 | 5.1 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 3.3 |
| 469009 | 1B5V52 | 5.48 | 4.8 | 5.2 | 5.3 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 3.7 |
| 469010 | 1B5V54 | 5.68 | 5 | 5.4 | 5.5 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 4.1 |
| 469011 | 1B5V56 | 5.88 | 5.2 | 5.6 | 5.7 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 4.5 |
| 469012 | 1B5V58 | 6.08 | 5.4 | 5.8 | 5.9 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 5 |
| 469013 | 1B5V60 | 6.28 | 5.6 | 6 | 6.1 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 5.4 |
| 469014 | 1B5V62 | 6.48 | 5.8 | 6.2 | 6.3 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 5.3 |
| 469015 | 1B5V64 | 6.68 | 6 | 6.4 | 6.5 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 5.6 |
| 469016 | 1B5V66 | 6.88 | 6.2 | 6.6 | 6.7 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 6 |
| 469017 | 1B5V68 | 7.08 | 6.4 | 6.8 | 6.9 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 6.4 |
| 469018 | 1B5V70 | 7.28 | 6.6 | 7 | 7.1 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 6.8 |
| 469019 | 1B5V74 | 7.68 | 7 | 7.4 | 7.5 | 3/4 | 1B | B | 1-15/16 | 3/16 | 1 | 7.7 |
| 469020 | 1B5V80 | 8.28 | 7.6 | 8 | 8.1 | 7/8 | 1W | B | 1-15/16 | 3/16 | 1 | 7.5 |
| 469021 | 1B5V86 | 8.88 | 8.2 | 8.6 | 8.7 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 7.9 |
| 469022 | 1B5V90 | 9.28 | 8.6 | 9 | 9.1 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 8.2 |
| 469023 | 1B5V94 | 9.68 | 9 | 9.4 | 9.5 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 8.5 |
| 469024 | 1B5V110 | 11.28 | 10.6 | 11 | 11.1 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 10.3 |
| 469025 | 1B5V124 | 12.68 | 12 | 12.4 | 12.5 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 11.5 |
| 469026 | 1B5V136 | 13.88 | 13.2 | 13.6 | 13.7 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 13.3 |
| 469027 | 1B5V154 | 15.68 | 15 | 15.4 | 15.5 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 15.5 |
| 469028 | 1B5V160 | 16.28 | 15.6 | 16 | 16.1 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 16.6 |
| 469029 | 1B5V184 | 18.68 | 18 | 18.4 | 18.5 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 20 |
| 469030 | 1B5V200 | 20.28 | 19.5 | 20 | 20.1 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 21.8 |
| 469031 | 1B5V234 | 23.68 | 22.9 | 23.4 | 23.5 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 28.2 |
| 469032 | 1B5V250 | 25.28 | 24.5 | 25 | 25.1 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 31.4 |
| 469033 | 1B5V278 | 28.08 | 27.3 | 27.8 | 27.9 | 7/8 | 2A | B | 1-15/16 | 3/16 | 1 | 36.5 |
| 469034 | 1B5V300 | 30.35 | 29.67 | 30.07 | 30.17 | 1-1/8 | 2A | Q1 | 2-1/8 | 3/8 | 1 | 56 |




**Type 1**

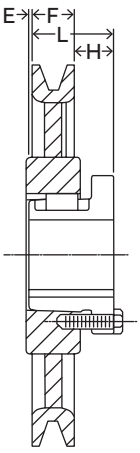



**Type 2**

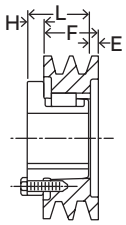
# Split taper sheaves

**2 grooves**

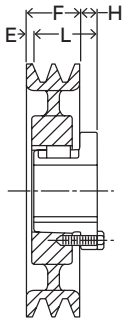
| Part number | Description | OD | Diameter | | | H | Type | Bushing | L | E | F | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Datum A belts | Datum B belts | Pitch 5V belts | | | | | | | |
| 469035 | 2B34 | 3.75 | 3 | 3.4 | – | 1-1/16 | 2B | P1 | 1-15/16 | 7/8 | 1-3/4 | 2.9 |
| 469036 | 2B36 | 3.95 | 3.2 | 3.6 | – | 1-1/16 | 2B | P1 | 1-15/16 | 7/8 | 1-3/4 | 3.8 |
| 469037 | 2B38 | 4.15 | 3.4 | 3.8 | – | 5/8 | 5B | P1 | 1-15/16 | 7/16 | 1-3/4 | 3 |
| 469038 | 2B40 | 4.35 | 3.6 | 4 | – | 5/8 | 5B | P1 | 1-15/16 | 7/16 | 1-3/4 | 3.8 |
| 469039 | 2B5V42 | 4.48 | 3.8 | 4.2 | 4.3 | 5/8 | 5B | P1 | 1-15/16 | 13/32 | 1-23/32 | 3.7 |
| 469040 | 2B5V44 | 4.68 | 4 | 4.4 | 4.5 | 7/32 | 3B | P1 | 1-15/16 | 0 | 1-23/32 | 4.1 |
| 469041 | 2B5V46 | 4.88 | 4.2 | 4.6 | 4.7 | 33/64 | 3B | B | 1-15/16 | 0 | 1-23/32 | 3.3 |
| 469042 | 2B5V48 | 5.08 | 4.4 | 4.8 | 4.9 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 3.9 |
| 469043 | 2B5V50 | 5.28 | 4.6 | 5 | 5.1 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 4.6 |
| 469044 | 2B5V52 | 5.48 | 4.8 | 5.2 | 5.3 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 5.3 |
| 469045 | 2B5V54 | 5.68 | 5 | 5.4 | 5.5 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 6 |
| 469046 | 2B5V56 | 5.88 | 5.2 | 5.6 | 5.7 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 6.7 |
| 469047 | 2B5V58 | 6.08 | 5.4 | 5.8 | 5.9 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 7.4 |
| 469048 | 2B5V60 | 6.28 | 5.6 | 6 | 6.1 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 8.2 |
| 469049 | 2B5V62 | 6.48 | 5.8 | 6.2 | 6.3 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 9.2 |
| 469050 | 2B5V64 | 6.68 | 6 | 6.4 | 6.5 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 8.4 |
| 469051 | 2B5V66 | 6.88 | 6.2 | 6.6 | 6.7 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 11.4 |
| 469052 | 2B5V68 | 7.08 | 6.4 | 6.8 | 6.9 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 10.2 |
| 469053 | 2B5V70 | 7.28 | 6.6 | 7 | 7.1 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 12.3 |
| 469054 | 2B5V74 | 7.68 | 7 | 7.4 | 7.5 | 33/64 | 3B | B | 1-15/16 | 11/64 | 1-23/32 | 14.2 |
| 469055 | 2B5V78 | 8.00 | 7.32 | 7.72 | 7.82 | 0.78 | 3B | Q1 | 2.5 | 0 | 1.72 | 12.8 |
| 469056 | 2B5V80 | 8.28 | 7.6 | 8 | 8.1 | 33/64 | 4W | B | 1-15/16 | 11/64 | 1-23/32 | 11.3 |
| 469057 | 2B5V83 | 8.5 | 7.82 | 8.22 | 8.32 | 0.76 | 3W | Q1 | 2.5 | 0.02 | 1.72 | 14.13 |
| 469058 | 2B5V86 | 8.88 | 8.2 | 8.6 | 8.7 | 33/64 | 4W | B | 1-15/16 | 11/64 | 1-23/32 | 10.6 |
| 469059 | 2B5V88 | 9 | 8.32 | 8.72 | 8.82 | 0.75 | 4W | Q1 | 2.5 | 0 | 1.72 | 15.27 |
| 469060 | 2B5V90 | 9.28 | 8.6 | 9 | 9.1 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 11.1 |
| 469061 | 2B5V94 | 9.68 | 9 | 9.4 | 9.5 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 11.6 |
| 469062 | 2B5V101 | 10.3 | 9.62 | 10.02 | 10.12 | 0.75 | 4W | Q1 | 2.5 | 0 | 1.72 | 18.53 |
| 469063 | 2B5V107 | 10.9 | 10.22 | 10.62 | 10.72 | 0.75 | 2A | Q1 | 2.5 | 0.016 | 1.72 | 19 |
| 469064 | 2B5V110 | 11.28 | 10.6 | 11 | 11.1 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 14.4 |
| 469065 | 2B5V116 | 11.8 | 11.12 | 11.52 | 11.62 | 0.75 | 2A | Q1 | 2.5 | 0.016 | 1.72 | 19.5 |
| 469066 | 2B5V124 | 12.68 | 12 | 12.4 | 12.5 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 17.1 |
| 469067 | 2B5V133 | 13.2 | 12.52 | 12.92 | 13.02 | 0.75 | 2A | Q1 | 2.5 | 0.016 | 1.72 | 21.3 |
| 469068 | 2B5V136 | 13.88 | 13.2 | 13.6 | 13.7 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 19.3 |
| 469069 | 2B5V138 | 14 | 13.32 | 13.72 | 13.82 | 1.016 | 2A | R1 | 2.875 | 0.141 | 1.72 | 23.8 |
| 469070 | 2B5V148 | 15 | 14.32 | 14.72 | 14.82 | 1.016 | 2W | R1 | 2.875 | 0.141 | 1.72 | 34.13 |
| 469071 | 2B5V154 | 15.68 | 15 | 15.4 | 15.5 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 23.2 |
| 469072 | 2B5V158 | 16 | 15.32 | 15.72 | 15.82 | 1.016 | 2A | R1 | 2.875 | 0.141 | 1.72 | 30.23 |
| 469073 | 2B5V160 | 16.28 | 15.6 | 16 | 16.1 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 24.2 |
| 469074 | 2B5V184 | 18.68 | 18 | 18.4 | 18.5 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 33.2 |
| 469075 | 2B5V200 | 20.28 | 19.5 | 20 | 20.1 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 34.8 |
| 469076 | 2B5V211 | 21.2 | 20.52 | 20.92 | 21.02 | 0.875 | 2A | R1 | 2.875 | 0.141 | 1.72 | 44.46 |
| 469077 | 2B5V234 | 23.68 | 22.9 | 23.4 | 23.5 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 37.9 |
| 469078 | 2B5V250 | 25.28 | 24.5 | 25 | 25.1 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 47 |
| 469079 | 2B5V278 | 28.08 | 27.3 | 27.8 | 27.9 | 33/64 | 4A | B | 1-15/16 | 11/64 | 1-23/32 | 55.9 |
| 469080 | 2B5V300 | 30.35 | 29.67 | 30.07 | 30.17 | 0.75 | 2A | Q1 | 2.5 | 0.016 | 1.72 | 75.1 |




**Type 2**




**Type 3**



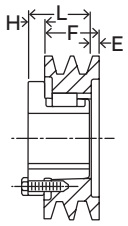

**Type 4**

# Split taper sheaves

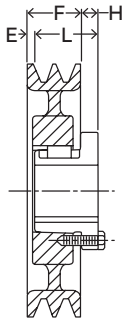


### 3 grooves

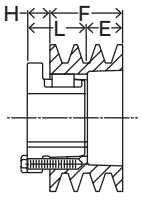
| Part number | Description | OD | Diameter | | | H | Type | Bushing | L | E | F | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Datum A belts | Datum B belts | Pitch 5V belts | | | | | | | |
| 469081 | 3B34 | 3.75 | 3 | 3.4 | – | 1.0625 | 3B | P2 | 2.9375 | 0.625 | 2.5 | 3.8 |
| 469082 | 3B36 | 3.95 | 3.2 | 3.6 | – | 1.0625 | 3B | P2 | 2.9375 | 0.625 | 2.5 | 4.4 |
| 469083 | 3B38 | 4.15 | 3.4 | 3.8 | – | 0.625 | 5B | P1 | 1.9375 | 1.1875 | 2.5 | 3.8 |
| 469084 | 3B40 | 4.35 | 3.6 | 4 | – | 0.625 | 5B | P1 | 1.9375 | 1.1875 | 2.5 | 4.5 |
| 469085 | 3B5V42 | 4.48 | 3.8 | 4.2 | 4.3 | 5/8 | 5B | P1 | 1-15/16 | 1-1/8 | 2-7/16 | 4.8 |
| 469086 | 3B5V44 | 4.68 | 4 | 4.4 | 4.5 | 1/32 | 5B | P1 | 1-15/16 | 17/32 | 2-7/16 | 5.2 |
| 469087 | 3B5V46 | 4.88 | 4.2 | 4.6 | 4.7 | 3/4 | 5B | B | 1-15/16 | 1-3/16 | 2-7/16 | 4.9 |
| 469088 | 3B5V48 | 5.08 | 4.4 | 4.8 | 4.9 | 3/4 | 5B | B | 1-15/16 | 1-3/16 | 2-7/16 | 5.5 |
| 469089 | 3B5V50 | 5.28 | 4.6 | 5 | 5.1 | 3/4 | 5B | B | 1-15/16 | 1-3/16 | 2-7/16 | 6.1 |
| 469090 | 3B5V52 | 5.48 | 4.8 | 5.2 | 5.3 | 3/4 | 5B | B | 1-15/16 | 1-3/16 | 2-7/16 | 6.7 |
| 469091 | 3B5V54 | 5.68 | 5 | 5.4 | 5.5 | 5/32 | 3B | B | 1-15/16 | 19/32 | 2-7/16 | 7.4 |
| 469092 | 3B5V56 | 5.88 | 5.2 | 5.6 | 5.7 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 8.4 |
| 469093 | 3B5V58 | 6.08 | 5.4 | 5.8 | 5.9 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 9.5 |
| 469094 | 3B5V60 | 6.28 | 5.6 | 6 | 6.1 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 10.6 |
| 469095 | 3B5V62 | 6.48 | 5.8 | 6.2 | 6.3 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 9.8 |
| 469096 | 3B5V64 | 6.68 | 6 | 6.4 | 6.5 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 10.5 |
| 469097 | 3B5V66 | 6.88 | 6.2 | 6.6 | 6.7 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 10.4 |
| 469098 | 3B5V68 | 7.08 | 6.4 | 6.8 | 6.9 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 10.9 |
| 469099 | 3B5V70 | 7.28 | 6.6 | 7 | 7.1 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 11.5 |
| 469100 | 3B5V74 | 7.68 | 7 | 7.4 | 7.5 | 5/32 | 3B | B | 1-15/16 | 17/32 | 2-7/16 | 12.6 |
| 469101 | 3B5V78 | 8 | 7.32 | 7.72 | 7.82 | 0.656 | 3B | R1 | 2.875 | 0.219 | 2.4375 | 14.4 |
| 469102 | 3B5V80 | 8.28 | 7.6 | 8 | 8.1 | 5/32 | 4W | B | 1-15/16 | 17/32 | 2-7/16 | 14.2 |
| 469103 | 3B5V83 | 8.5 | 7.82 | 8.22 | 8.32 | 0.435 | 3B | R1 | 2.875 | 0 | 2.4375 | 17 |
| 469104 | 3B5V86 | 8.88 | 8.2 | 8.6 | 8.7 | 5/32 | 4W | B | 1-15/16 | 17/32 | 2-7/16 | 13.7 |
| 469105 | 3B5V88 | 9 | 8.32 | 8.72 | 8.82 | 0.435 | 3B | R1 | 2.875 | 0 | 2.4375 | 19.8 |
| 469106 | 3B5V90 | 9.28 | 8.6 | 9 | 9.1 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 14.5 |
| 469107 | 3B5V94 | 9.68 | 9 | 9.4 | 9.5 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 17 |
| 469108 | 3B5V101 | 10.3 | 9.62 | 10.02 | 10.12 | 0.655 | 4W | R1 | 2.875 | 0.22 | 2.4375 | 22.67 |
| 469109 | 3B5V107 | 10.9 | 10.22 | 10.62 | 10.72 | 0.655 | 4W | R1 | 2.875 | 0.22 | 2.4375 | 24.49 |
| 469110 | 3B5V110 | 11.28 | 10.6 | 11 | 11.1 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 19.8 |
| 469111 | 3B5V116 | 11.8 | 11.12 | 11.52 | 11.62 | 0.655 | 4W | R1 | 2.875 | 0.22 | 2.4375 | 27.37 |
| 469112 | 3B5V124 | 12.68 | 12 | 12.4 | 12.5 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 22.1 |
| 469113 | 3B5V133 | 13.2 | 12.52 | 12.92 | 13.02 | 0.655 | 4A | R1 | 2.875 | 0.22 | 2.4375 | 28.4 |
| 469114 | 3B5V136 | 13.88 | 13.2 | 13.6 | 13.7 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 24.9 |
| 469115 | 3B5V138 | 14 | 13.32 | 13.72 | 13.82 | 0.655 | 4W | R1 | 2.875 | 0.22 | 2.4375 | 35.14 |
| 469116 | 3B5V148 | 15 | 14.32 | 14.72 | 14.82 | 0.655 | 4W | R1 | 2.875 | 0.22 | 2.4375 | 38.95 |
| 469117 | 3B5V154 | 15.68 | 15 | 15.4 | 15.5 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 30.4 |
| 469118 | 3B5V158 | 16 | 15.32 | 15.72 | 15.82 | 0.655 | 4A | R1 | 2.875 | 0.22 | 2.4375 | 37.84 |
| 469119 | 3B5V160 | 16.28 | 15.6 | 16 | 16.1 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 31.7 |
| 469120 | 3B5V184 | 18.68 | 18 | 18.4 | 18.5 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 40.9 |
| 469121 | 3B5V200 | 20.28 | 19.5 | 20 | 20.1 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 47.6 |
| 469122 | 3B5V211 | 21.2 | 20.52 | 20.92 | 21.02 | 0.655 | 4A | R1 | 2.875 | 0.22 | 2.4375 | 56.72 |
| 469123 | 3B5V234 | 23.68 | 22.9 | 23.4 | 23.5 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 61.5 |
| 469124 | 3B5V250 | 25.28 | 24.5 | 25 | 25.1 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 66.6 |
| 469125 | 3B5V278 | 28.08 | 27.3 | 27.8 | 27.9 | 5/32 | 4A | B | 1-15/16 | 17/32 | 2-7/16 | 79.1 |
| 469126 | 3B5V300 | 30.35 | 29.67 | 30.07 | 30.17 | 0.4 | 4A | Q1 | 2.5 | 0.35 | 2.4375 | 99.62 |




**Type 3**




**Type 4**

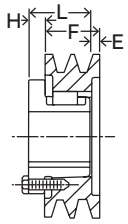



**Type 5**

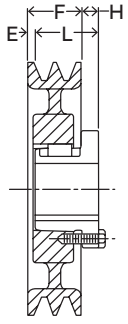
# Split taper sheaves

**4 grooves**

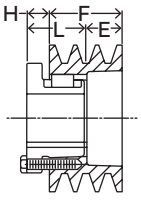
| Part number | Description | OD | Diameter | | | H | Type | Bushing | L | E | F | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Datum A belts | Datum B belts | Pitch 5V belts | | | | | | | |
| 469127 | 4B34 | 3.75 | 3 | 3.4 | – | 1.1875 | 3B | P2 | 2.9375 | 1.375 | 3.25 | 4.5 |
| 469128 | 4B36 | 3.95 | 3.2 | 3.6 | – | 1.1875 | 3B | P2 | 2.9375 | 1.375 | 3.25 | 5.3 |
| 469129 | 4B38 | 4.15 | 3.4 | 3.8 | – | 0.625 | 5B | P1 | 1.9375 | 1.9375 | 3.25 | 4.8 |
| 469130 | 4B40 | 4.35 | 3.6 | 4 | – | 0.625 | 5B | P1 | 1.9375 | 1.9375 | 3.25 | 5.5 |
| 469131 | 4B5V42 | 4.48 | 3.8 | 4.2 | 4.3 | 5/8 | 5B | P1 | 1-15/16 | – | 3-5/32 | 5.9 |
| 469132 | 4B5V44 | 4.68 | 4.0 | 4.4 | 4.5 | 3/64 | 5B | P1 | 1-15/16 | – | 3-5/32 | 6.3 |
| 469133 | 4B5V46 | 4.88 | 4.2 | 4.6 | 4.7 | 3/4 | 5B | B | 1-15/16 | – | 3-5/32 | 6.1 |
| 469134 | 4B5V48 | 5.08 | 4.4 | 4.8 | 4.9 | 3/4 | 5B | B | 1-15/16 | – | 3-5/32 | 6.7 |
| 469135 | 4B5V50 | 5.28 | 4.6 | 5.0 | 5.1 | 3/4 | 5B | B | 1-15/16 | – | 3-5/32 | 7.4 |
| 469136 | 4B5V52 | 5.48 | 4.8 | 5.2 | 5.3 | 3/4 | 5B | B | 1-15/16 | – | 3-5/32 | 8.0 |
| 469137 | 4B5V54 | 5.68 | 5.0 | 5.4 | 5.5 | – | 3B | B | 1-15/16 | 61/64 | 3-5/32 | 8.9 |
| 469138 | 4B5V56 | 5.88 | 5.2 | 5.6 | 5.7 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 9.5 |
| 469139 | 4B5V58 | 6.08 | 5.4 | 5.8 | 5.9 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 10.3 |
| 469140 | 4B5V60 | 6.28 | 5.6 | 6.0 | 6.1 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 11.0 |
| 469141 | 4B5V62 | 6.48 | 5.8 | 6.2 | 6.3 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 11.3 |
| 469142 | 4B5V64 | 6.68 | 6.0 | 6.4 | 6.5 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 12.1 |
| 469143 | 4B5V66 | 6.88 | 6.2 | 6.6 | 6.7 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 12.0 |
| 469144 | 4B5V68 | 7.08 | 6.4 | 6.8 | 6.9 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 12.6 |
| 469145 | 4B5V70 | 7.28 | 6.6 | 7.0 | 7.1 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 13.2 |
| 469146 | 4B5V74 | 7.68 | 7.0 | 7.4 | 7.5 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 14.5 |
| 469147 | 4B5V78 | 8 | 7.32 | 7.72 | 7.82 | -0.285 | 5B | R1 | 2.875 | 0 | 3.16 | 18.96 |
| 469148 | 4B5V80 | 8.28 | 7.6 | 8.0 | 8.1 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 15.2 |
| 469149 | 4B5V83 | 8.5 | 7.82 | 8.22 | 8.32 | -0.285 | 5B | R1 | 2.875 | 0 | 3.16 | 22.26 |
| 469150 | 4B5V86 | 8.88 | 8.2 | 8.6 | 8.7 | – | 3B | B | 1-15/16 | 57/64 | 3-5/32 | 16.6 |
| 469151 | 4B5V88 | 9 | 8.32 | 8.72 | 8.82 | -0.285 | 5B | R1 | 2.875 | 0 | 3.16 | 25.82 |
| 469152 | 4B5V90 | 9.28 | 8.6 | 9.0 | 9.1 | – | 4W | B | 1-15/16 | 57/64 | 3-5/32 | 17.6 |
| 469153 | 4B5V94 | 9.68 | 9.0 | 9.4 | 9.5 | – | 4W | B | 1-15/16 | 57/64 | 3-5/32 | 20.0 |
| 469154 | 4B5V101 | 10.3 | 9.62 | 10.02 | 10.12 | 0.295 | 4W | R1 | 2.875 | 0.58 | 3.16 | 26.19 |
| 469155 | 4B5V107 | 10.9 | 10.22 | 10.62 | 10.72 | 0.295 | 4W | R1 | 2.875 | 0.58 | 3.16 | 28.13 |
| 469156 | 4B5V110 | 11.28 | 10.6 | 11.0 | 11.1 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 22.8 |
| 469157 | 4B5V116 | 11.8 | 11.12 | 11.52 | 11.62 | 0.295 | 4W | R1 | 2.875 | 0.58 | 3.16 | 31.78 |
| 469158 | 4B5V124 | 12.68 | 12.0 | 12.4 | 12.5 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 26.5 |
| 469159 | 4B5V133 | 13.2 | 12.52 | 12.92 | 13.02 | 0.295 | 4W | R1 | 2.875 | 0.58 | 3.16 | 37.49 |
| 469160 | 4B5V136 | 13.88 | 13.2 | 13.6 | 13.7 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 30.7 |
| 469161 | 4B5V138 | 14 | 13.32 | 13.72 | 13.82 | 0.295 | 4W | R1 | 2.875 | 0.58 | 3.16 | 40.87 |
| 469162 | 4B5V148 | 15 | 14.32 | 14.72 | 14.82 | 0.295 | 4W | R1 | 2.875 | 0.58 | 3.16 | 45.53 |
| 469163 | 4B5V154 | 15.68 | 15.0 | 15.4 | 15.5 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 37.9 |
| 469164 | 4B5V158 | 16 | 15.32 | 15.72 | 15.82 | 0.295 | 4A | R1 | 2.875 | 0.58 | 3.16 | 45.18 |
| 469165 | 4B5V160 | 16.28 | 15.6 | 16.0 | 16.1 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 40.5 |
| 469166 | 4B5V184 | 18.68 | 18.0 | 18.4 | 18.5 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 50.7 |
| 469167 | 4B5V200 | 20.28 | 19.5 | 20.0 | 20.1 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 58.5 |
| 469168 | 4B5V211 | 21.2 | 20.52 | 20.92 | 21.02 | 0.295 | 4A | R1 | 2.875 | 0.58 | 3.16 | 68.64 |
| 469169 | 4B5V234 | 23.68 | 23 | 23.4 | 23.5 | -0.268 | 4A | B | 1.938 | 0.954 | 3.16 | 73.4 |
| 469170 | 4B5V250 | 25.28 | 24.5 | 25.0 | 25.1 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 83.8 |
| 469171 | 4B5V278 | 28.08 | 27.3 | 27.8 | 27.9 | – | 4A | B | 1-15/16 | 57/64 | 3-5/32 | 94.3 |
| 469172 | 4B5V300 | 30.35 | 29.67 | 30.07 | 30.17 | 0.04 | 4A | Q1 | 2.5 | 0.7 | 3.16 | 121.74 |




**Type 3**




**Type 4**



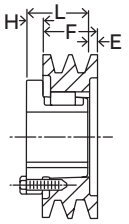

**Type 5**

# Split taper sheaves

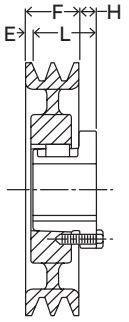


**5 grooves**

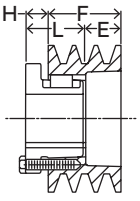
| Part number | Description | OD | Diameter | | | H | Type | Bushing | L | E | F | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Datum A belts | Datum B belts | Pitch 5V belts | | | | | | | |
| 469173 | 5B34 | 3.75 | 3 | 3.4 | – | 1.0625 | 3B | P2 | 2.938 | 2.125 | 4 | 5.3 |
| 469174 | 5B36 | 3.95 | 3.2 | 3.6 | – | 1.0625 | 3B | P2 | 2.938 | 2.125 | 4 | 6.1 |
| 469175 | 5B38 | 4.15 | 3.4 | 3.8 | – | 0.625 | 3B | P2 | 2.938 | 1.6875 | 4 | 6.1 |
| 469176 | 5B40 | 4.35 | 3.6 | 4 | – | 0.625 | 5B | P2 | 2.938 | 1.688 | 4 | 7 |
| 469177 | 5B5V42 | 4.48 | 3.8 | 4.2 | 4.3 | 0.625 | 5B | P2 | 2.938 | 1.562 | 3.875 | 7.5 |
| 469178 | 5B5V44 | 4.68 | 4 | 4.4 | 4.5 | 0.046875 | 5B | P2 | 2.938 | 0.983875 | 3.875 | 8.3 |
| 469179 | 5B5V46 | 4.88 | 4.2 | 4.6 | 4.7 | 0.75 | 5B | P2 | 2.938 | 1.687 | 3.875 | 9.2 |
| 469180 | 5B5V48 | 5.08 | 4.4 | 4.8 | 4.9 | 0.75 | 5B | P2 | 2.938 | 1.687 | 3.875 | 10.2 |
| 469181 | 5B5V50 | 5.28 | 4.6 | 5 | 5.1 | 0.75 | 5B | Q1 | 2.5 | 2.125 | 3.875 | 8.7 |
| 469182 | 5B5V52 | 5.48 | 4.8 | 5.2 | 5.3 | 0.75 | 5B | Q1 | 2.5 | 2.125 | 3.875 | 9.5 |
| 469183 | 5B5V54 | 5.68 | 5 | 5.4 | 5.5 | 0.75 | 5B | Q1 | 2.5 | 2.125 | 3.875 | 10.4 |
| 469184 | 5B5V56 | 5.88 | 5.2 | 5.6 | 5.7 | 0.75 | 5B | Q1 | 2.5 | 2.125 | 3.875 | 11.3 |
| 469185 | 5B5V58 | 6.08 | 5.4 | 5.8 | 5.9 | 0.75 | 5B | Q1 | 2.5 | 2.125 | 3.875 | 12.3 |
| 469186 | 5B5V60 | 6.28 | 5.6 | 6 | 6.1 | 0.125 | 3B | Q1 | 2.5 | 1.5 | 3.875 | 13.3 |
| 469187 | 5B5V62 | 6.48 | 5.8 | 6.2 | 6.3 | 0.125 | 3B | Q1 | 2.5 | 1.5 | 3.875 | 14.3 |
| 469188 | 5B5V64 | 6.68 | 6 | 6.4 | 6.5 | 0.125 | 3B | Q1 | 2.5 | 1.5 | 3.875 | 15.3 |
| 469189 | 5B5V66 | 6.88 | 6.2 | 6.6 | 6.7 | 0.125 | 3B | Q1 | 2.5 | 1.5 | 3.875 | 16.4 |
| 469190 | 5B5V68 | 7.08 | 6.4 | 6.8 | 6.9 | 0.125 | 3B | Q1 | 2.5 | 1.5 | 3.875 | 17.5 |
| 469191 | 5B5V70 | 7.28 | 6.6 | 7 | 7.1 | 0.093 | 3B | Q2 | 3.5 | 0.468 | 3.875 | 22.8 |
| 469192 | 5B5V74 | 7.68 | 7 | 7.4 | 7.5 | 0.093 | 3B | Q2 | 3.5 | 0.468 | 3.875 | 26 |
| 469193 | 5B5V78 | 8 | 7.32 | 7.72 | 7.82 | -0.063 | 3B | R1 | 2.875 | 0.938 | 3.875 | 21.2 |
| 469194 | 5B5V80 | 8.28 | 7.6 | 8 | 8.1 | 0 | 3B | R1 | 2.875 | 1 | 3.875 | 23.1 |
| 469195 | 5B5V83 | 8.5 | 7.82 | 8.22 | 8.32 | 0 | 3B | R1 | 2.875 | 1 | 3.875 | 24.76 |
| 469196 | 5B5V86 | 8.88 | 8.2 | 8.6 | 8.7 | 0 | 3B | R1 | 2.875 | 1 | 3.875 | 27.5 |
| 469197 | 5B5V88 | 9 | 8.32 | 8.72 | 8.82 | -0.0625 | 3B | R1 | 2.875 | 0.9375 | 3.875 | 28.4 |
| 469198 | 5B5V90 | 9.28 | 8.6 | 9 | 9.1 | 0 | 3B | R1 | 2.875 | 1 | 3.875 | 30.6 |
| 469199 | 5B5V94 | 9.68 | 9 | 9.4 | 9.5 | 0 | 3B | R1 | 2.875 | 1 | 3.875 | 27.5 |
| 469200 | 5B5V101 | 10.3 | 9.62 | 10.02 | 10.12 | -0.0625 | 4W | R1 | 2.875 | 0.9375 | 3.875 | 30.1 |
| 469201 | 5B5V107 | 10.9 | 10.22 | 10.62 | 10.72 | -0.0625 | 4W | R1 | 2.875 | 0.9375 | 3.875 | 32.7 |
| 469202 | 5B5V110 | 11.28 | 10.6 | 11 | 11.1 | -0.0625 | 4W | R1 | 2.875 | 0.9375 | 3.875 | 34.4 |
| 469203 | 5B5V116 | 11.8 | 11.12 | 11.52 | 11.62 | -0.0625 | 4W | R1 | 2.875 | 0.9375 | 3.875 | 36.8 |
| 469204 | 5B5V124 | 12.68 | 12 | 12.4 | 12.5 | -0.0625 | 4W | R1 | 2.875 | 0.9375 | 3.875 | 41.1 |
| 469205 | 5B5V133 | 13.2 | 12.52 | 12.92 | 13.02 | -0.06 | 4A | R1 | 2.875 | 0.9375 | 3.875 | 39.67 |
| 469206 | 5B5V136 | 13.88 | 13.2 | 13.6 | 13.7 | -0.06 | 4W | R1 | 2.875 | 0.9375 | 3.875 | 47.33 |
| 469207 | 5B5V138 | 14 | 13.32 | 13.72 | 13.82 | -0.06 | 4W | R1 | 2.875 | 0.9375 | 3.875 | 48.13 |
| 469208 | 5B5V148 | 15 | 14.32 | 14.72 | 14.82 | -0.06 | 4W | R1 | 2.875 | 0.9375 | 3.875 | 53.5 |
| 469209 | 5B5V154 | 15.68 | 15 | 15.4 | 15.5 | -0.06 | 4A | R1 | 2.875 | 0.9375 | 3.875 | 50.97 |
| 469210 | 5B5V158 | 16 | 15.32 | 15.72 | 15.82 | -0.06 | 4A | R1 | 2.875 | 0.9375 | 3.875 | 52.42 |
| 469211 | 5B5V160 | 16.28 | 15.6 | 16 | 16.1 | -0.06 | 4A | R1 | 2.875 | 0.9375 | 3.875 | 53.8 |
| 469212 | 5B5V184 | 18.68 | 18 | 18.4 | 18.5 | -0.06 | 4A | R1 | 2.875 | 0.9375 | 3.875 | 66.21 |
| 469213 | 5B5V200 | 20.28 | 19.6 | 20 | 20.1 | -0.063 | 4A | R1 | 2.875 | 0.9375 | 3.875 | 70.1 |
| 469214 | 5B5V211 | 21.2 | 20.52 | 20.92 | 21.02 | 0.78 | 4A | S1 | 4.375 | 0.285 | 3.875 | 95.31 |
| 469215 | 5B5V250 | 25.28 | 24.6 | 25 | 25.1 | -0.063 | 4A | R1 | 2.875 | 0.9375 | 3.875 | 97.7 |
| 469216 | 5B5V278 | 28 | 27.32 | 27.72 | 27.82 | 0.78 | 4A | S1 | 4.375 | 0.285 | 3.875 | 137.09 |
| 469217 | 5B5V300 | 30.35 | 29.67 | 30.07 | 30.17 | -0.06 | 4A | R1 | 2.875 | 0.9375 | 3.875 | 141.16 |




**Type 3**




**Type 4**

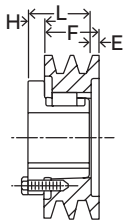



**Type 5**

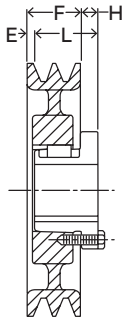
# Split taper sheaves

### 6 grooves

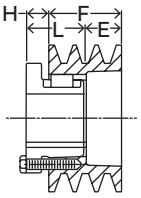
| Part number | Description | OD | Diameter | | | H | Type | Bushing | L | E | F | Weight (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Datum A belts | Datum B belts | Pitch 5V belts | | | | | | | |
| 469218 | 6B34 | 3.75 | 3 | 3.4 | – | 0.625 | 3B | P2 | 2.938 | 2.938 | 4.75 | 6.1 |
| 469219 | 6B36 | 3.95 | 3.2 | 3.6 | – | 0.625 | 3B | P2 | 2.938 | 2.938 | 4.75 | 7.3 |
| 469220 | 6B38 | 4.15 | 3.4 | 3.8 | – | 0.625 | 5B | P2 | 2.938 | 2.938 | 4.75 | 7 |
| 469221 | 6B40 | 4.35 | 3.6 | 4 | – | 0.625 | 5B | P2 | 2.938 | 2.438 | 4.75 | 8.1 |
| 469222 | 6B5V42 | 4.48 | 3.8 | 4.2 | 4.3 | 0.625 | 5B | P2 | 2.938 | 2.282 | 4.594 | 8.5 |
| 469223 | 6B5V44 | 4.68 | 4 | 4.4 | 4.5 | 0.625 | 5B | P2 | 2.938 | 2.282 | 4.594 | 9.5 |
| 469224 | 6B5V46 | 4.88 | 4.2 | 4.6 | 4.7 | 0.625 | 5B | P2 | 2.938 | 2.282 | 4.594 | 10.4 |
| 469225 | 6B5V48 | 5.08 | 4.4 | 4.8 | 4.9 | 0.625 | 5B | P2 | 2.938 | 2.282 | 4.594 | 11.4 |
| 469226 | 6B5V50 | 5.28 | 4.6 | 5 | 5.1 | 0.75 | 5B | Q2 | 3.5 | 1.844 | 4.594 | 10.7 |
| 469227 | 6B5V52 | 5.48 | 4.8 | 5.2 | 5.3 | 0.75 | 5B | Q2 | 3.5 | 1.844 | 4.594 | 11.9 |
| 469228 | 6B5V54 | 5.68 | 5 | 5.4 | 5.5 | 0.75 | 5B | Q2 | 3.5 | 1.844 | 4.594 | 13.2 |
| 469229 | 6B5V56 | 5.88 | 5.2 | 5.6 | 5.7 | 0.75 | 5B | Q2 | 3.5 | 1.844 | 4.594 | 30.2 |
| 469230 | 6B5V58 | 6.08 | 5.4 | 5.8 | 5.9 | 0 | 3B | Q1 | 2.5 | 2.094 | 4.594 | 13.9 |
| 469231 | 6B5V60 | 6.28 | 5.6 | 6 | 6.1 | 0 | 3B | Q1 | 2.5 | 2.094 | 4.594 | 30.5 |
| 469232 | 6B5V62 | 6.48 | 5.8 | 6.2 | 6.3 | 0 | 3B | Q1 | 2.5 | 2.094 | 4.594 | 16 |
| 469233 | 6B5V64 | 6.68 | 6 | 6.4 | 6.5 | 0 | 3B | Q1 | 2.5 | 2.094 | 4.594 | 17.1 |
| 469234 | 6B5V66 | 6.88 | 6.2 | 6.6 | 6.7 | 0 | 3B | Q1 | 2.5 | 2.094 | 4.594 | 18.3 |
| 469235 | 6B5V68 | 7.08 | 6.4 | 6.8 | 6.9 | 0 | 3B | Q1 | 2.5 | 2.094 | 4.594 | 20.4 |
| 469236 | 6B5V70 | 7.28 | 6.6 | 7 | 7.1 | -0.266 | 3B | Q2 | 3.5 | 0.828 | 4.594 | 25.5 |
| 469237 | 6B5V74 | 7.68 | 7 | 7.4 | 7.5 | -1.1 | B | Q2 | 3.5 | 0 | 4.6 | 31.2 |
| 469238 | 6B5V78 | 8 | 7.32 | 7.72 | 7.82 | -0.36 | 3B | R1 | 2.875 | 1.359 | 4.594 | 23.5 |
| 469239 | 6B5V80 | 8.28 | 7.6 | 8 | 8.1 | -0.36 | 3B | R1 | 2.875 | 1.359 | 4.594 | 26.4 |
| 469240 | 6B5V83 | 8.5 | 7.82 | 8.22 | 8.32 | -0.365 | 3B | R1 | 2.875 | 1.36 | 4.6 | 27.2 |
| 469241 | 6B5V86 | 8.88 | 8.2 | 8.6 | 8.7 | -0.36 | 3B | R1 | 2.875 | 1.359 | 4.594 | 30.6 |
| 469242 | 6B5V88 | 9 | 8.32 | 8.72 | 8.82 | -0.422 | 3B | R1 | 2.875 | 1.297 | 4.594 | 31.5 |
| 469243 | 6B5V90 | 9.28 | 8.6 | 9 | 9.1 | -0.36 | 3B | R1 | 2.875 | 1.359 | 4.594 | 34 |
| 469244 | 6B5V94 | 9.68 | 9 | 9.4 | 9.5 | -0.36 | 3B | R1 | 2.875 | 1.359 | 4.594 | 36.7 |
| 469245 | 6B5V101 | 10.3 | 9.62 | 10.02 | 10.12 | -0.422 | 4W | R1 | 2.875 | 1.297 | 4.594 | 34.7 |
| 397037 | 6B5V107 | 10.9 | 10.22 | 10.62 | 10.72 | -0.425 | 4W | R1 | 2.875 | 1.3 | 4.6 | 37.2 |
| 469247 | 6B5V110 | 11.28 | 10.6 | 11 | 11.1 | -0.423 | 4W | R1 | 2.875 | 1.298 | 4.594 | 39.2 |
| 469248 | 6B5V116 | 11.8 | 11.12 | 11.52 | 11.62 | -0.425 | 4W | R1 | 2.875 | 1.3 | 4.6 | 42.1 |
| 469249 | 6B5V124 | 12.68 | 12 | 12.4 | 12.5 | -0.423 | 4W | R1 | 2.875 | 1.298 | 4.594 | 50.5 |
| 469250 | 6B5V133 | 13.2 | 12.52 | 12.92 | 13.02 | 0.415 | 4W | S1 | 4.375 | 0.64 | 4.6 | 66.2 |
| 469251 | 6B5V136 | 13.88 | 13.2 | 13.6 | 13.7 | -0.425 | 4W | R1 | 2.875 | 1.3 | 4.6 | 54.6 |
| 469252 | 6B5V138 | 14 | 13.32 | 13.72 | 13.82 | 0.415 | 4W | S1 | 4.375 | 0.64 | 4.6 | 71.2 |
| 469253 | 6B5V148 | 15 | 14.32 | 14.72 | 14.82 | 0.415 | 4W | S1 | 4.375 | 0.64 | 4.6 | 77.8 |
| 469254 | 6B5V154 | 15.68 | 15 | 15.4 | 15.5 | -0.425 | 4A | R1 | 2.875 | 1.3 | 4.6 | 54.6 |
| 469255 | 6B5V158 | 16 | 15.32 | 15.72 | 15.82 | 0.415 | 4A | S1 | 4.375 | 0.64 | 4.6 | 73.5 |
| 469256 | 6B5V160 | 16.28 | 15.6 | 16 | 16.1 | -0.425 | 4A | R1 | 2.875 | 1.3 | 4.6 | 57.6 |
| 469257 | 6B5V184 | 18.68 | 18 | 18.4 | 18.5 | -0.425 | 4A | R1 | 2.875 | 1.3 | 4.6 | 70.5 |
| 469258 | 6B5V200 | 20.28 | 19.6 | 20 | 20.1 | -0.425 | 4A | R1 | 2.875 | 1.3 | 4.6 | 79.5 |
| 469259 | 6B5V211 | 21.2 | 20.52 | 20.92 | 21.02 | 0.415 | 4A | S1 | 4.375 | 0.64 | 4.6 | 101.2 |
| 469260 | 6B5V250 | 25.28 | 24.6 | 25 | 25.1 | -0.422 | 4A | R1 | 2.875 | 1.297 | 4.594 | 118.8 |
| 397038 | 6B5V278 | 28 | 27.32 | 27.72 | 27.82 | 0.415 | 4A | S1 | 4.375 | 0.64 | 0.46 | 144.9 |
| 469262 | 6B5V300 | 30.35 | 29.67 | 30.07 | 30.17 | -0.425 | 4A | R1 | 2.875 | 1.3 | 0.46 | 148 |




**Type 3**




**Type 4**




**Type 5**

# Split taper sheaves

## Interchange guide



**1 groove**

| Datum A belts | Datum B belts | Pitch 5V belts | OD | Dodge ST sheaves | | | Competitor B5V sheaves | | Competitor TB sheaves | | Competitor 5V sheaves | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Part number | Description | Bushing | Part number | Bushing | Part number | Bushing | Part number | Bushing |
| 3" | 3.4" | – | 3.75" | 469000 | 1B34 | P1 | – | – | 1TB34 | P1 | – | – |
| 3.2 | 3.6 | – | 3.95 | 469001 | 1B36 | P1 | – | – | 1TB36 | P1 | – | – |
| 3.4 | 3.8 | – | 4.15 | 469002 | 1B38 | P1 | – | – | 1TB38 | P1 | – | – |
| 3.6 | 4 | – | 4.35 | 469003 | 1B40 | P1 | – | – | 1TB40 | P1 | – | – |
| 3.8 | 4.2 | 4.3 | 4.48 | 469004 | 1B5V42 | P1 | 1B5V42 | P1 | 1TB42 | P1 | – | – |
| 4 | 4.4 | 4.5 | 4.68 | 469005 | 1B5V44 | P1 | 1B5V44 | P1 | 1TB44 | P1 | – | – |
| 4.2 | 4.6 | 4.7 | 4.88 | 469006 | 1B5V46 | B | 1B5V46 | B | 1TB46 | P1 | – | – |
| 4.4 | 4.8 | 4.9 | 5.08 | 469007 | 1B5V48 | B | 1B5V48 | B | 1TB48 | P1 | – | – |
| 4.6 | 5 | 5.1 | 5.28 | 469008 | 1B5V50 | B | 1B5V50 | B | 1TB50 | P1 | – | – |
| 4.8 | 5.2 | 5.3 | 5.48 | 469009 | 1B5V52 | B | 1B5V52 | B | 1TB52 | P1 | – | – |
| 5 | 5.4 | 5.5 | 5.68 | 469010 | 1B5V54 | B | 1B5V54 | B | 1TB54 | P1 | – | – |
| 5.2 | 5.6 | 5.7 | 5.88 | 469011 | 1B5V56 | B | 1B5V56 | B | 1TB56 | P1 | – | – |
| 5.4 | 5.8 | 5.9 | 6.08 | 469012 | 1B5V58 | B | 1B5V58 | B | 1TB58 | P1 | – | – |
| 5.6 | 6 | 6.1 | 6.28 | 469013 | 1B5V60 | B | 1B5V60 | B | 1TB60 | P1 | – | – |
| 5.8 | 6.2 | 6.3 | 6.48 | 469014 | 1B5V62 | B | 1B5V62 | B | 1TB62 | P1 | – | – |
| 6 | 6.4 | 6.5 | 6.68 | 469015 | 1B5V64 | B | 1B5V64 | B | 1TB64 | P1 | – | – |
| 6.2 | 6.6 | 6.7 | 6.88 | 469016 | 1B5V66 | B | 1B5V66 | B | 1TB66 | P1 | – | – |
| 6.4 | 6.8 | 6.9 | 7.08 | 469017 | 1B5V68 | B | 1B5V68 | B | 1TB68 | P1 | – | – |
| 6.6 | 7 | 7.1 | 7.28 | 469018 | 1B5V70 | B | 1B5V70 | B | 1TB70 | P1 | – | – |
| 7 | 7.4 | 7.5 | 7.68 | 469019 | 1B5V74 | B | 1B5V74 | B | 1TB74 | P1 | – | – |
| 7.6 | 8 | 8.1 | 8.28 | 469020 | 1B5V80 | B | 1B5V80 | B | 1TB80 | P1 | – | – |
| 8.2 | 8.6 | 8.7 | 8.88 | 469021 | 1B5V86 | B | 1B5V86 | B | 1TB86 | P1 | – | – |
| 8.6 | 9 | 9.1 | 9.28 | 469022 | 1B5V90 | B | 1B5V90 | B | 1TB90 | P1 | – | – |
| 9 | 9.4 | 9.5 | 9.68 | 469023 | 1B5V94 | B | 1B5V94 | B | 1TB94 | P1 | – | – |
| 10.6 | 11 | 11.1 | 11.28 | 469024 | 1B5V110 | B | 1B5V110 | B | 1TB110 | P1 | – | – |
| 12 | 12.4 | 12.5 | 12.68 | 469025 | 1B5V124 | B | 1B5V124 | B | 1TB124 | Q1 | – | – |
| 13.2 | 13.6 | 13.7 | 13.88 | 469026 | 1B5V136 | B | 1B5V136 | B | 1TB136 | Q1 | – | – |
| 15 | 15.4 | 15.5 | 15.68 | 469027 | 1B5V154 | B | 1B5V154 | B | 1TB154 | Q1 | – | – |
| 15.6 | 16 | 16.1 | 16.28 | 469028 | 1B5V160 | B | 1B5V160 | B | 1TB160 | Q1 | – | – |
| 18 | 18.4 | 18.5 | 18.68 | 469029 | 1B5V184 | B | 1B5V184 | B | 1TB184 | Q1 | – | – |
| 19.5 | 20 | 20.1 | 20.28 | 469030 | 1B5V200 | B | 1B5V200 | B | 1TB200 | Q1 | – | – |
| 22.9 | 23.4 | 23.5 | 23.68 | 469031 | 1B5V234 | B | 1B5V234 | B | – | – | – | – |
| 24.5 | 25 | 25.1 | 25.28 | 469032 | 1B5V250 | B | 1B5V250 | B | 1TB250 | Q1 | – | – |
| 27.3 | 27.8 | 27.9 | 28.08 | 469033 | 1B5V278 | B | 1B5V278 | B | – | – | – | – |
| 29.5 | 30 | 30.1 | 30.35 | 469034 | 1B5V300 | Q1 | – | – | 1TB300 | Q1 | – | – |

# Split taper sheaves

## Interchange guide

**2 grooves**

| Datum A belts | Datum B belts | Pitch 5V belts | OD | Dodge ST sheaves | | | Competitor B5V sheaves | | Competitor TB sheaves | | Competitor 5V sheaves | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Part number | Description | Bushing | Part number | Bushing | Part number | Bushing | Part number | Bushing |
| 3" | 3.4" | – | 3.75" | 469035 | 2B34 | P1 | – | – | 2TB34 | P1 | – | – |
| 3.2 | 3.6 | – | 3.95 | 469036 | 2B36 | P1 | – | – | 2TB36 | P1 | – | – |
| 3.4 | 3.8 | – | 4.15 | 469037 | 2B38 | P1 | – | – | 2TB38 | P1 | – | – |
| 3.6 | 4 | – | 4.35 | 469038 | 2B40 | P1 | – | – | 2TB40 | P1 | – | – |
| 3.8 | 4.2 | 4.3 | 4.48 | 469039 | 2B5V42 | P1 | 2B5V42 | P1 | 2TB42 | P1 | 2P5V44 | P1 |
| 4 | 4.4 | 4.5 | 4.68 | 469040 | 2B5V44 | P1 | 2B5V44 | P1 | 2TB44 | P1 | 2Q5V46 | Q1 |
| 4.2 | 4.6 | 4.7 | 4.88 | 469041 | 2B5V46 | B | 2B5V46 | B | 2TB46 | P1 | 2Q5V49 | Q1 |
| 4.4 | 4.8 | 4.9 | 5.08 | 469042 | 2B5V48 | B | 2B5V48 | B | 2TB48 | P1 | – | – |
| 4.6 | 5 | 5.1 | 5.28 | 469043 | 2B5V50 | B | 2B5V50 | B | 2TB50 | P1 | 2Q5V52 | Q1 |
| 4.8 | 5.2 | 5.3 | 5.48 | 469044 | 2B5V52 | B | 2B5V52 | B | 2TB52 | P1 | 2Q5V55 | Q1 |
| 5 | 5.4 | 5.5 | 5.68 | 469045 | 2B5V54 | B | 2B5V54 | B | 2TB54 | P1 | – | – |
| 5.2 | 5.6 | 5.7 | 5.88 | 469046 | 2B5V56 | B | 2B5V56 | B | 2TB56 | P1 | 2Q5V59 | Q1 |
| 5.4 | 5.8 | 5.9 | 6.08 | 469047 | 2B5V58 | B | 2B5V58 | B | 2TB58 | P1 | – | – |
| 5.6 | 6 | 6.1 | 6.28 | 469048 | 2B5V60 | B | 2B5V60 | B | 2TB60 | P1 | 2Q5V63 | Q1 |
| 5.8 | 6.2 | 6.3 | 6.48 | 469049 | 2B5V62 | B | 2B5V62 | B | 2TB62 | P1 | – | – |
| 6 | 6.4 | 6.5 | 6.68 | 469050 | 2B5V64 | B | 2B5V64 | B | 2TB64 | P1 | – | – |
| 6.2 | 6.6 | 6.7 | 6.88 | 469051 | 2B5V66 | B | 2B5V66 | B | 2TB66 | P1 | 2Q5V67 | Q1 |
| 6.4 | 6.8 | 6.9 | 7.08 | 469052 | 2B5V68 | B | 2B5V68 | B | 2TB68 | P1 | 2Q5V71 | Q1 |
| 6.6 | 7 | 7.1 | 7.28 | 469053 | 2B5V70 | B | 2B5V70 | B | 2TB70 | Q1 | – | – |
| 7 | 7.4 | 7.5 | 7.68 | 469054 | 2B5V74 | B | 2B5V74 | B | 2TB74 | Q1 | 2Q5V75 | Q1 |
| 7.4 | 7.8 | 7.9 | 8 | 469055 | 2B5V78 | Q1 | – | – | – | – | 2Q5V80 | Q1 |
| 7.6 | 8 | 8.1 | 8.28 | 469056 | 2B5V80 | B | 2B5V80 | B | 2TB80 | Q1 | – | – |
| 7.9 | 8.3 | 8.4 | 8.5 | 469057 | 2B5V83 | Q1 | - | - | - | - | 2Q5V85 | Q1 |
| 8.2 | 8.6 | 8.7 | 8.88 | 469058 | 2B5V86 | B | 2B5V86 | B | 2TB86 | Q1 | - | - |
| 8.4 | 8.8 | 8.9 | 9 | 469059 | 2B5V88 | Q1 | – | – | – | – | 2Q5V90 | Q1 |
| 8.6 | 9 | 9.1 | 9.28 | 469060 | 2B5V90 | B | 2B5V90 | B | 2TB90 | Q1 | 2Q5V92 | Q1 |
| 9 | 9.4 | 9.5 | 9.68 | 469061 | 2B5V94 | B | 2B5V94 | B | 2TB94 | Q1 | 2Q5V97 | Q1 |
| 9.7 | 10.1 | 10.2 | 10.3 | 469062 | 2B5V101 | Q1 | – | – | – | – | 2Q5V103 | Q1 |
| 10.3 | 10.7 | 10.8 | 10.9 | 469063 | 2B5V107 | Q1 | – | – | – | – | 2Q5V109 | Q1 |
| 10.6 | 11 | 11.1 | 11.28 | 469064 | 2B5V110 | B | 2B5V110 | B | 2TB110 | Q1 | – | – |
| 11.2 | 11.6 | 11.7 | 11.8 | 469065 | 2B5V116 | Q1 | – | – | – | – | 2Q5V118 | Q1 |
| 12 | 12.4 | 12.5 | 12.68 | 469066 | 2B5V124 | B | 2B5V124 | B | 2TB124 | Q1 | 2Q5V125 | Q1 |
| 12.6 | 13 | 13.1 | 13.2 | 469067 | 2B5V133 | Q1 | – | – | – | – | 2Q5V132 | Q1 |
| 13.2 | 13.6 | 13.7 | 13.88 | 469068 | 2B5V136 | B | 2B5V136 | B | 2TB136 | Q1 | – | – |
| 13.4 | 13.8 | 13.9 | 14 | 469069 | 2B5V138 | R1 | – | – | – | – | 2R5V140 | R1 |
| 14.4 | 14.8 | 14.9 | 15 | 469070 | 2B5V148 | R1 | – | – | – | – | 2R5V150 | R1 |
| 15 | 15.4 | 15.5 | 15.68 | 469071 | 2B5V154 | B | 2B5V154 | B | 2TB154 | Q1 | – | – |
| 15.4 | 15.8 | 15.9 | 16 | 469072 | 2B5V158 | R1 | – | – | – | – | 2R5V160 | R1 |
| 15.6 | 16 | 16.1 | 16.28 | 469073 | 2B5V160 | B | 2B5V160 | B | 2TB160 | Q1 | – | – |
| 18 | 18.4 | 18.5 | 18.68 | 469074 | 2B5V184 | B | 2B5V184 | B | 2TB184 | Q1 | – | – |
| 19.5 | 20 | 20.1 | 20.28 | 469075 | 2B5V200 | B | 2B5V200 | B | 2TB200 | Q1 | – | – |
| 20.6 | 21 | 21.1 | 21.2 | 469076 | 2B5V211 | R1 | – | – | – | – | 2R5V212 | R1 |
| 22.9 | 23.4 | 23.5 | 23.68 | 469077 | 2B5V234 | B | 2B5V234 | B | – | – | – | – |
| 24.5 | 25 | 25.1 | 25.28 | 469078 | 2B5V250 | B | 2B5V250 | B | 2TB250 | Q1 | – | – |
| 27.3 | 27.8 | 27.9 | 28.08 | 469079 | 2B5V278 | B | 2B5V278 | B | – | – | 2R5V280 | R1 |
| 29.5 | 30 | 30.1 | 30.35 | 469080 | 2B5V300 | Q1 | – | – | 2TB300 | Q1 | – | – |

# Split taper sheaves

## Interchange guide



### 3 grooves

| Datum A belts | Datum B belts | Pitch 5V belts | OD | Dodge ST sheaves | | | Competitor B5V sheaves | | Competitor TB sheaves | | Competitor 5V sheaves | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Part number | Description | Bushing | Part number | Bushing | Part number | Bushing | Part number | Bushing |
| 3" | 3.4" | – | 3.75" | 469081 | 3B34 | P2 | – | – | 3TB34 | P2 | – | – |
| 3.2 | 3.6 | – | 3.95 | 469082 | 3B36 | P2 | – | – | 3TB36 | P2 | – | – |
| 3.4 | 3.8 | – | 4.15 | 469083 | 3B38 | P1 | – | – | 3TB38 | P1 | – | – |
| 3.6 | 4 | – | 4.35 | 469084 | 3B40 | P1 | – | – | 3TB40 | P1 | – | – |
| 3.8 | 4.2 | 4.3 | 4.48 | 469085 | 3B5V42 | P1 | 3B5V42 | P1 | 3TB42 | P1 | 3P5V44 | P1 |
| 4 | 4.4 | 4.5 | 4.68 | 469086 | 3B5V44 | P1 | 3B5V44 | P1 | 3TB44 | P1 | 3Q5V46 | Q1 |
| 4.2 | 4.6 | 4.7 | 4.88 | 469087 | 3B5V46 | B | 3B5V46 | B | 3TB46 | P1 | – | – |
| 4.4 | 4.8 | 4.9 | 5.08 | 469088 | 3B5V48 | B | 3B5V48 | B | 3TB48 | P1 | 3Q5V49 | Q1 |
| 4.6 | 5 | 5.1 | 5.28 | 469089 | 3B5V50 | B | 3B5V50 | B | 3TB50 | P1 | 3Q5V52 | Q1 |
| 4.8 | 5.2 | 5.3 | 5.48 | 469090 | 3B5V52 | B | 3B5V52 | B | 3TB52 | P1 | – | – |
| 5 | 5.4 | 5.5 | 5.68 | 469091 | 3B5V54 | B | 3B5V54 | B | 3TB54 | P1 | 3Q5V55 | Q1 |
| 5.2 | 5.6 | 5.7 | 5.88 | 469092 | 3B5V56 | B | 3B5V56 | B | 3TB56 | P1 | – | – |
| 5.4 | 5.8 | 5.9 | 6.08 | 469093 | 3B5V58 | B | 3B5V58 | B | 3TB58 | P1 | 3Q5V59 | Q1 |
| 5.6 | 6 | 6.1 | 6.28 | 469094 | 3B5V60 | B | 3B5V60 | B | 3TB60 | P1 | – | – |
| 5.8 | 6.2 | 6.3 | 6.48 | 469095 | 3B5V62 | B | 3B5V62 | B | 3TB62 | P1 | 3Q5V63 | Q1 |
| 6 | 6.4 | 6.5 | 6.68 | 469096 | 3B5V64 | B | 3B5V64 | B | 3TB64 | P1 | – | – |
| 6.2 | 6.6 | 6.7 | 6.88 | 469097 | 3B5V66 | B | 3B5V66 | B | 3TB66 | P1 | 3Q5V67 | Q1 |
| 6.4 | 6.8 | 6.9 | 7.08 | 469098 | 3B5V68 | B | 3B5V68 | B | 3TB68 | P1 | – | – |
| 6.6 | 7 | 7.1 | 7.28 | 469099 | 3B5V70 | B | 3B5V70 | B | 3TB70 | Q1 | 3Q5V71 | Q1 |
| 7 | 7.4 | 7.5 | 7.68 | 469100 | 3B5V74 | B | 3B5V74 | B | 3TB74 | Q1 | 3Q5V75 | Q1 |
| 7.4 | 7.8 | 7.9 | 8 | 469101 | 3B5V78 | R1 | – | – | – | – | 3R5V80 | R1 |
| 7.6 | 8 | 8.1 | 8.28 | 469102 | 3B5V80 | B | 3B5V80 | B | 3TB80 | Q1 | – | – |
| 7.9 | 8.3 | 8.4 | 8.5 | 469103 | 3B5V83 | R1 | – | – | – | – | 3R5V85 | R1 |
| 8.2 | 8.6 | 8.7 | 8.88 | 469104 | 3B5V86 | B | 3B5V86 | B | 3TB86 | Q1 | – | – |
| 8.4 | 8.8 | 8.9 | 9 | 469105 | 3B5V88 | R1 | – | – | – | – | 3R5V90 | R1 |
| 8.6 | 9 | 9.1 | 9.28 | 469106 | 3B5V90 | B | 3B5V90 | B | 3TB90 | Q1 | 3R5V92 | R1 |
| 9 | 9.4 | 9.5 | 9.68 | 469107 | 3B5V94 | B | 3B5V94 | B | 3TB94 | Q1 | 3R5V97 | R1 |
| 9.7 | 10.1 | 10.2 | 10.3 | 469108 | 3B5V101 | R1 | – | – | – | – | 3R5V103 | R1 |
| 10.3 | 10.7 | 10.8 | 10.9 | 469109 | 3B5V107 | R1 | – | – | – | – | 3R5V109 | R1 |
| 10.6 | 11 | 11.1 | 11.28 | 469110 | 3B5V110 | B | 3B5V110 | B | 3TB110 | Q1 | – | – |
| 11.2 | 11.6 | 11.7 | 11.8 | 469111 | 3B5V116 | R1 | – | – | – | – | 3R5V118 | R1 |
| 12 | 12.4 | 12.5 | 12.68 | 469112 | 3B5V124 | B | 3B5V124 | B | 3TB124 | Q1 | 3R5V125 | R1 |
| 12.6 | 13 | 13.1 | 13.2 | 469113 | 3B5V133 | R1 | – | – | – | – | 3R5V132 | R1 |
| 13.2 | 13.6 | 13.7 | 13.88 | 469114 | 3B5V136 | B | 3B5V136 | B | 3TB136 | Q1 | – | – |
| 13.4 | 13.8 | 13.9 | 14 | 469115 | 3B5V138 | R1 | – | – | – | – | 3R5V140 | R1 |
| 14.4 | 14.8 | 14.9 | 15 | 469116 | 3B5V148 | R1 | – | – | – | – | 3R5V150 | R1 |
| 15 | 15.4 | 15.5 | 15.68 | 469117 | 3B5V15 | B | 3B5V154 | B | 3TB154 | Q1 | – | – |
| 15.4 | 15.8 | 15.9 | 16 | 469118 | 3B5V158 | R1 | – | – | – | – | 3R5V160 | R1 |
| 15.6 | 16 | 16.1 | 16.28 | 469119 | 3B5V160 | B | 3B5V160 | B | 3TB160 | Q1 | – | – |
| 18 | 18.4 | 18.5 | 18.68 | 469120 | 3B5V184 | B | 3B5V184 | B | 3TB184 | Q1 | – | – |
| 19.5 | 20 | 20.1 | 20.28 | 469121 | 3B5V200 | B | 3B5V200 | B | 3TB200 | Q1 | – | – |
| 20.6 | 21 | 21.1 | 21.2 | 469122 | 3B5V211 | R1 | – | – | – | – | 3R5V212 | R1 |
| 22.9 | 23.4 | 23.5 | 23.68 | 469123 | 3B5V234 | B | 3B5V234 | B | – | – | – | – |
| 24.5 | 25 | 25.1 | 25.28 | 469124 | 3B5V250 | B | 3B5V250 | B | 3TB250 | Q1 | – | – |
| 27.3 | 27.8 | 27.9 | 28.08 | 469125 | 3B5V278 | B | 3B5V278 | B | – | – | 3R5V280 | R1 |
| 29.5 | 30 | 30.1 | 30.35 | 469126 | 3B5V300 | Q1 | – | – | 3TB300 | Q1 | – | – |

# Split taper sheaves

## Interchange guide

**4 grooves**

| Datum A belts | Datum B belts | Pitch 5V belts | OD | Dodge ST sheaves | | | Competitor B5V sheaves | | Competitor TB sheaves | | Competitor 5V sheaves | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Part number | Description | Bushing | Part number | Bushing | Part number | Bushing | Part number | Bushing |
| 3" | 3.4" | – | 3.75" | 469127 | 4B34 | P2 | – | – | 4TB34 | P2 | – | – |
| 3.2 | 3.6 | – | 3.95 | 469128 | 4B36 | P2 | – | – | 4TB36 | P2 | – | – |
| 3.4 | 3.8 | – | 4.15 | 469129 | 4B38 | P1 | – | – | 4TB38 | P1 | – | – |
| 3.6 | 4 | – | 4.35 | 469130 | 4B40 | P1 | – | – | 4TB40 | P1 | – | – |
| 3.8 | 4.2 | 4.3 | 4.48 | 469131 | 4B5V42 | P1 | 4B5V42 | P1 | 4TB42 | P1 | – | – |
| 4 | 4.4 | 4.5 | 4.68 | 469132 | 4B5V44 | P1 | 4B5V44 | P1 | 4TB44 | P1 | 4Q5V46 | Q2 |
| 4.2 | 4.6 | 4.7 | 4.88 | 469133 | 4B5V46 | B | 4B5V46 | B | 4TB46 | P1 | 4Q5V49 | Q1 |
| 4.4 | 4.8 | 4.9 | 5.08 | 469134 | 4B5V48 | B | 4B5V48 | B | 4TB48 | P1 | – | – |
| 4.6 | 5 | 5.1 | 5.28 | 469135 | 4B5V50 | B | 4B5V50 | B | 4TB50 | P1 | 4Q5V52 | Q1 |
| 4.8 | 5.2 | 5.3 | 5.48 | 469136 | 4B5V52 | B | 4B5V52 | B | 4TB52 | P1 | 4Q5V55 | Q1 |
| 5 | 5.4 | 5.5 | 5.68 | 469137 | 4B5V54 | B | 4B5V54 | B | 4TB54 | P1 | – | – |
| 5.2 | 5.6 | 5.7 | 5.88 | 469138 | 4B5V56 | B | 4B5V56 | B | 4TB56 | P1 | 4Q5V59 | Q1 |
| 5.4 | 5.8 | 5.9 | 6.08 | 469139 | 4B5V58 | B | 4B5V58 | B | 4TB58 | P1 | – | – |
| 5.6 | 6 | 6.1 | 6.28 | 469140 | 4B5V60 | B | 4B5V60 | B | 4TB60 | P1 | 4Q5V63 | Q1 |
| 5.8 | 6.2 | 6.3 | 6.48 | 469141 | 4B5V62 | B | 4B5V62 | B | 4TB62 | P1 | – | – |
| 6 | 6.4 | 6.5 | 6.68 | 469142 | 4B5V64 | B | 4B5V64 | B | 4TB64 | P1 | 4Q5V67 | Q1 |
| 6.2 | 6.6 | 6.7 | 6.88 | 469143 | 4B5V66 | B | 4B5V66 | B | 4TB66 | P1 | – | – |
| 6.4 | 6.8 | 6.9 | 7.08 | 469144 | 4B5V68 | B | 4B5V68 | B | 4TB68 | P1 | 4Q5V71 | Q1 |
| 6.6 | 7 | 7.1 | 7.28 | 469145 | 4B5V70 | B | 4B5V70 | B | 4TB70 | Q1 | – | – |
| 7 | 7.4 | 7.5 | 7.68 | 469146 | 4B5V74 | B | 4B5V74 | B | 4TB74 | Q1 | 4Q5V75 | Q1 |
| 7.4 | 7.8 | 7.9 | 8 | 469147 | 4B5V78 | R1 | – | – | – | – | 4R5V80 | R1 |
| 7.6 | 8 | 8.1 | 8.28 | 469148 | 4B5V80 | B | 4B5V80 | B | 4TB80 | Q1 | – | – |
| 7.9 | 8.3 | 8.4 | 8.5 | 469149 | 4B5V83 | R1 | – | – | – | – | 4R5V85 | R1 |
| 8.2 | 8.6 | 8.7 | 8.88 | 469150 | 4B5V86 | B | 4B5V86 | B | 4TB86 | Q1 | – | – |
| 8.4 | 8.8 | 8.9 | 9 | 469151 | 4B5V88 | R1 | – | – | – | – | 4R5V90 | R1 |
| 8.6 | 9 | 9.1 | 9.28 | 469152 | 4B5V90 | B | 4B5V90 | B | 4TB90 | Q1 | 4R5V92 | R1 |
| 9 | 9.4 | 9.5 | 9.68 | 469153 | 4B5V94 | B | 4B5V94 | B | 4TB94 | Q1 | 4R5V97 | R1 |
| 9.7 | 10.1 | 10.2 | 10.3 | 469154 | 4B5V101 | R1 | – | – | – | – | 4R5V103 | R1 |
| 10.3 | 10.7 | 10.8 | 10.9 | 469155 | 4B5V107 | R1 | – | – | – | – | 4R5V109 | R1 |
| 10.6 | 11 | 11.1 | 11.28 | 469156 | 4B5V110 | B | 4B5V110 | B | 4TB110 | Q1 | – | – |
| 11.2 | 11.6 | 11.7 | 11.8 | 469157 | 4B5V116 | R1 | – | – | – | – | 4R5V118 | R1 |
| 12 | 12.4 | 12.5 | 12.68 | 469158 | 4B5V124 | B | 4B5V124 | B | 4TB124 | Q1 | 4R5V125 | R1 |
| 12.6 | 13 | 13.1 | 13.2 | 469159 | 4B5V133 | R1 | – | – | – | – | 4R5V132 | R1 |
| 13.2 | 13.6 | 13.7 | 13.88 | 469160 | 4B5V136 | B | 4B5V136 | B | 4TB136 | Q1 | – | – |
| 13.4 | 13.8 | 13.9 | 14 | 469161 | 4B5V138 | R1 | – | – | – | – | 4R5V140 | R1 |
| 14.4 | 14.8 | 14.9 | 15 | 469162 | 4B5V148 | R1 | – | – | – | – | 4R5V150 | R1 |
| 15 | 15.4 | 15.5 | 15.68 | 469163 | 4B5V154 | B | 4B5V154 | B | 4TB154 | Q1 | – | – |
| 15.4 | 15.8 | 15.9 | 16 | 469164 | 4B5V158 | R1 | – | – | – | – | 4R5V160 | R1 |
| 15.6 | 16 | 16.1 | 16.28 | 469165 | 4B5V160 | B | 4B5V160 | B | 4TB160 | Q1 | – | – |
| 18 | 18.4 | 18.5 | 18.68 | 469166 | 4B5V184 | B | 4B5V184 | B | 4TB184 | Q1 | – | – |
| 19.5 | 20 | 20.1 | 20.28 | 469167 | 4B5V200 | B | 4B5V200 | B | 4TB200 | Q1 | – | – |
| 20.6 | 21 | 21.1 | 21.2 | 469168 | 4B5V211 | R1 | – | – | – | – | 4R5V212 | R1 |
| 22.9 | 23.4 | 23.5 | 23.68 | 469169 | 4B5V234 | B | 4B5V234 | B | – | – | – | – |
| 24.5 | 25 | 25.1 | 25.28 | 469170 | 4B5V250 | B | 4B5V250 | B | 4TB250 | Q1 | – | – |
| 27.3 | 27.8 | 27.9 | 28.08 | 469171 | 4B5V278 | B | 4B5V278 | B | – | – | 4S5V280 | S1 |
| 29.5 | 30 | 30.1 | 30.35 | 469172 | 4B5V300 | Q1 | – | – | 4TB300 | Q1 | – | – |

# Split taper sheaves

## Interchange guide



**5 grooves**

| Datum A belts | Datum B belts | Pitch 5V belts | OD | Dodge ST sheaves | | | Competitor B5V sheaves | | Competitor TB sheaves | | Competitor 5V sheaves | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Part number | Description | Bushing | Part number | Bushing | Part number | Bushing | Part number | Bushing |
| 3" | 3.4" | – | 3.75" | 469173 | 5B34 | P2 | – | – | 5TB34 | P2 | – | – |
| 3.2 | 3.6 | – | 3.95 | 469174 | 5B36 | P2 | – | – | 5TB36 | P2 | – | – |
| 3.4 | 3.8 | – | 4.15 | 469175 | 5B38 | P2 | – | – | 5TB38 | P2 | – | – |
| 3.6 | 4 | – | 4.35 | 469176 | 5B40 | P2 | – | – | 5TB40 | P2 | – | – |
| 3.8 | 4.2 | 4.3 | 4.48 | 469177 | 5B5V42 | P2 | 5B5V42 | P2 | 5TB42 | P2 | – | – |
| 4 | 4.4 | 4.5 | 4.68 | 469178 | 5B5V44 | P2 | 5B5V44 | P2 | 5TB44 | P2 | 5Q5V46 | Q2 |
| 4.2 | 4.6 | 4.7 | 4.88 | 469179 | 5B5V46 | P2 | 5B5V46 | P2 | 5TB46 | P2 | 5Q5V49 | Q2 |
| 4.4 | 4.8 | 4.9 | 5.08 | 469180 | 5B5V48 | P2 | 5B5V48 | P2 | 5TB48 | P2 | – | – |
| 4.6 | 5 | 5.1 | 5.28 | 469181 | 5B5V50 | Q1 | 5B5V50 | Q1 | 5TB50 | P2 | 5Q5V52 | Q2 |
| 4.8 | 5.2 | 5.3 | 5.48 | 469182 | 5B5V52 | Q1 | 5B5V52 | Q1 | 5TB52 | P2 | 5Q5V55 | Q2 |
| 5 | 5.4 | 5.5 | 5.68 | 469183 | 5B5V54 | Q1 | 5B5V54 | Q1 | 5TB54 | Q1 | – | – |
| 5.2 | 5.6 | 5.7 | 5.88 | 469184 | 5B5V56 | Q1 | 5B5V56 | Q1 | 5TB56 | Q1 | 5Q5V59 | Q2 |
| 5.4 | 5.8 | 5.9 | 6.08 | 469185 | 5B5V58 | Q1 | 5B5V58 | Q1 | 5TB58 | Q1 | – | – |
| 5.6 | 6 | 6.1 | 6.28 | 469186 | 5B5V60 | Q1 | 5B5V60 | Q1 | 5TB60 | Q1 | 5Q5V63 | Q2 |
| 5.8 | 6.2 | 6.3 | 6.48 | 469187 | 5B5V62 | Q1 | 5B5V62 | Q1 | 5TB62 | Q1 | – | – |
| 6 | 6.4 | 6.5 | 6.68 | 469188 | 5B5V64 | Q1 | 5B5V64 | Q1 | 5TB64 | Q1 | 5Q5V67 | Q2 |
| 6.2 | 6.6 | 6.7 | 6.88 | 469189 | 5B5V66 | Q1 | 5B5V66 | Q1 | 5TB66 | Q1 | – | – |
| 6.4 | 6.8 | 6.9 | 7.08 | 469190 | 5B5V68 | Q1 | 5B5V68 | Q1 | 5TB68 | Q1 | 5Q5V71 | Q2 |
| 6.6 | 7 | 7.1 | 7.28 | 469191 | 5B5V70 | Q1 | 5B5V70 | Q1 | 5TB70 | Q2 | – | – |
| 7 | 7.4 | 7.5 | 7.68 | 469192 | 5B5V74 | Q1 | 5B5V74 | Q1 | 5TB74 | Q2 | 5Q3V75 | Q2 |
| 7.4 | 7.8 | 7.9 | 8 | 469193 | 5B5V78 | R1 | – | – | – | – | 5R5V80 | R1 |
| 7.6 | 8 | 8.1 | 8.28 | 469194 | 5B5V80 | R1 | 5B5V80 | R1 | 5TB80 | Q2 | – | – |
| 7.9 | 8.3 | 8.4 | 8.5 | 469195 | 5B5V83 | R1 | – | – | – | – | 5R5V85 | R1 |
| 8.2 | 8.6 | 8.7 | 8.88 | 469196 | 5B5V86 | R1 | 5B5V86 | R1 | 5TB86 | Q2 | – | – |
| 8.4 | 8.8 | 8.9 | 9 | 469197 | 5B5V88 | R1 | – | – | – | – | 5R5V90 | R1 |
| 8.6 | 9 | 9.1 | 9.28 | 469198 | 5B5V90 | R1 | 5B5V90 | R1 | 5TB90 | Q2 | 5R5V92 | R1 |
| 9 | 9.4 | 9.5 | 9.68 | 469199 | 5B5V94 | R1 | 5B5V94 | R1 | 5TB94 | Q2 | 5R5V97 | R1 |
| 9.7 | 10.1 | 10.2 | 10.3 | 469200 | 5B5V101 | R1 | – | – | – | – | 5R5V103 | R1 |
| 10.3 | 10.7 | 10.8 | 10.9 | 469201 | 5B5V107 | R1 | – | – | – | – | 5R5V109 | R1 |
| 10.6 | 11 | 11.1 | 11.28 | 469202 | 5B5V110 | R1 | 5B5V110 | R1 | 5TB110 | Q2 | – | – |
| 11.2 | 11.6 | 11.7 | 11.8 | 469203 | 5B5V116 | R1 | – | – | – | – | 5R5V118 | R1 |
| 12 | 12.4 | 12.5 | 12.68 | 469204 | 5B5V124 | R1 | 5B5V124 | R1 | 5TB124 | Q2 | 5R5V125 | R1 |
| 12.6 | 13 | 13.1 | 13.2 | 469205 | 5B5V133 | R1 | – | – | – | – | 5R5V132 | R1 |
| 13.2 | 13.6 | 13.7 | 13.88 | 469206 | 5B5V136 | R1 | 5B5V136 | R1 | 5TB136 | Q2 | – | – |
| 13.4 | 13.8 | 13.9 | 14 | 469207 | 5B5V138 | R1 | – | – | – | – | 5R5V140 | R1 |
| 14.4 | 14.8 | 14.9 | 15 | 469208 | 5B5V148 | R1 | – | – | – | – | 5R5V150 | R1 |
| 15 | 15.4 | 15.5 | 15.68 | 469209 | 5B5V154 | R1 | 5B5V154 | R1 | 5TB154 | Q2 | – | – |
| 15.4 | 15.8 | 15.9 | 16 | 469210 | 5B5V158 | R1 | – | – | – | – | 5R5V160 | R1 |
| 15.6 | 16 | 16.1 | 16.28 | 469211 | 5B5V160 | R1 | 5B5V160 | R1 | 5TB160 | Q2 | – | – |
| 18 | 18.4 | 18.5 | 18.68 | 469212 | 5B5V184 | R1 | 5B5V184 | R1 | 5TB184 | Q2 | – | – |
| 19.5 | 20 | 20.1 | 20.28 | 469213 | 5B5V200 | R1 | 5B5V200 | R1 | 5TB200 | Q2 | – | – |
| 20.6 | 21 | 21.1 | 21.2 | 469214 | 5B5V211 | S1 | – | – | – | – | 5R5V212 | S1 |
| 24.5 | 25 | 25.1 | 25.28 | 469215 | 5B5V250 | R1 | 5B5V250 | R1 | 5TB250 | Q2 | 5S5V250 | S1 |
| 27.4 | 27.8 | 27.9 | 28 | 469216 | 5B5V278 | S1 | – | – | – | – | 5S5V280 | S1 |
| 29.5 | 30 | 30.1 | 30.35 | 469217 | 5B5V300 | R1 | – | – | 5B300R | R1 | – | – |

# Split taper sheaves

## Interchange guide

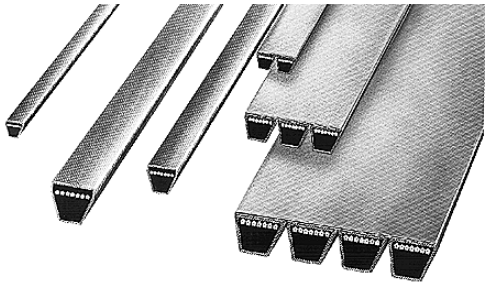
### 6 grooves

| Datum A belts | Datum B belts | Pitch 5V belts | OD | Dodge ST sheaves | | | Competitor B5V sheaves | | Competitor TB sheaves | | Competitor 5V sheaves | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Part number | Description | Bushing | Part number | Bushing | Part number | Bushing | Part number | Bushing |
| 3" | 3.4" | – | 3.75" | 469218 | 6B34 | P2 | – | – | 6TB34 | P2 | – | – |
| 3.2 | 3.6 | – | 3.95 | 469219 | 6B36 | P2 | – | – | 6TB36 | P2 | – | – |
| 3.4 | 3.8 | – | 4.15 | 469220 | 6B38 | P2 | – | – | 6TB38 | P2 | – | – |
| 3.6 | 4 | – | 4.35 | 469221 | 6B40 | P2 | – | – | 6TB40 | P2 | – | – |
| 3.8 | 4.2 | 4.3 | 4.48 | 469222 | 6B5V42 | P2 | 6B5V42 | P2 | 6TB42 | P2 | – | – |
| 4 | 4.4 | 4.5 | 4.68 | 469223 | 6B5V44 | P2 | 6B5V44 | P2 | 6TB44 | P2 | – | – |
| 4.2 | 4.6 | 4.7 | 4.88 | 469224 | 6B5V46 | P2 | 6B5V46 | P2 | 6TB46 | P2 | – | – |
| 4.4 | 4.8 | 4.9 | 5.08 | 469225 | 6B5V48 | P2 | 6B5V48 | P2 | 6TB48 | P2 | – | – |
| 4.6 | 5 | 5.1 | 5.28 | 469226 | 6B5V50 | Q2 | 6B5V50 | Q2 | 6TB50 | P2 | – | – |
| 4.8 | 5.2 | 5.3 | 5.48 | 469227 | 6B5V52 | Q2 | 6B5V52 | Q2 | 6TB52 | P2 | – | – |
| 5 | 5.4 | 5.5 | 5.68 | 469228 | 6B5V54 | Q2 | 6B5V54 | Q2 | 6TB54 | Q1 | – | – |
| 5.2 | 5.6 | 5.7 | 5.88 | 469229 | 6B5V56 | Q2 | 6B5V56 | Q2 | 6TB56 | Q1 | – | – |
| 5.4 | 5.8 | 5.9 | 6.08 | 469230 | 6B5V58 | Q1 | 6B5V58 | Q1 | 6TB58 | Q1 | – | – |
| 5.6 | 6 | 6.1 | 6.28 | 469231 | 6B5V60 | Q1 | 6B5V60 | Q1 | 6TB60 | Q1 | – | – |
| 5.8 | 6.2 | 6.3 | 6.48 | 469232 | 6B5V62 | Q1 | 6B5V62 | Q1 | 6TB62 | Q1 | – | – |
| 6 | 6.4 | 6.5 | 6.68 | 469233 | 6B5V64 | Q1 | 6B5V64 | Q1 | 6TB64 | Q1 | – | – |
| 6.2 | 6.6 | 6.7 | 6.88 | 469234 | 6B5V66 | Q1 | 6B5V66 | Q1 | 6TB66 | Q1 | – | – |
| 6.4 | 6.8 | 6.9 | 7.08 | 469235 | 6B5V68 | Q1 | 6B5V68 | Q1 | 6TB68 | Q1 | 6Q5V71 | Q2 |
| 6.6 | 7 | 7.1 | 7.28 | 469236 | 6B5V70 | Q2 | 6B5V70 | Q2 | 6TB70 | Q2 | – | – |
| 7 | 7.4 | 7.5 | 7.68 | 469237 | 6B5V74 | Q2 | 6B5V74 | Q2 | 6TB74 | Q2 | 6Q5V75 | Q2 |
| 7.4 | 7.8 | 7.9 | 8 | 469238 | 6B5V78 | R1 | – | – | – | – | 6R5V80 | R1 |
| 7.6 | 8 | 8.1 | 8.28 | 469239 | 6B5V80 | R1 | 6B5V80 | R1 | 6TB80 | Q2 | – | – |
| 7.9 | 8.3 | 8.4 | 8.5 | 469240 | 6B5V83 | R1 | – | – | – | – | 6R5V85 | R1 |
| 8.2 | 8.6 | 8.7 | 8.88 | 469241 | 6B5V86 | R1 | 6B5V86 | R1 | 6TB86 | Q2 | – | – |
| 8.4 | 8.8 | 8.9 | 9 | 469242 | 6B5V88 | R1 | – | – | – | – | 6R5V90 | R1 |
| 8.6 | 9 | 9.1 | 9.28 | 469243 | 6B5V90 | R1 | 6B5V90 | R1 | 6TB90 | Q2 | 6R5V92 | R1 |
| 9 | 9.4 | 9.5 | 9.68 | 469244 | 6B5V94 | R1 | 6B5V94 | R1 | 6TB94 | Q2 | 6R5V97 | R1 |
| 9.7 | 10.1 | 10.2 | 10.3 | 469245 | 6B5V101 | R1 | – | – | – | – | 6R5V103 | R1 |
| 10.3 | 10.7 | 10.8 | 10.9 | 397037 | 6B5V107 | R1 | – | – | – | – | 6R5V109 | R1 |
| 10.6 | 11 | 11.1 | 11.28 | 469247 | 6B5V110 | R1 | 6B5V110 | R1 | 6TB110 | Q2 | – | – |
| 11.2 | 11.6 | 11.7 | 11.8 | 469248 | 6B5V116 | R1 | – | – | – | – | 6R5V118 | R1 |
| 12 | 12.4 | 12.5 | 12.68 | 469249 | 6B5V124 | R1 | 6B5V124 | R1 | 6TB124 | Q2 | 6S5V125 | S1 |
| 12.6 | 13 | 13.1 | 13.2 | 469250 | 6B5V133 | S1 | – | – | – | – | 6S5V132 | S1 |
| 13.2 | 13.6 | 13.7 | 13.88 | 469251 | 6B5V136 | R1 | 6B5V136 | R1 | 6TB136 | Q2 | – | – |
| 13.4 | 13.8 | 13.9 | 14 | 469252 | 6B5V138 | S1 | – | – | – | – | 6S5V140 | S1 |
| 14.4 | 14.8 | 14.9 | 15 | 469253 | 6B5V148 | S1 | – | – | – | – | 6S5V150 | S1 |
| 15 | 15.4 | 15.5 | 15.68 | 469254 | 6B5V154 | R1 | 6B5V154 | R1 | 6TB154 | Q2 | – | – |
| 15.4 | 15.8 | 15.9 | 16 | 469255 | 6B5V158 | S1 | – | – | – | – | 6S5V160 | S1 |
| 15.6 | 16 | 16.1 | 16.28 | 469256 | 6B5V160 | R1 | 6B5V160 | R1 | 6TB160 | Q2 | – | – |
| 18 | 18.4 | 18.5 | 18.68 | 469257 | 6B5V184 | R1 | 6B5V184 | R1 | 6TB184 | Q2 | – | – |
| 19.5 | 20 | 20.1 | 20.28 | 469258 | 6B5V200 | R1 | 6B5V200 | R1 | 6TB200 | Q2 | – | – |
| 20.6 | 21 | 21.1 | 21.2 | 469259 | 6B5V211 | S1 | – | – | – | – | 6S5V212 | S1 |
| 24.5 | 25 | 25.1 | 25.28 | 469260 | 6B5V250 | R1 | 6B5V250 | R1 | 6TB250 | Q2 | 6S5V250 | S1 |
| 27.4 | 27.8 | 27.9 | 28 | 397038 | 6B5V278 | S1 | – | – | – | – | 6S5V280 | S1 |
| 29.5 | 30 | 30.1 | 30.35 | 469262 | 6B5V300 | R1 | – | – | 6B300R | R1 | – | – |

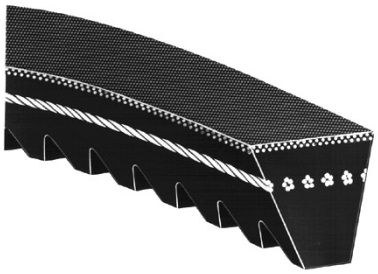
# Features/Benefits
## V-Belts

V-drives have been the mainstay of industrial power transmission for over 60 years. During this time, Dodge has been a major influence, designing and developing innovative concepts in V-belt sheaves and supplying the highest quality belts.

Today's V-drives offer quiet, efficient mechanical power transmission. They provide many thousands of hours of performance, even under conditions of shock load and normal drive misalignment. All of these benefits come at an economic value that is unsurpassed.



### D-V WEDGE BELTS
### 3VX-5VX-8V

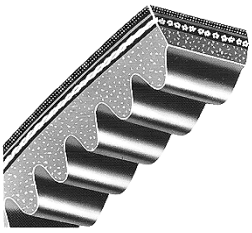


- Oil resistant and static conducting
- Permits compact, lighter weight drives flexibility
- High-strength tension member delivers maximum power with minimum stretch
- Built for long-term dimensional stability
- Molded cog construction under 200-inch belt length

### S-L CLASSIC V-BELTS
### A-B-C-D-E

- Cable cord envelope construction
- Cool running and flexible
- Strong tensile cords minimize stretch
- Static conducting and heat and oil resistant
- More tolerant of shock loads

### CLASSIC COG V-BELTS
### AX-BX-CX-DX

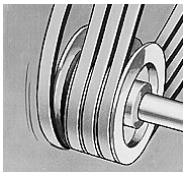


Deliver more horsepower and last longer than conventional belts...

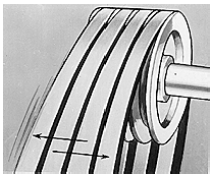
- Fully notched cogs for maximum
- High coefficient rubber edge
- Oil resistant and static conducting
- Proven energy-saving design
- Outlasts conventional belts
- Fewer belts required - drive weight is reduced

### POLYBAND CLASSIC
### POLYBAND WEDGE
### V-BELTS

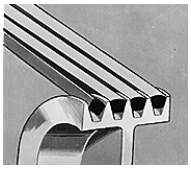
POLYBAND banded V-belts are engineered to handle those problem drives where vibration, sudden shock loads or misalignment causes belts to turn over, whip or jump off sheave. Two or more belts are inseparable joined together as one single unit. POLYBAND belts may be used without changing sheaves or altering the drive.



- NO JUMP OFF

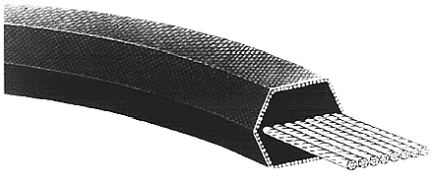


- NO WHIP



- NO TURN OVER

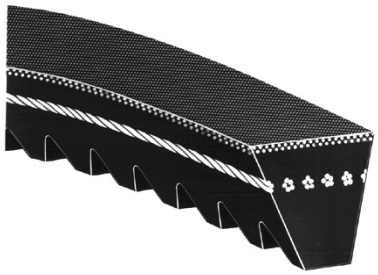
### DOUBLE-V
### SEALED-LIFE (HEX)



For serpentine drives

- Transmits power from both sides of belt
- Standard AA, BB, CC cross sections
- Runs in standard classical sheaves
- Oil resistant and static conducting

# Selection
## D-V Wedge Narrow Belts

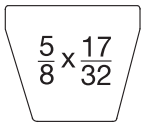


**Raw-Edge Molded Cog Construction**

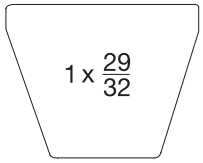
**Wrapped Construction**

- Oil Resistant and Static Conducting
- Permits Compact, Lighter Weight Drives
- Hi-Strength Tension Member Delivers Maximum Power with Minimum Stretch
- Built for Long-Term Dimensional Stability.
- Matched to MPTA/RMA Standards. No additional matching or Matching Codes required.

3V
3VX




5V
5VX




8V
8VX

| 3VX | | | | 5VX, 5V | | | | | | | | 8VX, 8V | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Belt No.** | **Part No.** | **Wt.** | **Lgth. Δ** | **Belt No.** | **Part No.** | **Wt.** | **Lgth. Δ** | **Belt No.** | **Part No.** | **Wt.** | **Lgth. Δ** | **Belt No.** | **Part No.** | **Wt.** | **Lgth. Δ** |
| 3VX250 | **107150** | 0.11 | 25 | 5VX450 | | 0.51 | 45 | 5VX900 | **107180** | 1.04 | 90 | 8VX1000 | **107200** | 2.97 | 100 |
| 3VX265 | **107220** | 0.11 | 27 | 5VX470 | | 0.54 | 47 | 5VX930 | | 1.07 | 93 | 8VX1060 | **107219** | 3.50 | 106 |
| 3VX280 | **107151** | 0.12 | 28 | 5VX490 | | 0.56 | 49 | 5VX950 | **107195** | 1.10 | 95 | 8VX1120 | **107201** | 3.35 | 112 |
| 3VX300 | **107229** | 0.12 | 30 | 5VX500 | **107175** | 0.57 | 50 | 5VX960 | | 1.11 | 96 | 8VX1180 | **107240** | 3.65 | 118 |
| 3VX315 | **107152** | 0.14 | 31.5 | 5VX510 | | 0.59 | 51 | 5VX1000 | **107181** | 1.16 | 100 | 8VX1250 | **107202** | 3.98 | 125 |
| 3VX335 | **107230** | 0.14 | 33.5 | 5VX530 | **107233** | 0.61 | 53 | 5VX1030 | | 1.18 | 103 | 8VX1320 | **107241** | 4.05 | 132 |
| 3VX355 | **107153** | 0.16 | 35.5 | 5VX540 | | 0.63 | 54 | 5VX1060 | **107196** | 1.23 | 106 | 8VX1400 | **107203** | 4.16 | 140 |
| 3VX375 | **107166** | 0.16 | 37.5 | 5VX550 | | 0.63 | 55 | 5VX1080 | | 1.24 | 108 | 8VX1500 | **107242** | 4.69 | 150 |
| 3VX400 | **107154** | 0.16 | 40 | 5VX560 | **107176** | 0.64 | 56 | 5VX1120 | **107182** | 1.30 | 112 | 8VX1600 | **107204** | 5.30 | 160 |
| 3VX425 | **107167** | 0.17 | 42.5 | 5VX570 | | 0.66 | 57 | 5VX1150 | | 1.33 | 115 | 8VX1700 | **107243** | 5.27 | 170 |
| 3VX450 | **107155** | 0.54 | 45 | 5VX580 | | 0.67 | 58 | 5VX1160 | | 1.34 | 116 | 8VX1800 | **107205** | 5.73 | 180 |
| 3VX475 | **107221** | 0.20 | 47.5 | 5VX590 | | 0.68 | 59 | 5VX1180 | **107197** | 1.37 | 118 | 8VX1900 | **107244** | 5.81 | 190 |
| 3VX500 | **107156** | 0.22 | 50 | 5VX600 | **107234** | 0.69 | 60 | 5VX1230 | | 1.42 | 123 | 8VX2000 | **107206** | 6.05 | 200 |
| 3VX530 | **107222** | 0.21 | 53 | 5VX610 | | 0.70 | 61 | 5VX1250 | **107183** | 1.45 | 125 | 8V2120 | **107245** | 6.80 | 212 |
| 3VX560 | **107157** | 0.22 | 56 | 5VX630 | **107177** | 0.73 | 63 | 5VX1320 | **107224** | 1.53 | 132 | 8V2240 | **107207** | 7.25 | 224 |
| 3VX600 | **107168** | 0.24 | 60 | 5VX650 | | 0.75 | 65 | 5VX1400 | **107184** | 1.62 | 140 | 8V2360 | **107215** | 7.65 | 236 |
| 3VX630 | **107158** | 0.27 | 63 | 5VX660 | | 0.75 | 66 | 5VX1500 | **107225** | 1.74 | 150 | 8V2500 | **107208** | 7.97 | 250 |
| 3VX670 | **107169** | 0.29 | 67 | 5VX670 | **107235** | 0.77 | 67 | 5VX1600 | **107185** | 1.86 | 160 | 8V2650 | **107246** | 8.52 | 265 |
| 3VX710 | **107159** | 0.31 | 71 | 5VX680 | | 0.78 | 68 | 5VX1700 | **107226** | 1.97 | 170 | 8V2800 | **107209** | 8.95 | 280 |
| 3VX750 | **107170** | 0.30 | 75 | 5VX690 | | 0.80 | 69 | 5VX1800 | **107186** | 2.10 | 180 | 8V3000 | **107216** | 10.05 | 300 |
| 3VX800 | **107160** | 0.33 | 80 | 5VX710 | **107178** | 0.82 | 71 | 5VX1900 | **107227** | 2.20 | 190 | 8V3150 | **107210** | 10.50 | 315 |
| 3VX850 | **107171** | 0.39 | 85 | 5VX730 | | 0.84 | 73 | 5VX2000 | **107187** | 2.30 | 200 | 8V3350 | **107247** | 11.20 | 335 |
| 3VX900 | **107161** | 0.38 | 90 | 5VX740 | | 0.85 | 74 | 5V2120 | **107228** | 2.50 | 212 | 8V3550 | **107211** | 11.90 | 355 |
| 3VX950 | **107172** | 0.40 | 95 | 5VX750 | **107193** | 0.87 | 75 | 5V2240 | **107188** | 2.60 | 224 | 8V3750 | **107218** | 12.60 | 375 |
| 3VX1000 | **107162** | 0.44 | 100 | 5VX780 | | 0.90 | 78 | 5V2360 | **107236** | 2.74 | 236 | 8V4000 | **107212** | 13.40 | 400 |
| 3VX1060 | **107223** | 0.44 | 106 | 5VX800 | **107179** | 0.92 | 80 | 5V2500 | **107189** | 2.84 | 250 | 8V4250 | **107248** | 14.20 | 425 |
| 3VX1120 | **107163** | 0.46 | 112 | 5VX810 | | 0.93 | 81 | 5V2650 | **107237** | 2.99 | 265 | 8V4500 | **107213** | 15.10 | 425 |
| 3VX1180 | **107231** | 0.50 | 118 | 5VX830 | | 0.96 | 83 | 5V2800 | **107190** | 3.10 | 280 | 8V4750 | **107217** | 15.50 | 475 |
| 3VX1250 | **107164** | 0.54 | 125 | 5VX840 | | 0.97 | 84 | 5V3000 | **107238** | 3.60 | 300 | 8V5000 | **107214** | 16.00 | 500 |
| 3VX1320 | **107232** | 0.57 | 132 | 5VX850 | **107194** | 0.98 | 85 | 5V3150 | **107191** | 3.80 | 315 | – | – | – | – |
| 3VX1400 | **107165** | 0.62 | 140 | 5VX860 | | 0.99 | 86 | 5V3350 | **107239** | 4.00 | 335 | – | – | – | – |
| 3VX1500 | **107173** | 0.56 | 150 | 5VX880 | | 1.02 | 88 | 5V3550 | **107192** | 4.30 | 355 | – | – | – | – |

Δ Outside circumference in inches

# Selection

## D-V Wedge Banded Belts

### 3VX POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)

| Lgth. Δ | Belt No. | Wgt. Per Band | 2-BAND P/N | 3-BAND P/N | 4-BAND P/N | 5-BAND P/N | 6-BAND P/N |
|---|---|---|---|---|---|---|---|
| 25 | R3VX250 Δ | 0.10 | – | – | – | – | – |
| 26.5 | R3VX265 Δ | 0.10 | – | – | – | – | – |
| 28 | R3VX280 Δ | 0.10 | **108208** | **108209** | **108210** | **108211** | – |
| 30 | R3VX300 Δ | 0.15 | **108212** | **108213** | **108214** | **108215** | – |
| 31.5 | R3VX315 Δ | 0.15 | **108216** | **108217** | **108218** | **108219** | – |
| 33.5 | R3VX335 Δ | 0.15 | **108220** | **108221** | **108222** | **108228** | – |
| 35.5 | R3VX355 Δ | 0.15 | **108224** | **108225** | **108226** | **108227** | – |
| 37.5 | R3VX375 Δ | 0.15 | **108228** | **108229** | **108230** | **108231** | – |
| 40 | R3VX400 Δ | 0.20 | **108232** | **108233** | **108234** | **108235** | – |
| 42.5 | R3VX425 Δ | 0.20 | **108236** | **108237** | **108238** | **108239** | – |
| 45 | R3VX450 Δ | 0.20 | **108240** | **108241** | **108242** | **108243** | – |
| 47.5 | R3VX475 Δ | 0.20 | **108244** | **108245** | **108246** | **108247** | – |
| 50 | R3VX500 Δ | 0.20 | **108248** | **108249** | **108250** | **108251** | – |
| 53 | R3VX530 Δ | 2.50 | **108252** | **108253** | **108254** | **108255** | – |
| 56 | R3VX560 Δ | 2.50 | **108256** | **108257** | **108258** | **108259** | – |
| 60 | R3VX600 Δ | 2.50 | **108260** | **108261** | **108262** | **108263** | – |
| 63 | R3VX630 Δ | 0.30 | **108264** | **108265** | **108266** | **108267** | – |
| 67 | R3VX670 Δ | 0.30 | **108268** | **108269** | **108270** | **108271** | – |
| 71 | R3VX710 Δ | 0.30 | **108272** | **108273** | **108274** | **108275** | – |
| 75 | R3VX750 Δ | 0.35 | **108276** | **108277** | **108278** | **108279** | – |
| 80 | R3VX800 Δ | 0.35 | **108280** | **108281** | **108282** | **108283** | – |
| 85 | R3VX850 Δ | 0.40 | **108284** | **108285** | **108286** | **108287** | – |
| 90 | R3VX900 Δ | 0.40 | **108288** | **108289** | **108290** | **108291** | – |
| 95 | R3VX950 Δ | 0.45 | **108292** | **108293** | **108294** | **108295** | – |
| 100 | R3VX1000 Δ | 0.45 | **108296** | **108297** | **108298** | **108299** | – |
| 106 | R3VX1060 Δ | 0.50 | **108300** | **108301** | **108302** | **108303** | – |
| 112 | R3VX1120 Δ | 0.50 | **108304** | **108305** | **108306** | **108307** | – |
| 118 | R3VX1180 Δ | 0.55 | **108308** | **108309** | **108310** | **108311** | – |
| 125 | R3VX1250 Δ | 0.55 | **108312** | **108313** | **108314** | **108315** | – |
| 132 | R3VX1320 Δ | 0.60 | **108316** | **108317** | **108318** | **108319** | – |
| 140 | R3VX1400 Δ | 0.65 | **108320** | **108321** | **108322** | **108323** | – |

Δ Outside circumference in inches

# Selection

**5VX, 5V POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)**

| Lgth. Δ | Belt No. | Wgt. Per Band | 2-BAND P/N | 3-BAND P/N | 4-BAND P/N | 5-BAND P/N | 6-BAND P/N |
|---|---|---|---|---|---|---|---|
| 50 | R5VX500 Δ | 0.65 | 108330 | – | – | – | – |
| 53 | R5VX530 Δ | 0.65 | – | – | – | – | – |
| 56 | R5VX560 Δ | 0.70 | 108338 | 108339 | 108340 | 108341 | – |
| 60 | R5VX600 Δ | 0.75 | 108342 | 108343 | 108344 | 108345 | – |
| 63 | R5VX630 Δ | 0.80 | 108346 | 108347 | 108348 | 108349 | – |
| 67 | R5VX670 Δ | 0.85 | 108350 | 108351 | 108352 | 108353 | – |
| 71 | R5VX710 Δ | 0.90 | 108354 | 108355 | 108356 | 108357 | – |
| 75 | R5VX750 Δ | 0.95 | 108358 | 108359 | 108360 | 108361 | – |
| 80 | R5VX800 Δ | 1.00 | 108362 | 108363 | 108364 | 108365 | – |
| 85 | R5VX850 Δ | 1.10 | 108366 | 108367 | 108368 | 108369 | – |
| 90 | R5VX900 Δ | 1.15 | 108370 | 108371 | 108372 | 108373 | – |
| 95 | R5VX950 Δ | 1.20 | 108374 | 108375 | 108376 | 108377 | – |
| 100 | R5VX1000 Δ | 1.30 | 108378 | 108379 | 108380 | 108381 | – |
| 106 | R5VX1060 Δ | 1.35 | 108382 | 108383 | 108384 | 108385 | – |
| 112 | R5VX1120 Δ | 1.45 | 108386 | 108387 | 108388 | 108389 | – |
| 118 | R5VX1180 Δ | 1.50 | 108390 | 108391 | 108392 | 108393 | – |
| 125 | R5VX1250 Δ | 1.60 | 108394 | 108395 | 108396 | 108397 | – |
| 132 | R5VX1320 Δ | 1.70 | 108398 | 108399 | 108400 | 108401 | – |
| 140 | R5VX1400 Δ | 1.80 | 108402 | 108403 | 108404 | 108405 | 108329 |
| 150 | R5VX1500 Δ | 1.90 | 108406 | 108407 | 108408 | 108409 | – |
| 160 | R5VX1600 Δ | 2.05 | 108410 | 108411 | 108412 | 108413 | – |
| 170 | R5VX1700 Δ | 2.20 | 108414 | 108415 | 108416 | 108417 | – |
| 180 | R5VX1800 Δ | 2.30 | 108418 | 108419 | 108420 | 108421 | – |
| 190 | R5VX1900 Δ | 2.45 | 108422 | 108423 | 108424 | 108425 | – |
| 200 | R5VX2000 Δ | 2.55 | 108426 | 108427 | 108428 | 108429 | – |
| 212 | R5V2120 Δ | 2.75 | 108430 | 108431 | 108432 | 108433 | – |
| 224 | R5V2240 Δ | 2.90 | 108434 | 108435 | 108436 | 108437 | – |
| 236 | R5V2360 Δ | 3.00 | 108438 | 108439 | 108440 | 108441 | – |
| 250 | R5V2500 Δ | 3.20 | 108442 | 108443 | 108444 | 108445 | – |
| 265 | R5V2650 Δ | 3.40 | 108446 | 108447 | 108448 | 108449 | – |
| 280 | R5V2800 Δ | 3.60 | 108450 | 108451 | 108452 | 108453 | – |
| 300 | R5V3000 Δ | 3.85 | 108454 | 108455 | 108456 | 108457 | – |
| 315 | R5V3150 Δ | 4.05 | 108458 | 108459 | 108460 | 108461 | – |
| 335 | R5V3350 Δ | 4.35 | 108462 | 108463 | 108464 | 108465 | – |
| 355 | R5V3550 Δ | 4.70 | 108466 | 108467 | 108468 | 108469 | – |

FOR 8V BELTS SEE NEXT PAGE

Δ Outside circumference in inches

# Selection



**8V POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)**

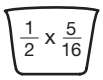
| Lgth. Δ | Belt No. | Wgt. Per Band | 2-BAND P/N | 3-BAND P/N | 4-BAND P/N | 5-BAND P/N | 6-BAND P/N |
|---|---|---|---|---|---|---|---|
| 100 | R8V1000 Δ | 3.3 | – | – | – | – | – |
| 106 | R8V1060 Δ | 3.50 | **108486** | – | – | – | – |
| 112 | R8V1120 Δ | 3.70 | **108489** | **108490** | **108491** | **108492** | – |
| 118 | R8V1180 Δ | 3.80 | **108493** | **108494** | **108495** | **108496** | – |
| 125 | R8V1250 Δ | 4.15 | **108498** | **108499** | **108500** | **108501** | – |
| 132 | R8V1320 Δ | 4.35 | **108502** | **108503** | **108504** | **108505** | – |
| 140 | R8V1400 Δ | 4.65 | **108507** | **108508** | **108509** | **108510** | – |
| 150 | R8V1500 Δ | 5.00 | **108511** | **108512** | **108513** | **108514** | – |
| 160 | R8V1600 Δ | 5.35 | **108515** | **108516** | **108517** | **108518** | – |
| 170 | R8V1700 Δ | 5.70 | **108519** | **108520** | **108521** | **108522** | – |
| 180 | R8V1800 Δ | 6.00 | **108524** | **108525** | **108526** | **108527** | – |
| 190 | R8V1900 Δ | 6.35 | **108528** | **108529** | **108530** | **108531** | – |
| 200 | R8V2000 Δ | 6.70 | **108533** | **108534** | **108535** | **108536** | – |
| 212 | R8V2120 Δ | 7.10 | **108537** | **108538** | **108539** | **108540** | **108326** |
| 224 | R8V2240 Δ | 7.50 | **108542** | **108543** | **108544** | **108545** | – |
| 236 | R8V2360 Δ | 7.90 | **108546** | **108547** | **108548** | **108549** | – |
| 250 | R8V2500 Δ | 8.40 | **108550** | **108551** | **108552** | **108553** | – |
| 265 | R8V2650 Δ | 8.90 | **108554** | **108555** | **108556** | **108557** | – |
| 280 | R8V2800 Δ | 9.14 | **108559** | **108560** | **108561** | **108562** | – |
| 300 | R8V3000 Δ | 10.10 | **108563** | **108564** | **108565** | **108566** | **108558** |
| 315 | R8V3150 Δ | 10.60 | **108567** | **108568** | **108569** | **108570** | – |
| 335 | R8V3350 Δ | 11.30 | **108571** | **108572** | **108573** | **108574** | – |
| 355 | R8V3550 Δ | 12.00 | **108576** | **108577** | **108578** | **108579** | – |
| 375 | R8V3750 Δ | 12.65 | **108580** | **108581** | **108582** | **108583** | – |
| 400 | R8V4000 Δ | 13.50 | **108585** | **108586** | **108587** | **108588** | – |
| 425 | R8V4250 Δ | 14.35 | **108589** | **108590** | **108591** | **108592** | – |
| 450 | R8V4500 Δ | 15.20 | **108594** | **108595** | **108596** | **108597** | – |
| 475 | R8V4750 Δ | 16.05 | **108470** | **108471** | **108472** | **108473** | – |
| 500 | R8V5000 Δ | 16.90 | **108474** | **108475** | **108476** | **108477** | – |
| 560 | R8V5600 Δ | 18.90 | **108478** | **108479** | **108484** | **108488** | – |
| 600 | R8V6000 Δ | 20.25 | – | – | – | – | – |

Δ Outside circumference in inches

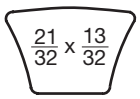
# Selection

## S-L Classic Belts

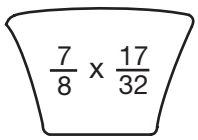
- Premium Performance at Standard Prices.
- Cool Running and Flexible.
- Strong Tensile Cords Remove Excess Stretch.
- Static Conducting and Heat and Oil Resistant.
- Matched to MPTA/RMA Standards - No additional matching or Match Codes required.



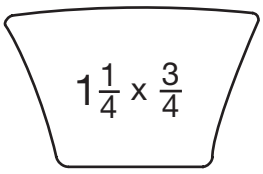

A



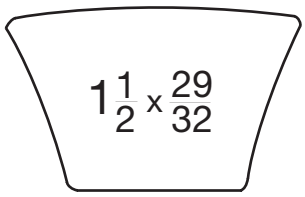

B




C




D




E

| Belt No. | Part No. | Wt. | Datum Lgth. Δ | Belt No. | Part No. | Wt. | Datum Lgth. Δ | Belt No. | Part No. | Wt. | Datum Lgth. Δ | Belt No. | Part No. | Wt. | Datum Lgth. Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A21 | – | 0.14 | 22.3 | A44 | **107324** | 0.30 | 45.3 | A67 | **107388** | 0.44 | 68.3 | A89 | **107922** | 0.57 | 90.3 |
| A22 | **107908** | 0.15 | 23.3 | A45 | **107329** | 0.32 | 46.3 | A68 | **107016** | 0.80 | 69.3 | A90 | **107022** | 0.57 | 91.3 |
| A23 | – | 0.16 | 24.3 | A46 | **107007** | 0.31 | 47.3 | A69 | **107913** | 0.44 | 70.3 | A91 | **107923** | 0.57 | 92.3 |
| A24 | **107910** | 0.17 | 25.3 | A47 | **107330** | 0.34 | 48.3 | A70 | **107252** | 0.46 | 71.3 | A92 | **107277** | 0.58 | 93.3 |
| A25 | – | 0.18 | 26.3 | A48 | **107008** | 0.34 | 49.3 | A71 | **107017** | 0.46 | 72.3 | A93 | **107430** | 0.58 | 94.3 |
| A26 | **107001** | 0.20 | 27.9 | A49 | **107272** | 0.34 | 50.3 | A72 | **107914** | 0.48 | 73.3 | A94 | **107924** | 0.60 | 95.3 |
| A27 | **107417** | 0.19 | 28.3 | A50 | **107331** | 0.35 | 51.3 | A73 | **107915** | 0.48 | 74.3 | A95 | **107925** | 0.62 | 96.3 |
| A28 | **107320** | 0.21 | 29.3 | A51 | **107009** | 0.36 | 52.3 | A74 | **107343** | 0.48 | 75.3 | A96 | **107023** | 0.65 | 97.3 |
| A29 | **107418** | 0.21 | 30.3 | A52 | **107332** | 0.38 | 53.3 | A75 | **107018** | 0.48 | 76.3 | A97 | **107926** | 0.65 | 98.3 |
| A30 | **107321** | 0.23 | 31.3 | A53 | **107010** | 0.37 | 54.3 | A76 | **107420** | 0.47 | 77.3 | A98 | **107431** | 0.70 | 99.3 |
| A31 | **107002** | 0.24 | 32.3 | A54 | **107250** | 0.38 | 55.3 | A77 | **107916** | 0.50 | 78.3 | A100 | **107346** | 0.67 | 101.3 |
| A32 | **107322** | 0.24 | 33.3 | A55 | **107011** | 0.38 | 56.3 | A78 | **107019** | 0.51 | 79.3 | A103 | – | 0.68 | 104.3 |
| A33 | **107003** | 0.25 | 34.3 | A56 | **107251** | 0.37 | 57.3 | A79 | **107917** | 0.52 | 80.3 | A105 | **107024** | 0.68 | 106.3 |
| A34 | **107278** | 0.26 | 35.3 | A57 | **107273** | 0.40 | 58.3 | A80 | **107020** | 0.51 | 81.3 | A110 | **107253** | 0.70 | 111.3 |
| A35 | **107004** | 0.26 | 36.3 | A58 | **107274** | 0.40 | 59.3 | A81 | **107276** | 0.52 | 82.3 | A112 | **107025** | 0.74 | 113.3 |
| A36 | **107270** | 0.27 | 37.3 | A59 | **107912** | 0.40 | 60.3 | A82 | **107918** | 0.55 | 83.3 | A120 | **107026** | 0.75 | 121.3 |
| A37 | **107129** | 0.27 | 38.3 | A60 | **107012** | 0.41 | 61.3 | A83 | **107344** | 0.50 | 84.3 | A128 | **107027** | 0.85 | 129.3 |
| A38 | **107005** | 0.26 | 39.3 | A61 | **107333** | 0.41 | 62.3 | A84 | **107919** | 0.53 | 85.3 | A136 | **107028** | 0.84 | 137.3 |
| A39 | **107323** | 0.29 | 40.3 | A62 | **107013** | 0.66 | 63.3 | A85 | **107021** | 0.55 | 86.3 | A144 | **107029** | 1.00 | 145.3 |
| A40 | **107271** | 0.29 | 41.3 | A63 | **107387** | 0.40 | 64.3 | A86 | **107920** | 0.56 | 87.3 | A158 | **107254** | 1.10 | 159.3 |
| A41 | **107419** | 0.29 | 42.3 | A64 | **107014** | 0.41 | 65.3 | A87 | **107921** | 0.58 | 88.3 | A173 | **107255** | 1.20 | 174.3 |
| A42 | **107006** | 0.27 | 43.3 | A65 | **107122** | 0.42 | 66.3 | A88 | **107345** | 0.60 | 89.3 | A180 | **107256** | 1.20 | 181.3 |
| A43 | **107249** | 0.31 | 44.3 | A66 | **107015** | 0.43 | 67.3 | – | – | – | – | – | – | – | – |

Δ Datum Length in inches

# Selection

## S-L Classic Belts



### B, C, D, E S-L Classic Belts

| Belt No. | Part No. | Wt. | Datum Lgth. Δ | Belt No. | Part No. | Wt. | Datum Lgth. Δ | Belt No. | Part No. | Wt. | Datum Lgth. Δ | Belt No. | Part No. | Wt. | Datum Lgth. Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B-Belts** | | | | **B-Belts (Con't)** | | | | **B-Belts (Con't)** | | | | **C-Belts (Con't)** | | | |
| B25 | – | 0.28 | 26.8 | B78 | **107046** | 0.74 | 79.8 | B205 | **107353** | 2.00 | 206.8 | C330 | **107096** | 6.00 | 330.9 |
| B26 | – | 0.29 | 27.8 | B79 | **107257** | 0.80 | 80.8 | B210 | **107065** | 2.07 | 211.8 | C345 | **107097** | 6.30 | 345.9 |
| B28 | **107932** | 0.30 | 29.8 | B80 | **107047** | 0.85 | 81.8 | B225 | **107262** | 2.21 | 225.3 | C360 | **107098** | 7.40 | 360.9 |
| B29 | **107933** | 0.29 | 30.8 | B81 | **107048** | 0.82 | 82.8 | B240 | **107066** | 2.39 | 240.3 | C390 | **107099** | 7.10 | 390.9 |
| B30 | – | 0.30 | 31.8 | B82 | **107258** | 0.84 | 83.8 | B255 | **107263** | 2.56 | 255.3 | C420 | **107269** | 8.03 | 420.9 |
| B31 | – | 0.32 | 32.8 | B83 | **107049** | 0.79 | 84.8 | B270 | **107067** | 2.75 | 270.3 | **D-BELTS** | | | |
| B32 | **107389** | 0.36 | 33.8 | B84 | **107411** | 0.81 | 85.8 | B285 | **107264** | 2.70 | 285.3 | D120 | **107100** | 4.30 | 123.3 |
| B33 | – | 0.34 | 34.8 | B85 | **107050** | 0.87 | 86.8 | B300 | **107068** | 3.40 | 300.3 | D128 | **107101** | 4.60 | 131.3 |
| B34 | **107390** | 0.34 | 35.8 | B86 | **107434** | 0.84 | 87.8 | B315 | **107265** | 3.20 | 315.3 | D144 | **107102** | 5.10 | 147.3 |
| B35 | **107030** | 0.39 | 36.8 | B87 | **107296** | 0.87 | 88.8 | **C-BELTS** | | | | D158 | **107103** | 5.58 | 161.3 |
| B36 | **107391** | 0.39 | 37.8 | B88 | **107297** | 0.87 | 89.8 | C51 | **107072** | 0.99 | 53.9 | D162 | **107104** | 5.65 | 165.3 |
| B37 | **107936** | 0.41 | 38.8 | B89 | **107938** | 0.90 | 90.8 | C55 | **107354** | 1.07 | 57.9 | D173 | **107105** | 11.00 | 176.3 |
| B38 | **107031** | 0.44 | 39.8 | B90 | **107051** | 0.94 | 91.8 | C60 | **107073** | 1.15 | 62.9 | D180 | **107106** | 6.35 | 183.3 |
| B39 | **107937** | 0.43 | 40.8 | B91 | **107939** | 0.87 | 92.8 | C68 | **107074** | 1.30 | 70.9 | D195 | **107107** | 6.90 | 198.3 |
| B40 | **107279** | 0.44 | 41.8 | B92 | **107940** | 0.90 | 93.8 | C71 | – | 1.34 | 73.9 | D210 | **107108** | 7.40 | 213.3 |
| B41 | **107280** | 0.45 | 42.8 | B93 | **107052** | 0.91 | 94.8 | C72 | **107699** | 1.36 | 74.9 | D225 | **107146** | 7.90 | 225.8 |
| B42 | **107032** | 0.44 | 43.8 | B94 | **107941** | 0.93 | 95.8 | C75 | **107075** | 1.42 | 77.9 | D240 | **107109** | 8.49 | 240.8 |
| B43 | **107349** | 0.46 | 44.8 | B95 | **107259** | 0.95 | 96.8 | C78 | **107124** | 1.49 | 80.9 | D255 | **107148** | 8.90 | 255.8 |
| B44 | **107281** | 0.50 | 45.8 | B96 | **107260** | 0.96 | 97.8 | C81 | **107076** | 1.50 | 83.9 | D270 | **107110** | 8.90 | 270.8 |
| B45 | **107433** | 0.48 | 46.8 | B97 | **107053** | 0.95 | 98.8 | C85 | **107077** | 1.65 | 87.9 | D285 | **107149** | 9.90 | 285.8 |
| B46 | **107033** | 0.49 | 47.8 | B98 | – | 0.96 | 99.8 | C90 | **107078** | 1.64 | 92.9 | D300 | **107111** | 10.30 | 300.8 |
| B47 | **107408** | 0.52 | 48.8 | B99 | **107128** | 0.99 | 100.8 | C96 | **107079** | 1.82 | 98.9 | D315 | **107112** | 11.00 | 315.8 |
| B48 | **107034** | 0.51 | 49.8 | B100 | **107069** | 1.02 | 101.8 | C97 | **107356** | 1.83 | 99.9 | D330 | **107113** | 11.50 | 330.8 |
| B49 | **107350** | 0.53 | 50.8 | B101 | – | 1.06 | 102.8 | C99 | **107361** | 1.86 | 101.9 | D345 | **107114** | 12.00 | 345.8 |
| B50 | **107282** | 0.54 | 51.8 | B103 | **107054** | 1.07 | 104.8 | C100 | **107126** | 1.88 | 102.9 | D360 | **107115** | 12.76 | 360.8 |
| B51 | **107035** | 0.51 | 52.8 | B105 | **107055** | 1.07 | 106.8 | C101 | – | 1.89 | 103.9 | D390 | **107116** | 13.60 | 390.8 |
| B52 | **107283** | 0.55 | 53.8 | B106 | – | 1.08 | 107.8 | C105 | **107080** | 1.90 | 107.9 | D420 | **107117** | 14.70 | 420.8 |
| B53 | **107036** | 0.57 | 54.8 | B108 | **107298** | 1.08 | 109.8 | C108 | **107363** | 1.90 | 110.9 | D450 | **107373** | 15.70 | 450.8 |
| B54 | **107284** | 0.59 | 55.8 | B111 | – | 1.15 | 112.8 | C109 | **107123** | 2.02 | 111.9 | D480 | **107118** | 16.80 | 480.8 |
| B55 | **107037** | 0.59 | 56.8 | B112 | **107056** | 1.14 | 113.8 | C111 | **107365** | 2.10 | 113.9 | D540 | **107119** | 18.90 | 540.8 |
| B56 | **107285** | 0.59 | 57.8 | B116 | **107412** | 1.18 | 117.8 | C112 | **107081** | 2.13 | 114.9 | D600 | **107120** | 20.90 | 600.8 |
| B57 | **107286** | 0.59 | 58.8 | B118 | – | 1.18 | 119.8 | C115 | **107364** | 2.26 | 117.9 | D660 | **107070** | 23.00 | 660.8 |
| B58 | **107287** | 0.61 | 59.8 | B120 | **107057** | 1.18 | 121.8 | C120 | **107082** | 2.22 | 122.9 | **E-BELTS◊** | | | |
| B59 | **107288** | 0.59 | 60.8 | B123 | – | 1.25 | 124.8 | C124 | **107127** | 2.42 | 126.9 | E144 | – | 8.00 | 148.5 |
| B60 | **107038** | 0.60 | 61.8 | B124 | **107299** | 1.26 | 125.8 | C128 | **107083** | 2.35 | 130.9 | E180 | **107131** | 9.40 | 184.5 |
| B61 | **107289** | 0.61 | 62.8 | B126 | – | 1.25 | 127.8 | C136 | **107084** | 2.56 | 138.9 | E195 | **107132** | 10.10 | 199.5 |
| B62 | **107039** | 0.62 | 63.8 | B128 | **107058** | 1.28 | 129.8 | C144 | **107085** | 2.64 | 146.9 | E210 | **107133** | 10.90 | 214.5 |
| B63 | **107290** | 0.63 | 64.8 | B130 | – | 1.35 | 131.8 | C148 | – | 2.80 | 150.9 | E225 | – | 12.10 | 229.5 |
| B64 | **107040** | 0.64 | 65.8 | B133 | **107261** | 1.38 | 134.8 | C150 | **107957** | 2.82 | 152.9 | E240 | **107135** | 12.20 | 241.5 |
| B65 | **107041** | 0.65 | 66.8 | B136 | **107059** | 1.34 | 137.8 | C158 | **107086** | 3.01 | 160.9 | E270 | – | 14.50 | 271.5 |
| B66 | **107042** | 0.66 | 67.8 | B140 | – | 1.43 | 141.8 | C162 | **107087** | 3.09 | 164.9 | E300 | **107137** | 15.30 | 301.0 |
| B67 | **107291** | 0.69 | 68.8 | B144 | **107060** | 1.45 | 145.8 | C173 | **107088** | 3.39 | 175.9 | E330 | **107138** | 16.80 | 331.0 |
| B68 | **107043** | 0.67 | 69.8 | B148 | **107351** | 1.39 | 149.8 | C180 | **107089** | 3.47 | 182.9 | E360 | **107139** | 18.30 | 361.0 |
| B69 | **107409** | 0.70 | 70.8 | B150 | **107000** | 1.49 | 151.8 | C195 | **107090** | 3.65 | 197.9 | E390 | **107140** | 19.80 | 391.0 |
| B70 | **107275** | 0.72 | 71.8 | B154 | – | 1.54 | 155.8 | C210 | **107091** | 8.03 | 212.9 | E420 | **107141** | 21.40 | 421.0 |
| B71 | **107044** | 0.69 | 72.8 | B158 | **107061** | 1.55 | 159.8 | C225 | **107266** | 4.16 | 225.9 | E480 | **107142** | 27.00 | 481.0 |
| B72 | **107292** | 0.73 | 73.8 | B162 | **107125** | 1.58 | 163.8 | C240 | **107092** | 4.31 | 240.9 | E540 | **107143** | 30.00 | 541.0 |
| B73 | **107293** | 0.73 | 74.8 | B173 | **107062** | 1.69 | 174.8 | C255 | **107267** | 4.70 | 255.9 | E600 | **107144** | 34.00 | 601.0 |
| B74 | **107294** | 0.73 | 75.8 | B180 | **107063** | 1.72 | 181.8 | C270 | **107093** | 5.03 | 270.9 | E660 | **107174** | 36.00 | 661.0 |
| B75 | **107045** | 0.78 | 76.8 | B190 | **107352** | 1.85 | 191.8 | C285 | **107268** | 5.20 | 285.9 | | | | |
| B76 | **107410** | 0.76 | 77.8 | B191 | – | 1.95 | 192.8 | C300 | **107094** | 5.50 | 300.9 | Δ Datum Length in inches | | | |
| B77 | **107295** | 0.76 | 78.8 | B195 | **107064** | 2.00 | 196.8 | C315 | **107095** | 5.80 | 315.9 | | | | |

◊ E-BELTS: Recommended for Replacement Only - Not for New Drives (Use 8V Belts)

# Selection

## S-L Classic Banded Belts

**B POLYBAND Classic Belts (2, 3, 4 and 5 Bands)**

| Datum Lgth. Δ | Belt. No. | Wgt. per Band | 2-Band P/N | 3-Band P/N | 4-Band P/N | 5-Band P/N |
|---|---|---|---|---|---|---|
| 36.8 | RB35 Δ | 0.50 | – | – | – | – |
| 39.8 | RB38 Δ | 0.55 | – | – | – | – |
| 41.8 | RB40 Δ | 0.55 | – | – | – | – |
| 42.8 | RB41 Δ | 0.55 | – | – | – | – |
| 43.8 | RB42 Δ | 0.60 | **107308** | **107309** | **107310** | **107311** |
| 44.8 | RB43 Δ | 0.60 | **107421** | **107451** | **107452** | **107453** |
| 45.8 | RB44 Δ | 0.60 | – | – | – | – |
| 47.8 | RB46 Δ | 0.65 | **107312** | **107313** | **107314** | **107315** |
| 49.8 | RB48 Δ | 0.65 | **107316** | **107317** | **107318** | **107319** |
| 50.8 | RB49 Δ | 0.70 | – | – | – | – |
| 51.8 | RB50 Δ | 0.70 | **107454** | **107455** | **107464** | **107465** |
| 52.8 | RB51 Δ | 0.70 | **107325** | **107326** | **107327** | **107328** |
| 53.8 | RB52 Δ | 0.70 | **107466** | **107467** | **107468** | **107481** |
| 54.8 | RB53 Δ | 0.75 | **107334** | **107335** | **107336** | **107337** |
| 55.8 | RB54 Δ | 0.75 | **107482** | **107483** | **107484** | **107485** |
| 56.8 | RB55 Δ | 0.75 | **107338** | **107339** | **107340** | **107341** |
| 57.8 | RB56 Δ | 0.75 | **107494** | **107495** | **107496** | **107497** |
| 58.8 | RB57 Δ | 0.80 | **107498** | **107503** | **107504** | **107505** |
| 59.8 | RB58 Δ | 0.80 | **107506** | **107507** | **107520** | **107521** |
| 60.8 | RB59 Δ | 0.80 | **107522** | **107523** | **107524** | **107541** |
| 61.8 | RB60 Δ | 0.85 | **107357** | **107358** | **107359** | **107360** |
| 62.8 | RB61 Δ | 0.85 | **107542** | **107543** | **107544** | **107545** |
| 63.8 | RB62 Δ | 0.85 | **107366** | **107367** | **107368** | **107369** |
| 64.8 | RB63 Δ | 0.85 | **107550** | **107551** | **107552** | **107553** |
| 65.8 | RB64 Δ | 0.90 | **107375** | **107376** | **107377** | **107378** |
| 66.8 | RB65 Δ | 0.90 | **107379** | **107380** | **107381** | **107382** |
| 67.8 | RB66 Δ | 0.90 | **107383** | **107384** | **107385** | **107386** |
| 68.8 | RB67 Δ | 0.90 | **107554** | **107563** | **107564** | **107565** |
| 69.8 | RB68 Δ | 0.90 | **107392** | **107393** | **107394** | **107395** |
| 71.8 | RB70 Δ | 0.95 | **107396** | **107397** | **107398** | **107399** |
| 72.8 | RB71 Δ | 0.95 | **107400** | **107401** | **107402** | **107403** |
| 73.8 | RB72 Δ | 1.00 | **107566** | **107567** | **107568** | **107569** |
| 74.8 | RB73 Δ | 1.00 | **107660** | **107651** | **107652** | **107653** |
| 75.8 | RB74 Δ | 1.00 | **107654** | **107659** | **107660** | **107661** |
| 75.8 | RB75 Δ | 1.00 | **107404** | **107405** | **107406** | **107407** |
| 78.8 | RB77 Δ | 1.05 | **107662** | **107663** | **107668** | **107669** |
| 79.8 | RB78 Δ | 1.05 | **107413** | **107414** | **107415** | **107416** |
| 80.8 | RB79 Δ | 1.10 | **107670** | **107671** | **107672** | **107677** |
| 81.8 | RB80 Δ | 1.10 | **107422** | **107423** | **107424** | **107425** |
| 82.8 | RB81 Δ | 1.10 | **107426** | **107427** | **107428** | **107429** |
| 83.8 | RB82 Δ | 1.10 | **107678** | **107894** | **107895** | **107896** |
| 84.8 | RB83 Δ | 1.15 | **107435** | **107436** | **107437** | **107438** |
| 86.8 | RB85 Δ | 1.15 | **107439** | **107440** | **107441** | **107442** |
| 88.8 | RB87 Δ | 1.20 | **107897** | **107898** | **107899** | **107942** |
| 89.8 | RB88 Δ | 1.20 | **107943** | **107944** | **107948** | **107949** |
| 91.8 | RB90 Δ | 1.20 | **107443** | **107444** | **107445** | **107446** |
| 94.8 | RB93 Δ | 1.25 | **107447** | **107448** | **107449** | **107450** |
| 96.8 | RB95 Δ | 1.30 | **107950** | **107951** | **107952** | **107953** |
| 97.8 | RB96 Δ | 1.30 | **107456** | **107457** | **107458** | **107459** |
| 98.8 | RB97 Δ | 1.30 | **107460** | **107461** | **107462** | **107463** |

Δ Datum Length in inches

# Selection

## S-L Classic Banded Belts



**B POLYBAND Classic Belts (2, 3, 4 and 5 Bands) (Cont'd)**

| Datum Lgth. Δ | Belt. No. | Wgt. per Band | 2-Band P/N | 3-Band P/N | 4-Band P/N | 5-Band P/N |
|---|---|---|---|---|---|---|
| 100.8 | RB99 Δ | 1.35 | **107954** | **107955** | **107956** | **107979** |
| 101.8 | RB100 Δ | 1.35 | **107469** | **107470** | **107471** | **107472** |
| 104.8 | RB103 Δ | 1.40 | **107473** | **107474** | **107475** | **107476** |
| 106.8 | RB105 Δ | 1.45 | **107477** | **107478** | **107479** | **107480** |
| 109.8 | RB108 Δ | 1.45 | **107980** | **107981** | **107982** | **107983** |
| 113.8 | RB112 Δ | 1.50 | **107486** | **107487** | **107488** | **107489** |
| 121.8 | RB120 Δ | 1.65 | **107490** | **107491** | **107492** | **107493** |
| 125.8 | RB124 Δ | 1.70 | **107984** | **107985** | **107986** | **107987** |
| 129.8 | RB128 Δ | 1.75 | **107499** | **107500** | **107501** | **107502** |
| 134.8 | RB133 Δ | 1.80 | **107988** | **107989** | **107990** | **107991** |
| 137.8 | RB136 Δ | 1.85 | **107508** | **107509** | **107510** | **107511** |
| 145.8 | RB144 Δ | 1.95 | **107512** | **107513** | **107514** | **107515** |
| 149.8 | RB148 Δ | 2.00 | **107992** | **107993** | **107994** | **107995** |
| 159.8 | RB158 Δ | 2.15 | **107516** | **107517** | **107518** | **107519** |
| 163.8 | RB162 Δ | 2.20 | **107996** | **107997** | **107998** | **108765** |
| 174.8 | RB173 Δ | 2.35 | **107525** | **107526** | **107527** | **107528** |
| 181.8 | RB180 Δ | 2.45 | **107529** | **107530** | **107531** | **107532** |
| 196.8 | RB195 Δ | 2.65 | **107533** | **107534** | **107535** | **107536** |
| 211.8 | RB210 Δ | 2.85 | **107537** | **107538** | **107539** | **107540** |
| 225.3 | RB225 Δ | 3.00 | **108766** | **108767** | **108768** | **108769** |
| 240.3 | RB240 Δ | 3.20 | **107546** | **107547** | **107548** | **107549** |
| 255.3 | RB255 Δ | 3.40 | **108770** | **108771** | **108772** | **108773** |
| 270.3 | RB270 Δ | 3.60 | **107555** | **107556** | **107557** | **107558** |
| 285.3 | RB285 Δ | 3.80 | – | – | – | – |
| 300.3 | RB300 Δ | 4.00 | **107559** | **107560** | **107561** | **107562** |
| 315.3 | RB315 Δ | 4.20 | **108774** | **108775** | **108776** | **108777** |

# Selection

## S-L Classic Banded Belts

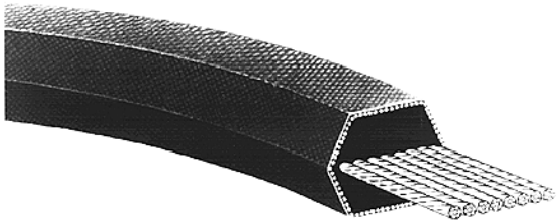
**C POLYBAND Classic Belts (2, 3, 4 and 5 Bands)**

| Datum Lgth. Δ | Belt. No. | Wgt. per Band | 2-Band P/N | 3-Band P/N | 4-Band P/N | 5-Band P/N |
|---|---|---|---|---|---|---|
| 53.9 | RC51 Δ | 1.20 | – | – | – | – |
| 57.9 | RC55 Δ | 1.30 | – | – | – | – |
| 62.9 | RC60 Δ | 1.40 | **107574** | **107575** | **107576** | **107577** |
| 70.9 | RC68 Δ | 1.55 | **107578** | **107579** | **107580** | **107581** |
| 73.9 | RC71 Δ | 1.65 | – | – | – | – |
| 77.9 | RC75 Δ | 1.70 | **107582** | **107583** | **107584** | **107585** |
| 83.9 | RC81 Δ | 1.85 | **107586** | **107587** | **107588** | **107589** |
| 87.9 | RC85 Δ | 1.95 | **107590** | **107591** | **107592** | **107593** |
| 92.9 | RC90 Δ | 2.05 | **107594** | **107595** | **107596** | **107597** |
| 98.9 | RC96 Δ | 2.20 | **107598** | **107599** | **107600** | **107601** |
| 99.9 | RC97 Δ | 2.20 | – | – | – | – |
| 101.9 | RC99 Δ | 2.25 | **108778** | **108779** | **108780** | **108781** |
| 102.9 | RC100 Δ | 2.30 | – | – | – | – |
| 107.9 | RC105 Δ | 2.40 | **107602** | **107603** | **107604** | **107605** |
| 110.9 | RC108 Δ | 2.45 | **108782** | **108783** | **108784** | **108785** |
| 111.9 | RC109 Δ | 2.50 | **108786** | **108787** | **108788** | **108789** |
| 114.9 | RC112 Δ | 2.55 | **107606** | **107607** | **107608** | **107609** |
| 122.9 | RC120 Δ | 2.70 | **107610** | **107611** | **107612** | **107613** |
| 126.9 | RC124 Δ | 2.80 | **108790** | **108791** | **108792** | **108793** |
| 130.9 | RC128 Δ | 2.80 | **107614** | **107615** | **107616** | **107617** |
| 138.9 | RC136 Δ | 3.05 | **107618** | **107619** | **107620** | **107621** |
| 146.9 | RC144 Δ | 3.25 | **107622** | **107623** | **107624** | **107625** |
| 160.9 | RC158 Δ | 3.55 | **107626** | **107627** | **107628** | **107629** |
| 164.9 | RC162 Δ | 3.65 | **107630** | **107631** | **107632** | **107633** |
| 175.9 | RC173 Δ | 3.90 | **107634** | **107635** | **107636** | **107637** |
| 182.9 | RC180 Δ | 4.05 | **107638** | **107639** | **107640** | **107641** |
| 197.9 | RC195 Δ | 4.40 | **107642** | **107643** | **107644** | **107645** |
| 212.9 | RC210 Δ | 4.70 | **107646** | **107647** | **107648** | **107649** |
| 225.9 | RC225 Δ | 5.00 | **107679** | **107680** | **107681** | **107682** |
| 240.9 | RC240 Δ | 5.35 | **107655** | **107656** | **107657** | **107658** |
| 255.9 | RC255 Δ | 5.65 | **107684** | **107685** | **107686** | **107687** |
| 270.9 | RC270 Δ | 6.00 | **107664** | **107665** | **107666** | **107667** |
| 285.9 | RC285 Δ | 6.35 | **107689** | **107690** | **107691** | **107692** |
| 300.9 | RC300 Δ | 6.65 | **107673** | **107674** | **107675** | **107676** |
| 315.9 | RC315 Δ | 7.00 | **108794** | **108795** | **108796** | **108797** |
| 330.9 | RC330 Δ | 7.35 | **108798** | **108799** | **108876** | **108877** |
| 345.9 | RC345 Δ | 7.65 | **108878** | **108879** | **108880** | **108881** |
| 360.9 | RC360 Δ | 8.00 | **108882** | **108883** | **108884** | **108885** |
| 390.9 | RC390 Δ | 8.65 | **108886** | **108887** | **108888** | **108889** |
| 420.9 | RC420 Δ | 9.35 | **108890** | **108891** | **108892** | **108893** |

Δ Datum Length in inches

# Selection

## Double-V (Hex) Belts



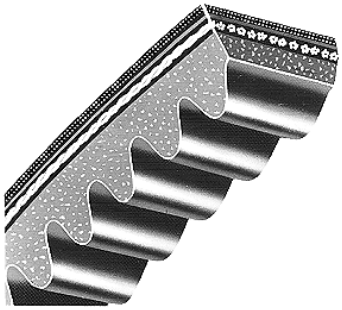
- For Serpentine Drives
- Static Conducting
- Oil Resistant

### AA, BB, CC, Double-V (Hex) Belts

| Belt No. | Part No. | Wt. | Datum Lgth. | Belt No. | Part No. | Wt. | Datum Lgth. | Belt No. | Part No. | Wt. | Datum Lgth. | Belt No. | Part No. | Wt. | Datum Lgth. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AA BELTS** | | | | **BB BELTS (CON'T.)** | | | | **BB BELTS (CON'T.)** | | | | **CC BELTS** | | | |
| AA51 | **109125** | 0.50 | 53.1 | BB73 | **109209** | 3.30 | 75.9 | BB140 | **109223** | 2.00 | 142.9 | CC75 | **109235** | 1.72 | 79.2 |
| AA55 | **109087** | 0.60 | 57.1 | BB74 | **109210** | 1.20 | 76.9 | BB144 | **109091** | 2.00 | 146.9 | CC81 | **109153** | 1.80 | 85.2 |
| AA60 | **109126** | 0.50 | 62.1 | BB75 | **109138** | 1.00 | 77.9 | BB155 | **109202** | 2.00 | 157.9 | CC85 | **109154** | 1.90 | 89.5 |
| AA62 | – | 0.50 | 64.1 | BB76 | – | 1.00 | 78.9 | BB157 | – | 2.10 | 159.9 | CC90 | **109155** | 2.00 | 94.2 |
| AA64 | **109120** | 0.70 | 66.1 | BB77 | – | 1.10 | 79.9 | BB158 | **109092** | 2.10 | 160.9 | CC96 | **109156** | 2.20 | 100.2 |
| AA66 | **109121** | 0.70 | 68.1 | BB81 | **109139** | 1.10 | 83.9 | BB160 | – | 2.20 | 162.9 | CC105 | **109157** | 2.40 | 109.2 |
| AA68 | **109127** | 0.50 | 70.1 | BB83 | **109211** | 1.10 | 85.9 | BB162 | – | 2.20 | 164.9 | CC112 | **109158** | 2.50 | 116.2 |
| AA70 | **109122** | 0.70 | 72.1 | BB85 | **109140** | 1.20 | 87.9 | BB168 | – | 2.30 | 170.9 | CC119 | – | 2.60 | 123.2 |
| AA75 | **109128** | 0.60 | 77.1 | BB89 | – | 1.20 | 91.9 | BB169 | – | 2.30 | 171.9 | CC120 | **109159** | 2.70 | 124.2 |
| AA78 | **109123** | 0.90 | 80.1 | BB90 | **109141** | 1.20 | 92.9 | BB170 | – | 2.30 | 172.9 | CC128 | **109160** | 2.90 | 132.2 |
| AA80 | **109129** | 0.60 | 82.1 | BB92 | **109197** | 1.20 | 94.9 | BB173 | **109093** | 2.30 | 175.9 | CC136 | **109236** | 3.26 | 140.2 |
| AA85 | **109130** | 0.71 | 87.1 | BB93 | **109198** | 1.20 | 95.9 | BB180 | **109094** | 2.40 | 182.9 | CC144 | **109161** | 3.20 | 148.2 |
| AA90 | **109131** | 0.80 | 92.1 | BB94 | **109199** | 1.20 | 96.9 | BB182 | – | 2.40 | 184.9 | CC148 | **109237** | 3.54 | 152.2 |
| AA92 | – | 0.80 | 94.1 | BB96 | – | 1.30 | 98.9 | BB190 | – | 2.60 | 192.9 | CC158 | **109162** | 3.50 | 162.2 |
| AA96 | **109132** | 0.80 | 98.1 | BB97 | **109142** | 1.30 | 99.9 | BB195 | **109148** | 2.60 | 197.9 | CC162 | **109163** | 3.80 | 166.2 |
| AA105 | **109133** | 0.90 | 107.1 | BB103 | **109213** | 1.66 | 105.9 | BB210 | **109149** | 2.60 | 212.9 | CC173 | **109164** | 3.80 | 177.2 |
| AA112 | **109134** | 0.80 | 114.1 | BB105 | **109143** | 1.40 | 107.9 | BB225 | – | 3.00 | 226.4 | CC180 | **109165** | 4.00 | 184.2 |
| AA120 | **109135** | 0.90 | 122.1 | BB107 | **109214** | 1.71 | 109.9 | BB226 | **109203** | 3.00 | 227.4 | CC195 | **109166** | 4.30 | 199.2 |
| AA128 | **109136** | 0.90 | 130.1 | BB108 | **109215** | 1.74 | 110.9 | BB228 | **109204** | 3.00 | 229.4 | CC210 | **109167** | 4.70 | 214.2 |
| **BB-BELTS** | | | | BB111 | **109200** | 1.40 | 113.9 | BB230 | **109205** | 3.10 | 231.4 | CC225 | – | 5.20 | 229.2 |
| BB42 | **109192** | 0.60 | 44.9 | BB112 | **109144** | 1.60 | 114.9 | BB240 | **109150** | 3.20 | 241.4 | CC240 | **109168** | 5.20 | 242.2 |
| BB43 | **109193** | 0.60 | 45.9 | BB116 | **109216** | 1.60 | 118.9 | BB250 | – | 3.20 | 251.4 | CC255 | – | 5.90 | 259.2 |
| BB45 | **109206** | 0.60 | 47.9 | BB117 | – | 1.60 | 119.9 | BB267 | – | 3.20 | 268.4 | CC270 | **109169** | 5.90 | 272.2 |
| BB51 | **109088** | 0.80 | 53.9 | BB118 | **109218** | 1.90 | 120.9 | BB270 | **109151** | 3.60 | 271.4 | CC300 | **109170** | 6.50 | 302.2 |
| BB53 | – | 0.80 | 55.9 | BB120 | **109145** | 1.60 | 122.9 | BB273 | – | 3.60 | 274.4 | CC330 | **109171** | 7.20 | 332.2 |
| BB54 | – | 0.80 | 56.9 | BB122 | – | 1.70 | 124.9 | BB277 | – | 3.60 | 278.4 | CC360 | **109172** | 7.80 | 362.2 |
| BB55 | **109089** | 0.80 | 57.9 | BB123 | **109219** | 1.70 | 125.9 | BB278 | – | 3.70 | 279.4 | CC390 | **109189** | 8.50 | 392.2 |
| BB60 | **109090** | 0.90 | 62.9 | BB124 | **109220** | 1.70 | 126.9 | BB285 | – | 3.90 | 286.4 | CC420 | **109188** | 9.10 | 422.2 |
| BB64 | – | 0.90 | 66.9 | BB128 | **109146** | 1.80 | 130.9 | BB300 | – | 4.00 | 301.4 | | | | |
| BB68 | **109137** | 0.90 | 70.9 | BB129 | **109221** | 1.80 | 131.9 | BB360 | – | 4.50 | 3614 | | | | |
| BB71 | **109196** | 1.00 | 73.9 | BB130 | **109222** | 1.80 | 132.9 | | | | | | | | |
| BB72 | **109208** | 1.17 | 74.9 | BB136 | **109201** | 1.80 | 138.9 | | | | | | | | |

# Selection

## Classic Cog Belts



Deliver more horsepower and last longer than conventional belts

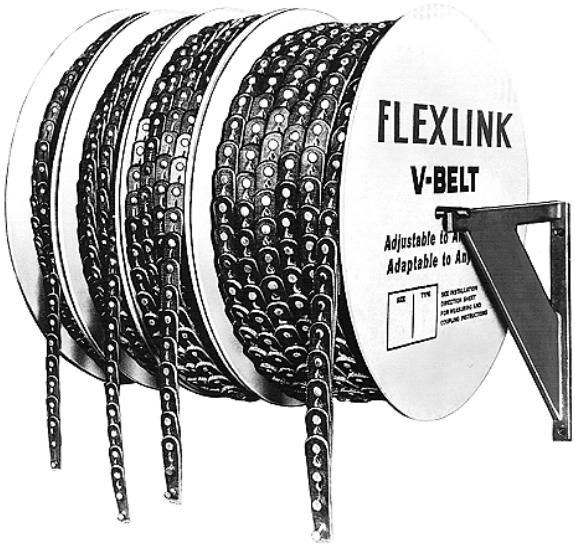
- Fully notched cogs for maximum flexibility.
- High coefficient, energy-efficient rubber edge.
- Proven energy-saving design.
- Outlast conventional belts.
- Fewer belts required - drive weight is reduced.
- Matched to MPTA/RMA Standards - No Additional matching or Match Codes Required

| Belt No. | Part No. | Wt. | Datum Lgth. | Belt No. | Part No. | Wt. | Datum Lgth. | Belt No. | Part No. | Wt. | Datum Lgth. | Belt No. | Part No. | Wt. | Datum Lgth. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AX BELTS** | | | | **AX BELTS (CON'T)** | | | | **BX-BELTS (CON'T)** | | | | **BX BELTS (CON'T)** | | | |
| AX25 | **108867** | .17 | 26.3 | AX105 | **108670** | .68 | 106.3 | BX78 | **108702** | .86 | 79.8 | **BX270** | **108735** | 2.65 | 270.3 |
| AX26 | **108640** | .18 | 27.3 | AX110 | **108671** | .71 | 111.3 | BX79 | **108703** | .87 | 80.8 | **BX300** | **108637** | 3.0 | 300.3 |
| AX27 | **108868** | .19 | 28.3 | AX112 | **108672** | .73 | 113.3 | BX80 | **108704** | .88 | 81.8 | **CX-BELTS** | | | |
| AX31 | **108641** | .21 | 32.3 | AX120 | **108673** | .74 | 121.3 | BX81 | **108705** | .89 | 82.8 | **CX51** | **108736** | 1.07 | 53.9 |
| AX32 | **108869** | .21 | 33.3 | AX128 | **108674** | .78 | 129.3 | BX82 | **108706** | .90 | 83.8 | **CX60** | **108737** | 1.24 | 62.9 |
| AX33 | **108642** | .22 | 34.3 | AX136 | **108675** | .98 | 137.3 | BX83 | **108707** | .91 | 84.8 | **CX68** | **108738** | 1.39 | 70.9 |
| AX34 | **108643** | .23 | 35.3 | **BX-BELTS** | | | | BX85 | **108708** | .93 | 86.8 | **CX75** | **108739** | 1.53 | 77.9 |
| AX35 | **108644** | .24 | 36.3 | BX35 | **108676** | .40 | 36.8 | BX90 | **108709** | .98 | 91.8 | **CX81** | **108740** | 1.64 | 83.9 |
| AX36 | **108645** | .24 | 37.3 | BX38 | **108677** | .43 | 39.8 | BX93 | **108710** | 1.01 | 94.8 | **CX85** | **108741** | 1.72 | 87.9 |
| AX37 | **108646** | .25 | 38.3 | BX42 | **108678** | .48 | 43.8 | BX95 | **108711** | 1.03 | 96.8 | **CX90** | **108742** | 1.81 | 92.9 |
| AX38 | **108647** | .26 | 39.3 | BX46 | **108679** | .52 | 47.8 | BX96 | **108712** | 1.05 | 97.8 | **CX96** | **108743** | 1.93 | 98.9 |
| AX42 | **108648** | .28 | 43.3 | BX48 | **108680** | .54 | 49.8 | BX97 | **108713** | 1.06 | 98.8 | **CX105** | **108744** | 2.10 | 107.9 |
| AX43 | **108649** | .29 | 44.3 | BX50 | **108681** | .56 | 51.8 | BX99 | **108714** | 1.08 | 100.8 | **CX109** | **108745** | 2.18 | 111.9 |
| AX46 | **108650** | .31 | 47.3 | BX51 | **108682** | .57 | 52.8 | BX100 | **108715** | 1.09 | 101.8 | **CX112** | **108746** | 2.24 | 114.9 |
| AX48 | **108651** | .32 | 49.3 | BX52 | **108683** | .58 | 53.8 | BX103 | **108716** | 1.12 | 104.8 | **CX115** | **108747** | 2.29 | 117.9 |
| AX51 | **108652** | .34 | 52.3 | BX53 | **108684** | .59 | 54.8 | BX105 | **108717** | 1.14 | 106.8 | **CX120** | **108748** | 2.39 | 122.9 |
| AX53 | **108653** | .35 | 54.3 | BX54 | **108685** | .60 | 55.8 | BX112 | **108718** | 1.21 | 113.8 | **CX128** | **108749** | 2.42 | 130.9 |
| AX54 | **108654** | .36 | 55.3 | BX55 | **108686** | .61 | 56.8 | BX113 | **108719** | 1.22 | 114.8 | **CX136** | **108750** | 2.49 | 138.9 |
| AX55 | **108655** | .36 | 56.3 | BX56 | **108687** | .62 | 57.8 | BX116 | **108720** | 1.26 | 117.8 | **CX144** | **108751** | 2.63 | 146.9 |
| AX56 | **108656** | .37 | 57.3 | BX59 | **108688** | .66 | 60.8 | BX120 | **108721** | 1.30 | 121.8 | **CX150** | **108752** | 2.74 | 152.9 |
| AX60 | **108657** | .40 | 61.3 | BX60 | **108689** | .67 | 61.8 | BX124 | **108722** | 1.26 | 125.8 | **CX158** | **108753** | 2.88 | 160.9 |
| AX62 | **108658** | .41 | 63.3 | BX61 | **108690** | .68 | 62.8 | BX128 | **108723** | 1.30 | 129.8 | **CX162** | **108754** | 2.95 | 164.9 |
| AX64 | **108659** | .42 | 65.3 | BX62 | **108691** | .69 | 63.8 | BX133 | **108724** | 1.34 | 134.8 | **CX173** | **108755** | 3.15 | 175.9 |
| AX66 | **108660** | .43 | 67.3 | BX63 | **108692** | .70 | 64.8 | BX136 | **108725** | 1.37 | 137.8 | **CX180** | **108756** | 3.27 | 182.9 |
| AX68 | **108661** | .45 | 69.3 | BX64 | **108693** | .71 | 65.8 | BX144 | **108726** | 1.45 | 145.8 | **CX195** | **108757** | 3.54 | 197.9 |
| AX70 | **108662** | .46 | 71.3 | BX65 | **108694** | .72 | 66.8 | BX150 | **108727** | 1.51 | 151.8 | **CX210** | **108758** | 3.77 | 212.9 |
| AX71 | **108663** | .47 | 72.3 | BX66 | **108695** | .73 | 67.8 | BX158 | **108728** | 1.59 | 159.8 | **CX225** | **108896** | 4.0 | 227.9 |
| AX75 | **108664** | .49 | 76.3 | BX67 | **108696** | .74 | 68.8 | BX162 | **108729** | 1.63 | 163.8 | **CX240** | **108759** | 4.30 | 240.9 |
| AX78 | **108665** | .51 | 79.3 | BX68 | **108697** | .75 | 69.8 | BX173 | **108730** | 1.74 | 174.8 | **CX270** | **108760** | 4.83 | 270.9 |
| AX80 | **108666** | .52 | 81.3 | BX70 | **108698** | .77 | 71.8 | BX180 | **108731** | 1.81 | 181.8 | **CX285** | **108638** | 4.7 | 285.9 |
| AX85 | **108667** | .55 | 86.3 | BX71 | **108699** | .78 | 72.8 | BX195 | **108732** | 1.96 | 196.8 | **CX300** | **108639** | 4.9 | 300.9 |
| AX90 | **108668** | .59 | 91.3 | BX75 | **108700** | .82 | 76.8 | BX210 | **108733** | 2.09 | 211.8 | **CX330** | **108762** | 5.3 | 330.9 |
| AX96 | **108669** | .62 | 97.3 | BX77 | **108701** | .85 | 78.8 | BX240 | **108734** | 2.36 | 240.3 | **CX360** | **108764** | 5.8 | 360.9 |

# Selection

## FLEXLINK Belting






| Belt Selection | Belt Width | Min. Recommended Sheave Pitch Dia. | Part No. Per Foot* | Wt. Per Ft. |
|---|---|---|---|---|
| 0/3L | 3/8 | 2" | **109076** | .14 |
| A/4L | 1/2 | 2" | **109084** | .15 |
| B/5L | 21/32 | 4" | **109085** | .19 |
| C | 7/8 | 6" | **109086** | .35 |

* 100 Ft reel available

### FLEXLINK Belt Application Guidelines

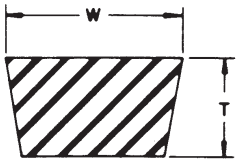
1. To obtain link belt length, multiply desired pitch length by .916. This provides correct belt length for initial run-in and seating of belt.
2. For matched sets of link belts, use the same number of links on each belt.
3. Do not use link belting above 5000 FPM belt speed.
   Belt speed = .262 x RPM x pitch diameter of sheave.
4. **Note:** Link belting is not static conducting.
   **Important -** For matched sets of link belts use same number of links on each belt.

- Fast installation, installs in a snap
- Adjustable to any length, adaptable to any drive
- Reduces vibration
- Long-lasting construction
- Reduces inventory - one reel can replace many sizes of standard belting
- Oil proof construction
- Order by the foot or by the reel.

# Selection

## FHP Belts

- Oil Resistant
- Static Conducting
- For Fractional HP Single Drive Belts
- Belt Number Indicates Pi8tch Length (eg 4L270 = 27")




| Belt Sect. | W | T |
|---|---|---|
| 3L | 3/8 | 7/32 |
| 4L | 1/2 | 5/16 |
| 5L | 21/32 | 3/8 |

### 3L, 4L, 5L FHP Belts

| Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. | Belt No. | Part No. | Wt. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **3L BELTS** | | | **3L BELTS (CON'T)** | | | **4L BELTS (CON'T.)** | | | **5L BELTS (CON'T.)** | | |
| 3L150 | **108150** | .05 | 3L620 | **108604** | .19 | 4L590 | **108043** | .32 | 5L400 | **108096** | .38 |
| 3L160 | **108151** | .05 | 3L630 | **108805** | .19 | 4L600 | **108044** | .33 | 5L410 | **108097** | .38 |
| 3L170 | **108152** | .05 | **4L BELTS** | | | 4L610 | **108045** | .33 | 5L420 | **108098** | .40 |
| 3L180 | **108153** | .06 | 4L170 | **108614** | .09 | 4L620 | **108046** | .34 | 5L430 | **108099** | .41 |
| 3L190 | **108154** | .06 | 4L180 | **108001** | .09 | 4L630 | **108047** | .35 | 5L440 | **108100** | .42 |
| 3L200 | **108155** | .06 | 4L188 | **108836** | .09 | 4L640 | **108048** | .35 | 5L450 | **108101** | .43 |
| 3L210 | **108156** | .06 | 4L190 | **108002** | .10 | 4L650 | **108049** | .36 | 5L460 | **108102** | .44 |
| 3L220 | **108157** | .07 | 4L200 | **108003** | .10 | 4L660 | **108050** | .36 | 5L470 | **108103** | .45 |
| 3L230 | **108158** | .07 | 4L210 | **108004** | .11 | 4L670 | **108051** | .37 | 5L480 | **108104** | .46 |
| 3L240 | **108159** | .07 | 4l220 | **108005** | .11 | 4L680 | **108052** | .37 | 5L490 | **108105** | .47 |
| 3L250 | **108160** | .08 | 4L230 | **108006** | .12 | 4L690 | **108053** | .38 | 5L500 | **108106** | .48 |
| 3L260 | **108161** | .08 | 4L240 | **108007** | .12 | 4L700 | **108054** | .38 | 5L510 | **108107** | .49 |
| 3L270 | **108162** | .08 | 4L250 | **108008** | .13 | 4L710 | **108055** | .39 | 5L520 | **108108** | .50 |
| 3L280 | **108163** | .09 | 4L260 | **108009** | .13 | 4L720 | **108056** | .40 | 5L530 | **108109** | .51 |
| 3L290 | **108164** | .09 | 4L270 | **108010** | .14 | 4L730 | **108057** | .40 | 5L540 | **108110** | .52 |
| 3L300 | **108165** | .09 | 4L275 | **108841** | .14 | 4L740 | **108058** | .41 | 5L550 | **108111** | .53 |
| 3L310 | **108166** | .10 | 4L280 | **108011** | .15 | 4L750 | **108059** | .41 | 5L560 | **108112** | .54 |
| 3L320 | **108167** | .10 | 4L290 | **108012** | .16 | 4L760 | **108060** | .42 | 5L570 | **108113** | .55 |
| 3L330 | **108168** | .10 | 4L300 | **108013** | .16 | 4L770 | **108061** | .42 | 5L575 | **108873** | .55 |
| 3L340 | **108169** | .10 | 4L310 | **108014** | .17 | 4L780 | **108062** | .43 | 5L580 | **108114** | .56 |
| 3L350 | **108170** | .11 | 4L320 | **108015** | .18 | 4L790 | **108063** | .43 | 5L590 | **108115** | .57 |
| 3L360 | **108171** | .11 | 4L330 | **108016** | .18 | 4L800 | **108064** | .44 | 5L600 | **108116** | .58 |
| 3L370 | **108172** | .11 | 4L340 | **108018** | .19 | 4L810 | **108615** | .44 | 5L610 | **108117** | .59 |
| 3L380 | **108173** | .12 | 4L350 | **108019** | .19 | 4L820 | **108065** | .45 | 5L620 | **108118** | .60 |
| 3L390 | **108174** | .12 | 4L360 | **108020** | .20 | 4L830 | **108616** | .46 | 5L630 | **108119** | .61 |
| 3L400 | **108175** | .12 | 4L370 | **108021** | .20 | 4L840 | **108066** | .46 | 5L640 | **108120** | .61 |
| 3L410 | **108176** | .13 | 4L380 | **108022** | .21 | 4L850 | **108617** | .47 | 5L650 | **108121** | .62 |
| 3L420 | **108177** | .13 | 4L390 | **108023** | .21 | **5L BELTS** | | | 5L660 | **108122** | .63 |
| 3L430 | **108178** | .13 | 4L400 | **108024** | .22 | 5L230 | **108625** | .21 | 5L670 | **108123** | .64 |
| 3L440 | **108179** | .14 | 4L410 | **108025** | .23 | 5L240 | **108080** | .20 | 5L680 | **108124** | .65 |
| 3L450 | **108180** | .14 | 4L420 | **108026** | .23 | 5L250 | **108081** | .20 | 5L690 | **108125** | .66 |
| 3L460 | **108181** | .14 | 4L430 | **108027** | .24 | 5L260 | **108082** | .20 | 5L700 | **108126** | .67 |
| 3L470 | **108182** | .15 | 4L440 | **108028** | .24 | 5L265 | **108070** | .21 | 5L710 | **108127** | .68 |
| 3L480 | **108183** | .15 | 4L450 | **108029** | .25 | 5L270 | **108083** | .21 | 5L720 | **108128** | .69 |
| 3L490 | **108184** | .15 | 4L460 | **108030** | .25 | 5L280 | **108084** | .22 | 5L730 | **108129** | .70 |
| 3L500 | **108185** | .15 | 4L470 | **108031** | .26 | 5L290 | **108085** | .23 | 5L740 | **108130** | .71 |
| 3L510 | **108186** | .16 | 4L480 | **108032** | .26 | 5L300 | **108086** | .24 | 5L750 | **108131** | .72 |
| 3L520 | **108187** | .16 | 4L490 | **108033** | .27 | 5L310 | **108087** | .24 | 5L760 | **108132** | .73 |
| 3L530 | **108188** | .16 | 4L500 | **108034** | .27 | 5L320 | **108088** | .25 | 5L770 | **108133** | .74 |
| 3L540 | **108189** | .17 | 4L510 | **108035** | .28 | 5L330 | **108089** | .26 | 5L780 | **108134** | .75 |
| 3L550 | **108190** | .17 | 4L520 | **108036** | .29 | 5L340 | **108090** | .27 | 5L790 | **108826** | .76 |
| 3L560 | **108191** | .17 | 4L530 | **108037** | .29 | 5L350 | **108091** | .28 | 5L800 | **108135** | .77 |
| 3L570 | **108192** | .18 | 4L540 | **108038** | .30 | 5L360 | **108092** | .28 | 5L810 | **108827** | .78 |
| 3L580 | **108193** | .18 | 4L550 | **108039** | .30 | 5L365 | **108872** | .29 | 5L820 | **108136** | .79 |
| 3L590 | **108194** | .18 | 4L560 | **108040** | .31 | 5L370 | **108093** | .29 | 5L830 | **108328** | .80 |
| 3L600 | **108195** | .19 | 4L570 | **108041** | .31 | 5L380 | **108094** | .37 | 5L840 | **108137** | .81 |
| 3L610 | **108196** | .19 | 4L580 | **108042** | .32 | 5L390 | **108095** | .37 | 5L850 | **108629** | .82 |

# Selection

## Stock D-V Wedge Drives: Standard Motor Speeds

### Step 1 - Determine Service Factor.

Refer to Typical Service Factors, Table 2. Locate type of Driven and Driver equipment. (If an idler is used, increase the factor by value indicated.) Correct factor is determined by: 1. The extent and frequency of peak loads. 2. Number of operating hours/year (broken down in average hours/day of continuous service). 3. Proper service category (Intermittent, Normal or Continuous). Select the one closest to the application conditions.

### Step 2 - Compute Design HP.

Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

### Step 3 - Choose Belt Section.

Using Table 1, below, read up from design hp figure obtained in Step 2 and over from the rpm of faster shaft. This intersection indicates belt section.

### Step 4 - Select the Drive.

**a).** Using belt section from Step 3, refer to Stock Drive Selection Tables beginning on page PT7-48.
**b).** Under appropriate driver speed column find Driven RPM nearest to the desired speed. To the right note HP per Belt. Read left for Driver/Driven Sheave information.
(If driver is an electric motor be sure motor sheave diameter is not less than shown in Table 3.)
**c).** Read onto opposite page and find figure nearest the required center distance. Note Arc-Length Correction Factor in the shaded row below the C.D. figure.
**d).** Read to the top of the table for the belt size.
**e).** To determine number of belts, multiply the HP per Belt value by the ArcLength Correction Factor. This is the corrected HP/belt. Divide design HP by corrected HP figure to determine number of belts required.

### *Example of Selection*

Select a D-V Wedge drive for a positive blower, with a 2-15/16" shaft, to run @ 290 rpm, driven by a 30 hp, 1160 squirrel cage electric motor with a 2-1/8" shaft. Desired center distance is 26". Service is continuous.

**Step 1** - Service factor from Table 2 is 1.4.

**Step 2** - Design HP = 1.4x30 = 42 HP.

**Step 3** - A 5V belt section is shown in Table 1 when reading to the right of 1160 rpm and up from 42 design HP.

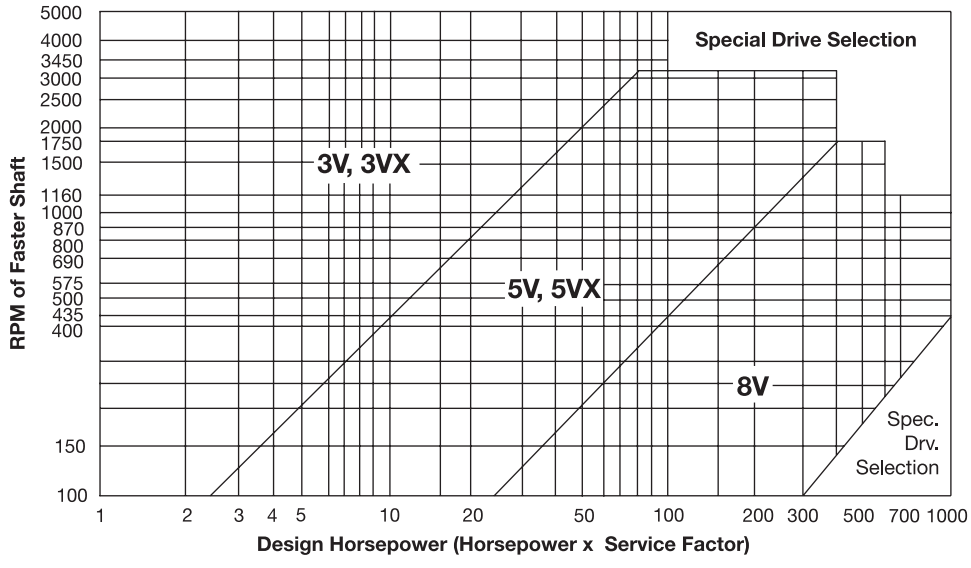
**Step 4** - Turn to 5V Stock Drive Selection Tables. On page PT7-86, under 1160 RPM Driver, read down to find 290 rpm. The nearest appears as 291.

Note HP/belt as 12.8 for all D-V and Polyband belts over 200" and 15.4 for Polyband belts under 200". Also note sheaves listed as 7.1 Driver, 28.0 Driven. Table 3 shows driver is not undersize. Reading toward the right the C.D. figure nearest 26, is 26.4. The correction factor below the C.D. figure is .92. Top of table shows belt size as 5VX 1120.

The HP/belt for D-V is 15.4. This value x the .92 factor =14.2 corrected hp/belt. 42 HP÷14.20 = 2.96. Going to the next whole number, drive requires 3 belts. (Center to center operating distance is 26.4 nominal.)

**Order:** **1.** 3-5VX 1120 D-V belts. **2.** 1 - 3/5V7.1-2517 TAPER-LOCK Sheave. **3.** 1 - 2-1/8, bore 2517 bushing. **4.** 1 - 3/5V28.0-3535 TAPER-LOCK Sheave. 5. 1 - 2-15/16, bore 3535 bushing.

### Table 1 - Narrow Cross Section Selection Chart



# Selection

## Service Factor

**Table 2 - Typical Service Factors**

| **Driven Machine Types** Note: Certain machines may require flywheel sheaves or special construction to withstand heavy shock loads. Consult Mfg'r. | **Driver: Normal Torque** NEMA Des. A or B Motors DC Shunt Wound Motors Multi-Cylinder Engines | | | **Driver: High Torque** NEMA Des. C or D Motors DC Series Wound Motors Single Cylinder Engines | | |
|---|---|---|---|---|---|---|
| | **Service*** | | | **Service*** | | |
| | Intermit. | Normal | Contin. | Intermit. | Normal | Cont. |
| Agitators for Liquids<br>Blowers and Exhausters<br>Centrif. Pumps, Compressors<br>Fans up to 10HP<br>Light Duty Conveyors | **1.0** | **1.1** | **1.2** | **1.1** | **1.2** | **1.3** |
| Belt Conveyors, Bulk Mat'l<br>Dough Mixers<br>Fans over 10 HP<br>Generators<br>Line Shafts<br>Laundry Machinery<br>Machine Tools<br>Punches, Presses, Shears<br>Printing Machinery<br>Positive Displ. Rotary Pumps<br>Revolving and Vibrating Screens | **1.1** | **1.2** | **1.3** | **1.2** | **1.3** | **1.4** |
| Brick Machinery<br>Bucket Elevators<br>Exciters<br>Piston Compressors<br>Conveyors: Drag, Pan, Screw<br>Paper Mill Beaters<br>Piston Pumps<br>Pos. Displacement Blowers<br>Pulverizers<br>Saw Mill, Woodworking Mach'y<br>Textile Machinery | **1.2** | **1.3** | **1.4** | **1.4** | **1.5** | **1.6** |
| Crushers: Gyratory, Jaw, Roll<br>Mills: Ball, Rod, Tube<br>Hoists<br>Rubber Calendars, Extruders, Mills | **1.3** | **1.4** | **1.5** | **1.6** | **1.7** | **1.8** |
| Chokable Equipment, Fire Hazard | **2.0** | **2.0** | **2.0** | **2.0** | **2.0** | **2.0** |

*** Note:**
Intermittent:
Up to 6 Hrs./Day
Normal:
6-16 Hrs./Day
Continuous:
16-24 Hrs./Day
Adder for Idlers:
Outside on slack side . . . . . 0.1
Inside on tight side . . . . . 0.1
Outside on tight side . . . . . 0.2

**Table 3 - NEMA Min. Sheave Dia. for D-V Wedge Drives**

| **Motor** | | **Motor Horsepower** | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RPM** | **Sheave** | **1/2** | **3/4** | **1** | **1-1/2** | **2** | **3** | **5** | **7-1/2** | **10** | **15** | **20** | **25** | **30** | **40** | **50** | **60** | **75** | **100** | **125** | **150** | **200** | **250** | **300** | **350** | **400** |
| 870 | Min O.D. | 2.2 | 2.4 | 2.4 | 2.4 | 3.0 | 3.0 | 3.8 | 4.4 | 5.2 | 6.0 | 6.8 | 6.8 | 6.8 | 8.2 | 8.4 | 10.0 | 9.5 | 12.0 | 12.5 | 13.2 | 13.2 | 15.0 | – | – | – |
| | Max F.W. | 2.3 | 2.3 | 2.8 | 2.8 | 3.4 | 3.4 | 4.0 | 4.0 | 4.7 | 4.7 | 5.3 | 5.3 | 5.9 | 5.9 | 7.3 | 7.3 | 8.5 | 8.5 | 8.5 | 11.6 | 11.6 | 11.6 | – | – | – |
| 1160 | Min O.D. | – | 2.2 | 2.4 | 2.4 | 2.4 | 3.0 | 3.0 | 3.8 | 4.4 | 4.4 | 5.2 | 6.0 | 6.8 | 6.8 | 8.2 | 9.0 | 10.0 | 10.0 | 12.0 | 13.2 | 13.2 | 13.2 | 15.0 | 14.1 | – |
| | Max F.W. | – | 2.3 | 2.3 | 2.8 | 2.8 | 3.4 | 3.4 | 4.0 | 4.0 | 4.7 | 4.7 | 5.3 | 5.3 | 5.9 | 5.9 | 7.3 | 7.3 | 8.5 | 8.5 | 8.5 | 11.6 | 11.6 | 11.6 | 11.6 | – |
| 1750 | Min O.D. | – | – | 2.2 | 2.4 | 2.4 | 2.4 | 3.0 | 3.0 | 3.8 | 4.4 | 4.4 | 4.4 | 5.2 | 6.0 | 6.8 | 7.4 | 8.6 | 8.6 | 10.5 | 10.5 | 13.2 | 13.2 | 13.2 | 13.2 | 14.1 |
| | Max F.W. | – | – | 2.3 | 2.3 | 2.3 | 2.8 | 2.8 | 3.4 | 3.4 | 4.0 | 4.0 | 4.7 | 4.7 | 5.3 | 5.3 | 5.9 | 5.9 | 7.3 | 7.3 | 8.5 | 9.4 | 9.4 | 11.6 | 11.6 | 11.6 |
| 3500 | Min O.D. | – | – | – | 2.2 | 2.4 | 2.4 | 3.0 | 3.8 | 4.4 | 4.4 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| | Max F.W. | – | – | – | 2.3 | 2.3 | 2.8 | 2.8 | 3.4 | 4.0 | 4.0 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |

Data in unshaded area is per NEMA Standard MG1-14.42

Data in shaded area subject to approval of motor manufacturer

F.W. = Face Width of sheave

# Selection

## Stock D-V Wedge Drives: Non-Standard Motor Speeds and Speed-Up Drives

For Speeds Other Than Standard Motor Speeds:

**Step 1 - Determine Speed Ratio** = $\frac{\text{Driver RPM}}{\text{Driven RPM}}$

**Step 2 - Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor from Table 2.

**Step 3 - Determine Maximum Diameter** of Driver Sheave

@ 6500 FPM : O.D. = $\frac{\text{6500 FPM}}{\text{0.262* RPM}}$

**Step 4 - Select Belt Cross Section.** Using Table 1, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

**Step 5 - Select Drive.** Using the belt section from Step 4, make a tentative sheave selection from **stock drive tables**. (Note that several choices are available in the ratio obtained from Step 1. Other choices close to this ratio may also produce a functional drive.) Read onto opposite page and find figure nearest the required center distance. The Arc-Length correction factor is listed in the shaded row below the C.D. figure. Read to the top of the table for the belt size.

**Step 6 - Size the Drive.** From basic horsepower tables locate HP rating at intersection of RPM of faster shaft row and small sheave column. To this, add the "additional HP" figure based on drive ratio. This becomes the rated HP. Multiply this sum by the arc-length correction factor noted in Step 5. This becomes the corrected HP per belt. To find

Required number of belts : $\frac{\text{Design HP}}{\text{Correction HP/Belt}}$

### *Example of Selection*

A V-drive is needed for a 30 HP 2200 RPM gasoline engine, with a 2-1/4" dia. shaft, driving a generator, with a 2-7/16" dia. shaft, @ 1800 RPM. It runs 8 hrs. a day. Center distance is 31".

**Step 1** - Speed Ratio = $\frac{2200}{1785}$ = 1.23

**Step 2** - Service Factor = 1.2 Design HP = 30 x 1.2 = 36

**Step 3** - Driver Sheave Max. Dia. = $\frac{6500}{.262 \times 2200}$ = 11.3

**Step 4** - Belt Cross Section = Table 1 indicates 3VX.

**Step 5 - In 3VX Stock Drive Selection Tables** on pages PT7-66 and PT7-67, find the 1.23 ratio obtained in the Step 1 calculation. At the top of page PT7-64, the most economical drive is shown as 6.5 Driver, 8.0 Driven. The C.D. nearest 31" is 31.1. The correction factor below the C.D. figure is 1.05. Top of the column shows a 3VX850 belt. Refer to Basic HP Tables on page PT7-80 and PT7-81. From the 2200 RPM of faster shaft row and down from the 6.5 smaller sheave heading: 10.2 HP/belt plus an additional hp of .23 in the 1.19 thru 1.26 ratio column. The sum = 10.43 HP/belt x 1.05 arc length correction factor = 10.95 HP/belt.

Number of belts = $\frac{36}{10.95}$ = 3.28 or 4 belts

**Order:** 1- 4 groove 3V 6.5 TAPER-LOCK Sheave, 1-2517 2-1/4" bore bushing, 1-4 groove 8.0 TAPER-LOCK Sheave, 1-2517 2-7/16" bore bushing, 4-3VX850 D-V Wedge Belts.

### *Example of a 3V Speed-Up Drive*

A 20 HP 1750 RPM AC motor, with a 1-5/8" dia. shaft, is to drive a blower, with a 1-7/16" shaft, @ 2500 RPM. The center distance = 26". Equipment runs 24 hrs./day.

1. Service Factor from Table 2 is 1.2.
2. Design HP=20x1.2=24 HP
3. Speed Ratio = $\frac{2500}{1750}$ = 1.43
4. In Stock Drive Table, under 1.43 ratio, sheaves are listed as 5.6 Driver/8.0 Driven. (In a speed-up drive, the 5.6 sheave becomes the Driven, the 8.0 the Driver.) The opposite page of the table shows the closest center distance as 26.8 with an arc correction factor of 1.03. Belt shown at top of column is 3VX750.
5. From Basic Horsepower Tables a 5.6 sheave @ 2500 RPM = (9.46 + .37) = 9.83. 9.83 X 1.03 arc length correction factor = 10.12 corrected HP/belt.
6. Number of Belts = $\frac{\text{Design HP}}{\text{Corrected HP}} = \frac{24}{10.12}$ = 2.37 or 3 belts.
7. Order: 1-3 groove 3V 8.0 TAPER-LOCK Sheave, 1-15/8" bore 2517 bushing, 1-3 groove 3V 5.6 TAPER-LOCK Sheave, 1-17/16" bore 1610 bushing, 3-3VX750 D-V belts.

**Selection program available at www.ptwizard.com**

# Selection

**Table 4 - Narrow Belt Length Correction Factors**

| Belt Lgth. * | Factor for Belts: 3VX | 5V, 5VX | 8V, 8VX | Belt Lgth. | Factor for Belts: 3VX | 5V, 5VX | 8V, 8VX |
|---|---|---|---|---|---|---|---|
| 25 | .83 | – | – | 118 | 1.12 | .99 | .89 |
| 26.5 | .84 | – | – | 125 | 1.13 | 1.00 | .90 |
| 28 | .85 | – | – | 132 | 1.14 | 1.01 | .91 |
| 30 | .86 | – | – | 140 | 1.15 | 1.02 | .92 |
| 31.5 | .87 | – | – | 150 | 1.16 | 1.03 | .93 |
| 33.5 | .88 | – | – | 160 | – | 1.04 | .94 |
| 35.5 | .89 | – | – | 170 | – | 1.05 | .94 |
| 37.5 | .90 | – | – | 180 | – | 1.06 | .95 |
| 40 | .92 | – | – | 190 | – | 1.07 | .96 |
| 42.5 | .93 | – | – | 200 | – | 1.08 | .97 |
| 45 | .94 | – | – | 212 | – | 1.09 | .98 |
| 47.5 | .95 | – | – | 224 | – | 1.09 | .98 |
| 50 | .96 | .85 | – | 236 | – | 1.10 | .99 |
| 53 | .97 | .86 | – | 250 | – | 1.11 | 1.00 |
| 56 | .98 | .87 | – | 265 | – | 1.12 | 1.01 |
| 60 | .99 | .88 | – | 280 | – | 1.13 | 1.02 |
| 63 | 1.00 | .89 | – | 300 | – | 1.14 | 1.03 |
| 67 | 1.01 | .90 | – | 315 | – | 1.15 | 1.03 |
| 71 | 1.02 | .91 | – | 335 | – | 1.16 | 1.04 |
| 75 | 1.03 | .92 | – | 355 | – | 1.17 | 1.05 |
| 80 | 1.04 | .93 | – | 375 | – | – | 1.06 |
| 85 | 1.06 | .94 | – | 400 | – | – | 1.07 |
| 90 | 1.07 | .95 | – | 425 | – | – | 1.08 |
| 95 | 1.08 | .96 | – | 450 | – | – | 1.09 |
| 100 | 1.09 | .96 | .87 | 475 | – | – | 1.09 |
| 106 | 1.10 | .97 | .88 | 500 | – | – | 1.10 |
| 112 | 1.11 | .98 | .88 | 560 | – | – | 1.11 |

* Outside circumference in inches

**Table 5 - Arc Correction Factors**

| D-d ‡ C | Approx. Arc of Contact on Small Shv. | Factor |
|---|---|---|
| .00 | 180˚ | 1.00 |
| .10 | 174˚ | .99 |
| .20 | 169˚ | .97 |
| .30 | 163˚ | .96 |
| .40 | 157˚ | .94 |
| .50 | 151˚ | .93 |
| .60 | 145˚ | .91 |
| .70 | 139˚ | .89 |
| .80 | 133˚ | .87 |
| .90 | 127˚ | .85 |
| 1.00 | 120˚ | .82 |
| 1.10 | 113˚ | .80 |
| 1.20 | 106˚ | .77 |
| 1.30 | 99˚ | .73 |
| 1.40 | 91˚ | .70 |
| 1.50 | 83˚ | .65 |

‡ D = Dia. of large sheave

d = Dia. of small sheave

C = Center distance

**NOTE:** To determine required belt length when center distance and sheave diameters are known, use the following formula.

$$L = 2C + 1.57 ( D + d ) + \frac{(D - d)^2}{4c}$$

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Stock Drive Selections

| Speed Ratio | Stock Sheaves | | 3500 RPM Driver | | 1750 RPM Driver | | 1160 RPM Driver | | Belt Number and Approx. Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Diameter | | Driven | HP/Belt | Driven | HP/Belt | Driven | HP/Belt | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX |
| | Driver | Driven | RPM | 3VX | RPM | 3VX | RPM | 3VX | 250 | 265 | 280 | 300 | 315 | 335 | 355 | 375 |
| 1.00 | 2.65 | 2.65 | 3500 | 3.78 | 1750 | 2.15 | 1160 | 1.52 | 8.3 | 9.1 | 9.8 | 10.8 | 11.6 | 12.6 | 13.6 | 14.6 |
| | 2.80 | 2.80 | 3500 | 4.25 | 1750 | 2.41 | 1160 | 1.69 | 8.1 | 8.9 | 9.6 | 10.6 | 11.4 | 12.4 | 13.4 | 14.4 |
| | 3.00 | 3.00 | 3500 | 4.88 | 1750 | 2.75 | 1160 | 1.93 | 7.8 | 8.5 | 9.3 | 10.3 | 11.0 | 12.0 | 13.0 | 14.0 |
| | 3.15 | 3.15 | 3500 | 5.34 | 1750 | 3.01 | 1160 | 2.10 | 7.6 | 8.3 | 9.1 | 10.1 | 10.8 | 11.8 | 12.8 | 13.8 |
| | 3.35 | 3.35 | 3500 | 5.96 | 1750 | 3.34 | 1160 | 2.34 | 7.2 | 8.0 | 8.7 | 9.7 | 10.5 | 11.5 | 12.5 | 13.5 |
| | 3.65 | 3.65 | 3500 | 6.86 | 1750 | 3.85 | 1160 | 2.68 | 6.8 | 7.5 | 8.3 | 9.3 | 10.0 | 11.0 | 12.0 | 13.0 |
| | 4.12 | 4.12 | 3500 | 8.24 | 1750 | 4.63 | 1160 | 3.22 | 6.0 | 6.8 | 7.5 | 8.5 | 9.3 | 10.3 | 11.3 | 12.3 |
| | 4.50 | 4.50 | 3500 | 9.32 | 1750 | 5.25 | 1160 | 3.65 | – | 6.2 | 6.9 | 7.9 | 8.7 | 9.7 | 10.7 | 11.7 |
| | 4.75 | 4.75 | 3500 | 10.01 | 1750 | 5.65 | 1160 | 3.93 | – | 5.8 | 6.5 | 7.5 | 8.3 | 9.3 | 10.3 | 11.3 |
| | 5.00 | 5.00 | 3500 | 10.68 | 1750 | 6.06 | 1160 | 4.21 | – | – | 6.2 | 7.2 | 7.9 | 8.9 | 9.9 | 10.9 |
| | 5.30 | 5.30 | 3500 | 11.48 | 1750 | 6.53 | 1160 | 4.55 | – | – | – | 6.7 | 7.4 | 8.4 | 9.4 | 10.4 |
| | 5.60 | 5.60 | 3500 | 12.25 | 1750 | 7.01 | 1160 | 4.88 | – | – | – | – | 7.0 | 8.0 | 9.0 | 10.0 |
| | 6.00 | 6.00 | 3500 | 13.24 | 1750 | 7.63 | 1160 | 5.32 | – | – | – | – | – | 7.3 | 8.3 | 9.3 |
| | 6.50 | 6.50 | 3500 | 14.41 | 1750 | 8.40 | 1160 | 5.87 | – | – | – | – | – | – | 7.5 | 8.5 |
| | 6.90 | 6.90 | 3500 | 15.30 | 1750 | 9.01 | 1160 | 6.30 | – | – | – | – | – | – | – | 7.9 |
| | 8.00 | 8.00 | 3500 | 17.48 | 1750 | 10.64 | 1160 | 7.47 | – | – | – | – | – | – | – | – |
| | 10.60 | 10.60 | 3500 | 20.91 | 1750 | 14.22 | 1160 | 10.13 | – | – | – | – | – | – | – | – |
| 1.05 | 3.00 | 3.15 | 3331 | 5.00 | 1665 | 2.81 | 1104 | 1.97 | 7.7 | 8.4 | 9.2 | 10.2 | 10.9 | 11.9 | 12.9 | 13.9 |
| | 4.75 | 5.00 | 3323 | 10.13 | 1662 | 5.72 | 1101 | 3.97 | – | – | 6.3 | 7.3 | 8.1 | 9.1 | 10.1 | 11.1 |
| 1.06 | 2.65 | 2.80 | 3309 | 3.91 | 1655 | 2.22 | 1097 | 1.56 | 8.2 | 9.0 | 9.7 | 10.7 | 11.5 | 12.5 | 13.5 | 14.5 |
| | 3.15 | 3.35 | 3288 | 5.49 | 1644 | 3.08 | 1090 | 2.15 | 7.4 | 8.1 | 8.9 | 9.9 | 10.6 | 11.6 | 12.6 | 13.6 |
| | 4.50 | 4.75 | 3314 | 9.45 | 1657 | 5.31 | 1098 | 3.70 | – | 6.0 | 6.7 | 7.7 | 8.5 | 9.5 | 10.5 | 11.5 |
| | 5.00 | 5.30 | 3300 | 10.82 | 1650 | 6.13 | 1094 | 4.26 | – | – | – | 6.9 | 7.7 | 8.7 | 9.7 | 10.7 |
| | 5.30 | 5.60 | 3311 | 11.61 | 1655 | 6.60 | 1097 | 4.59 | – | – | – | – | 7.2 | 8.2 | 9.2 | 10.2 |
| | 6.50 | 6.90 | 3296 | 14.55 | 1648 | 8.48 | 1092 | 5.91 | – | – | – | – | – | – | – | 8.2 |
| 1.07 | 2.80 | 3.00 | 3263 | 4.42 | 1631 | 2.49 | 1081 | 1.75 | 7.9 | 8.7 | 9.4 | 10.4 | 11.2 | 12.2 | 13.2 | 14.2 |
| | 5.60 | 6.00 | 3265 | 12.41 | 1632 | 7.09 | 1082 | 4.93 | – | – | – | – | – | 7.6 | 8.6 | 9.6 |
| 1.08 | 6.00 | 6.50 | 3229 | 13.42 | 1614 | 7.73 | 1070 | 5.38 | – | – | – | – | – | – | 7.9 | 8.9 |
| 1.09 | 3.35 | 3.65 | 3208 | 6.15 | 1604 | 3.44 | 1063 | 2.40 | 7.0 | 7.8 | 8.5 | 9.5 | 10.3 | 11.3 | 12.3 | 13.3 |
| | 4.12 | 4.50 | 3201 | 8.44 | 1601 | 4.73 | 1061 | 3.29 | 5.7 | 6.5 | 7.2 | 8.2 | 9.0 | 10.0 | 11.0 | 12.0 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.83** | **.84** | **.85** | **.86** | **.87** | **.88** | **.89** | **.90** |
| 1.11 | 4.50 | 5.00 | 3146 | 9.55 | 1573 | 5.36 | 1043 | 3.73 | – | 5.8 | 6.5 | 7.5 | 8.3 | 9.3 | 10.3 | 11.3 |
| 1.12 | 3.00 | 3.35 | 3129 | 5.12 | 1564 | 2.87 | 1037 | 2.01 | 7.5 | 8.3 | 9.0 | 10.0 | 10.8 | 11.8 | 12.8 | 13.8 |
| | 4.75 | 5.30 | 3133 | 10.24 | 1567 | 5.77 | 1038 | 4.01 | – | – | 6.1 | 7.1 | 7.9 | 8.9 | 9.9 | 10.9 |
| | 5.00 | 5.60 | 3122 | 10.93 | 1561 | 6.18 | 1035 | 4.29 | – | – | – | 6.7 | 7.4 | 8.4 | 9.4 | 10.4 |
| 1.13 | 2.65 | 3.00 | 3085 | 4.04 | 1542 | 2.28 | 1022 | 1.60 | 8.1 | 8.8 | 9.6 | 10.6 | 11.3 | 12.3 | 13.3 | 14.3 |
| | 2.80 | 3.15 | 3105 | 4.50 | 1552 | 2.53 | 1029 | 1.78 | 7.8 | 8.6 | 9.3 | 10.3 | 11.1 | 12.1 | 13.1 | 14.1 |
| | 3.65 | 4.12 | 3096 | 7.12 | 1548 | 3.98 | 1026 | 2.77 | 6.4 | 7.1 | 7.9 | 8.9 | 9.6 | 10.6 | 11.6 | 12.6 |
| | 5.30 | 6.00 | 3088 | 11.74 | 1544 | 6.66 | 1024 | 4.63 | – | – | – | – | 6.9 | 7.9 | 8.9 | 9.9 |
| 1.15 | 4.12 | 4.75 | 3031 | 8.53 | 1515 | 4.77 | 1005 | 3.32 | – | 6.3 | 7.0 | 8.0 | 8.8 | 9.8 | 10.8 | 11.8 |
| | 6.00 | 6.90 | 3040 | 13.52 | 1520 | 7.78 | 1008 | 5.41 | – | – | – | – | – | – | 7.6 | 8.6 |
| 1.16 | 3.15 | 3.65 | 3014 | 5.64 | 1507 | 3.15 | 999 | 2.20 | 7.2 | 7.9 | 8.7 | 9.7 | 10.4 | 11.4 | 12.4 | 13.4 |
| | 5.60 | 6.50 | 3012 | 12.54 | 1506 | 7.16 | 998 | 4.98 | – | – | – | – | – | 7.2 | 8.2 | 9.2 |
| | 6.90 | 8.00 | 3016 | 15.59 | 1508 | 9.16 | 999 | 6.40 | – | – | – | – | – | – | – | – |
| 1.18 | 4.50 | 5.30 | 2967 | 9.63 | 1483 | 5.41 | 983 | 3.76 | – | – | 6.3 | 7.3 | 8.0 | 9.0 | 10.0 | 11.0 |
| | 4.75 | 5.60 | 2964 | 10.33 | 1482 | 5.81 | 982 | 4.04 | – | – | – | 6.9 | 7.6 | 8.6 | 9.6 | 10.6 |
| 1.19 | 2.65 | 3.15 | 2935 | 4.11 | 1468 | 2.32 | 973 | 1.63 | 7.9 | 8.7 | 9.4 | 10.4 | 11.2 | 12.2 | 13.2 | 14.2 |
| 1.20 | 2.80 | 3.35 | 2917 | 4.59 | 1458 | 2.58 | 967 | 1.81 | 7.7 | 8.4 | 9.2 | 10.2 | 10.9 | 11.9 | 12.9 | 13.9 |
| | 5.00 | 6.00 | 2912 | 11.03 | 1456 | 6.23 | 965 | 4.33 | – | – | – | – | 7.1 | 8.1 | 9.1 | 10.1 |
| 1.22 | 3.00 | 3.65 | 2868 | 5.24 | 1434 | 2.93 | 951 | 2.05 | 7.3 | 8.0 | 8.8 | 9.8 | 10.5 | 11.5 | 12.5 | 13.5 |
| | 4.12 | 5.00 | 2878 | 8.59 | 1439 | 4.80 | 954 | 3.34 | – | 6.1 | 6.8 | 7.8 | 8.6 | 9.6 | 10.6 | 11.6 |

Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Stock Drive Selections

| Speed Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VX 400 | 3VX 425 | 3VX 450 | 3VX 475 | 3VX 500 | 3VX 530 | 3VX 560 | 3VX 600 | 3VX 630 | 3VX 670 | 3VX 710 | 3VX 750 | 3VX 800 | 3VX 850 | 3VX 900 | 3VX 950 | 3VX 1000 | 3VX 1060 | 3VX 1120 | 3VX 1180 | 3VX 1250 | 3VX 1320 | 3VX 1400 | 3VX 1500 |
| | 15.8 | 17.1 | 18.3 | 19.6 | 20.8 | 22.3 | 23.8 | 25.8 | 27.3 | 29.3 | 31.3 | 33.3 | 35.8 | 38.3 | 40.8 | 43.3 | 45.8 | 48.8 | 51.8 | 55 | 58 | 62 | 66 | 71 |
| | 15.6 | 16.9 | 18.1 | 19.4 | 20.6 | 22.1 | 23.6 | 25.6 | 27.1 | 29.1 | 31.1 | 33.1 | 35.6 | 38.1 | 40.6 | 43.1 | 45.6 | 48.6 | 51.6 | 55 | 58 | 62 | 66 | 71 |
| | 15.3 | 16.5 | 17.8 | 19.0 | 20.3 | 21.8 | 23.3 | 25.3 | 26.8 | 28.8 | 30.8 | 32.8 | 35.3 | 37.8 | 40.3 | 42.8 | 45.3 | 48.3 | 51.3 | 54 | 58 | 61 | 65 | 70 |
| | 15.1 | 16.3 | 17.6 | 18.8 | 20.1 | 21.6 | 23.1 | 25.1 | 26.6 | 28.6 | 30.6 | 32.6 | 35.1 | 37.6 | 40.1 | 42.6 | 45.1 | 48.1 | 51.1 | 54 | 58 | 61 | 65 | 70 |
| | 14.7 | 16.0 | 17.2 | 18.5 | 19.7 | 21.2 | 22.7 | 24.7 | 26.2 | 28.2 | 30.2 | 32.2 | 34.7 | 37.2 | 39.7 | 42.2 | 44.7 | 47.7 | 50.7 | 54 | 57 | 61 | 65 | 70 |
| | 14.3 | 15.5 | 16.8 | 18.0 | 19.3 | 20.8 | 22.3 | 24.3 | 25.8 | 27.8 | 29.8 | 31.8 | 34.3 | 36.8 | 39.3 | 41.8 | 44.3 | 47.3 | 50.3 | 53 | 57 | 60 | 64 | 69 |
| | 13.5 | 14.8 | 16.0 | 17.3 | 18.5 | 20.0 | 21.5 | 23.5 | 25.0 | 27.0 | 29.0 | 31.0 | 33.5 | 36.0 | 38.5 | 41.0 | 43.5 | 46.5 | 49.5 | 53 | 56 | 60 | 64 | 69 |
| | 12.9 | 14.2 | 15.4 | 16.7 | 17.9 | 19.4 | 20.9 | 22.9 | 24.4 | 26.4 | 28.4 | 30.4 | 32.9 | 35.4 | 37.9 | 40.4 | 42.9 | 45.9 | 48.9 | 52 | 55 | 59 | 63 | 68 |
| **1.00** | 12.5 | 13.8 | 15.0 | 16.3 | 17.5 | 19.0 | 20.5 | 22.5 | 24.0 | 26.0 | 28.0 | 30.0 | 32.5 | 35.0 | 37.5 | 40.0 | 42.5 | 45.5 | 48.5 | 52 | 55 | 59 | 63 | 68 |
| | 12.2 | 13.4 | 14.7 | 15.9 | 17.2 | 18.7 | 20.2 | 22.2 | 23.7 | 25.7 | 27.7 | 29.7 | 32.2 | 34.7 | 37.2 | 39.7 | 42.2 | 45.2 | 48.2 | 51 | 55 | 58 | 62 | 67 |
| | 11.7 | 12.9 | 14.2 | 15.4 | 16.7 | 18.2 | 19.7 | 21.7 | 23.2 | 25.2 | 27.2 | 29.2 | 31.7 | 34.2 | 36.7 | 39.2 | 41.7 | 44.7 | 47.7 | 51 | 54 | 58 | 62 | 67 |
| | 11.2 | 12.5 | 13.7 | 15.0 | 16.2 | 17.7 | 19.2 | 21.2 | 22.7 | 24.7 | 26.7 | 28.7 | 31.2 | 33.7 | 36.2 | 38.7 | 41.2 | 44.2 | 47.2 | 50 | 54 | 57 | 61 | 66 |
| | 10.6 | 11.8 | 13.1 | 14.3 | 15.6 | 17.1 | 18.6 | 20.6 | 22.1 | 24.1 | 26.1 | 28.1 | 30.6 | 33.1 | 35.6 | 38.1 | 40.6 | 43.6 | 46.6 | 50 | 53 | 57 | 61 | 66 |
| | 9.8 | 11.0 | 12.3 | 13.5 | 14.8 | 16.3 | 17.8 | 19.8 | 21.3 | 23.3 | 25.3 | 27.3 | 29.8 | 32.3 | 34.8 | 37.3 | 39.8 | 42.8 | 45.8 | 49 | 52 | 56 | 60 | 65 |
| | 9.2 | 10.4 | 11.7 | 12.9 | 14.2 | 15.7 | 17.2 | 19.2 | 20.7 | 22.7 | 24.7 | 26.7 | 29.2 | 31.7 | 34.2 | 36.7 | 39.2 | 42.2 | 45.2 | 48 | 52 | 55 | 59 | 64 |
| | – | – | 9.9 | 11.2 | 12.4 | 13.9 | 15.4 | 17.4 | 18.9 | 20.9 | 22.9 | 24.9 | 27.4 | 29.9 | 32.4 | 34.9 | 37.4 | 40.4 | 43.4 | 46 | 50 | 53 | 57 | 62 |
| | – | – | – | – | – | – | – | 13.4 | 14.9 | 16.9 | 18.9 | 20.9 | 23.4 | 25.9 | 28.4 | 30.9 | 33.4 | 36.4 | 39.4 | 42 | 46 | 49 | 53 | 58 |
| **1.05** | 15.2 | 16.4 | 17.7 | 18.9 | 20.2 | 21.7 | 23.2 | 25.2 | 26.7 | 28.7 | 30.7 | 32.7 | 35.2 | 37.7 | 40.2 | 42.7 | 45.2 | 48.2 | 51.2 | 54 | 58 | 61 | 65 | 70 |
| | 12.3 | 13.6 | 14.8 | 16.1 | 17.3 | 18.8 | 20.3 | 22.3 | 23.8 | 25.8 | 27.8 | 29.8 | 32.3 | 34.8 | 37.3 | 39.8 | 42.3 | 45.3 | 48.3 | 51 | 55 | 58 | 62 | 67 |
| | 15.7 | 17.0 | 18.2 | 19.5 | 20.7 | 22.2 | 23.7 | 25.7 | 27.2 | 29.2 | 31.2 | 33.2 | 35.7 | 38.2 | 40.7 | 43.2 | 45.7 | 48.7 | 51.7 | 55 | 58 | 62 | 66 | 71 |
| | 14.9 | 16.1 | 17.4 | 18.6 | 19.9 | 21.4 | 22.9 | 24.9 | 26.4 | 28.4 | 30.4 | 32.4 | 34.9 | 37.4 | 39.9 | 42.4 | 44.9 | 47.9 | 50.9 | 54 | 57 | 61 | 65 | 70 |
| **1.06** | 12.7 | 14.0 | 15.2 | 16.5 | 17.7 | 19.2 | 20.7 | 22.7 | 24.2 | 26.2 | 28.2 | 30.2 | 32.7 | 35.2 | 37.7 | 40.2 | 42.7 | 45.7 | 48.7 | 52 | 55 | 59 | 63 | 68 |
| | 11.9 | 13.2 | 14.4 | 15.7 | 16.9 | 18.4 | 19.9 | 21.9 | 23.4 | 25.4 | 27.4 | 29.4 | 31.9 | 34.4 | 36.9 | 39.4 | 41.9 | 44.9 | 47.9 | 51 | 54 | 58 | 62 | 67 |
| | 11.4 | 12.7 | 13.9 | 15.2 | 16.4 | 17.9 | 19.4 | 21.4 | 22.9 | 24.9 | 26.9 | 28.9 | 31.4 | 33.9 | 36.4 | 38.9 | 41.4 | 44.4 | 47.4 | 50 | 54 | 57 | 61 | 66 |
| | 9.5 | 10.7 | 12.0 | 13.2 | 14.5 | 16.0 | 17.5 | 19.5 | 2.10 | 23.0 | 25.0 | 27.0 | 29.5 | 32.0 | 34.5 | 37.0 | 39.5 | 42.5 | 45.5 | 48 | 52 | 55 | 59 | 64 |
| **1.07** | 15.4 | 16.7 | 17.9 | 19.2 | 20.4 | 21.9 | 23.4 | 25.4 | 26.9 | 28.9 | 30.9 | 32.9 | 35.4 | 37.9 | 40.4 | 42.9 | 45.5 | 48.4 | 51.4 | 54 | 58 | 61 | 65 | 70 |
| | 10.9 | 12.1 | 13.4 | 14.6 | 15.9 | 17.4 | 18.9 | 20.9 | 22.4 | 24.4 | 26.4 | 28.4 | 30.9 | 33.4 | 35.9 | 38.4 | 40.9 | 43.9 | 46.9 | 50 | 53 | 57 | 61 | 66 |
| **1.08** | 10.2 | 11.4 | 12.7 | 13.9 | 15.2 | 16.7 | 18.2 | 20.2 | 21.7 | 23.7 | 25.7 | 27.7 | 30.2 | 32.7 | 35.2 | 37.7 | 40.2 | 43.2 | 46.2 | 49 | 53 | 56 | 60 | 65 |
| **1.09** | 14.5 | 15.8 | 17.0 | 18.3 | 19.5 | 21.0 | 22.5 | 24.5 | 26.0 | 28.0 | 30.0 | 32.0 | 34.5 | 37.0 | 39.5 | 42.0 | 44.5 | 47.5 | 50.5 | 54 | 57 | 61 | 65 | 70 |
| | 13.2 | 14.5 | 15.7 | 17.0 | 18.2 | 19.7 | 21.2 | 23.2 | 24.7 | 26.7 | 28.7 | 30.7 | 33.2 | 35.7 | 38.2 | 40.7 | 43.2 | 46.2 | 49.2 | 52 | 56 | 59 | 63 | 68 |
| | **.92** | **.93** | **.94** | **.95** | **.96** | **.97** | **.98** | **.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.09** | **1.10** | **1.11** | **1.12** | **1.13** | **1.14** | **1.16** |
| **1.10** | 12.5 | 13.8 | 15.0 | 16.3 | 17.5 | 19.0 | 20.5 | 22.5 | 24.0 | 26.0 | 28.0 | 30.0 | 32.5 | 35.0 | 37.5 | 40.0 | 42.5 | 45.5 | 48.5 | 52 | 55 | 59 | 63 | 68 |
| | 15.0 | 16.3 | 17.5 | 18.8 | 20.0 | 21.5 | 23.0 | 25.0 | 26.5 | 28.5 | 30.5 | 32.5 | 35.0 | 37.5 | 40.0 | 42.5 | 45.0 | 48.0 | 51.0 | 54 | 58 | 61 | 65 | 70 |
| **1.12** | 12.1 | 13.4 | 14.6 | 15.9 | 17.1 | 18.6 | 20.1 | 22.1 | 23.6 | 25.6 | 27.6 | 29.6 | 32.1 | 34.6 | 37.1 | 39.6 | 42.1 | 45.1 | 48.1 | 51 | 54 | 58 | 62 | 67 |
| | 11.7 | 12.9 | 14.2 | 15.4 | 16.7 | 18.2 | 19.7 | 21.7 | 23.2 | 25.2 | 27.2 | 29.2 | 31.7 | 34.2 | 36.7 | 39.2 | 41.7 | 44.7 | 47.7 | 51 | 55 | 58 | 62 | 67 |
| | 15.6 | 16.8 | 18.1 | 19.3 | 20.6 | 22.1 | 23.6 | 25.6 | 27.1 | 29.1 | 31.1 | 33.1 | 35.6 | 38.1 | 40.6 | 43.1 | 45.6 | 48.6 | 51.6 | 55 | 58 | 62 | 66 | 71 |
| **1.13** | 15.3 | 16.6 | 17.8 | 19.1 | 20.3 | 21.8 | 23.3 | 25.3 | 26.8 | 28.8 | 30.8 | 32.8 | 35.3 | 37.8 | 40.3 | 42.8 | 45.3 | 48.3 | 51.3 | 54 | 58 | 61 | 65 | 70 |
| | 13.9 | 15.1 | 16.4 | 17.6 | 18.9 | 20.4 | 21.9 | 23.9 | 25.4 | 27.4 | 29.4 | 31.4 | 33.9 | 36.4 | 38.9 | 41.4 | 43.9 | 46.9 | 49.9 | 53 | 56 | 60 | 64 | 69 |
| | 11.1 | 12.4 | 13.6 | 14.9 | 16.1 | 17.6 | 19.1 | 21.1 | 22.6 | 24.6 | 26.6 | 28.6 | 31.1 | 33.6 | 36.1 | 38.6 | 41.1 | 44.1 | 47.1 | 50 | 54 | 57 | 61 | 66 |
| **1.15** | 13.0 | 14.3 | 15.5 | 16.8 | 18.0 | 19.5 | 21.0 | 23.0 | 24.5 | 26.5 | 28.5 | 30.5 | 33.0 | 35.5 | 38.0 | 40.5 | 43.0 | 46.0 | 49.0 | 52 | 56 | 59 | 63 | 68 |
| | 9.9 | 11.1 | 12.4 | 13.6 | 14.9 | 16.4 | 17.9 | 19.9 | 21.4 | 23.4 | 25.4 | 27.4 | 29.9 | 32.4 | 34.9 | 37.4 | 39.9 | 42.9 | 45.9 | 49 | 52 | 56 | 60 | 65 |
| | 14.7 | 15.9 | 17.2 | 18.4 | 19.7 | 21.2 | 22.7 | 24.7 | 26.2 | 28.2 | 30.2 | 32.2 | 34.7 | 37.2 | 39.7 | 42.2 | 44.7 | 47.7 | 50.7 | 54 | 57 | 61 | 65 | 70 |
| **1.16** | 10.5 | 11.7 | 13.0 | 14.2 | 15.5 | 17.0 | 18.5 | 20.5 | 22.0 | 24.0 | 26.0 | 28.0 | 30.5 | 33.0 | 35.5 | 38.0 | 40.5 | 43.5 | 46.5 | 49 | 53 | 56 | 60 | 65 |
| | – | 9.5 | 10.8 | 12.0 | 13.3 | 14.8 | 16.3 | 18.3 | 19.8 | 21.8 | 23.8 | 25.8 | 28.3 | 30.8 | 33.3 | 35.8 | 38.3 | 41.3 | 44.3 | 47 | 51 | 54 | 58 | 63 |
| **1.18** | 12.3 | 13.6 | 14.8 | 16.1 | 17.3 | 18.8 | 20.3 | 22.3 | 23.8 | 25.8 | 27.8 | 29.8 | 32.3 | 34.8 | 37.3 | 39.8 | 42.3 | 45.3 | 48.3 | 51 | 55 | 58 | 62 | 67 |
| | 11.9 | 13.1 | 14.4 | 15.6 | 16.9 | 18.4 | 19.9 | 21.9 | 23.4 | 25.4 | 27.4 | 29.4 | 31.9 | 34.4 | 36.9 | 39.4 | 41.9 | 44.9 | 47.9 | 51 | 54 | 58 | 62 | 67 |
| **1.19** | 15.4 | 16.7 | 17.9 | 19.2 | 20.4 | 21.9 | 23.4 | 25.4 | 26.9 | 28.9 | 30.9 | 32.9 | 35.4 | 37.9 | 40.4 | 42.9 | 45.4 | 48.4 | 51.4 | 54 | 58 | 61 | 65 | 70 |
| **1.20** | 15.2 | 16.4 | 17.7 | 18.9 | 20.2 | 21.7 | 23.2 | 25.2 | 26.7 | 28.7 | 30.7 | 32.7 | 35.2 | 37.7 | 40.2 | 42.7 | 45.2 | 48.2 | 51.2 | 54 | 58 | 61 | 65 | 70 |
| | 11.4 | 12.6 | 13.9 | 15.1 | 16.4 | 17.9 | 19.4 | 21.4 | 22.9 | 24.9 | 26.9 | 28.9 | 31.4 | 33.9 | 36.4 | 38.9 | 41.4 | 44.4 | 47.4 | 50 | 54 | 58 | 61 | 66 |
| **1.22** | 14.8 | 16.0 | 17.3 | 18.5 | 19.8 | 21.3 | 22.8 | 24.8 | 26.3 | 28.3 | 30.3 | 32.3 | 34.8 | 37.3 | 39.8 | 42.3 | 44.8 | 47.8 | 50.8 | 54 | 57 | 61 | 65 | 70 |
| | 12.8 | 14.1 | 15.3 | 16.6 | 17.8 | 19.3 | 20.8 | 22.8 | 24.3 | 26.3 | 28.3 | 30.3 | 32.8 | 35.3 | 37.8 | 40.3 | 42.8 | 45.8 | 48.8 | 52 | 55 | 59 | 63 | 68 |

Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Stock Drive Selections



| Speed Ratio | Stock Sheaves | | 3500 RPM Driver | | 1750 RPM Driver | | 1160 RPM Driver | | Belt Number and Approx. Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Diameter | | Driven RPM | HP/Belt 3VX | Driven RPM | HP/Belt 3VX | Driven RPM | HP/Belt 3VX | 3VX 250 | 3VX 265 | 3VX 280 | 3VX 300 | 3VX 315 | 3VX 335 | 3VX 355 | 3VX 375 |
| | Driver | Driven | | | | | | | | | | | | | | |
| | 3.35 | 4.12 | 2838 | 6.33 | 1419 | 3.53 | 941 | 2.46 | 6.6 | 7.4 | 8.1 | 9.1 | 9.9 | 10.9 | 11.9 | 12.9 |
| 1.23 | 5.30 | 6.5 | 2849 | 11.84 | 1424 | 6.72 | 944 | 4.67 | – | – | – | – | – | 7.5 | 8.5 | 9.5 |
| | 5.60 | 6.9 | 2836 | 12.62 | 1418 | 7.19 | 940 | 5.00 | – | – | – | – | – | – | 7.9 | 8.9 |
| | 6.50 | 8.0 | 2840 | 14.78 | 1420 | 8.59 | 941 | 5.99 | – | – | – | – | – | – | – | – |
| 1.24 | 3.65 | 4.5 | 2831 | 7.23 | 1416 | 4.03 | 938 | 2.81 | 6.1 | 6.8 | 7.6 | 8.6 | 9.3 | 10.3 | 11.3 | 12.3 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.82** | **.83** | **.84** | **.86** | **.86** | **.88** | **.89** | **.90** |
| 1.25 | 4.50 | 5.6 | 2806 | 9.70 | 1403 | 5.44 | 930 | 3.78 | – | – | – | 7.1 | 7.8 | 8.8 | 9.8 | 10.8 |
| 1.27 | 2.65 | 3.35 | 2758 | 4.18 | 1379 | 2.35 | 914 | 1.65 | 7.8 | 8.5 | 9.3 | 10.3 | 11.0 | 12.0 | 13.0 | 14.0 |
| | 4.75 | 6.0 | 2765 | 10.40 | 1382 | 5.85 | 916 | 4.07 | – | – | – | 6.5 | 7.3 | 8.3 | 9.3 | 10.3 |
| 1.29 | 4.12 | 5.3 | 2713 | 8.65 | 1357 | 4.83 | 899 | 3.36 | – | 5.8 | 6.6 | 7.6 | 8.3 | 9.3 | 10.3 | 11.3 |
| 1.30 | 5.00 | 6.5 | 2686 | 11.11 | 1343 | 6.27 | 890 | 4.35 | – | – | – | – | – | 7.7 | 8.7 | 9.7 |
| | 5.30 | 6.9 | 2682 | 11.90 | 1341 | 6.74 | 889 | 4.69 | – | – | – | – | – | 7.1 | 8.1 | 9.1 |
| 1.31 | 2.80 | 3.65 | 2674 | 4.68 | 1337 | 2.62 | 886 | 1.83 | 7.4 | 8.2 | 8.9 | 9.9 | 10.7 | 11.7 | 12.7 | 13.7 |
| | 3.15 | 4.12 | 2666 | 5.77 | 1333 | 3.22 | 884 | 2.25 | 6.8 | 7.5 | 8.3 | 9.3 | 10.0 | 11.0 | 12.0 | 13.0 |
| | 3.65 | 4.75 | 2681 | 7.29 | 1340 | 4.06 | 889 | 2.82 | 5.9 | 6.6 | 7.4 | 8.4 | 9.1 | 10.1 | 11.1 | 12.1 |
| 1.32 | 10.6 | 14.0 | 2647 | 21.34 | 1323 | 14.43 | 877 | 10.27 | – | – | – | – | – | – | – | – |
| 1.33 | 8.00 | 10.6 | 2637 | 17.92 | 1319 | 10.86 | 874 | 7.61 | – | – | – | – | – | – | – | – |
| 1.34 | 4.50 | 6.0 | 2618 | 9.76 | 1309 | 5.47 | 868 | 3.80 | – | – | – | 6.7 | 7.5 | 8.5 | 9.5 | 10.5 |
| | 6.00 | 8.0 | 2619 | 13.68 | 1310 | 7.86 | 868 | 5.47 | – | – | – | – | – | – | – | – |
| 1.35 | 3.35 | 4.5 | 2596 | 6.40 | 1298 | 3.57 | 860 | 2.48 | 6.3 | 7.1 | 7.8 | 8.8 | 9.6 | 10.6 | 11.6 | 12.6 |
| 1.36 | 4.12 | 5.6 | 2567 | 8.69 | 1283 | 4.85 | 851 | 3.37 | – | – | 6.3 | 7.3 | 8.1 | 9.1 | 10.1 | 11.1 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.82** | **.83** | **.84** | **.86** | **.86** | **.88** | **.89** | **.90** |
| 1.37 | 3.65 | 5.0 | 2545 | 7.32 | 1273 | 4.08 | 844 | 2.84 | 5.7 | 6.4 | 7.2 | 8.2 | 8.9 | 9.9 | 10.9 | 11.9 |
| | 4.75 | 6.5 | 2550 | 10.47 | 1275 | 5.88 | 845 | 4.09 | – | – | – | – | 6.9 | 7.9 | 8.9 | 9.9 |
| 1.38 | 2.65 | 3.65 | 2528 | 4.24 | 1264 | 2.38 | 838 | 1.67 | 7.5 | 8.3 | 9.0 | 10.0 | 10.8 | 11.8 | 12.8 | 13.8 |
| | 3.00 | 4.12 | 2537 | 5.34 | 1268 | 2.98 | 841 | 2.08 | 6.9 | 7.6 | 8.4 | 9.4 | 10.1 | 11.1 | 12.1 | 13.1 |
| | 5.00 | 6.9 | 2529 | 11.15 | 1265 | 6.29 | 838 | 4.37 | – | – | – | – | – | 7.3 | 8.3 | 9.4 |
| 1.42 | 3.35 | 4.75 | 2457 | 6.44 | 1229 | 3.58 | 814 | 2.50 | 6.1 | 6.9 | 7.6 | 8.6 | 9.4 | 10.4 | 11.4 | 12.4 |
| 1.43 | 5.60 | 8.0 | 2443 | 12.73 | 1222 | 7.25 | 810 | 5.04 | – | – | – | – | – | – | – | – |
| 1.44 | 3.15 | 4.5 | 2438 | 5.83 | 1219 | 3.25 | 808 | 2.26 | 6.5 | 7.2 | 8.0 | 9.0 | 9.7 | 10.7 | 11.7 | 12.7 |
| 1.45 | 4.50 | 6.5 | 2415 | 9.81 | 1207 | 5.49 | 800 | 3.81 | – | – | – | – | 7.0 | 8.0 | 9.1 | 10.1 |
| 1.46 | 3.65 | 5.3 | 2400 | 7.35 | 1200 | 4.09 | 795 | 2.85 | – | 6.2 | 6.9 | 7.9 | 8.7 | 9.7 | 10.7 | 11.7 |
| | 4.12 | 6.0 | 2394 | 8.73 | 1197 | 4.87 | 793 | 3.39 | – | – | – | 7.0 | 7.7 | 8.8 | 9.8 | 10.8 |
| | 4.75 | 6.9 | 2401 | 10.50 | 1201 | 5.90 | 796 | 4.10 | – | – | – | – | – | 7.5 | 8.5 | 9.5 |
| 1.48 | 2.80 | 4.12 | 2365 | 4.75 | 1182 | 2.66 | 784 | 1.86 | 7.0 | 7.8 | 8.5 | 9.5 | 10.3 | 11.3 | 12.3 | 13.3 |
| 1.50 | 3.35 | 5.0 | 2333 | 6.46 | 1167 | 3.60 | 773 | 2.50 | 5.9 | 6.6 | 7.4 | 8.4 | 9.2 | 10.2 | 11.2 | 12.2 |
| 1.51 | 3.00 | 4.5 | 2320 | 5.39 | 1160 | 3.00 | 769 | 2.10 | 6.6 | 7.3 | 8.1 | 9.1 | 9.8 | 10.8 | 11.8 | 12.8 |
| | 5.30 | 8.0 | 2311 | 11.99 | 1156 | 6.79 | 766 | 4.72 | – | – | – | – | – | – | – | 8.2 |
| 1.52 | 3.15 | 4.75 | 2309 | 5.85 | 1154 | 3.26 | 765 | 2.27 | 6.2 | 7.0 | 7.8 | 8.8 | 9.5 | 10.5 | 11.5 | 12.5 |
| 1.54 | 3.65 | 5.6 | 2270 | 7.38 | 1135 | 4.11 | 752 | 2.85 | – | – | 6.7 | 7.7 | 8.4 | 9.4 | 10.4 | 11.4 |
| | 4.50 | 6.9 | 2274 | 9.83 | 1137 | 5.51 | 754 | 3.82 | – | – | – | – | – | 7.7 | 8.7 | 9.7 |
| | 6.90 | 10.6 | 2273 | 15.81 | 1136 | 9.27 | 753 | 6.47 | – | – | – | – | – | – | – | – |
| 1.57 | 2.65 | 4.12 | 2236 | 4.30 | 1118 | 2.41 | 741 | 1.69 | 7.1 | 7.9 | 8.7 | 9.7 | 10.4 | 11.4 | 12.4 | 13.4 |
| 1.58 | 4.12 | 6.5 | 2209 | 8.76 | 1104 | 4.89 | 732 | 3.40 | – | – | – | 6.6 | 7.3 | 8.3 | 9.3 | 10.3 |
| 1.59 | 3.00 | 4.75 | 2197 | 5.41 | 1098 | 3.01 | 728 | 2.10 | 6.4 | 7.1 | 7.9 | 8.9 | 9.6 | 10.6 | 11.6 | 12.6 |
| | 3.35 | 5.3 | 2200 | 6.48 | 1100 | 3.61 | 729 | 2.51 | 5.6 | 6.4 | 7.1 | 8.1 | 8.9 | 9.9 | 10.9 | 11.9 |
| 1.60 | 3.15 | 5.0 | 2192 | 5.87 | 1096 | 3.27 | 726 | 2.28 | 6.0 | 6.8 | 7.5 | 8.6 | 9.3 | 10.3 | 11.3 | 12.3 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.81** | **.82** | **.83** | **.85** | **.86** | **.87** | **.89** | **.89** |
| 1.61 | 5.00 | 8.0 | 2179 | 11.22 | 1090 | 6.32 | 722 | 4.39 | – | – | – | – | – | – | – | 8.4 |
| 1.62 | 2.80 | 4.5 | 2163 | 4.79 | 1081 | 2.68 | 717 | 1.87 | 6.7 | 7.5 | 8.2 | 9.2 | 10.0 | 11.0 | 12.0 | 13.0 |
| 1.64 | 6.50 | 10.6 | 2140 | 14.95 | 1070 | 8.67 | 709 | 6.04 | – | – | – | – | – | – | – | – |
| 1.65 | 3.65 | 6.0 | 2118 | 7.40 | 1059 | 4.12 | 702 | 2.86 | – | – | 6.3 | 7.3 | 8.1 | 9.1 | 10.1 | 11.1 |
| 1.68 | 3.00 | 5.0 | 2086 | 5.42 | 1043 | 3.02 | 691 | 2.11 | 6.1 | 6.9 | 7.7 | 8.7 | 9.4 | 10.4 | 11.4 | 12.4 |
| | 3.35 | 5.6 | 2081 | 6.50 | 1041 | 3.62 | 690 | 2.52 | – | 6.1 | 6.9 | 7.9 | 8.6 | 9.7 | 10.7 | 11.7 |
| | 4.12 | 6.9 | 2080 | 8.78 | 1040 | 4.90 | 689 | 3.40 | – | – | – | – | 7.0 | 8.0 | 9.0 | 10.0 |
| 1.69 | 3.15 | 5.3 | 2067 | 5.89 | 1033 | 3.28 | 685 | 2.28 | 5.8 | 6.5 | 7.3 | 8.3 | 9.0 | 10.1 | 11.1 | 12.1 |
| | 4.75 | 8.0 | 2069 | 10.55 | 1035 | 5.93 | 686 | 4.11 | – | – | – | – | – | – | 7.6 | 8.6 |
| 1.71 | 2.65 | 4.5 | 2045 | 4.33 | 1022 | 2.42 | 678 | 1.70 | 6.8 | 7.6 | 8.3 | 9.3 | 10.1 | 11.1 | 12.1 | 13.1 |
| 1.71 | 2.80 | 4.75 | 2048 | 4.80 | 1024 | 2.68 | 679 | 1.88 | 6.5 | 7.3 | 8.0 | 9.0 | 9.8 | 10.8 | 11.8 | 12.8 |
| 1.75 | 8.00 | 14.0 | 19.95 | 18.04 | 997 | 10.92 | 661 | 7.65 | – | – | – | – | – | – | – | – |
| 1.77 | 6.00 | 10.6 | 1974 | 13.79 | 987 | 7.91 | 654 | 5.51 | – | – | – | – | – | – | – | – |
| 1.78 | 3.00 | 5.3 | 1967 | 5.44 | 983 | 3.03 | 652 | 2.11 | 5.9 | 6.6 | 7.4 | 8.4 | 9.2 | 10.2 | 11.2 | 12.2 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.80** | **.81** | **.82** | **.84** | **.85** | **.86** | **.88** | **.89** |

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Stock Drive Selections

| Speed Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VX 400 | 3VX 425 | 3VX 450 | 3VX 475 | 3VX 500 | 3VX 530 | 3VX 560 | 3VX 600 | 3VX 630 | 3VX 670 | 3VX 710 | 3VX 750 | 3VX 800 | 3VX 850 | 3VX 900 | 3VX 950 | 3VX 1000 | 3VX 1060 | 3VX 1120 | 3VX 1180 | 3VX 1250 | 3VX 1320 | 3VX 1400 | 3VX 1500 |
| | 14.1 | 15.4 | 16.6 | 17.9 | 19.1 | 20.6 | 22.1 | 24.1 | 25.6 | 27.6 | 29.6 | 31.6 | 34.1 | 36.6 | 39.1 | 41.6 | 44.1 | 47.1 | 50.1 | 53 | 57 | 60 | 64 | 69 |
| 1.23 | 10.7 | 12.0 | 13.2 | 14.5 | 15.7 | 17.2 | 18.7 | 20.7 | 22.2 | 24.2 | 26.2 | 28.2 | 30.7 | 33.2 | 35.7 | 38.2 | 40.7 | 43.7 | 46.7 | 50 | 53 | 57 | 61 | 66 |
| | 10.2 | 11.4 | 12.7 | 13.9 | 15.2 | 16.7 | 18.2 | 20.2 | 21.7 | 23.7 | 25.7 | 27.7 | 30.2 | 32.7 | 35.2 | 37.7 | 40.2 | 43.2 | 46.2 | 49 | 53 | 56 | 60 | 65 |
| | 8.6 | 9.8 | 11.1 | 12.3 | 13.6 | 15.1 | 16.6 | 18.6 | 20.1 | 22.1 | 24.1 | 26.1 | 28.6 | 31.1 | 33.6 | 36.1 | 38.6 | 41.6 | 44.6 | 48 | 51 | 55 | 59 | 64 |
| 1.24 | 13.6 | 14.8 | 16.1 | 17.3 | 18.6 | 20.1 | 21.6 | 23.6 | 25.1 | 27.1 | 29.1 | 31.1 | 33.6 | 36.1 | 38.6 | 41.1 | 43.6 | 46.6 | 49.6 | 53 | 56 | 61 | 64 | 69 |
| | .91 | .92 | .93 | .94 | .95 | .96 | .97 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |
| 1.25 | 12.1 | 13.3 | 14.6 | 15.8 | 17.1 | 18.6 | 20.1 | 22.1 | 23.6 | 25.6 | 27.6 | 29.6 | 32.1 | 34.6 | 37.1 | 39.6 | 42.1 | 45.1 | 48.1 | 51 | 55 | 58 | 62 | 67 |
| 1.27 | 15.3 | 16.5 | 17.8 | 19.0 | 20.3 | 21.8 | 23.3 | 25.3 | 26.8 | 28.8 | 30.8 | 32.8 | 35.3 | 37.8 | 40.3 | 42.1 | 45.3 | 48.3 | 51.3 | 54 | 58 | 61 | 65 | 70 |
| | 11.5 | 12.8 | 14.0 | 15.3 | 16.5 | 18.1 | 19.6 | 21.6 | 23.1 | 25.1 | 27.1 | 29.1 | 31.6 | 34.1 | 36.6 | 39.1 | 41.6 | 44.6 | 47.6 | 51 | 54 | 58 | 62 | 67 |
| 1.29 | 12.6 | 13.8 | 15.1 | 16.3 | 17.6 | 19.1 | 20.6 | 22.6 | 24.1 | 26.1 | 28.1 | 30.1 | 32.6 | 35.1 | 37.6 | 40.1 | 42.6 | 45.6 | 48.6 | 52 | 55 | 59 | 63 | 68 |
| 1.30 | 10.9 | 12.2 | 13.5 | 14.7 | 16.0 | 17.5 | 19.0 | 21.0 | 22.5 | 24.5 | 26.5 | 28.5 | 31.0 | 33.5 | 36.0 | 38.5 | 41.0 | 44.0 | 47.0 | 50 | 53 | 57 | 61 | 66 |
| | 10.4 | 11.6 | 12.9 | 14.2 | 15.4 | 16.9 | 18.4 | 20.4 | 21.9 | 23.9 | 25.9 | 27.9 | 30.4 | 32.9 | 35.4 | 37.9 | 40.4 | 43.4 | 46.4 | 49 | 53 | 56 | 60 | 65 |
| 1.31 | 14.9 | 16.2 | 17.4 | 18.7 | 19.9 | 21.4 | 22.9 | 24.9 | 26.4 | 28.4 | 30.4 | 32.4 | 34.9 | 37.4 | 39.9 | 42.4 | 44.9 | 47.9 | 50.9 | 54 | 57 | 61 | 65 | 70 |
| | 14.3 | 15.5 | 16.8 | 18.0 | 19.3 | 20.8 | 22.3 | 24.3 | 25.8 | 27.8 | 29.8 | 31.8 | 34.3 | 36.8 | 39.3 | 41.8 | 44.3 | 47.3 | 50.3 | 53 | 57 | 60 | 64 | 69 |
| | 13.4 | 14.6 | 15.9 | 17.1 | 18.4 | 19.9 | 21.4 | 23.4 | 24.9 | 26.9 | 28.9 | 30.9 | 33.4 | 35.9 | 38.4 | 40.9 | 43.4 | 46.4 | 49.4 | 52 | 56 | 59 | 63 | 68 |
| 1.32 | – | – | – | – | – | – | – | – | – | 14.1 | 16.1 | 18.1 | 20.6 | 23.1 | 25.6 | 28.1 | 30.6 | 33.6 | 36.6 | 40 | 43 | 47 | 51 | 56 |
| 1.33 | – | – | – | – | – | 11.8 | 13.3 | 15.3 | 16.8 | 18.9 | 20.9 | 22.9 | 25.4 | 27.9 | 30.4 | 32.9 | 35.4 | 38.4 | 41.4 | 44 | 48 | 51 | 55 | 60 |
| 1.34 | 11.7 | 13.0 | 14.2 | 15.5 | 16.7 | 18.2 | 19.7 | 21.7 | 23.2 | 25.2 | 27.2 | 29.2 | 31.7 | 34.2 | 36.7 | 39.3 | 41.8 | 44.8 | 47.8 | 51 | 54 | 58 | 62 | 67 |
| | 9.0 | 10.2 | 11.5 | 12.7 | 14.0 | 15.5 | 17.0 | 19.0 | 20.5 | 22.5 | 24.5 | 26.5 | 29.0 | 31.5 | 34.0 | 36.5 | 39.0 | 42.0 | 45.0 | 48 | 52 | 55 | 59 | 64 |
| 1.35 | 13.8 | 15.1 | 16.3 | 17.6 | 18.8 | 20.3 | 21.8 | 23.8 | 25.3 | 27.3 | 29.3 | 31.3 | 33.8 | 36.3 | 38.8 | 41.3 | 43.8 | 46.8 | 49.8 | 53 | 56 | 60 | 64 | 69 |
| 1.36 | 12.3 | 13.6 | 14.9 | 16.1 | 17.4 | 18.9 | 20.4 | 22.4 | 23.9 | 25.9 | 27.9 | 29.9 | 32.4 | 34.9 | 37.4 | 39.9 | 42.4 | 45.4 | 48.4 | 51 | 55 | 58 | 62 | 67 |
| | .91 | .92 | .93 | .94 | .95 | .96 | .97 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |
| 1.37 | 13.2 | 14.4 | 15.7 | 16.9 | 18.2 | 19.7 | 21.2 | 23.2 | 24.7 | 26.7 | 28.7 | 30.7 | 33.2 | 35.7 | 38.2 | 40.7 | 43.2 | 46.2 | 49.2 | 52 | 56 | 59 | 63 | 68 |
| | 11.1 | 12.4 | 13.6 | 14.9 | 16.1 | 17.6 | 19.1 | 21.2 | 22.7 | 24.7 | 26.7 | 28.7 | 31.2 | 33.7 | 36.2 | 38.7 | 41.2 | 44.2 | 47.2 | 50 | 54 | 57 | 61 | 66 |
| 1.38 | 15.0 | 16.3 | 17.5 | 18.8 | 20.0 | 21.5 | 23.0 | 25.0 | 26.5 | 28.6 | 30.6 | 32.6 | 35.1 | 37.6 | 40.1 | 42.6 | 45.1 | 48.1 | 51.1 | 54 | 58 | 61 | 65 | 70 |
| | 14.4 | 15.7 | 16.9 | 18.2 | 19.4 | 20.9 | 22.4 | 24.4 | 25.9 | 27.9 | 29.9 | 31.9 | 34.4 | 36.9 | 39.4 | 41.9 | 44.4 | 47.4 | 50.4 | 53 | 57 | 60 | 64 | 69 |
| | 10.6 | 11.9 | 13.1 | 14.4 | 15.6 | 17.1 | 18.6 | 20.6 | 22.1 | 24.1 | 26.1 | 28.1 | 30.6 | 33.1 | 35.6 | 38.1 | 40.6 | 43.6 | 46.6 | 50 | 53 | 57 | 61 | 66 |
| 1.42 | 13.6 | 14.9 | 16.1 | 17.4 | 18.6 | 20.1 | 21.6 | 23.6 | 25.1 | 27.1 | 29.1 | 31.1 | 33.6 | 36.1 | 38.6 | 41.1 | 43.6 | 46.6 | 49.6 | 53 | 56 | 60 | 64 | 69 |
| 1.43 | 9.2 | 10.5 | 11.8 | 13.0 | 14.3 | 15.8 | 17.3 | 19.3 | 20.8 | 22.8 | 24.8 | 26.8 | 29.3 | 31.8 | 34.3 | 36.8 | 39.3 | 42.3 | 45.3 | 48 | 52 | 55 | 59 | 64 |
| 1.44 | 14.0 | 15.2 | 16.5 | 17.7 | 19.0 | 20.5 | 22.0 | 24.0 | 25.5 | 27.5 | 29.5 | 31.5 | 34.0 | 36.5 | 39.0 | 41.5 | 44.0 | 47.0 | 50.0 | 53 | 56 | 60 | 64 | 69 |
| 1.45 | 11.3 | 12.6 | 13.8 | 15.1 | 16.3 | 17.8 | 19.3 | 21.3 | 22.8 | 24.8 | 26.8 | 28.8 | 31.3 | 33.9 | 36.4 | 38.9 | 41.4 | 44.4 | 47.4 | 50 | 54 | 57 | 61 | 66 |
| 1.46 | 12.9 | 14.2 | 15.5 | 16.7 | 18.0 | 19.5 | 21.0 | 23.0 | 24.5 | 26.5 | 28.5 | 30.5 | 33.0 | 35.5 | 38.0 | 40.5 | 43.0 | 46.0 | 49.0 | 52 | 55 | 59 | 63 | 68 |
| | 12.0 | 13.3 | 14.5 | 15.8 | 17.0 | 18.5 | 20.0 | 22.0 | 23.5 | 25.5 | 27.5 | 29.5 | 32.0 | 34.5 | 37.0 | 39.5 | 42.0 | 45.0 | 48.0 | 51 | 55 | 58 | 62 | 67 |
| | 10.8 | 12.1 | 13.3 | 14.6 | 15.8 | 17.3 | 18.8 | 20.8 | 22.3 | 24.3 | 26.3 | 28.3 | 30.8 | 33.3 | 35.8 | 38.3 | 40.8 | 43.8 | 46.8 | 50 | 53 | 57 | 61 | 66 |
| 1.48 | 14.6 | 15.8 | 17.1 | 18.3 | 19.6 | 21.1 | 22.6 | 24.6 | 26.1 | 28.1 | 30.1 | 32.1 | 34.6 | 37.1 | 39.6 | 42.1 | 44.6 | 47.6 | 50.6 | 54 | 57 | 61 | 65 | 70 |
| 1.50 | 13.4 | 14.7 | 15.9 | 17.2 | 18.4 | 19.9 | 21.4 | 23.4 | 24.9 | 26.9 | 28.9 | 30.9 | 33.4 | 35.9 | 38.4 | 40.9 | 43.4 | 46.4 | 49.4 | 52 | 56 | 59 | 63 | 68 |
| 1.51 | 14.1 | 15.3 | 16.6 | 17.8 | 19.1 | 20.6 | 22.1 | 24.1 | 25.6 | 27.6 | 29.6 | 31.6 | 34.1 | 36.6 | 39.1 | 41.6 | 44.1 | 47.1 | 50.1 | 53 | 57 | 60 | 64 | 69 |
| | 9.5 | 10.7 | 12.0 | 13.2 | 14.5 | 16.0 | 17.5 | 19.5 | 21.0 | 23.0 | 25.0 | 27.0 | 29.5 | 32.0 | 34.5 | 37.0 | 39.5 | 42.5 | 45.5 | 49 | 52 | 56 | 60 | 65 |
| 1.52 | 13.8 | 15.0 | 16.3 | 17.5 | 18.8 | 20.3 | 21.8 | 23.8 | 25.3 | 27.3 | 29.3 | 31.3 | 33.8 | 36.3 | 38.8 | 41.3 | 43.8 | 46.8 | 49.8 | 53 | 56 | 60 | 64 | 69 |
| 1.54 | 12.7 | 14.0 | 15.2 | 16.5 | 17.7 | 19.2 | 20.7 | 22.7 | 24.2 | 26.2 | 28.2 | 30.2 | 32.7 | 35.2 | 37.7 | 40.2 | 42.7 | 45.7 | 48.7 | 52 | 55 | 59 | 63 | 68 |
| | 11.0 | 12.2 | 13.5 | 14.8 | 16.0 | 17.5 | 19.0 | 21.0 | 22.5 | 24.5 | 26.5 | 28.5 | 31.0 | 33.5 | 36.0 | 38.5 | 41.0 | 44.0 | 47.0 | 50 | 54 | 57 | 61 | 66 |
| | – | – | – | – | 11.1 | 12.6 | 14.1 | 16.2 | 17.7 | 19.7 | 21.7 | 23.7 | 26.2 | 28.7 | 31.2 | 33.7 | 36.2 | 39.2 | 42.2 | 45 | 49 | 52 | 56 | 61 |
| 1.57 | 14.7 | 15.9 | 17.2 | 18.4 | 19.7 | 21.2 | 22.7 | 24.7 | 26.2 | 28.2 | 30.2 | 32.2 | 34.7 | 37.2 | 39.7 | 42.2 | 44.7 | 47.7 | 50.7 | 54 | 57 | 61 | 65 | 70 |
| 1.58 | 11.6 | 12.9 | 14.1 | 15.4 | 16.6 | 18.1 | 19.6 | 21.6 | 23.1 | 25.1 | 27.1 | 29.1 | 31.6 | 34.1 | 36.6 | 39.1 | 41.6 | 44.6 | 47.6 | 51 | 54 | 58 | 62 | 67 |
| 1.59 | 13.9 | 15.1 | 16.4 | 17.6 | 18.9 | 20.4 | 21.9 | 23.9 | 25.4 | 27.4 | 29.4 | 31.4 | 33.9 | 36.4 | 38.9 | 41.4 | 43.9 | 46.9 | 49.9 | 53 | 56 | 60 | 64 | 69 |
| | 13.2 | 14.4 | 15.7 | 16.9 | 18.2 | 19.7 | 21.2 | 23.2 | 24.7 | 26.7 | 28.7 | 30.7 | 33.2 | 35.7 | 38.2 | 40.7 | 43.2 | 46.2 | 49.2 | 52 | 56 | 59 | 63 | 68 |
| 1.60 | 13.6 | 14.8 | 16.1 | 17.3 | 18.6 | 20.1 | 21.6 | 23.6 | 25.1 | 27.1 | 29.1 | 31.1 | 33.6 | 36.1 | 38.6 | 41.1 | 43.6 | 46.6 | 49.6 | 53 | 56 | 60 | 64 | 69 |
| | .90 | .92 | .93 | .94 | .95 | .96 | .97 | .98 | .99 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |
| 1.61 | 9.7 | 10.9 | 12.2 | 13.5 | 14.7 | 16.2 | 17.7 | 19.7 | 21.2 | 23.2 | 25.3 | 27.3 | 29.8 | 32.3 | 34.8 | 37.3 | 39.8 | 42.8 | 45.8 | 49 | 52 | 56 | 60 | 65 |
| 1.62 | 14.2 | 15.5 | 16.7 | 18.0 | 19.3 | 20.8 | 22.3 | 24.3 | 25.8 | 27.8 | 29.8 | 31.8 | 34.3 | 36.8 | 39.3 | 41.8 | 44.3 | 47.3 | 50.3 | 53 | 57 | 60 | 64 | 69 |
| 1.64 | – | – | – | 10.1 | 11.4 | 12.9 | 14.4 | 16.4 | 18.0 | 20.0 | 22.0 | 24.0 | 26.5 | 29.0 | 31.5 | 34.0 | 36.5 | 39.5 | 42.5 | 46 | 49 | 53 | 57 | 62 |
| 1.65 | 12.4 | 13.6 | 14.9 | 16.1 | 17.4 | 18.9 | 20.4 | 22.4 | 23.9 | 25.9 | 27.9 | 29.9 | 32.4 | 34.9 | 37.4 | 39.9 | 42.4 | 45.4 | 48.4 | 51 | 55 | 58 | 62 | 67 |
| 1.68 | 13.7 | 14.9 | 16.2 | 17.4 | 18.7 | 20.2 | 21.7 | 23.7 | 25.2 | 27.2 | 29.2 | 31.2 | 33.7 | 36.2 | 38.7 | 41.2 | 43.7 | 46.7 | 49.7 | 53 | 56 | 60 | 64 | 69 |
| | 12.9 | 14.2 | 15.4 | 16.7 | 17.9 | 19.4 | 20.9 | 22.9 | 24.4 | 26.5 | 28.5 | 30.5 | 33.0 | 35.5 | 38.0 | 40.5 | 43.0 | 46.0 | 49.0 | 52 | 55 | 59 | 63 | 68 |
| | 11.3 | 12.5 | 13.8 | 15.0 | 16.3 | 17.8 | 19.3 | 21.3 | 22.8 | 24.8 | 26.8 | 28.8 | 31.3 | 33.8 | 36.3 | 38.8 | 41.3 | 44.3 | 47.3 | 50 | 54 | 57 | 61 | 66 |
| 1.69 | 13.3 | 14.6 | 15.8 | 17.1 | 18.3 | 19.8 | 21.3 | 23.3 | 24.8 | 26.8 | 28.8 | 30.8 | 33.3 | 35.9 | 38.4 | 40.9 | 43.4 | 46.4 | 49.4 | 52 | 56 | 59 | 63 | 68 |
| | 9.9 | 11.1 | 12.4 | 13.6 | 14.9 | 16.4 | 17.9 | 19.9 | 21.4 | 23.4 | 25.4 | 27.4 | 29.9 | 32.5 | 35.0 | 37.5 | 40.0 | 43.0 | 46.0 | 49 | 52 | 56 | 60 | 65 |
| 1.71 | 14.4 | 15.6 | 16.9 | 18.1 | 19.4 | 20.9 | 22.4 | 24.4 | 25.9 | 27.9 | 29.9 | 31.9 | 34.4 | 36.9 | 39.4 | 41.9 | 44.4 | 47.4 | 50.4 | 53 | 57 | 60 | 64 | 69 |
| 1.71 | 14.0 | 15.3 | 16.5 | 17.8 | 19.0 | 20.6 | 22.1 | 24.1 | 25.6 | 27.6 | 29.6 | 31.6 | 34.1 | 36.6 | 39.1 | 41.6 | 44.1 | 47.1 | 50.1 | 53 | 57 | 60 | 64 | 69 |
| 1.75 | – | – | – | – | – | – | – | – | 13.9 | 15.9 | 18.0 | 20.0 | 22.5 | 25.1 | 27.6 | 30.1 | 32.6 | 35.6 | 38.6 | 42 | 45 | 49 | 53 | 58 |
| 1.77 | – | – | – | 10.5 | 11.7 | 13.3 | 14.8 | 16.8 | 18.3 | 20.3 | 22.4 | 24.4 | 26.9 | 29.4 | 31.9 | 34.4 | 36.9 | 39.9 | 42.9 | 46 | 49 | 53 | 57 | 62 |
| 1.78 | 13.4 | 14.7 | 15.9 | 17.2 | 18.4 | 20.0 | 21.5 | 23.5 | 25.0 | 27.0 | 29.0 | 31.0 | 33.5 | 36.0 | 38.5 | 41.0 | 43.5 | 46.5 | 49.5 | 52 | 56 | 59 | 63 | 68 |
| | .90 | .91 | .92 | .93 | .95 | .96 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Stock Drive Selections



| Speed Ratio | Stock Sheaves Diameter | | 3500 RPM Driver | | 1750 RPM Driver | | 1160 RPM Driver | | Belt Number and Approx. Center Distance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 3VX | Driven RPM | HP/Belt 3VX | Driven RPM | HP/Belt 3VX | 3VX 265 | 3VX 280 | 3VX 300 | 3VX 315 | 3VX 335 | 3VX 355 | 3VX 375 |
| **1.79** | 3.65 | 6.50 | 1953 | 7.42 | 977 | 4.13 | 647 | 2.87 | – | – | 6.9 | 7.6 | 8.7 | 9.7 | 10.7 |
| | 4.50 | 8.00 | 1959 | 9.87 | 980 | 5.53 | 649 | 3.84 | – | – | – | – | – | 7.7 | 8.8 |
| | 2.80 | 5.00 | 1944 | 4.81 | 972 | 2.69 | 644 | 1.88 | 7.0 | 7.8 | 8.8 | 9.6 | 10.6 | 11.6 | 12.6 |
| **1.80** | 3.35 | 6.00 | 1941 | 6.52 | 971 | 3.62 | 643 | 2.52 | 5.8 | 6.5 | 7.5 | 8.3 | 9.3 | 10.3 | 11.3 |
| | 10.60 | 19.00 | 1949 | 21.47 | 974 | 14.50 | 646 | 10.31 | – | – | – | – | – | – | – |
| **1.81** | 2.65 | 4.75 | 1936 | 4.34 | 968 | 2.43 | 642 | 1.70 | 7.4 | 8.1 | 9.1 | 9.9 | 10.9 | 11.9 | 12.9 |
| **1.88** | 3.00 | 5.60 | 1860 | 5.45 | 930 | 3.03 | 617 | 2.12 | 6.4 | 7.1 | 8.1 | 8.9 | 9.9 | 10.9 | 11.9 |
| | 2.65 | 5.00 | 1838 | 4.35 | 919 | 2.44 | 609 | 1.71 | 7.1 | 7.9 | 8.9 | 9.7 | 10.7 | 11.7 | 12.7 |
| **1.90** | 3.65 | 6.90 | 1839 | 7.43 | 920 | 4.13 | 610 | 2.87 | – | – | 6.5 | 7.3 | 8.3 | 9.3 | 10.3 |
| | 5.60 | 10.60 | 1841 | 12.81 | 921 | 7.29 | 610 | 5.07 | – | – | – | – | – | – | – |
| **1.91** | 2.80 | 5.30 | 1833 | 4.82 | 917 | 2.69 | 608 | 1.88 | 6.8 | 7.5 | 8.5 | 9.3 | 10.3 | 11.3 | 12.3 |
| **1.92** | 3.15 | 6.00 | 1824 | 5.91 | 912 | 3.29 | 604 | 2.29 | 5.9 | 6.7 | 7.7 | 8.4 | 9.5 | 10.5 | 11.5 |
| **1.95** | 3.35 | 6.50 | 1791 | 6.53 | 895 | 3.63 | 593 | 2.53 | – | – | 7.1 | 7.9 | 8.9 | 9.9 | 10.9 |
| | 4.12 | 8.00 | 1792 | 8.81 | 896 | 4.91 | 594 | 3.41 | – | – | – | – | – | 8.0 | 9.0 |
| **2.01** | 5.30 | 10.60 | 1742 | 12.05 | 871 | 6.82 | 577 | 4.74 | – | – | – | – | – | – | – |
| | 2.65 | 5.30 | 1733 | 4.36 | 367 | 2.44 | 574 | 1.71 | 6.9 | 7.6 | 8.7 | 9.4 | 10.4 | 11.4 | 12.4 |
| **2.02** | 2.80 | 5.60 | 1734 | 4.83 | 867 | 2.70 | 575 | 1.89 | 6.5 | 7.3 | 8.3 | 9.0 | 10.1 | 11.1 | 12.1 |
| | 3.00 | 6.00 | 1735 | 5.46 | 868 | 3.04 | 575 | 2.12 | 6.0 | 6.8 | 7.8 | 8.5 | 9.6 | 10.6 | 11.6 |
| **2.04** | 6.90 | 14.00 | 1719 | 15.88 | 859 | 9.30 | 570 | 6.49 | – | – | – | – | – | – | – |
| **2.08** | 3.15 | 6.50 | 1682 | 5.93 | 841 | 3.30 | 558 | 2.30 | – | 6.2 | 7.2 | 8.0 | 9.0 | 10.0 | 11.0 |
| | 3.35 | 6.90 | 1686 | 6.54 | 843 | 3.63 | 559 | 2.53 | – | – | 6.7 | 7.5 | 8.5 | 9.5 | 10.6 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.81** | **.82** | **.84** | **.85** | **.86** | **.87** | **.88** |
| **2.13** | 2.65 | 5.60 | 1640 | 4.36 | 820 | 2.44 | 543 | 1.71 | 6.6 | 7.4 | 8.4 | 9.2 | 10.2 | 11.2 | 12.2 |
| | 5.00 | 10.60 | 1642 | 11.27 | 821 | 6.35 | 544 | 4.41 | – | – | – | – | – | – | – |
| **2.16** | 2.80 | 6.00 | 1618 | 4.84 | 809 | 2.70 | 536 | 1.89 | 6.1 | 6.9 | 7.9 | 8.7 | 9.7 | 10.7 | 11.7 |
| | 6.50 | 14.00 | 1618 | 14.99 | 809 | 8.70 | 536 | 6.06 | – | – | – | – | – | – | – |
| **2.19** | 3.00 | 6.50 | 1601 | 5.47 | 800 | 3.04 | 531 | 2.12 | – | 6.3 | 7.3 | 8.1 | 9.1 | 10.1 | 11.2 |
| **2.21** | 3.15 | 6.90 | 1584 | 5.93 | 792 | 3.30 | 525 | 2.30 | – | – | 6.9 | 7.6 | 8.7 | 9.7 | 10.7 |
| | 3.65 | 8.00 | 1585 | 7.45 | 792 | 4.14 | 525 | 2.88 | – | – | – | – | 7.3 | 8.3 | 9.3 |
| **2.24** | 4.75 | 10.60 | 1559 | 10.60 | 780 | 5.95 | 517 | 4.13 | – | – | – | – | – | – | – |
| **2.29** | 2.65 | 6.00 | 1529 | 4.37 | 765 | 2.45 | 507 | 1.71 | 6.2 | 7.0 | 8.0 | 8.8 | 9.8 | 10.8 | 11.8 |
| **2.32** | 3.00 | 6.90 | 1507 | 5.47 | 754 | 3.05 | 500 | 2.12 | – | – | 7.0 | 7.7 | 8.8 | 9.8 | 10.8 |
| **2.34** | 6.00 | 14.00 | 1493 | 13.83 | 746 | 7.93 | 495 | 5.52 | – | – | – | – | – | – | – |
| **2.35** | 2.80 | 6.50 | 1492 | 4.84 | 746 | 2.70 | 495 | 1.89 | – | 64 | 7.5 | 8.2 | 9.3 | 10.3 | 11.3 |
| **2.36** | 10.6 | 25.00 | 1480 | 21.5 | 740 | 14.51 | 491 | 10.33 | – | – | – | – | – | – | – |
| **2.37** | 4.50 | 10.60 | 1476 | 9.91 | 738 | 5.54 | 489 | 3.85 | – | – | – | – | – | – | – |
| **2.38** | 8.00 | 19.00 | 1468 | 18.07 | 734 | 10.94 | 487 | 7.66 | – | – | – | – | – | – | – |
| **2.41** | 3.35 | 8.00 | 1453 | 6.55 | 726 | 3.64 | 482 | 2.53 | – | – | – | – | 7.5 | 8.5 | 9.6 |
| **2.48** | 2.65 | 6.50 | 1411 | 4.37 | 705 | 2.45 | 468 | 1.71 | 5.7 | 6.5 | 7.6 | 8.3 | 9.4 | 10.4 | 11.4 |
| **2.49** | 2.80 | 6.90 | 1405 | 4.85 | 703 | 2.71 | 466 | 1.89 | – | 6.0 | 7.1 | 7.9 | 8.9 | 9.9 | 10.9 |
| **2.51** | 5.60 | 14.00 | 1392 | 12.84 | 696 | 7.31 | 462 | 5.08 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.78** | **.80** | **.82** | **.83** | **.84** | **.86** | **.87** |
| **2.56** | 3.15 | 8.00 | 1365 | 5.94 | 682 | 3.30 | 452 | 2.30 | – | – | – | – | 7.6 | 8.7 | 9.7 |
| **2.59** | 4.12 | 10.60 | 1350 | 8.84 | 675 | 4.92 | 448 | 3.42 | – | – | – | – | – | – | – |
| **2.63** | 2.65 | 6.90 | 1328 | 4.38 | 664 | 2.45 | 440 | 1.72 | – | 6.1 | 7.2 | 8.0 | 9.0 | 10.0 | 11.0 |
| **2.66** | 5.30 | 14.00 | 1317 | 12.08 | 659 | 6.83 | 437 | 4.75 | – | – | – | – | – | – | – |
| **2.69** | 3.00 | 8.00 | 1299 | 5.48 | 649 | 3.05 | 430 | 2.13 | – | – | – | 6.6 | 7.7 | 8.8 | 9.8 |
| **2.77** | 6.90 | 19.00 | 1265 | 15.90 | 633 | 9.31 | 419 | 6.50 | – | – | – | – | – | – | – |
| **2.82** | 5.00 | 14.00 | 1242 | 11.29 | 621 | 6.36 | 412 | 4.41 | – | – | – | – | – | – | – |
| **2.89** | 2.80 | 8.00 | 1211 | 4.86 | 605 | 2.71 | 401 | 1.89 | – | – | – | 6.8 | 7.8 | 8.9 | 9.9 |
| **2.93** | 3.65 | 10.60 | 1194 | 7.46 | 597 | 4.15 | 396 | 2.88 | – | – | – | – | – | – | – |
| **2.94** | 6.50 | 19.00 | 1191 | 15.01 | 596 | 8.71 | 395 | 6.07 | – | – | – | – | – | – | – |
| **2.97** | 4.75 | 14.00 | 1179 | 10.61 | 590 | 5.95 | 391 | 4.13 | – | – | – | – | – | – | – |
| **3.06** | 2.65 | 8.00 | 1145 | 4.38 | 572 | 2.45 | 379 | 1.72 | – | – | – | 6.9 | 7.9 | 9.0 | 10.0 |
| **3.13** | 4.50 | 14.00 | 1116 | 9.92 | 558 | 5.55 | 370 | 3.85 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | **.75** | **.78** | **.80** | **.82** | **.84** | **.85** |

* NOTE: Stock belt size 3VX250 not shown

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Stock Drive Selections

| Speed Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX |
| | 400 | 425 | 450 | 475 | 500 | 530 | 560 | 600 | 630 | 670 | 710 | 750 | 800 | 850 | 900 | 950 | 1000 | 1060 | 1120 | 1180 | 1250 | 1320 | 1400 | 1500 |
| 1.79 | 11.9 | 13.2 | 15.5 | 15.7 | 17.0 | 18.5 | 20.0 | 22.0 | 23.5 | 25.5 | 27.5 | 29.5 | 32.0 | 34.5 | 37.0 | 39.5 | 42.0 | 45.0 | 48.0 | 51 | 55 | 58 | 62 | 67 |
| | 10.0 | 11.3 | 12.6 | 13.8 | 15.1 | 16.6 | 18.1 | 20.1 | 21.6 | 23.6 | 25.6 | 27.6 | 30.1 | 32.6 | 35.1 | 37.6 | 40.1 | 43.2 | 46.2 | 49 | 53 | 56 | 60 | 65 |
| 1.80 | 13.8 | 15.1 | 16.3 | 17.6 | 18.8 | 20.3 | 21.8 | 23.9 | 25.4 | 27.4 | 29.4 | 31.4 | 33.9 | 36.4 | 38.9 | 41.4 | 43.9 | 46.9 | 49.9 | 53 | 56 | 60 | 64 | 69 |
| | 12.6 | 13.8 | 15.1 | 16.4 | 17.6 | 19.1 | 20.6 | 22.6 | 24.1 | 26.1 | 28.1 | 30.1 | 32.6 | 35.1 | 37.6 | 40.1 | 42.6 | 45.6 | 48.6 | 52 | 55 | 59 | 63 | 68 |
| | – | – | – | – | – | – | – | – | – | – | – | – | – | 18.8 | 21.4 | 23.9 | 26.4 | 29.5 | 32.5 | 36 | 39 | 43 | 47 | 52 |
| 1.81 | 14.2 | 15.4 | 16.7 | 17.9 | 19.2 | 20.7 | 22.2 | 24.2 | 25.7 | 27.7 | 29.7 | 31.7 | 34.2 | 36.7 | 39.2 | 41.7 | 44.2 | 47.2 | 50.2 | 53 | 57 | 60 | 64 | 69 |
| 1.88 | 13.2 | 14.4 | 15.7 | 16.9 | 18.2 | 19.7 | 21.2 | 23.2 | 24.7 | 26.7 | 28.7 | 30.7 | 33.2 | 35.7 | 38.2 | 40.7 | 43.2 | 46.2 | 49.2 | 52 | 56 | 59 | 63 | 68 |
| 1.90 | 13.9 | 15.2 | 16.5 | 17.7 | 19.0 | 20.5 | 22.0 | 24.0 | 25.5 | 27.5 | 29.5 | 31.5 | 34.0 | 36.5 | 39.0 | 41.5 | 44.0 | 47.0 | 50.0 | 53 | 56 | 60 | 64 | 69 |
| | 11.6 | 12.9 | 14.1 | 15.4 | 16.6 | 18.1 | 19.7 | 21.7 | 23.2 | 25.2 | 27.2 | 29.2 | 31.7 | 34.2 | 36.7 | 39.2 | 41.7 | 44.7 | 47.7 | 51 | 54 | 58 | 62 | 67 |
| | – | – | 9.5 | 10.7 | 12.0 | 13.6 | 15.1 | 17.1 | 18.6 | 20.6 | 22.6 | 24.7 | 27.2 | 29.7 | 32.2 | 34.7 | 37.2 | 40.2 | 43.2 | 46 | 50 | 53 | 57 | 62 |
| 1.91 | 13.6 | 14.8 | 16.1 | 17.3 | 18.6 | 20.1 | 21.6 | 23.6 | 25.1 | 27.1 | 29.1 | 31.1 | 33.6 | 36.1 | 38.6 | 41.1 | 43.6 | 46.6 | 49.6 | 53 | 56 | 60 | 64 | 69 |
| 1.92 | 12.7 | 14.0 | 15.3 | 16.5 | 17.8 | 19.3 | 20.8 | 22.8 | 24.3 | 26.3 | 28.3 | 30.3 | 32.8 | 35.3 | 37.8 | 40.3 | 42.8 | 45.8 | 48.8 | 52 | 55 | 59 | 63 | 68 |
| 1.95 | 12.2 | 13.4 | 14.7 | 15.9 | 17.2 | 18.7 | 20.2 | 22.2 | 23.7 | 25.7 | 27.7 | 29.7 | 32.2 | 34.7 | 37.2 | 39.7 | 42.2 | 45.2 | 48.2 | 51 | 55 | 58 | 62 | 67 |
| | 10.3 | 11.6 | 12.8 | 14.1 | 15.4 | 16.9 | 18.4 | 20.4 | 21.9 | 23.9 | 25.9 | 27.9 | 30.4 | 32.9 | 35.4 | 37.9 | 40.4 | 43.4 | 46.4 | 49 | 53 | 56 | 60 | 65 |
| 2.01 | – | – | 9.7 | 10.9 | 12.2 | 13.8 | 15.3 | 17.3 | 18.8 | 20.9 | 22.9 | 24.9 | 27.4 | 29.9 | 32.4 | 34.9 | 37.4 | 40.4 | 43.4 | 46 | 50 | 53 | 58 | 62 |
| 2.02 | 13.7 | 15.0 | 16.2 | 17.5 | 18.7 | 20.2 | 21.7 | 23.7 | 25.2 | 27.2 | 29.2 | 31.2 | 33.7 | 36.2 | 38.7 | 41.2 | 43.7 | 46.7 | 49.7 | 53 | 56 | 60 | 64 | 69 |
| | 13.3 | 14.6 | 15.8 | 17.1 | 18.4 | 19.9 | 21.4 | 23.4 | 24.9 | 26.9 | 28.9 | 30.9 | 33.4 | 35.9 | 38.4 | 40.9 | 43.4 | 46.4 | 49.4 | 52 | 56 | 59 | 63 | 68 |
| | 12.8 | 14.1 | 15.4 | 16.6 | 17.9 | 19.4 | 20.9 | 22.9 | 24.4 | 26.4 | 28.4 | 30.4 | 32.9 | 35.4 | 37.9 | 40.4 | 42.9 | 45.9 | 48.9 | 52 | 55 | 59 | 63 | 68 |
| 2.04 | – | – | – | – | – | – | – | 13.1 | 14.7 | 16.7 | 18.8 | 20.8 | 23.3 | 25.8 | 28.4 | 30.9 | 33.4 | 36.4 | 39.4 | 42 | 46 | 49 | 53 | 58 |
| 2.08 | 12.3 | 13.6 | 14.8 | 16.1 | 17.3 | 18.9 | 20.4 | 22.4 | 23.9 | 25.9 | 27.9 | 29.9 | 32.4 | 34.9 | 37.4 | 39.9 | 42.4 | 45.4 | 48.4 | 51 | 55 | 58 | 62 | 67 |
| | 11.8 | 13.1 | 14.3 | 15.6 | 16.9 | 18.4 | 19.9 | 21.9 | 23.4 | 25.4 | 27.4 | 29.4 | 31.9 | 34.4 | 36.9 | 39.4 | 41.9 | 44.9 | 47.9 | 51 | 54 | 58 | 64 | 67 |
| | .90 | .91 | .92 | .93 | .94 | .95 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |
| 2.13 | 13.4 | 14.7 | 16.0 | 17.2 | 18.5 | 20.0 | 21.5 | 23.5 | 25.0 | 27.0 | 29.0 | 31.0 | 33.5 | 36.0 | 38.5 | 41.0 | 43.5 | 46.5 | 49.5 | 53 | 56 | 60 | 63 | 69 |
| | – | – | 9.9 | 11.2 | 12.4 | 14.0 | 15.5 | 17.5 | 19.0 | 21.1 | 23.1 | 25.1 | 27.6 | 30.1 | 32.6 | 35.1 | 37.6 | 40.7 | 43.7 | 47 | 50 | 54 | 58 | 63 |
| 2.16 | 13.0 | 14.3 | 15.5 | 16.8 | 18.0 | 19.5 | 21.0 | 23.0 | 24.5 | 26.5 | 28.5 | 30.6 | 33.1 | 35.6 | 38.1 | 40.6 | 43.1 | 46.1 | 49.1 | 52 | 56 | 59 | 63 | 68 |
| | – | – | – | – | – | – | – | 13.4 | 14.9 | 17.0 | 19.0 | 21.1 | 23.6 | 26.1 | 28.7 | 31.2 | 33.7 | 36.7 | 39.7 | 43 | 46 | 50 | 54 | 59 |
| 2.19 | 12.4 | 13.7 | 14.9 | 16.2 | 17.5 | 19.0 | 20.5 | 22.5 | 24.0 | 26.0 | 28.0 | 30.0 | 32.5 | 35.0 | 37.5 | 40.0 | 42.5 | 45.5 | 48.5 | 52 | 55 | 59 | 63 | 68 |
| 2.21 | 12.0 | 13.2 | 14.5 | 15.7 | 17.0 | 18.5 | 20.0 | 22.0 | 23.5 | 25.5 | 27.5 | 29.6 | 32.1 | 34.6 | 37.1 | 39.6 | 42.1 | 45.1 | 48.1 | 50 | 55 | 58 | 61 | 67 |
| | 10.6 | 11.9 | 13.2 | 14.4 | 15.7 | 17.2 | 18.7 | 20.7 | 22.2 | 24.3 | 26.3 | 28.3 | 30.8 | 33.3 | 35.8 | 38.3 | 40.8 | 43.8 | 46.8 | 50 | 53 | 57 | 61 | 66 |
| 2.24 | – | – | 10.0 | 11.3 | 12.6 | 14.1 | 15.7 | 17.7 | 19.2 | 21.2 | 23.3 | 25.3 | 27.8 | 30.3 | 32.8 | 35.3 | 37.8 | 40.8 | 43.9 | 47 | 50 | 54 | 58 | 63 |
| 2.29 | 13.1 | 14.4 | 15.6 | 16.9 | 18.1 | 19.6 | 21.1 | 23.1 | 24.7 | 26.7 | 28.7 | 30.7 | 33.2 | 35.7 | 38.2 | 40.7 | 43.2 | 46.2 | 49.2 | 52 | 56 | 59 | 63 | 68 |
| 2.32 | 12.1 | 13.3 | 14.6 | 15.9 | 17.1 | 18.6 | 20.1 | 22.1 | 23.6 | 25.7 | 27.7 | 29.7 | 32.2 | 34.7 | 37.2 | 39.7 | 42.2 | 45.2 | 48.2 | 51 | 55 | 58 | 62 | 67 |
| 2.34 | – | – | – | – | – | – | 11.6 | 13.7 | 15.3 | 17.3 | 19.4 | 21.4 | 24.0 | 26.5 | 29.0 | 31.5 | 34.1 | 37.1 | 40.1 | 43 | 47 | 50 | 54 | 59 |
| 2.35 | 12.6 | 13.8 | 15.1 | 16.3 | 17.6 | 19.1 | 20.6 | 22.6 | 24.1 | 26.1 | 28.1 | 30.1 | 32.6 | 35.2 | 37.7 | 40.2 | 42.7 | 45.7 | 48.7 | 52 | 55 | 59 | 63 | 68 |
| 2.36 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 20.8 | 24.0 | 27.1 | 30 | 34 | 37 | 41 | 46 |
| 2.37 | – | 8.9 | 10.2 | 11.5 | 12.8 | 14.3 | 15.9 | 17.9 | 19.4 | 21.4 | 23.4 | 25.5 | 28.0 | 30.5 | 33.0 | 35.5 | 38.0 | 41.0 | 44.0 | 47 | 51 | 54 | 58 | 63 |
| 2.38 | – | – | – | – | – | – | – | – | – | – | – | 15.3 | 18.0 | 20.6 | 23.2 | 25.7 | 28.3 | 31.3 | 34.4 | 37 | 41 | 44 | 48 | 54 |
| 2.41 | 10.8 | 12.1 | 13.4 | 14.7 | 15.9 | 17.4 | 18.9 | 21.0 | 22.5 | 24.5 | 26.5 | 28.5 | 31.0 | 33.5 | 36.0 | 38.5 | 41.0 | 44.0 | 47.0 | 50 | 54 | 57 | 61 | 66 |
| 2.48 | 12.7 | 13.9 | 15.2 | 16.5 | 17.7 | 19.2 | 20.7 | 22.7 | 24.2 | 26.2 | 28.3 | 30.3 | 32.8 | 35.3 | 37.8 | 40.3 | 42.8 | 45.8 | 48.8 | 52 | 55 | 59 | 63 | 68 |
| 2.49 | 12.2 | 13.5 | 14.7 | 16.0 | 17.3 | 18.8 | 20.3 | 22.3 | 23.8 | 25.8 | 27.8 | 29.8 | 32.3 | 34.8 | 37.3 | 39.8 | 42.3 | 45.3 | 48.3 | 51 | 55 | 58 | 62 | 67 |
| 2.51 | – | – | – | – | – | – | 11.9 | 14.0 | 15.5 | 17.6 | 19.7 | 21.7 | 24.3 | 26.8 | 29.3 | 31.8 | 34.4 | 37.4 | 40.4 | 43 | 47 | 50 | 54 | 59 |
| | .89 | .90 | .91 | .92 | .93 | .95 | .96 | .97 | .98 | .99 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |
| 2.56 | 11.0 | 12.3 | 13.5 | 14.8 | 16.1 | 17.6 | 19.1 | 21.1 | 22.6 | 24.6 | 26.6 | 28.6 | 31.2 | 33.7 | 36.2 | 38.7 | 41.2 | 44.2 | 47.2 | 50 | 54 | 57 | 61 | 66 |
| 2.59 | – | 9.1 | 10.4 | 11.7 | 13.0 | 14.6 | 16.1 | 18.2 | 19.7 | 21.7 | 23.7 | 25.7 | 28.3 | 30.8 | 33.3 | 35.8 | 38.3 | 41.3 | 44.3 | 47 | 51 | 54 | 58 | 63 |
| 2.63 | 12.3 | 13.6 | 14.9 | 16.1 | 17.4 | 18.9 | 20.4 | 22.4 | 23.9 | 25.9 | 27.9 | 29.9 | 32.4 | 34.9 | 37.4 | 39.9 | 42.5 | 45.5 | 48.5 | 51 | 55 | 58 | 62 | 67 |
| 2.66 | – | – | – | – | – | – | 12.1 | 14.2 | 15.7 | 17.8 | 19.9 | 21.9 | 24.5 | 27.0 | 29.5 | 32.1 | 34.6 | 37.6 | 40.6 | 44 | 47 | 51 | 55 | 60 |
| 2.69 | 11.1 | 12.4 | 13.6 | 14.9 | 16.2 | 17.7 | 19.2 | 21.2 | 22.7 | 24.7 | 26.7 | 28.8 | 31.3 | 33.8 | 36.3 | 38.8 | 41.3 | 44.3 | 47.3 | 50 | 54 | 57 | 61 | 66 |
| 2.77 | – | – | – | – | – | – | – | – | – | – | – | 16.0 | 18.7 | 21.3 | 23.9 | 26.5 | 29.0 | 32.1 | 35.1 | 38 | 42 | 45 | 49 | 54 |
| 2.82 | – | – | – | – | – | – | 12.3 | 14.4 | 16.0 | 18.0 | 20.1 | 22.1 | 24.7 | 27.2 | 29.7 | 32.3 | 34.8 | 37.8 | 40.8 | 44 | 47 | 51 | 55 | 60 |
| 2.89 | 11.2 | 12.5 | 13.8 | 15.0 | 16.3 | 17.8 | 19.3 | 21.4 | 22.9 | 24.9 | 26.9 | 28.9 | 31.4 | 33.9 | 36.4 | 38.9 | 41.4 | 44.4 | 47.5 | 50 | 54 | 57 | 61 | 66 |
| 2.93 | – | 9.4 | 10.8 | 12.1 | 13.4 | 14.9 | 16.4 | 18.5 | 20.0 | 22.0 | 24.1 | 26.1 | 28.6 | 31.1 | 33.6 | 36.1 | 38.7 | 41.7 | 44.7 | 48 | 51 | 55 | 59 | 64 |
| 2.94 | – | – | – | – | – | – | – | – | – | – | – | 16.3 | 19.0 | 21.6 | 24.2 | 26.8 | 29.3 | 32.4 | 35.4 | 38 | 42 | 46 | 50 | 55 |
| 2.97 | – | – | – | – | – | – | 12.4 | 14.5 | 16.1 | 18.2 | 20.3 | 22.3 | 24.9 | 27.4 | 29.9 | 32.5 | 35.0 | 38.0 | 41.0 | 44 | 48 | 51 | 55 | 60 |
| 3.06 | 11.3 | 12.6 | 13.9 | 15.1 | 16.4 | 17.9 | 19.5 | 21.5 | 23.0 | 25.0 | 27.0 | 29.0 | 31.5 | 34.0 | 36.5 | 39.0 | 41.6 | 44.6 | 47.6 | 51 | 54 | 58 | 62 | 67 |
| 3.13 | – | – | – | – | – | 10.9 | 12.6 | 14.7 | 16.3 | 18.4 | 20.4 | 22.5 | 25.0 | 27.6 | 30.1 | 32.6 | 35.2 | 38.2 | 41.2 | 44 | 48 | 51 | 55 | 60 |
| | .87 | .89 | .90 | .91 | .92 | .94 | .95 | .96 | .97 | .99 | 1.00 | 1.01 | 1.02 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.14 | 1.15 |

Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Stock Drive Selections

| Speed Ratio | Stock Sheaves Outside Diam. Driver | Stock Sheaves Outside Diam. Driven | 3500 RPM Driver Driven RPM | 3500 RPM Driver HP/Belt 3VX | 1750 RPM Driver Driven RPM | 1750 RPM Driver HP/Belt 3VX | 1160 RPM Driver Driven RPM | 1160 RPM Driver HP/Belt 3VX | Belt Number and Approx. Center Distance 3VX 425 | 3VX 450 | 3VX 475 | 3VX 500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3.14** | 8.00 | 25.00 | 1115 | 18.09 | 558 | 10.94 | 370 | 7.67 | – | – | – | – |
| **3.17** | 10.60 | 33.50 | 1104 | 21.52 | 552 | 14.52 | 366 | 10.33 | – | – | – | – |
| **3.18** | 6.00 | 19.00 | 1099 | 13.84 | 549 | 7.94 | 364 | 5.52 | – | – | – | – |
| **3.20** | 3.35 | 10.60 | 1095 | 6.56 | 547 | 3.65 | 363 | 2.54 | 9.6 | 10.9 | 12.3 | 13.6 |
| **3.40** | 3.15 | 10.60 | 1028 | 5.95 | 514 | 3.31 | 341 | 2.31 | 9.7 | 11.1 | 12.4 | 13.7 |
| **3.41** | 5.60 | 19.00 | 1025 | 12.85 | 513 | 7.31 | 340 | 5.08 | – | – | – | – |
| **3.43** | 4.12 | 14.00 | 1021 | 8.85 | 511 | 4.93 | 338 | 3.42 | – | – | – | – |
| **3.58** | 3.00 | 10.60 | 979 | 5.49 | 489 | 3.05 | 324 | 2.13 | 9.8 | 11.2 | 12.5 | 13.8 |
| **3.61** | 5.30 | 19.00 | 970 | 12.09 | 485 | 6.84 | 321 | 4.75 | – | – | – | – |
| **3.64** | 6.90 | 25.00 | 961 | 15.91 | 480 | 9.32 | 318 | 6.50 | – | – | – | – |
| **3.83** | 5.00 | 19.00 | 914 | 11.29 | 457 | 6.36 | 303 | 4.42 | – | – | – | – |
| **3.84** | 2.80 | 10.60 | 912 | 4.86 | 456 | 2.71 | 302 | 1.90 | 10.0 | 11.3 | 12.6 | 13.9 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.88** | **.89** | **.91** | **.92** |
| **3.87** | 6.50 | 25.00 | 905 | 15.02 | 452 | 8.71 | 300 | 6.07 | – | – | – | – |
| **3.88** | 3.65 | 14.00 | 903 | 7.47 | 452 | 4.15 | 299 | 2.89 | – | – | – | – |
| **4.03** | 4.75 | 19.00 | 868 | 10.62 | 434 | 5.96 | 288 | 4.14 | – | – | – | – |
| **4.06** | 2.65 | 10.60 | 863 | 4.39 | 431 | 2.46 | 286 | 1.72 | 10.1 | 11.4 | 12.7 | 14.0 |
| **4.19** | 6.00 | 25.00 | 835 | 13.85 | 417 | 7.94 | 277 | 5.52 | – | – | – | – |
| **4.21** | 8.00 | 33.50 | 832 | 18.09 | 416 | 10.95 | 276 | 7.67 | – | – | – | – |
| **4.23** | 3.35 | 14.00 | 828 | 6.57 | 414 | 3.65 | 274 | 2.54 | – | – | – | 10.0 |
| **4.26** | 4.50 | 19.00 | 822 | 9.93 | 411 | 5.55 | 272 | 3.86 | – | – | – | – |
| **4.50** | 3.15 | 14.00 | 778 | 5.96 | 389 | 3.31 | 258 | 2.31 | – | – | – | 10.1 |
| | 5.60 | 25.00 | 779 | 12.86 | 389 | 7.31 | 258 | 5.08 | – | – | – | – |
| **4.66** | 4.12 | 19.00 | 752 | 8.85 | 376 | 4.93 | 249 | 3.42 | – | – | – | – |
| **4.73** | 3.00 | 14.00 | 740 | 5.49 | 370 | 3.06 | 245 | 2.13 | – | – | – | 10.2 |
| **4.75** | 5.30 | 25.00 | 736 | 12.09 | 368 | 6.84 | 244 | 4.75 | – | – | – | – |
| **4.88** | 6.90 | 33.50 | 717 | 15.91 | 358 | 9.32 | 238 | 6.50 | – | – | – | – |
| **5.04** | 5.00 | 25.00 | 694 | 11.30 | 347 | 6.36 | 230 | 4.42 | – | – | – | – |
| **5.07** | 2.80 | 14.00 | 690 | 4.87 | 345 | 2.72 | 229 | 1.90 | – | – | – | 10.3 |
| **5.19** | 6.50 | 33.50 | 675 | 15.02 | 337 | 8.71 | 224 | 6.07 | – | – | – | – |
| **5.26** | 3.65 | 19.00 | 665 | 7.47 | 332 | 4.15 | 220 | 2.89 | – | – | – | – |
| **5.31** | 4.75 | 25.00 | 659 | 10.62 | 330 | 5.96 | 219 | 4.14 | – | – | – | – |
| **5.37** | 2.65 | 14.00 | 652 | 4.39 | 326 | 2.46 | 216 | 1.72 | – | – | – | 10.4 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.80** | **.83** | **.85** | **.87** |
| **5.61** | 4.50 | 25.00 | 624 | 9.93 | 312 | 5.55 | 207 | 3.86 | – | – | – | – |
| **5.62** | 6.00 | 33.50 | 623 | 13.85 | 311 | 7.94 | 206 | 5.52 | – | – | – | – |
| **5.74** | 3.35 | 19.00 | 609 | 6.57 | 305 | 3.65 | 202 | 2.54 | – | – | – | – |
| **6.03** | 5.60 | 33.50 | 581 | 12.86 | 290 | 7.32 | 192 | 5.08 | – | – | – | – |
| **6.11** | 3.15 | 19.00 | 573 | 4.91 | 286 | 2.84 | 190 | 2.31 | – | – | – | – |
| **6.13** | 4.12 | 25.00 | 571 | 8.85 | 285 | 4.93 | 189 | 3.43 | – | – | – | – |
| **6.37** | 5.30 | 33.50 | 549 | 12.09 | 275 | 6.84 | 182 | 4.75 | – | – | – | – |
| **6.42** | 3.00 | 19.00 | 545 | 5.49 | 272 | 3.06 | 181 | 2.13 | – | – | – | – |
| **6.76** | 5.00 | 33.50 | 518 | 11.30 | 259 | 6.36 | 172 | 4.42 | – | – | – | – |
| **6.89** | 2.80 | 19.00 | 508 | 4.87 | 254 | 2.72 | 168 | 1.90 | – | – | – | – |
| **6.93** | 3.65 | 25.00 | 505 | 7.48 | 253 | 4.15 | 167 | 2.89 | – | – | – | – |
| **7.12** | 4.75 | 33.50 | 492 | 10.62 | 246 | 5.96 | 163 | 4.14 | – | – | – | – |
| **7.29** | 2.65 | 19.00 | 480 | 4.39 | 240 | 2.46 | 159 | 1.72 | – | – | – | – |
| **7.52** | 4.50 | 33.50 | 466 | 9.93 | 233 | 5.56 | 154 | 3.86 | – | – | – | – |
| **7.56** | 3.35 | 25.00 | 463 | 6.57 | 231 | 3.65 | 153 | 2.54 | – | – | – | – |
| **8.05** | 3.15 | 25.00 | 435 | 5.96 | 217 | 3.31 | 144 | 2.31 | – | – | – | – |
| **8.22** | 4.12 | 33.50 | 426 | 8.85 | 213 | 4.93 | 141 | 3.43 | – | – | – | – |
| **8.46** | 3.00 | 25.00 | 414 | 5.50 | 207 | 3.06 | 137 | 2.13 | – | – | – | – |
| **9.07** | 2.80 | 25.00 | 386 | 4.87 | 193 | 2.72 | 128 | 1.90 | – | – | – | – |
| **9.29** | 3.65 | 33.50 | 377 | 7.48 | 188 | 4.15 | 125 | 2.89 | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | – | – | – |
| **9.60** | 2.65 | 25.00 | 365 | 4.39 | 182 | 2.46 | 121 | 1.72 | – | – | – | – |
| **10.14** | 3.35 | 33.50 | 345 | 6.57 | 173 | 3.65 | 114 | 2.54 | – | – | – | – |
| **10.79** | 3.15 | 33.50 | 324 | 5.96 | 162 | 3.31 | 108 | 2.31 | – | – | – | – |
| **11.34** | 3.00 | 33.50 | 309 | 5.50 | 154 | 3.06 | 102 | 2.13 | – | – | – | – |
| **12.16** | 2.80 | 33.50 | 288 | 4.87 | 144 | 2.72 | 95 | 1.90 | – | – | – | – |
| **12.87** | 2.65 | 33.50 | 272 | 4.39 | 136 | 2.46 | 90 | 1.72 | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | – | – | – |

* Note: Stock belt sizes 3VX250 thru 3VX400 not shown

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Stock Drive Selections

| Speed Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VX 530 | 3VX 560 | 3VX 600 | 3VX 630 | 3VX 670 | 3VX 710 | 3VX 750 | 3VX 800 | 3VX 850 | 3VX 900 | 3VX 950 | 3VX 1000 | 3VX 1060 | 3VX 1120 | 3VX 1180 | 3VX 1250 | 3VX 1320 | 3VX 1400 | 3VX 1500 |
| **3.14** | – | – | – | – | – | – | – | – | – | – | 19.8 | 22.5 | 25.7 | 28.8 | 32.0 | 35.6 | 39 | 43 | 48 |
| **3.17** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 25.3 | 29 | 33 | 39 |
| **3.18** | – | – | – | – | – | 14.4 | 16.6 | 19.3 | 21.9 | 24.5 | 27.1 | 29.7 | 32.7 | 35.8 | 38.8 | 42.4 | 46 | 50 | 55 |
| **3.20** | 15.1 | 16.7 | 18.7 | 20.2 | 22.3 | 24.3 | 26.3 | 28.8 | 31.3 | 33.9 | 36.4 | 38.9 | 41.9 | 44.9 | 47.9 | 51.4 | 55 | 59 | 64 |
| **3.40** | 15.2 | 16.8 | 18.8 | 20.4 | 22.4 | 24.4 | 26.4 | 29.0 | 31.5 | 34.0 | 36.5 | 39.0 | 42.0 | 45.1 | 48.1 | 51.6 | 55 | 59 | 64 |
| **3.41** | – | – | – | – | – | 14.7 | 16.9 | 19.5 | 22.2 | 24.8 | 27.4 | 29.9 | 33.0 | 36.1 | 39.1 | 42.7 | 46 | 50 | 55 |
| **3.43** | 11.2 | 12.8 | 15.0 | 16.5 | 18.6 | 20.7 | 22.7 | 25.3 | 27.8 | 30.4 | 32.9 | 35.4 | 38.5 | 41.5 | 44.5 | 48.0 | 52 | 56 | 61 |
| **3.58** | 15.3 | 16.9 | 18.9 | 20.5 | 22.5 | 24.5 | 26.6 | 29.1 | 31.6 | 34.1 | 36.6 | 39.1 | 42.2 | 45.2 | 48.2 | 51.7 | 55 | 59 | 64 |
| **3.61** | – | – | – | – | – | 14.8 | 17.0 | 19.7 | 22.4 | 25.0 | 27.6 | 30.1 | 33.2 | 36.3 | 39.3 | 42.9 | 46 | 50 | 56 |
| **3.64** | – | – | – | – | – | – | – | – | – | 17.6 | 20.5 | 23.2 | 26.4 | 29.6 | 32.7 | 36.3 | 40 | 44 | 49 |
| **3.83** | – | – | – | – | – | 15.0 | 17.2 | 19.9 | 22.6 | 25.2 | 27.8 | 30.4 | 33.4 | 36.5 | 39.5 | 43.1 | 47 | 51 | 56 |
| **3.84** | 15.5 | 17.0 | 19.1 | 20.6 | 22.6 | 24.7 | 26.7 | 29.2 | 31.7 | 34.3 | 36.8 | 39.3 | 42.3 | 45.3 | 48.3 | 51.8 | 55 | 59 | 64 |
| | **.93** | **.94** | **.95** | **.97** | **.98** | **.99** | **1.00** | **1.02** | **1.03** | **1.04** | **1.05** | **1.06** | **1.08** | **1.09** | **1.10** | **1.11** | **1.12** | **1.13** | **1.14** |
| **3.87** | – | – | – | – | – | – | – | – | – | 17.9 | 20.7 | 23.4 | 26.7 | 29.8 | 33.0 | 36.6 | 40 | 44 | 49 |
| **3.88** | 11 5 | 13.1 | 15.3 | 16.9 | 18.9 | 21.0 | 23.1 | 25.6 | 28.2 | 30.7 | 33.2 | 35.8 | 38.8 | 41.8 | 44.8 | 48.4 | 52 | 56 | 61 |
| **4.03** | – | – | – | – | – | 15.2 | 17.4 | 20.1 | 22.7 | 25.4 | 27.9 | 30.5 | 33.6 | 36.7 | 39.7 | 43.3 | 47 | 51 | 56 |
| **4.06** | 15.6 | 17.1 | 19.2 | 20.7 | 22.8 | 24.8 | 26.8 | 29.3 | 31.9 | 34.4 | 36.9 | 39.4 | 42.4 | 45.4 | 48.4 | 51.9 | 55 | 59 | 64 |
| **4.19** | – | – | – | – | – | – | – | – | – | 18.2 | 21.0 | 23.8 | 27.0 | 30.2 | 33.3 | 36.9 | 41 | 45 | 50 |
| **4.21** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 22.9 | 26.9 | 31 | 35 | 44 |
| **4.23** | 11.7 | 13.3 | 15.5 | 17.0 | 19.1 | 21.2 | 23.3 | 25.8 | 28.4 | 30.9 | 33.5 | 36.0 | 39.0 | 42.0 | 45.1 | 48.6 | 52 | 56 | 61 |
| **4.26** | – | – | – | – | – | 15.3 | 17.6 | 20.3 | 22.9 | 25.5 | 28.1 | 30.7 | 33.8 | 36.8 | 39.9 | 43.4 | 47 | 51 | 56 |
| **4.50** | 11.8 | 13.4 | 15.6 | 17.2 | 19.3 | 21.3 | 23.4 | 26.0 | 28.5 | 31.1 | 33.6 | 36.1 | 39.2 | 42.2 | 45.2 | 48.7 | 52 | 46 | 61 |
| | – | – | – | – | – | – | – | – | – | 18.4 | 21.3 | 24.0 | 27.3 | 30.4 | 33.6 | 37.2 | 41 | 45 | 50 |
| **4.66** | – | – | – | – | 13.3 | 15.6 | 17.8 | 20.5 | 23.2 | 25.8 | 28.4 | 31.0 | 34.0 | 37.1 | 40.2 | 43.7 | 47 | 51 | 56 |
| **4.73** | – | 13.5 | 15.7 | 17.3 | 19.4 | 21.4 | 23.5 | 26.1 | 28.6 | 31.2 | 33.7 | 36.2 | 39.3 | 42.3 | 45.3 | 48.8 | 52 | 56 | 61 |
| **4.75** | – | – | – | – | – | – | – | – | – | 18.6 | 21.5 | 24.2 | 27.4 | 30.6 | 33.8 | 37.4 | 41 | 45 | 50 |
| **4.88** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 23.5 | 27.6 | 31 | 36 | 41 |
| **5.04** | – | – | – | – | – | – | – | – | – | 18.8 | 21.6 | 24.4 | 27.6 | 30.8 | 34.0 | 37.6 | 41 | 45 | 50 |
| **5.07** | 12.0 | 13.7 | 15.8 | 17.4 | 19.5 | 21.6 | 23.6 | 26.2 | 28.8 | 31.3 | 33.8 | 36.4 | 39.4 | 42.4 | 45.5 | 49.0 | 53 | 57 | 62 |
| **5.19** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 23.8 | 27.8 | 32 | 36 | 41 |
| **5.26** | – | – | – | – | 13.5 | 15.9 | 18.1 | 20.8 | 23.5 | 26.1 | 28.7 | 31.3 | 34.4 | 37.4 | 40.5 | 44.1 | 48 | 52 | 57 |
| **5.31** | – | – | – | – | – | – | – | – | – | 18.9 | 21.8 | 24.6 | 27.8 | 31.0 | 34.1 | 37.8 | 41 | 46 | 51 |
| **5.37** | 12.1 | 13.8 | 15.9 | 17.5 | 19.6 | 21.7 | 23.8 | 26.3 | 28.9 | 31.4 | 34.0 | 36.5 | 39.5 | 42.6 | 45.6 | 49.1 | 53 | 57 | 62 |
| | **.89** | **.91** | **.93** | **.94** | **.96** | **.97** | **.99** | **1.00** | **1.02** | **1.03** | **1.04** | **1.05** | **1.07** | **1.08** | **1.09** | **1.10** | **1.11** | **1.12** | **1.13** |
| **5.61** | – | – | – | – | – | – | – | – | – | 19.1 | 21.9 | 24.7 | 28.0 | 31.2 | 34.3 | 38.0 | 42 | 46 | 51 |
| **5.62** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 24.1 | 28.1 | 32 | 36 | 42 |
| **5.74** | – | – | – | – | 13.7 | 16.0 | 18.3 | 21.0 | 23.7 | 26.3 | 28.9 | 31.5 | 34.6 | 37.6 | 40.7 | 44.3 | 48 | 52 | 57 |
| **6.03** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 24.3 | 28.4 | 32 | 37 | 42 |
| **6.11** | – | – | – | – | 13.8 | 16.2 | 18.4 | 21.1 | 23.8 | 26.4 | 29.0 | 31.6 | 34.7 | 37.8 | 40.8 | 44.4 | 48 | 52 | 57 |
| **6.13** | – | – | – | – | – | – | – | – | 16.3 | 19.3 | 22.2 | 25.0 | 28.2 | 31.4 | 34.6 | 38.2 | 42 | 46 | 41 |
| **6.37** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 24.5 | 28.6 | 32 | 39 | 42 |
| **6.42** | – | – | – | – | 13.9 | 16.3 | 18.5 | 21.2 | 23.9 | 26.5 | 29.1 | 31.7 | 34.8 | 37.9 | 40.9 | 44.5 | 48 | 52 | 57 |
| **6.76** | – | – | – | – | – | – | – | – | – | – | – | – | – | 20.9 | 24.7 | 28.7 | 33 | 37 | 42 |
| **6.89** | – | – | – | – | 14.1 | 16.4 | 18.6 | 21.4 | 24.0 | 26.7 | 29.3 | 31.9 | 34.9 | 38.0 | 41.1 | 44.7 | 48 | 52 | 57 |
| **6.93** | – | – | – | – | – | – | – | – | 16.6 | 19.6 | 22.5 | 25.3 | 28.5 | 31.7 | 34.9 | 38.5 | 42 | 46 | 51 |
| **7.12** | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.1 | 24.8 | 28.9 | 33 | 37 | 43 |
| **7.29** | – | – | – | – | 14.1 | 16.5 | 18.7 | 21.4 | 24.1 | 26.8 | 29.4 | 32.0 | 35.1 | 38.1 | 41.2 | 44.8 | 48 | 52 | 57 |
| **7.52** | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.2 | 25.0 | 29.1 | 33 | 37 | 43 |
| **7.56** | – | – | – | – | – | – | – | – | 16.7 | 19.8 | 22.7 | 25.4 | 28.7 | 31.9 | 35.1 | 38.7 | 42 | 46 | 52 |
| **8.05** | – | – | – | – | – | – | – | – | 16.9 | 19.9 | 22.8 | 25.6 | 28.8 | 32.0 | 35.2 | 38.9 | 42 | 47 | 52 |
| **8.22** | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.4 | 25.2 | 29.3 | 33 | 38 | 43 |
| **8.46** | – | – | – | – | – | – | – | – | 17.0 | 20.0 | 22.9 | 25.7 | 28.9 | 32.1 | 35.3 | 39.0 | 43 | 47 | 52 |
| **9.07** | – | – | – | – | – | – | – | – | 17.1 | 20.1 | 23.0 | 25.8 | 29.1 | 32.3 | 35.4 | 39.1 | 43 | 47 | 52 |
| **9.29** | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.7 | 25.5 | 29.6 | 34 | 38 | 43 |
| | – | – | – | – | **.79** | **.84** | **.88** | **.91** | **.94** | **.96** | **.98** | **1.00** | **1.02** | **1.04** | **1.05** | **1.07** | **1.08** | **1.09** | **1.10** |
| **9.60** | – | – | – | – | – | – | – | – | 17.2 | 20.2 | 23.1 | 25.9 | 29.2 | 32.4 | 35.5 | 39.2 | 43 | 47 | 52 |
| **10.14** | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.9 | 25.6 | 29.8 | 34 | 38 | 43 |
| **10.79** | – | – | – | – | – | – | – | – | – | – | – | – | – | 22.0 | 25.8 | 29.9 | 34 | 38 | 44 |
| **11.34** | – | – | – | – | – | – | – | – | – | – | – | – | – | 22.1 | 25.8 | 30.0 | 34 | 38 | 44 |
| **12.16** | – | – | – | – | – | – | – | – | – | – | – | – | – | 22.2 | 26.0 | 30.1 | 34 | 38 | 44 |
| **12.87** | – | – | – | – | – | – | – | – | – | – | – | – | – | 22.3 | 26.1 | 30.2 | 34 | 39 | 4 |
| | – | – | – | – | – | – | – | – | – | – | – | – | – | **.78** | **.86** | **.92** | **.96** | **1.00** | **1.01** |

Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

**Selection program available at www.ptwizard.com**

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Stock Sheaves Diameter | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | 5VX 500 | 5VX 560 | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 |
| 1.00 | 4.40 | 4.40 | 1750 | 8.2 | 3.9 | 1160 | 5.9 | 3.1 | 870 | 5.6 | 2.6 | 18.1 | 21.1 | 23.1 | 24.6 | 26.6 | 28.6 | 30.6 | 33.1 |
| | 4.65 | 4.65 | 1750 | 9.4 | 5.0 | 1160 | 6.1 | 3.9 | 870 | 5.3 | 3.2 | 17.7 | 20.7 | 22.7 | 24.2 | 26.2 | 28.2 | 30.2 | 32.7 |
| | 4.90 | 4.90 | 1750 | 10.6 | 6.2 | 1160 | 7.5 | 4.7 | 870 | 5.9 | 3.8 | 17.3 | 20.3 | 22.3 | 23.8 | 25.8 | 27.8 | 29.8 | 32.3 |
| | 5.20 | 5.20 | 1750 | 11.9 | 7.5 | 1160 | 8.5 | 5.6 | 870 | 6.6 | 4.5 | 16.8 | 19.8 | 21.8 | 23.3 | 25.3 | 27.3 | 29.3 | 31.8 |
| | 5.50 | 5.50 | 1750 | 13.3 | 8.8 | 1160 | 9.4 | 6.6 | 870 | 7.3 | 5.2 | 16.4 | 19.4 | 21.4 | 22.9 | 24.9 | 26.9 | 28.9 | 31.4 |
| | 5.90 | 5.90 | 1750 | 15.1 | 10.6 | 1160 | 10.7 | 7.8 | 870 | 8.3 | 6.2 | 15.7 | 18.7 | 20.7 | 222 | 24.2 | 26.2 | 28.2 | 30.7 |
| | 6.30 | 6.30 | 1750 | 16.9 | 12.6 | 1160 | 11.9 | 9.0 | 870 | 9.3 | 7.1 | 15.1 | 18.1 | 20.1 | 21.6 | 23.6 | 25.6 | 27.6 | 30.1 |
| | 6.70 | 6.70 | 1750 | 18.7 | 13.9 | 1160 | 13.2 | 10.2 | 870 | 10.4 | 8.1 | 14.5 | 17.5 | 19.5 | 21.0 | 23.0 | 25.0 | 27.0 | 29.5 |
| | 7.10 | 7.10 | 1750 | 20.4 | 15.6 | 1160 | 14.4 | 11.4 | 870 | 11.0 | 9.0 | 13.9 | 16.8 | 18.8 | 20.3 | 22.3 | 24.3 | 26.3 | 28.8 |
| | 7.50 | 7.50 | 1750 | 22.1 | 17.2 | 1160 | 15.6 | 12.6 | 870 | 12.2 | 9.9 | 13.2 | 16.2 | 18.2 | 19.7 | 21.7 | 23.7 | 25.7 | 28.2 |
| | 8.00 | 8.00 | 1750 | 24.3 | 19.2 | 1160 | 17.0 | 14.1 | 870 | 13.3 | 11.1 | 12.4 | 15.4 | 17.4 | 18.9 | 20.9 | 22.9 | 24.9 | 27.4 |
| | 8.50 | 8.50 | 1750 | 26.4 | 21.2 | 1160 | 18.7 | 15.5 | 870 | 14.0 | 12.2 | 11.7 | 14.6 | 16.6 | 18.1 | 20.1 | 22.1 | 24.1 | 26.6 |
| | 9.00 | 9.00 | 1750 | 28.4 | 23.0 | 1160 | 20.1 | 17.0 | 870 | 15.7 | 13.4 | 10.9 | 13.9 | 15.9 | 17.4 | 19.4 | 21.4 | 23.4 | 25.9 |
| | 9.25 | 9.25 | 1750 | 29.4 | 24.0 | 1160 | 20.9 | 17.7 | 870 | 16.4 | 13.9 | 10.5 | 13.5 | 15.5 | 17.0 | 19.0 | 21.0 | 23.0 | 25.5 |
| | 9.75 | 9.75 | 1750 | 31.4 | 25.8 | 1160 | 22.4 | 19.1 | 870 | 17.4 | 15.1 | – | 12.7 | 14.7 | 16.2 | 18.2 | 20.2 | 22.2 | 24.7 |
| | 10.30 | 10.30 | 1750 | 33.6 | 27.7 | 1160 | 24.0 | 20.6 | 870 | 18.6 | 16.3 | – | 11.8 | 13.8 | 15.3 | 17.3 | 19.3 | 21.3 | 23.8 |
| | 10.90 | 10.90 | 1750 | 35.9 | 29.7 | 1160 | 25.7 | 22.2 | 870 | 20.2 | 17.6 | – | – | 12.9 | 14.4 | 16.4 | 18.4 | 20.4 | 22.9 |
| | 11.30 | 11.30 | 1750 | 37.4 | 31.0 | 1160 | 26.8 | 23.3 | 870 | 20.9 | 18.5 | – | – | – | 13.8 | 15.8 | 17.8 | 19.8 | 22.3 |
| | 11.80 | 11.80 | 1750 | 39.3 | 32.6 | 1160 | 28.2 | 24.6 | 870 | 22.0 | 19.5 | – | – | – | – | 15.0 | 17.0 | 19.0 | 21.5 |
| | 12.50 | 12.50 | 1750 | 41.8 | 34.7 | 1160 | 30.2 | 26.4 | 870 | 23.6 | 21.0 | – | – | – | – | – | 15.9 | 17.9 | 20.4 |
| | 13.20 | 13.20 | 1750 | 44.2 | 38.7 | 1160 | 31.1 | 28.2 | 870 | 25.1 | 22.5 | – | – | – | – | – | – | 16.8 | 19.3 |
| | 14.00 | 14.00 | 1750 | 46.9 | 38.8 | 1160 | 34.3 | 30.2 | 870 | 26.9 | 24.1 | – | – | – | – | – | – | – | 18.0 |
| | 15.00 | 15.00 | 1750 | – | – | 1160 | – | – | 870 | 29.0 | 26.2 | – | – | – | – | – | – | – | – |
| | 16.00 | 16.00 | 1750 | – | – | 1160 | – | – | 870 | 31.1 | 28.1 | – | – | – | – | – | – | – | – |
| 1.03 | 9.00 | 9.25 | 1702 | 28.6 | 23.3 | 1128 | 20.3 | 17.1 | 845 | 15.7 | 13.5 | 1.07 | 13.7 | 15.7 | 17.2 | 19.2 | 21.2 | 23.2 | 25.7 |
| 1.04 | 10.90 | 11.30 | 1688 | 36.1 | 30.1 | 1119 | 25.8 | 22.4 | 837 | 20.1 | 17.7 | – | – | 12.6 | 14.1 | 16.1 | 18.1 | 20.1 | 22.6 |
| | 11.30 | 11.80 | 1675 | 37.7 | 31.4 | 1110 | 27.0 | 23.5 | 837 | 21.0 | 18.6 | – | – | – | – | 15.4 | 17.4 | 19.4 | 21.9 |
| 1.05 | 4.65 | 4.90 | 1659 | 9.7 | 5.4 | 1100 | 6.9 | 4.2 | 829 | 5.4 | 3.4 | 17.5 | 20.5 | 22.5 | 24.0 | 26.0 | 28.0 | 30.0 | 32.5 |
| | 9.25 | 9.75 | 1659 | 29.8 | 24.4 | 1100 | 21.1 | 17.9 | 829 | 16.4 | 14.1 | ... | 13.1 | 15.1 | 16.6 | 18.6 | 20.6 | 22.6 | 25.1 |
| 1.06 | 4.40 | 4.65 | 1654 | 8.6 | 4.3 | 1096 | 6.1 | 3.4 | 821 | 4.8 | 2.8 | 17.9 | 20.9 | 22.9 | 24.4 | 26.4 | 28.4 | 30.4 | 32.9 |
| | 4.90 | 5.20 | 1654 | 10.9 | 6.6 | 1096 | 7.7 | 5.0 | 821 | 6.1 | 4.0 | 17.1 | 20.1 | 22.1 | 23.6 | 56.6 | 27.6 | 29.6 | 32.1 |
| | 5.20 | 5.50 | 1653 | 12.3 | 7.9 | 1092 | 8.7 | 5.9 | 821 | 6.8 | 4.7 | 16.6 | 19.6 | 21.6 | 23.1 | 25.1 | 27.1 | 29.1 | 31.6 |
| | 6.30 | 6.70 | 1644 | 17.3 | 12.8 | 1090 | 12.2 | 9.3 | 821 | 9.5 | 7.4 | 14.8 | 17.8 | 19.8 | 21.3 | 23.3 | 25.3 | 27.3 | 29.8 |
| | 6.70 | 7.10 | 1650 | 19.0 | 14.4 | 1094 | 13.4 | 10.5 | 821 | 10.4 | 8.3 | 14.2 | 17.2 | 19.2 | 20.7 | 22.7 | 24.7 | 26.7 | 29.2 |
| | 7.10 | 7.50 | 1655 | 20.7 | 16.0 | 1097 | 14.6 | 11.7 | 821 | 11.4 | 9.3 | 13.5 | 16.5 | 18.5 | 20.0 | 22.0 | 24.0 | 26.0 | 28.5 |
| | 8.00 | 8.50 | 1646 | 24.6 | 19.7 | 1091 | 17.4 | 14.4 | 821 | 13.5 | 11.3 | 12.0 | 15.0 | 17.0 | 18.5 | 20.5 | 22.5 | 24.5 | 27.0 |
| | 8.50 | 9.00 | 1652 | 26.7 | 21.6 | 1095 | 18.9 | 15.8 | 821 | 14.7 | 12.5 | 11.3 | 14.3 | 16.3 | 17.8 | 19.8 | 21.8 | 23.8 | 26.3 |
| | 9.75 | 10.30 | 1656 | 31.8 | 26.2 | 1097 | 22.6 | 19.4 | 821 | 17.6 | 15.3 | – | 12.2 | 14.3 | 15.8 | 17.8 | 19.8 | 21.8 | 24.3 |
| | 10.30 | 10.90 | 1653 | 33.9 | 28.2 | 1096 | 24.2 | 20.9 | 821 | 18.8 | 16.5 | – | – | 13.3 | 14.8 | 16.8 | 18.8 | 20.8 | 23.3 |
| | 11.80 | 12.50 | 1651 | 39.6 | 33.1 | 1095 | 28.5 | 24.9 | 821 | 22.2 | 19.8 | – | – | – | – | 14.4 | 16.4 | 18.4 | 20.9 |
| | 12.50 | 13.20 | 1656 | 42.1 | 35.1 | 1098 | 30.4 | 26.7 | 821 | 23.8 | 21.3 | – | – | – | – | – | 15.3 | 17.3 | 19.8 |
| | 13.20 | 14.00 | 1649 | 44.6 | 37.1 | 1093 | 32.4 | 28.5 | 821 | 25.3 | 22.7 | – | – | – | – | – | – | 16.1 | 18.6 |
| ARC-LENGTH CORRECTION FACTOR —> | | | | | | | | | | | | .85 | .87 | .88 | .89 | .90 | .91 | .92 | .93 |
| 1.07 | 5.50 | 5.90 | 3259 | 13.7 | 9.4 | 1080 | 9.7 | 6.9 | 813 | 7.6 | 5.5 | 16.0 | 19.0 | 21.0 | 22.5 | 24.5 | 26.5 | 28.5 | 31.0 |
| | 5.90 | 6.30 | 1629 | 15.5 | 11.1 | 1085 | 10.9 | 8.1 | 813 | 8.5 | 6.4 | 15.4 | 18.4 | 20.4 | 21.9 | 23.9 | 25.9 | 27.9 | 30.4 |
| | 7.50 | 8.00 | 1637 | 22.5 | 17.7 | 1087 | 15.9 | 12.9 | 813 | 12.3 | 10.2 | 12.8 | 15.8 | 17.8 | 19.3 | 21.3 | 23.3 | 25.3 | 27.8 |
| | 14.00 | 15.00 | 1639 | 47.0 | 39.3 | 1082 | 34.6 | 30.5 | 813 | 27.1 | 24.4 | – | – | – | – | – | – | – | 17.2 |
| | 15.00 | 16.00 | 1633 | – | – | 1087 | 37.2 | 32.9 | 813 | 29.2 | 26.4 | – | – | – | – | – | – | – | – |
| 1.08 | 9.00 | 9.75 | 1640 | 28.9 | 23.6 | 1070 | 20.5 | 17.3 | 806 | 15.9 | 13.7 | – | 13.3 | 15.3 | 16.8 | 18.8 | 20.8 | 22.8 | 25.3 |
| | 10.90 | 11.80 | 1614 | 36.4 | 30.3 | 1071 | 26.0 | 22.6 | 806 | 20.3 | 17.9 | – | – | – | 13.7 | 15.7 | 17.7 | 19.7 | 22.2 |
| 1.09 | 8.50 | 9.25 | 1615 | 26.8 | 21.8 | 1065 | 19.0 | 16.0 | 798 | 14.7 | 12.6 | 11.1 | 14.1 | 16.1 | 17.6 | 19.6 | 21.6 | 23.6 | 26.1 |
| 1.10 | 10.30 | 11.30 | 1607 | 34.1 | 28.4 | 1056 | 24.3 | 21.1 | 791 | 18.9 | 16.6 | – | – | 13.0 | 14.5 | 16.5 | 18.5 | 20.5 | 23.0 |
| 1.11 | 9.25 | 10.30 | 1594 | 30.3 | 24.7 | 1041 | 21.3 | 18.2 | 784 | 16.5 | 14.3 | – | 12.6 | 14.6 | 16.1 | 18.1 | 20.1 | 22.1 | 24.6 |
| | 11.30 | 12.50 | 1570 | 38.0 | 31.8 | 1048 | 27.2 | 23.8 | 784 | 21.2 | 18.8 | – | – | – | – | 14.8 | 16.8 | 18.8 | 21.3 |
| 1.12 | 4.40 | 4.90 | 1581 | 8.8 | 4.7 | 1039 | 6.3 | 3.6 | 777 | 4.9 | 3.0 | 17.7 | 20.7 | 22.7 | 24.2 | 26.2 | 28.2 | 30.2 | 32.7 |
| | 4.65 | 5.20 | 1568 | 10.0 | 5.8 | 1035 | 7.1 | 4.4 | 777 | 5.6 | 3.6 | 17.3 | 20.3 | 22.3 | 23.8 | 25.8 | 27.8 | 29.8 | 32.3 |
| | 6.70 | 7.50 | 1561 | 19.3 | 14.7 | 1035 | 13.6 | 10.7 | 777 | 10.6 | 8.5 | 13.8 | 16.8 | 18.8 | 20.3 | 22.3 | 24.3 | 26.3 | 28.9 |
| | 9.75 | 10.90 | 1561 | 32.0 | 26.6 | 1036 | 22.8 | 19.6 | 777 | 17.7 | 15.4 | – | – | 13.8 | 15.3 | 17.3 | 19.3 | 21.3 | 23.8 |
| | 11.80 | 13.20 | 1564 | 39.9 | 33.4 | 1036 | 28.6 | 25.1 | 777 | 22.3 | 19.9 | – | – | – | – | 13.9 | 15.8 | 17.9 | 20.4 |
| | 12.50 | 14.00 | 1563 | 42.4 | 35.5 | 1035 | 30.6 | 27.0 | 777 | 23.9 | 21.4 | – | – | – | – | – | 14.7 | 16.7 | 19.2 |

**NOTE:** * 5VX = Single and Polyband belts to 200” length
5V = Single and Polyband belts over 200” long

** Stock belt size 5VX530 not shown

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Belt Number and Approx. Center Distance** | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX 850 | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2800 | 5V 3150 | 5V 3550 |
| | 35.6 | 38.1 | 40.6 | 43.1 | 46.1 | 49.1 | 52.1 | 55.6 | 59.1 | 63.1 | 68 | 73 | 78 | 83 | 88 | 93 | 99 | 105 | 111 | 118 | 133 | 151 | 171 |
| | 35.2 | 37.7 | 40.2 | 42.7 | 45.7 | 48.7 | 51.7 | 552 | 58.7 | 62.7 | 68 | 73 | 78 | 83 | 88 | 93 | 99 | 105 | 111 | 118 | 133 | 150 | 170 |
| | 34.8 | 37.3 | 39.8 | 42.3 | 45.3 | 48.3 | 51.3 | 54.8 | 58.3 | 62.3 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 110 | 117 | 132 | 1550 | 170 |
| | 34.3 | 36.8 | 39.3 | 41.8 | 44.8 | 47.8 | 50.8 | 54.3 | 57.8 | 61.8 | 67 | 72 | 7 | 82 | 87 | 92 | 98 | 104 | 110 | 117 | 132 | 149 | 169 |
| | 33.9 | 36.4 | 38.9 | 41.4 | 44.4 | 47.4 | 50.4 | 53.9 | 57.4 | 61.4 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | 131 | 149 | 169 |
| | 33.2 | 35.7 | 38.2 | 40.7 | 43.7 | 46.7 | 49.7 | 53.2 | 56.7 | 60.7 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | 131 | 148 | 168 |
| | 32.6 | 35.1 | 37.6 | 40.1 | 43.1 | 46.1 | 49.1 | 52.6 | 56.1 | 60.1 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | 130 | 148 | 168 |
| | 32.0 | 34.5 | 37.0 | 39.5 | 42.5 | 45.5 | 48.5 | 52.0 | 55.5 | 59.5 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 115 | 129 | 147 | 167 |
| | 31.3 | 33.8 | 36.3 | 38.8 | 41.8 | 44.8 | 47.8 | 51.3 | 54.8 | 58.8 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 129 | 146 | 168 |
| | 30.7 | 33.2 | 35.7 | 38.2 | 41.2 | 44.2 | 47.2 | 50.7 | 54.2 | 58.2 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 128 | 146 | 166 |
| | 29.9 | 32.4 | 34.9 | 37.4 | 40.4 | 43.4 | 46.4 | 49.9 | 53.4 | 57.4 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 127 | 150 | 165 |
| 1.00 | 29.1 | 31.6 | 34.1 | 38.6 | 39.6 | 42.6 | 45.6 | 49.1 | 52.6 | 56.6 | 62 | 67 | 72 | 77 | 82 | 89 | 93 | 99 | 105 | 112 | 127 | 144 | 164 |
| | 28.4 | 30.9 | 33.4 | 35.9 | 38.9 | 41.9 | 44.9 | 48.4 | 51.9 | 55.9 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 126 | 143 | 163 |
| | 28.0 | 30.5 | 33.0 | 35.5 | 38.5 | 41.5 | 44.5 | 48.0 | 51.5 | 55.5 | 60 | 65 | 71 | 75 | 80 | 85 | 91 | 97 | 103 | 111 | 125 | 143 | 163 |
| | 27.2 | 29.7 | 32.2 | 34.7 | 37.7 | 40.7 | 43.7 | 47.2 | 50.7 | 54.7 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 102 | 110 | 124 | 143 | 162 |
| | 26.3 | 28.8 | 31.3 | 33.8 | 38.8 | 39.8 | 42.8 | 46.3 | 49.8 | 53.8 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 124 | 141 | 161 |
| | 25.4 | 27.9 | 30.4 | 32.9 | 35.9 | 38.9 | 41.9 | 45.4 | 48.9 | 52.9 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 1010 | 107 | 123 | 140 | 160 |
| | 24.8 | 27.3 | 29.8 | 32.3 | 35.3 | 38.3 | 41.3 | 44.8 | 48.3 | 52.3 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | 122 | 140 | 160 |
| | 24.0 | 26.5 | 29.0 | 31.5 | 34.5 | 37.5 | 40.5 | 44.0 | 47.5 | 51.5 | 56 | 61 | 66 | 72 | 76 | 81 | 87 | 93 | 99 | 106 | 121 | 139 | 159 |
| | 22.9 | 25.4 | 27.9 | 30.4 | 33.4 | 36.4 | 39.4 | 42.9 | 46.4 | 50.4 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 98 | 105 | 120 | 138 | 158 |
| | 21.8 | 24.3 | 26.8 | 29.3 | 32.3 | 35.3 | 38.3 | 41.8 | 45.3 | 49.3 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 119 | 137 | 157 |
| | 20.5 | 23.0 | 25.5 | 28.0 | 31.0 | 34.0 | 37.0 | 40.5 | 44.0 | 48.0 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 96 | 103 | 118 | 136 | 155 |
| | 19.0 | 21.4 | 23.9 | 26.4 | 29.4 | 32.4 | 35.4 | 38.9 | 42.4 | 46.4 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 101 | 116 | 134 | 154 |
| | – | 19.9 | 22.4 | 24.9 | 27.9 | 30.9 | 33.9 | 37.4 | 40.9 | 44.9 | 50 | 55 | 60 | 645 | 70 | 75 | 81 | 87 | 93 | 100 | 115 | 132 | 152 |
| 1.03 | 28.2 | 30.7 | 33.2 | 35.7 | 38.7 | 41.7 | 44.7 | 48.2 | 51.7 | 55.7 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 126 | 143 | 163 |
| 1.04 | 25.1 | 27.6 | 30.1 | 32.6 | 35.6 | 38.6 | 41.6 | 45.1 | 48.6 | 52.6 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 123 | 140 | 160 |
| | 24.4 | 26.9 | 29.4 | 31.9 | 34.9 | 37.9 | 40.9 | 44.4 | 47.9 | 51.9 | 57 | 62 | 67 | 72 | 77 | 81 | 88 | 94 | 100 | 107 | 122 | 139 | 159 |
| 1.05 | 35.0 | 37.5 | 40.0 | 42.5 | 45.5 | 48.5 | 51.5 | 55.0 | 58.5 | 62.5 | 68 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 110 | 117 | 132 | 150 | 170 |
| | 27.6 | 30.1 | 32.6 | 35.1 | 38.1 | 41.1 | 44.1 | 47.6 | 51.1 | 55.1 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 125 | 143 | 163 |
| | 35.4 | 37.9 | 40.4 | 42.9 | 45.9 | 48.9 | 51.9 | 55.4 | 58.9 | 62.9 | 68 | 73 | 78 | 83 | 88 | 93 | 99 | 105 | 111 | 118 | 133 | 150 | 170 |
| | 34.6 | 3438 | 37.3 | 39.8 | 42.8 | 45.8 | 48.8 | 52.3 | 55.8 | 59.5 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | 130 | 147 | 167 |
| | 34.1 | 36.6 | 39.1 | 41.6 | 44.6 | 47.6 | 50.6 | 54.1 | 57.6 | 61.6 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 110 | 117 | 132 | 149 | 169 |
| | 32.3 | 37.1 | 39.6 | 42.1 | 45.1 | 4831 | 51.1 | 54.6 | 58.1 | 62.1 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 110 | 117 | 132 | 150 | 170 |
| | 31.7 | 34.2 | 36.7 | 39.2 | 42.2 | 45.2 | 48.2 | 51.7 | 55.2 | 59.2 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 129 | 147 | 167 |
| | 31.0 | 33.5 | 38.0 | 38.5 | 41.5 | 44.5 | 47.5 | 51.0 | 54.5 | 58.5 | 64 | 68 | 74 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 128 | 146 | 166 |
| 1.06 | 29.5 | 32.0 | 34.5 | 37.0 | 40.0 | 43.0 | 46.0 | 49.5 | 53.0 | 57.0 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 127 | 144 | 164 |
| | 28.8 | 31.3 | 33.8 | 36.3 | 39.3 | 42.3 | 45.3 | 46.8 | 52.3 | 56.3 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 126 | 144 | 164 |
| | 26.8 | 29.3 | 31.8 | 34.3 | 37.3 | 40.3 | 43.3 | 46.8 | 50.3 | 54.3 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 124 | 142 | 162 |
| | 25.9 | 28.3 | 30.8 | 33.3 | 35.3 | 39.3 | 42.3 | 45.8 | 49.3 | 53.3 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 123 | 141 | 161 |
| | 23.4 | 25.9 | 28.4 | 30.9 | 33.9 | 36.9 | 39.9 | 43.4 | 46.9 | 50.9 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 121 | 138 | 158 |
| | 22.3 | 24.8 | 27.3 | 29.8 | 32.8 | 35.8 | 38.8 | 42.3 | 45.8 | 49.8 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 98 | 105 | 120 | 137 | 157 |
| | 21.1 | 23.6 | 26.1 | 28.6 | 31.6 | 34.6 | 37.6 | 41.1 | 44.6 | 48.6 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 119 | 36 | 156 |
| | .94 | .95 | .95 | .96 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.09 | 1.10 | 1.11 | 1.13 | 1.15 | 1.17 |
| | 33.6 | 36.0 | 38.5 | 41.0 | 44.0 | 47.0 | 50.0 | 53.5 | 57.0 | 61.0 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | 131 | 147 | 169 |
| | 32.9 | 35.4 | 37.9 | 40.4 | 43.4 | 46.4 | 49.4 | 52.9 | 56.4 | 60.4 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | 130 | 148 | 168 |
| 1.07 | 30.3 | 32.8 | 35.3 | 37.8 | 40.8 | 43.8 | 46.8 | 50.3 | 53.8 | 57.8 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 128 | 145 | 165 |
| | 19.7 | 22.2 | 24.7 | 27.2 | 30.2 | 33.2 | 36.2 | 39.7 | 43.2 | 47.2 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | 117 | 135 | 155 |
| | 18.2 | 20.6 | 23.1 | 25.6 | 28.6 | 31.6 | 34.6 | 38.1 | 41.6 | 45.6 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 101 | 116 | 133 | 153 |
| 1.08 | 27.8 | 30.3 | 32.8 | 35.3 | 38.3 | 41.3 | 44.3 | 47.8 | 51.3 | 55.3 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 125 | 143 | 163 |
| | 24.7 | 27.2 | 29.7 | 32.2 | 35.2 | 38.2 | 41.2 | 44.7 | 48.2 | 52.2 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | 122 | 140 | 160 |
| 1.09 | 28.6 | 31.1 | 33.6 | 36.1 | 39.1 | 42.1 | 45.1 | 48.6 | 52.1 | 56.1 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 126 | 144 | 164 |
| 1.10 | 25.5 | 28.0 | 30.5 | 33.0 | 36.0 | 39.0 | 42.0 | 45.5 | 49.0 | 53.0 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 123 | 140 | 160 |
| 1.11 | 27.1 | 29.6 | 32.1 | 34.6 | 37.6 | 40.6 | 43.6 | 47.1 | 50.6 | 54.6 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 125 | 142 | 162 |
| | 23.8 | 26.3 | 28.8 | 31.3 | 34.3 | 37.3 | 40.3 | 43.8 | 47.3 | 51.3 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 121 | 139 | 159 |
| | 35.2 | 37.7 | 40.2 | 42.7 | 45.7 | 48.7 | 51.7 | 55.2 | 58.7 | 62.7 | 68 | 73 | 78 | 83 | 88 | 93 | 99 | 105 | 111 | 118 | 133 | 150 | 170 |
| | 34.8 | 37.3 | 39.8 | 42.3 | 45.3 | 48.3 | 51.3 | 54.8 | 58.3 | 62.3 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 110 | 117 | 132 | 150 | 170 |
| 1.12 | 31.4 | 33.9 | 36.4 | 38.9 | 41.9 | 44.9 | 47.9 | 51.4 | 54.9 | 58.9 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 129 | 146 | 166 |
| | 26.3 | 28.8 | 31.3 | 33.8 | 36.8 | 39.8 | 42.8 | 46.3 | 49.8 | 53.8 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 124 | 141 | 161 |
| | 22.9 | 25.4 | 27.9 | 30.4 | 33.4 | 36.4 | 39.4 | 42.9 | 46.4 | 50.4 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 98 | 105 | 120 | 138 | 158 |
| | 21.7 | 24.2 | 26.7 | 29.2 | 32.2 | 35.2 | 38.2 | 41.7 | 45.2 | 49.2 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 119 | 137 | 157 |

**NOTES:** ** Stock belt size 5V2650 and 5V3350 not shown
Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Stock Sheaves Diameter | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | 5VX 500 | 5VX 560 | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 |
| 1.13 | 4.90 | 5.50 | 1556 | 11.2 | 7.0 | 1031 | 7.9 | 5.2 | 770 | 6.2 | 4.2 | 16.8 | 19.8 | 21.8 | 23.3 | 25.3 | 27.3 | 29.3 | 31.8 |
| | 6.30 | 7.10 | 1550 | 17.5 | 13.1 | 1027 | 12.4 | 9.6 | 770 | 9.6 | 7.6 | 14.5 | 17.5 | 19.5 | 21.0 | 23.0 | 25.2 | 27.2 | 29.5 |
| | 7.10 | 8.00 | 1551 | 21.1 | 16.4 | 1028 | 14.8 | 12.0 | 770 | 11.5 | 9.4 | 13.1 | 16.1 | 18.1 | 19.6 | 21.6 | 23.6 | 25.6 | 28.1 |
| | 8.00 | 9.00 | 1553 | 24.9 | 20.2 | 1030 | 17.6 | 14.6 | 770 | 13.6 | 11.5 | 11.6 | 14.6 | 16.6 | 18.1 | 20.1 | 22.1 | 24.1 | 26.6 |
| 1.14 | 5.20 | 5.90 | 1539 | 12.6 | 8.4 | 1020 | 8.9 | 6.2 | 763 | 6.9 | 4.9 | 16.3 | 19.3 | 21.3 | 22.8 | 24.8 | 26.8 | 28.8 | 31.3 |
| | 5.90 | 6.70 | 1538 | 15.8 | 11.4 | 1019 | 11.1 | 8.4 | 763 | 8.7 | 6.6 | 15.1 | 18.1 | 20.1 | 21.6 | 23.6 | 25.6 | 27.6 | 30.1 |
| | 7.50 | 8.50 | 1542 | 22.8 | 18.1 | 1022 | 16.1 | 13.2 | 763 | 12.5 | 10.4 | 12.4 | 15.4 | 17.4 | 18.9 | 20.9 | 22.9 | 24.9 | 27.4 |
| | 13.20 | 15.00 | 1539 | 44.9 | 37.6 | 1020 | 32.6 | 28.8 | 763 | 25.5 | 22.9 | – | – | – | – | – | – | – | 17.8 |
| | 14.00 | 16.00 | 1530 | 47.6 | 39.6 | 1014 | 34.7 | 30.8 | 763 | 27.2 | 24.6 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **.85** | **.87** | **.86** | **.89** | **.90** | **.91** | **.91** | **.92** |
| 1.15 | 5.50 | 6.30 | 1524 | 14.0 | 9.7 | 1010 | 9.9 | 7.2 | 757 | 7.7 | 5.7 | 15.7 | 18.7 | 20.7 | 22.2 | 24.2 | 26.2 | 28.2 | 30.7 |
| | 8.50 | 9.75 | 1523 | 27.1 | 22.4 | 1010 | 19.1 | 16.1 | 757 | 14.9 | 12.7 | – | 13.7 | 15.7 | 17.2 | 19.2 | 21.2 | 23.2 | 25.7 |
| | 9.00 | 10.30 | 1527 | 29.1 | 24.0 | 1012 | 20.6 | 17.6 | 757 | 16.0 | 13.8 | – | 12.8 | 14.8 | 16.3 | 18.3 | 20.3 | 22.3 | 24.8 |
| | 10.30 | 11.80 | 1526 | 34.3 | 28.6 | 1011 | 24.4 | 21.2 | 757 | 19.0 | 16.7 | – | – | 1.26 | 14.1 | 16.1 | 18.1 | 20.1 | 22.6 |
| | 10.90 | 12.50 | 1524 | 38.6 | 30.7 | 1010 | 26.2 | 22.8 | 757 | 20.4 | 18.1 | – | – | – | 1.31 | 15.1 | 17.1 | 19.1 | 21.6 |
| 1.16 | 8.00 | 9.25 | 1511 | 25.0 | 20.2 | 1002 | 17.6 | 14.7 | 750 | 13.7 | 11.6 | 11.4 | 14.4 | 16.4 | 17.9 | 19.9 | 21.9 | 23.9 | 26.4 |
| | 9.75 | 11.30 | 1508 | 32.2 | 26.7 | 999 | 22.8 | 19.7 | 750 | 17.8 | 15.5 | – | – | 13.5 | 14.9 | 16.9 | 19.0 | 21.0 | 23.5 |
| 1.17 | 11.30 | 13.20 | 1496 | 38.2 | 32.0 | 992 | 27.3 | 24.0 | 744 | 21.3 | 19.0 | – | – | – | – | – | 16.2 | 18.2 | 20.7 |
| | 16.00 | 18.70 | 1496 | – | – | 992 | 40.0 | 35.5 | 744 | 31.5 | 28.6 | – | – | – | – | – | – | – | – |
| 1.18 | 9.25 | 10.90 | 1483 | 30.2 | 25.0 | 983 | 21.4 | 18.4 | 737 | 16.6 | 14.4 | – | 12.2 | 14.2 | 15.7 | 17.7 | 19.7 | 21.7 | 24.2 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **.85** | **.87** | **.86** | **.89** | **.90** | **.91** | **.91** | **.92** |
| 1.19 | 4.40 | 5.20 | 1475 | 9.1 | 5.0 | 978 | 6.4 | 3.8 | 731 | 5.1 | 3.1 | 17.5 | 20.5 | 22.5 | 24.0 | 26.0 | 28.0 | 30.0 | 32.5 |
| | 4.65 | 5.50 | 1475 | 10.2 | 6.1 | 977 | 7.3 | 4.6 | 731 | 5.7 | 3.7 | 17.0 | 20.0 | 22.0 | 23.5 | 25.5 | 27.5 | 29.5 | 32.0 |
| | 6.30 | 7.50 | 1466 | 17.7 | 13.4 | 972 | 12.5 | 9.7 | 731 | 9.7 | 7.7 | 14.1 | 17.2 | 19.2 | 20.7 | 22.7 | 24.7 | 26.7 | 29.2 |
| | 11.80 | 14.00 | 1473 | 40.1 | 33.7 | 976 | 28.8 | 25.3 | 731 | 22.4 | 20.1 | – | – | – | – | – | 15.2 | 17.2 | 19.7 |
| 1.20 | 6.70 | 8.00 | 1462 | 19.5 | 15.1 | 969 | 13.7 | 11.0 | 725 | 10.7 | 8.6 | 13.4 | 16.4 | 18.4 | 19.9 | 22.0 | 24.0 | 26.0 | 28.5 |
| | 7.10 | 8.50 | 1458 | 21.3 | 16.7 | 967 | 15.0 | 12.2 | 725 | 11.6 | 9.6 | 12.7 | 15.7 | 17.7 | 19.2 | 21.2 | 23.2 | 25.2 | 27.7 |
| | 7.50 | 9.00 | 1455 | 23.0 | 18.4 | 964 | 16.2 | 13.4 | 725 | 12.6 | 10.5 | 12.0 | 15.0 | 17.0 | 18.5 | 20.5 | 22.5 | 24.5 | 27.0 |
| | 12.50 | 15.00 | 1456 | 42.6 | 35.8 | 965 | 30.8 | 27.2 | 725 | 24.0 | 21.6 | – | – | – | – | – | – | 15.9 | 18.4 |
| 1.21 | 4.90 | 5.90 | 1448 | 11.4 | 7.3 | 960 | 8.1 | 5.4 | 719 | 6.3 | 4.4 | 16.5 | 19.5 | 21.5 | 23.0 | 25.0 | 27.0 | 29.0 | 31.5 |
| | 5.90 | 7.10 | 1450 | 16.0 | 11.7 | 961 | 11.3 | 8.5 | 719 | 8.8 | 6.8 | 14.8 | 17.8 | 19.8 | 21.3 | 23.3 | 25.3 | 27.3 | 29.8 |
| | 8.50 | 10.30 | 1441 | 27.2 | 22.3 | 955 | 19.2 | 16.3 | 719 | 14.9 | 12.8 | – | 13.2 | 15.2 | 16.7 | 18.7 | 20.7 | 22.7 | 25.2 |
| | 9.00 | 10.90 | 442 | 29.3 | 24.2 | 956 | 20.7 | 17.7 | 719 | 16.1 | 14.0 | – | 12.3 | 14.3 | 15.8 | 17.8 | 19.8 | 21.9 | 24.4 |
| | 9.75 | 11.80 | 1443 | 32.3 | 26.9 | 957 | 22.9 | 19.8 | 719 | 17.8 | 15.6 | – | – | 13.0 | 14.5 | 16.5 | 18.5 | 20.5 | 23.1 |
| | 10.90 | 13.20 | 1443 | 38.8 | 30.9 | 956 | 26.3 | 23.0 | 719 | 20.5 | 18.2 | – | – | – | – | 14.5 | 16.5 | 18.5 | 21.0 |
| | 13.20 | 16.00 | 1442 | 45.1 | 37.8 | 956 | 32.7 | 29.0 | 719 | 25.6 | 23.1 | – | – | – | – | – | – | – | 17.0 |
| 1.22 | 5.20 | 6.30 | 1440 | 12.8 | 8.7 | 954 | 9.1 | 6.4 | 713 | 7.1 | 5.1 | 16.0 | 19.0 | 21.0 | 22.5 | 24.5 | 26.5 | 28.5 | 31.0 |
| | 5.50 | 6.70 | 1432 | 14.2 | 10.0 | 949 | 10.0 | 7.3 | 713 | 7.8 | 5.8 | 15.4 | 18.4 | 20.4 | 21.9 | 23.9 | 56.9 | 27.9 | 30.4 |
| | 8.00 | 9.75 | 1433 | 25.2 | 20.4 | 950 | 17.7 | 14.9 | 713 | 13.8 | 11.7 | – | 14.0 | 16.0 | 17.5 | 19.5 | 21.5 | 23.5 | 26.0 |
| | 9.25 | 11.30 | 1430 | 30.3 | 25.2 | 948 | 21.5 | 18.5 | 713 | 16.7 | 14.5 | – | – | 13.8 | 15.3 | 17.3 | 19.3 | 21.3 | 23.8 |
| | 10.30 | 12.50 | 1440 | 34.5 | 28.9 | 954 | 24.6 | 21.4 | 713 | 19.1 | 16.9 | – | – | – | 13.6 | 15.6 | 17.6 | 19.6 | 22.1 |
| 1.24 | 7.50 | 9.25 | 1415 | 23.1 | 18.5 | 938 | 16.3 | 13.4 | 702 | 12.6 | 10.5 | 11.8 | 14.8 | 16.8 | 18.3 | 20.3 | 22.3 | 24.3 | 26.8 |
| | 11.30 | 14.00 | 1410 | 38.4 | 32.3 | 935 | 27.5 | 24.1 | 702 | 21.4 | 19.0 | – | – | – | – | – | 15.6 | 17.6 | 20.1 |
| 1.25 | 15.00 | 18.70 | 1402 | – | – | 929 | 37.6 | 33.4 | 696 | 29.5 | 26.8 | – | – | – | – | – | – | – | – |
| 1.26 | 4.40 | 5.50 | 1394 | 9.2 | 5.2 | 924 | 6.6 | 3.9 | 690 | 5.1 | 3.2 | 17.2 | 20.2 | 22.2 | 23.7 | 25.7 | 27.7 | 29.7 | 32.2 |
| | 9.00 | 11.30 | 1391 | 29.4 | 24.3 | 922 | 20.8 | 17.8 | 690 | 16.1 | 14.0 | – | 12.0 | 14.0 | 15.5 | 17.5 | 19.5 | 21.5 | 24.0 |
| 1.27 | 4.65 | 5.90 | 1373 | 10.4 | 6.4 | 910 | 7.4 | 4.9 | 685 | 5.8 | 3.8 | 16.7 | 19.7 | 21.7 | 23.2 | 25.2 | 27.2 | 29.2 | 31.7 |
| | 6.30 | 8.00 | 1373 | 17.9 | 13.6 | 910 | 12.6 | 9.9 | 685 | 9.8 | 7.8 | 13.7 | 16.7 | 18.7 | 20.3 | 22.3 | 24.3 | 26.3 | 28.8 |
| | 6.70 | 8.50 | 1375 | 19.7 | 15.3 | 911 | 13.8 | 11.1 | 685 | 10.7 | 8.7 | 13.0 | 16.0 | 18.0 | 19.5 | 21.5 | 23.6 | 25.6 | 28.1 |
| | 7.10 | 9.00 | 1376 | 21.4 | 16.9 | 912 | 15.1 | 12.3 | 685 | 11.7 | 9.7 | 12.3 | 15.3 | 17.3 | 18.8 | 20.8 | 22.8 | 24.8 | 27.3 |
| | 11.80 | 15.00 | 1374 | 40.3 | 33.9 | 911 | 28.9 | 25.5 | 685 | 22.5 | 20.2 | – | – | – | – | – | – | 16.4 | 18.9 |
| 1.28 | 5.90 | 7.50 | 1372 | 16.1 | 11.9 | 909 | 11.4 | 8.7 | 680 | 8.8 | 6.9 | 14.5 | 17.5 | 19.5 | 21.0 | 23.0 | 25.0 | 27.0 | 29.5 |
| | 9.25 | 11.80 | 1369 | 30.5 | 25.3 | 907 | 21.6 | 18.6 | 680 | 16.8 | 14.6 | – | – | 13.4 | 14.9 | 16.9 | 18.9 | 20.9 | 23.4 |
| | 9.75 | 12.50 | 1362 | 32.5 | 27.1 | 903 | 23.0 | 20.0 | 680 | 17.9 | 15.7 | – | – | – | 14.0 | 16.0 | 18.0 | 20.0 | 22.5 |
| | 10.30 | 13.20 | 1363 | 34.6 | 29.1 | 903 | 24.6 | 21.5 | 680 | 19.2 | 16.9 | – | – | – | – | 15.0 | 17.0 | 19.0 | 21.5 |
| | 12.50 | 16.00 | 1365 | 42.8 | 36.0 | 905 | 30.9 | 27.3 | 680 | 24.1 | 21.7 | – | – | – | – | – | – | – | 17.5 |
| 1.29 | 4.90 | 6.30 | 1355 | 11.6 | 7.5 | 898 | 8.2 | 5.6 | 674 | 6.4 | 4.5 | 162 | 192 | 21.2 | 22.7 | 24.7 | 26.7 | 28.7 | 31.2 |
| | 5.20 | 6.70 | 1352 | 13.0 | 8.9 | 896 | 9.2 | 6.5 | 674 | 7.1 | 5.2 | 15.6 | 1836 | 20.6 | 22.1 | 24.1 | 26.4 | 28.1 | 30.6 |
| | 8.00 | 10.30 | 1355 | 25.3 | 20.6 | 898 | 17.8 | 15.0 | 674 | 13.9 | 11.8 | – | 13.6 | 15.6 | 17.1 | 19.1 | 21.1 | 23.1 | 25.6 |
| | 8.50 | 10.90 | 1361 | 27.4 | 22.5 | 902 | 19.3 | 16.4 | 674 | 15.0 | 12.9 | – | 12.7 | 14.7 | 16.2 | 18.2 | 20.2 | 22.2 | 24.7 |
| | 10.90 | 14.00 | 1360 | 37.0 | 31.1 | 901 | 26.4 | 23.1 | 674 | 20.5 | 18.3 | – | – | – | – | 13.9 | 15.9 | 17.9 | 20.4 |

**NOTE:** * 5VX = Single and Polyband belts to 200” length
5V = Single and Polyband belts over 200” long

** Stock belt size 5VX530 not shown

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Belt Number and Approx. Center Distance** | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX 850 | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2500 | 5V 2800 | 5V 3150 | 5V 3550 |
| 1.13 | 34.3 | 36.8 | 39.3 | 41.8 | 44.8 | 47.8 | 50.8 | 54.3 | 57.8 | 61.8 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 117 | 132 | 149 | 169 |
| | 32.0 | 34.5 | 37.0 | 39.5 | 42.5 | 45.5 | 48.5 | 52.0 | 55.5 | 59.5 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 114 | 129 | 147 | 167 |
| | 30.6 | 33.1 | 35.6 | 38.1 | 41.1 | 44.1 | 47.1 | 50.6 | 54.1 | 58.1 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 113 | 128 | 146 | 166 |
| | 29.1 | 31.6 | 34.1 | 36.6 | 39.6 | 42.6 | 45.6 | 49.1 | 52.6 | 56.6 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 112 | 127 | 144 | 164 |
| 1.14 | 33.8 | 36.3 | 38.8 | 41.3 | 44.3 | 47.3 | 50.3 | 53.8 | 57.3 | 61.3 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 116 | 131 | 147 | 169 |
| | 32.6 | 35.1 | 37.6 | 41.1 | 43.1 | 46.1 | 49.1 | 52.6 | 56.1 | 60.1 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 115 | 130 | 148 | 168 |
| | 29.9 | 32.4 | 34.9 | 37.4 | 40.4 | 43.4 | 46.4 | 49.9 | 53.4 | 57.4 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 112 | 127 | 145 | 165 |
| | 20.3 | 22.8 | 25.3 | 27.8 | 30.8 | 33.8 | 36.8 | 40.3 | 43.8 | 47.8 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 103 | 118 | 135 | 155 |
| | 18.9 | 21.4 | 23.9 | 26.4 | 29.4 | 32.4 | 35.4 | 38.9 | 42.4 | 46.4 | 51 | 56. | 61 | 66 | 71 | 76 | 82 | 88 | 101 | 116 | 134 | 154 |
| | .93 | .94 | .95 | .96 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.08 | 1.09 | 1.11 | 1.13 | 1.15 | 1.17 |
| 1.15 | 33.2 | 35.7 | 38.2 | 40.7 | 43.7 | 46.7 | 49.7 | 53.2 | 56.7 | 60.7 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 116 | 131 | 146 | 168 |
| | 28.2 | 30.7 | 33.2 | 35.7 | 38.7 | 41.7 | 44.7 | 48.2 | 51.7 | 55.7 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 111 | 126 | 148 | 163 |
| | 27.3 | 29.8 | 32.3 | 34.8 | 37.8 | 40.8 | 43.8 | 47.3 | 50.8 | 54.8 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 110 | 125 | 142 | 162 |
| | 25.1 | 27.6 | 30.1 | 32.6 | 35.6 | 38.6 | 41.6 | 45.1 | 48.6 | 52.6 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 108 | 123 | 140 | 160 |
| | 24.1 | 26.6 | 29.1 | 31.6 | 34.6 | 37.6 | 40.6 | 44.1 | 47.6 | 51.6 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 107 | 122 | 139 | 159 |
| 1.16 | 28.9 | 31.4 | 33.9 | 36.4 | 39.4 | 42.4 | 45.4 | 46.9 | 52.4 | 56.4 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 111 | 126 | 144 | 164 |
| | 26.0 | 28.5 | 31.0 | 33.5 | 36.5 | 39.5 | 42.5 | 46.0 | 49.5 | 53.5 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 108 | 123 | 141 | 161 |
| 1.17 | 23.2 | 25.7 | 28.3 | 30.8 | 33.8 | 36.8 | 39.8 | 43.3 | 46.8 | 50.8 | 56 | 61 | 66 | 71 | 76 | 81 | 89 | 93 | 106 | 121 | 138 | 158 |
| | – | – | 20.2 | 22.7 | 25.7 | 28.7 | 31.7 | 35.2 | 38.7 | 42.7 | 47 | 53 | 58 | 63 | 68 | 73 | 79 | 85 | 98 | 113 | 130 | 150 |
| 1.18 | 26.7 | 29.2 | 31.7 | 34.2 | 37.2 | 40.2 | 43.2 | 46.7 | 50.2 | 54.2 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 109 | 124 | 142 | 162 |
| | .93 | .94 | .95 | .96 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.08 | 1.09 | 1.11 | 1.13 | 1.15 | 1.17 |
| 1.19 | 35.0 | 37.5 | 40.0 | 42.5 | 45.5 | 48.5 | 51.5 | 55.0 | 58.5 | 62.5 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 117 | 132 | 150 | 170 |
| | 34.5 | 37.0 | 39.5 | 42.0 | 45.0 | 48.0 | 51.0 | 54.5 | 59.0 | 62.0 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 117 | 132 | 150 | 170 |
| | 31.7 | 34.2 | 36.7 | 39.2 | 42.2 | 45.2 | 48.2 | 51.7 | 55.2 | 59.2 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 114 | 129 | 147 | 167 |
| | 22.2 | 24.7 | 27.2 | 29.7 | 32.7 | 35.7 | 38.7 | 42.2 | 45.7 | 49.7 | 54 | 60 | 65 | 70 | 75 | 70 | 86 | 92 | 105 | 132 | 137 | 157 |
| 1.20 | 31.0 | 33.5 | 36.0 | 38.5 | 41.5 | 44.5 | 47.5 | 51.0 | 54.5 | 58.5 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 113 | 128 | 146 | 166 |
| | 30.2 | 32.7 | 35.2 | 37.7 | 40.7 | 43.7 | 46.7 | 50.2 | 53.7 | 57.7 | 63 | 68 | 73 | 77 | 83 | 88 | 94 | 100 | 113 | 129 | 145 | 165 |
| | 29.5 | 32.0 | 34.5 | 37.0 | 40.0 | 43.0 | 46.0 | 49.5 | 53.0 | 57.0 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 112 | 127 | 145 | 165 |
| | 20.9 | 23.4 | 25.9 | 28.4 | 31.4 | 34.4 | 37.4 | 40.9 | 44.4 | 48.4 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 103 | 118 | 136 | 156 |
| 1.21 | 34.0 | 36.5 | 39.0 | 41.5 | 44.5 | 47.5 | 50.5 | 54.0 | 57.5 | 61.5 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 117 | 132 | 149 | 169 |
| | 32.3 | 34.8 | 37.3 | 39.8 | 42.8 | 45.8 | 48.8 | 52.3 | 55.8 | 59.8 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 115 | 130 | 147 | 167 |
| | 27.7 | 30.2 | 32.7 | 35.2 | 38.2 | 41.2 | 44.2 | 47.7 | 51.2 | 55.2 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 110 | 125 | 143 | 163 |
| | 26.9 | 29.4 | 31.9 | 34.4 | 37.4 | 40.4 | 43.4 | 46.9 | 50.4 | 54.4 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 109 | 124 | 142 | 162 |
| | 25.6 | 28.1 | 30.6 | 33.1 | 36.1 | 39.1 | 42.1 | 45.6 | 49.1 | 53.1 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 108 | 123 | 141 | 161 |
| | 23.5 | 26.0 | 28.5 | 31.1 | 34.1 | 37.1 | 40.1 | 43.6 | 47.1 | 51.1 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 106 | 121 | 139 | 159 |
| | 19.5 | 22.0 | 24.5 | 27.0 | 30.0 | 33.0 | 36.0 | 39.5 | 43.0 | 47.0 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 102 | 117 | 135 | 155 |
| 1.22 | 33.5 | 36.0 | 38.5 | 41.0 | 44.0 | 47.0 | 50.0 | 53.5 | 57.0 | 61.0 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 116 | 131 | 149 | 169 |
| | 32.9 | 35.4 | 37.9 | 40.4 | 43.4 | 46.4 | 49.4 | 52.9 | 54.4 | 60.4 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 115 | 130 | 148 | 168 |
| | 28.5 | 31.0 | 33.5 | 36.0 | 39.0 | 42.1 | 45.1 | 48.6 | 52.1 | 56.1 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 111 | 125 | 144 | 164 |
| | 26.3 | 28.8 | 31.3 | 33.8 | 36.8 | 39.8 | 42.8 | 46.3 | 49.8 | 53.9 | 59 | 634 | 69 | 74 | 79 | 84 | 90 | 96 | 109 | 124 | 141 | 161 |
| | 24.6 | 27.1 | 29.6 | 32.1 | 35.1 | 38.1 | 41.1 | 44.6 | 48.1 | 52.1 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 107 | 122 | 140 | 160 |
| 1.24 | 29.3 | 31.8 | 34.3 | 36.8 | 39.8 | 42.8 | 45.8 | 49.3 | 52.8 | 56.8 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 112 | 127 | 144 | 164 |
| | 22.6 | 25.1 | 27.6 | 30.1 | 33.1 | 36.1 | 39.1 | 42.6 | 46.1 | 50.1 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 105 | 120 | 138 | 158 |
| 1.25 | – | – | 21.0 | 23.5 | 26.5 | 29.5 | 32.5 | 36.0 | 39.5 | 43.5 | 49 | 54 | 59 | 64 | 69 | 74 | 80 | 86 | 99 | 114 | 131 | 151 |
| 1.26 | 34.7 | 37.2 | 39.7 | 42.2 | 45.2 | 46.2 | 51.2 | 54.7 | 58.2 | 62.2 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 117 | 132 | 150 | 170 |
| | 26.5 | 29.0 | 31.5 | 34.0 | 37.0 | 40.0 | 43.0 | 46.5 | 50.0 | 54.0 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 109 | 124 | 142 | 162 |
| 1.27 | 34.2 | 36.7 | 39.2 | 41.7 | 44.7 | 47.7 | 50.7 | 54.2 | 57.7 | 61.7 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 117 | 132 | 149 | 169 |
| | 31.3 | 33.8 | 36.3 | 38.8 | 41.8 | 44.8 | 47.8 | 51.3 | 54.8 | 58.8 | 64 | 69 | 74 | 79 | 83 | 89 | 95 | 101 | 114 | 129 | 146 | 166 |
| | 30.6 | 32.3 | 34.8 | 37.3 | 40.3 | 43.3 | 46.3 | 4938 | 53.3 | 57.3 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 112 | 127 | 145 | 165 |
| | 29.8 | 32.3 | 34.8 | 37.3 | 40.3 | 43.3 | 46.3 | 49.8 | 53.3 | 57.3 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 112 | 127 | 145 | 165 |
| | 21.4 | 23.9 | 26.4 | 28.9 | 31.9 | 34.9 | 37.9 | 41.4 | 44.9 | 48.9 | 54 | 59 | 64 | 70 | 74 | 79 | 85 | 91 | 104 | 119 | 136 | 156 |
| 1.28 | 32.0 | 34.5 | 37.0 | 39.5 | 42.5 | 45.5 | 48.5 | 52.0 | 55.5 | 59.5 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 114 | 129 | 147 | 167 |
| | 25.9 | 28.4 | 30.9 | 33.4 | 36.4 | 39.4 | 42.4 | 45.9 | 49.5 | 53.5 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 108 | 123 | 141 | 161 |
| | 25.0 | 27.5 | 30.0 | 32.5 | 35.5 | 38.5 | 41.5 | 45.0 | 48.5 | 52.5 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 108 | 123 | 140 | 160 |
| | 24.0 | 26.5 | 29.0 | 31.5 | 34.5 | 37.5 | 40.5 | 44.0 | 47.5 | 51.5 | 56 | 61 | 66 | 71 | 75 | 81 | 87 | 93 | 107 | 122 | 139 | 159 |
| | 20.0 | 22.5 | 25.1 | 27.6 | 30.6 | 33.6 | 36.6 | 40.1 | 43.6 | 47.6 | 52 | 58 | 63 | 68 | 36 | 78 | 84 | 90 | 103 | 118 | 135 | 155 |
| 1.29 | 33.7 | 36.2 | 38.7 | 41.2 | 44.2 | 47.2 | 50.2 | 53.7 | 57.2 | 61.2 | 66 | 71 | 76 | 81 | 82 | 91 | 97 | 103 | 116 | 131 | 149 | 169 |
| | 32.2 | 35.7 | 38.2 | 40.7 | 43.7 | 46.7 | 49.7 | 53.2 | 56.7 | 60.7 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 116 | 131 | 148 | 168 |
| | 28.1 | 30.6 | 33.1 | 35.6 | 38.6 | 41.6 | 44.6 | 48.1 | 51.6 | 55.6 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 111 | 126 | 143 | 163 |
| | 27.2 | 29.7 | 32.2 | 34.7 | 37.7 | 40.7 | 43.7 | 47.2 | 50.7 | 54.8 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 110 | 125 | 142 | 162 |
| | 22.9 | 25.4 | 27.9 | 30.4 | 33.4 | 36.4 | 39.4 | 42.9 | 46.4 | 50.4 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 105 | 120 | 138 | 158 |

**NOTES:** ** Stock belt size 5V2650 and 5V3350 not shown
Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

**5VX** D-V Wedge Single Belts to 200" POLYBAND to 200"

**5V** D-V Wedge Single Belts over 200" POLYBAND over 200"

| Ratio | Stock Sheaves Diameter | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | 5VX 500 | 5VX 560 | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 |
| **1.30** | 5.50 | 7.10 | 1350 | 14.4 | 10.2 | 895 | 10.1 | 7.5 | 669 | 7.9 | 5.9 | 15.1 | 18.1 | 20.1 | 21.6 | 23.6 | 25.6 | 27.6 | 30.1 |
| | 7.50 | 9.75 | 1342 | 23.2 | 18.6 | 890 | 16.3 | 13.5 | 669 | 12.7 | 10.6 | 11.4 | 14.4 | 16.4 | 17.9 | 19.9 | 21.9 | 23.9 | 26.4 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **.84** | **.86** | **.87** | **.88** | **.89** | **.90** | **.91** | **.92** |
| **1.31** | 7.10 | 9.25 | 1339 | 21.5 | 17.0 | 887 | 15.1 | 12.3 | 664 | 11.7 | 9.7 | 12.1 | 15.1 | 17.1 | 18.6 | 20.6 | 22.6 | 24.6 | 27.1 |
| | 9.00 | 11.80 | 1331 | 29.5 | 24.5 | 882 | 20.9 | 17.9 | 664 | 16.2 | 14.1 | – | – | 13.6 | 15.1 | 17.1 | 19.1 | 21.1 | 23.6 |
| **1.33** | 8.50 | 11.30 | 1313 | 27.5 | 22.6 | 870 | 19.4 | 16.5 | 654 | 15.1 | 13.0 | – | 12.4 | 14.4 | 15.9 | 17.9 | 19.9 | 21.9 | 24.4 |
| | 11.30 | 15.00 | 1315 | 38.5 | 32.5 | 872 | 27.6 | 24.2 | 654 | 21.5 | 19.2 | – | – | – | – | – | 14.7 | 16.8 | 19.3 |
| | 16.00 | 21.20 | 1319 | – | – | 874 | – | – | 654 | 31.7 | 28.9 | – | – | – | – | – | – | – | – |
| **1.34** | 14.00 | 18.70 | 1308 | 48.0 | 40.2 | 867 | 35.0 | 31.1 | 649 | 27.4 | 24.9 | – | – | – | – | – | – | – | – |
| **1.35** | 4.40 | 5.90 | 1297 | 9.4 | 5.4 | 860 | 6.7 | 4.1 | 644 | 5.2 | 3.3 | 16.9 | 19.9 | 21.9 | 23.4 | 25.4 | 27.4 | 29.4 | 31.9 |
| | 6.30 | 8.50 | 1292 | 18.0 | 13.7 | 856 | 12.7 | 10.2 | 644 | 9.9 | 7.9 | 13.3 | 16.3 | 18.3 | 19.9 | 21.8 | 23.9 | 25.9 | 28.4 |
| | 6.70 | 9.00 | 1298 | 19.8 | 15.4 | 860 | 13.9 | 11.2 | 644 | 10.8 | 8.8 | 12.6 | 15.6 | 17.6 | 19.1 | 21.1 | 23.1 | 25.1 | 27.7 |
| **1.36** | 4.65 | 6.30 | 1284 | 10.6 | 6.5 | 851 | 7.5 | 4.9 | 640 | 5.8 | 3.9 | 16.4 | 19.4 | 21.4 | 22.9 | 24.9 | 26.9 | 28.9 | 31.4 |
| | 5.90 | 8.00 | 1285 | 16.3 | 12.1 | 852 | 11.4 | 8.8 | 640 | 8.9 | 6.9 | 14.2 | 17.1 | 19.1 | 20.6 | 22.6 | 24.6 | 26.6 | 29.1 |
| | 9.25 | 12.50 | 1291 | 30.5 | 25.5 | 856 | 21.6 | 18.7 | 640 | 16.8 | 14.7 | – | – | 12.8 | 14.3 | 16.3 | 18.3 | 20.4 | 22.9 |
| | 9.75 | 13.20 | 1289 | 32.6 | 27.3 | 855 | 23.1 | 20.1 | 640 | 18.0 | 15.8 | – | – | – | 13.4 | 15.4 | 17.4 | 19.4 | 21.9 |
| | 10.30 | 14.00 | 1284 | 34.8 | 29.2 | 851 | 24.7 | 21.5 | 640 | 19.2 | 17.0 | – | – | – | – | 14.3 | 16.3 | 18.3 | 20.8 |
| | 11.80 | 16.00 | 1288 | 4.04 | 34.1 | 854 | 29.0 | 25.6 | 640 | 22.6 | 20.3 | – | – | – | – | – | – | 15.5 | 18.0 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **.82** | **.84** | **.85** | **.86** | **.87** | **.88** | **.90** | **.91** |
| **1.37** | 5.20 | 7.10 | 1275 | 13.1 | 9.0 | 845 | 9.2 | 6.6 | 635 | 7.2 | 5.3 | 15.3 | 18.3 | 20.3 | 21.8 | 23.8 | 25.8 | 27.8 | 30.3 |
| | 5.50 | 7.50 | 1277 | 14.5 | 10.3 | 846 | 10.2 | 7.5 | 635 | 7.9 | 56.0 | 14.8 | 17.8 | 19.8 | 21.3 | 23.3 | 25.3 | 27.3 | 29.8 |
| | 8.00 | 10.90 | 1280 | 25.4 | 20.7 | 849 | 17.9 | 15.1 | 635 | 13.9 | 11.8 | – | 13.1 | 15.1 | 16.6 | 18.6 | 20.6 | 22.6 | 25.1 |
| **1.38** | 4.90 | 6.70 | 1273 | 11.7 | 7.7 | 844 | 8.3 | 5.7 | 630 | 6.5 | 4.5 | 15.9 | 18.9 | 20.9 | 22.4 | 24.4 | 26.4 | 28.4 | 30.9 |
| | 7.10 | 9.75 | 1269 | 21.6 | 17.1 | 841 | 15.2 | 12.4 | 630 | 11.8 | 9.8 | 11.7 | 14.7 | 16.7 | 18.2 | 20.2 | 22.2 | 24.2 | 26.7 |
| | 7.50 | 10.30 | 1270 | 23.3 | 18.7 | 842 | 16.4 | 13.6 | 630 | 12.7 | 10.7 | – | 13.9 | 16.0 | 17.5 | 19.5 | 21.5 | 23.5 | 26.0 |
| | 10.90 | 15.00 | 1268 | 37.1 | 31.3 | 841 | 26.5 | 23.2 | 630 | 20.6 | 18.3 | – | – | – | – | – | – | 17.0 | 19.6 |
| **1.39** | 6.70 | 9.25 | 1262 | 19.8 | 15.5 | 837 | 14.0 | 11.2 | 626 | 10.8 | 8.8 | 12.4 | 15.4 | 17.4 | 18.9 | 20.9 | 22.9 | 24.9 | 27.4 |
| | 8.50 | 11.80 | 1256 | 27.5 | 22.7 | 833 | 19.4 | 16.5 | 626 | 15.1 | 13.0 | – | – | 14.0 | 15.5 | 17.5 | 19.5 | 21.5 | 24.0 |
| | 9.00 | 12.50 | 1256 | 29.6 | 24.6 | 833 | 20.9 | 18.0 | 626 | 16.2 | 14.1 | – | – | 13.0 | 14.5 | 16.5 | 18.5 | 20.5 | 23.0 |
| **1.42** | 8.00 | 11.30 | 1234 | 25.5 | 20.8 | 818 | 18.0 | 15.1 | 613 | 13.9 | 11.9 | – | 12.7 | 14.7 | 16.3 | 18.3 | 20.3 | 22.3 | 24.8 |
| | 11.30 | 16.00 | 1233 | 38.6 | 32.6 | 817 | 27.6 | 24.3 | 613 | 21.5 | 19.2 | – | – | – | – | – | – | 15.9 | 18.4 |
| | 13.20 | 18.70 | 1233 | 45.4 | 38.3 | 817 | 32.9 | 29.2 | 613 | 25.7 | 23.2 | – | – | – | – | – | – | – | – |
| | 15.00 | 21.20 | 1236 | – | – | 819 | – | – | 613 | 29.6 | 26.9 | – | – | – | – | – | – | – | – |
| **1.43** | 9.25 | 13.20 | 1222 | 30.7 | 25.6 | 810 | 21.7 | 18.7 | 608 | 16.8 | 14.7 | – | – | – | 13.7 | 15.7 | 17.8 | 19.8 | 22.3 |
| **1.44** | 4.40 | 6.30 | 1214 | 9.5 | 5.5 | 805 | 6.7 | 4.2 | 604 | 5.3 | 3.4 | 16.6 | 19.6 | 21.6 | 23.1 | 25.1 | 27.1 | 29.1 | 31.6 |
| | 6.30 | 9.00 | 1219 | 18.1 | 13.9 | 808 | 12.7 | 10.1 | 604 | 9.9 | 7.9 | 12.9 | 15.9 | 17.9 | 19.4 | 21.4 | 23.4 | 25.4 | 28.0 |
| | 9.75 | 14.00 | 1215 | 32.7 | 27.4 | 805 | 23.2 | 20.1 | 604 | 18.0 | 15.9 | – | – | – | – | 14.7 | 16.7 | 18.7 | 21.2 |
| **1.45** | 4.65 | 6.70 | 1206 | 10.6 | 6.7 | 800 | 7.5 | 5.0 | 600 | 5.9 | 4.0 | 16.1 | 19.1 | 21.1 | 22.6 | 24.6 | 26.6 | 28.6 | 31.1 |
| | 5.20 | 7.50 | 1206 | 13.2 | 9.1 | 799 | 9.3 | 6.7 | 600 | 7.2 | 5.3 | 15.0 | 18.0 | 20.0 | 21.5 | 2..5 | 25.5 | 27.5 | 30.0 |
| | 5.90 | 8.50 | 1208 | 16.4 | 12.2 | 801 | 11.5 | 8.9 | 600 | 8.9 | 7.0 | 13.6 | 16.6 | 18.6 | 20.1 | 22.2 | 24.2 | 26.2 | 28.7 |
| **1.46** | 4.90 | 7.10 | 1200 | 11.8 | 7.8 | 795 | 8.3 | 5.8 | 596 | 6.5 | 4.6 | 15.5 | 18.5 | 20.5 | 22.0 | 24.1 | 26.1 | 28.1 | 30.6 |
| | 5.50 | 8.00 | 1196 | 14.6 | 10.5 | 793 | 10.2 | 7.6 | 596 | 8.0 | 6.0 | 14.3 | 17.4 | 19.4 | 20.9 | 22.9 | 24.9 | 26.9 | 29.4 |
| | 6.70 | 9.75 | 1197 | 19.9 | 15.6 | 793 | 14.0 | 11.3 | 596 | 10.9 | 8.9 | 12.0 | 15.0 | 17.0 | 18.5 | 20.5 | 22.5 | 24.5 | 27.0 |
| | 7.10 | 10.30 | 1201 | 21.7 | 17.2 | 796 | 15.2 | 12.5 | 596 | 11.8 | 9.8 | 11.2 | 14.2 | 16.3 | 17.8 | 19.8 | 21.8 | 23.8 | 26.3 |
| | 7.50 | 10.90 | 1199 | 23.4 | 18.8 | 795 | 16.5 | 13.7 | 596 | 12.8 | 10.8 | – | 13.4 | 15.5 | 17.0 | 19.0 | 21.0 | 23.0 | 25.5 |
| | 10.30 | 15.00 | 1198 | 34.9 | 29.3 | 794 | 24.8 | 21.7 | 596 | 19.3 | 17.1 | – | – | – | – | – | 15.5 | 17.5 | 20.0 |
| **1.47** | 9.00 | 13.20 | 1189 | 29.7 | 24.7 | 788 | 21.0 | 18.0 | 592 | 16.3 | 14.2 | – | – | – | 13.9 | 15.9 | 17.9 | 20.0 | 22.5 |
| | 10.90 | 16.00 | 1189 | 37.2 | 31.4 | 788 | 26.5 | 23.3 | 592 | 20.6 | 18.4 | – | – | – | – | – | – | 16.2 | 18.7 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **.82** | **.84** | **.85** | **.86** | **.87** | **.88** | **.90** | **.91** |
| **1.48** | 6.30 | 9.25 | 1186 | 18.2 | 13.9 | 590 | 12.8 | 10.1 | 588 | 9.9 | 8. | 12.7 | 15.7 | 17.7 | 192 | 21.2 | 23.2 | 25.2 | 27.8 |
| | 8.00 | 11.80 | 1182 | 25.5 | 20.9 | 587 | 18.0 | 15.2 | 588 | 14.0 | 11.9 | – | 12.3 | 14.3 | 15.8 | 17.8 | 19.9 | 21.9 | 24.4 |
| | 8.50 | 12.50 | 1185 | 27.6 | 22.8 | 589 | 19.5 | 16.6 | 588 | 15.1 | 13.1 | – | – | 13.4 | 14.9 | 16.9 | 18.9 | 20.9 | 23.4 |
| | 16.00 | 23.60 | 1184 | – | – | 589 | 40.3 | 35.9 | 588 | 31.8 | 29.0 | – | – | – | – | – | – | – | – |
| **1.50** | 12.50 | 18.70 | 1167 | 43.1 | 36.4 | 580 | 31.0 | 27.5 | 580 | 24.2 | 21.8 | – | – | – | – | – | – | – | – |
| **1.51** | 7.50 | 11.30 | 1156 | 23.4 | 18.9 | 575 | 16.5 | 13.7 | 576 | 12.8 | 10.8 | – | 13.1 | 15.1 | 16.6 | 18.6 | 20.6 | 22.7 | 25.2 |
| **1.52** | 9.25 | 14.00 | 1152 | 30.7 | 25.7 | 573 | 21.7 | 18.8 | 572 | 16.9 | 14.8 | – | – | – | – | 15.1 | 17.1 | 19.1 | 21.6 |
| | 14.00 | 21.20 | 1153 | 46.2 | 40.0 | 573 | 35.1 | 31.3 | 572 | 27.5 | 25.0 | – | – | – | – | – | – | – | – |
| **1.53** | 4.40 | 6.70 | 1140 | 9.5 | 5.6 | 567 | 6.8 | 4.2 | 569 | 5.3 | 3.4 | 16.2 | 19.2 | 21.3 | 22.8 | 24.8 | 26.8 | 28.8 | 31.3 |
| | 5.90 | 9.00 | 1140 | 16.4 | 12.3 | 567 | 11.5 | 8.9 | 569 | 9.0 | 7.0 | 13.2 | 16.2 | 18.2 | 19.7 | 21.7 | 23.7 | 25.8 | 28.3 |

**NOTE:** * 5VX = Single and Polyband belts to 200" length
5V = Single and Polyband belts over 200" long

** Stock belt size 5VX530 not shown

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Belt Number and Approx. Center Distance** | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX 850 | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2800 | 5V 3150 | 5V 3550 |
| 1.30 | 32.6 | 35.1 | 37.6 | 40.1 | 43.1 | 46.1 | 49.1 | 52.6 | 56.1 | 60.1 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | 130 | 148 | 168 |
| | 28.9 | 31.4 | 33.9 | 36.4 | 39.4 | 42.4 | 45.4 | 48.9 | 52.4 | 56.4 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 126 | 144 | 164 |
| | .93 | .94 | .95 | .96 | .97 | .99 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.13 | 1.15 | 1.17 |
| 1.31 | 29.6 | 32.1 | 34.6 | 37.1 | 40.1 | 43.1 | 46.1 | 49.6 | 53.1 | 57.1 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 127 | 145 | 165 |
| | 26.1 | 28.6 | 31.1 | 33.6 | 36.6 | 39.6 | 42.6 | 46.1 | 49.6 | 53.6 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 124 | 141 | 161 |
| 1.33 | 26.9 | 29.4 | 31.9 | 34.4 | 37.4 | 40.4 | 43.4 | 46.9 | 50.4 | 54.4 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 124 | 142 | 162 |
| | 21.8 | 24.3 | 26.8 | 29.3 | 32.3 | 35.3 | 38.3 | 41.8 | 45.3 | 49.3 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 119 | 137 | 157 |
| | – | – | – | – | 23.6 | 26.7 | 29.7 | 33.2 | 36.7 | 40.7 | 46 | 51 | 56 | 61 | 66 | 71 | 77 | 83 | 89 | 96 | 111 | 128 | 146 |
| 1.34 | – | 19.2 | 21.7 | 24.2 | 27.2 | 30.2 | 33.2 | 36.7 | 40.2 | 44.3 | 49 | 54 | 59 | 64 | 69 | 74 | 80 | 86 | 92 | 99 | 114 | 132 | 152 |
| 1.35 | 34.4 | 36.9 | 39.4 | 41.9 | 44.9 | 47.9 | 50.9 | 54.4 | 57.9 | 61.9 | 67 | 73 | 77 | 82 | 87 | 92 | 98 | 104 | 110 | 117 | 132 | 149 | 169 |
| | 30.9 | 33.4 | 35.9 | 38.4 | 41.4 | 44.4 | 47.4 | 50.9 | 54.4 | 58.4 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 128 | 146 | 166 |
| | 30.1 | 32.6 | 35.2 | 37.7 | 40.7 | 43.7 | 46.7 | 50.2 | 53.7 | 57.7 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 128 | 145 | 165 |
| 1.36 | 33.9 | 36.4 | 38.9 | 41.1 | 44.4 | 47.4 | 50.4 | 53.9 | 547.4 | 61.4 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | 131 | 149 | 169 |
| | 31.6 | 34.1 | 36.6 | 39.1 | 42.1 | 45.1 | 48.1 | 51.6 | 55.1 | 59.1 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 129 | 147 | 167 |
| | 25.4 | 27.9 | 30.4 | 32.9 | 35.9 | 38.9 | 41.9 | 45.4 | 48.9 | 52.9 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 123 | 140 | 160 |
| | 24.4 | 26.9 | 29.4 | 31.9 | 34.9 | 37.9 | 40.9 | 44.4 | 47.9 | 51.9 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94. | 100 | 107 | 122 | 139 | 159 |
| | 23.3 | 25.8 | 28.4 | 30.9 | 33.9 | 36.9 | 39.9 | 43.4 | 46.9 | 50.9 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 121 | 138 | 158 |
| | 20.6 | 23.1 | 25.6 | 28.1 | 31.1 | 34.1 | 37.1 | 40.6 | 44.1 | 48.4 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 96 | 103 | 118 | 136 | 156 |
| | .92 | .93 | .94 | .95 | .96 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.13 | 1.15 | 1.17 |
| 1.37 | 32.8 | 35.9 | 38.4 | 40.9 | 43.9 | 46.9 | 49.9 | 53.4 | 56.9 | 60.9 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 108 | 116 | 131 | 148 | 168 |
| | 32.3 | 34.8 | 37.3 | 39.8 | 42.8 | 45.8 | 48.8 | 52.3 | 55.8 | 59.8 | 65 | 70 | 75 | 80 | 84 | 90 | 96 | 102 | 108 | 115 | 130 | 147 | 167 |
| | 27.6 | 30.1 | 32.6 | 35.1 | 38.1 | 41.1 | 44.1 | 47.5 | 51.1 | 55.1 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 125 | 143 | 162 |
| 1.38 | 33.4 | 35.9 | 38.4 | 40.9 | 43.9+ | 46.9 | 49.9 | 53.4 | 56.9 | 60.9 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | 131 | 148 | 168 |
| | 29.2 | 31.7 | 34.2 | 36.7 | 39.7 | 42.7 | 45.7 | 49.2 | 52.7 | 56.8 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 127 | 144 | 164 |
| | 28.5 | 31.0 | 33.5 | 36.0 | 39.0 | 42.0 | 45.0 | 48.5 | 52.0 | 56.0 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 126 | 143 | 163 |
| | 22.1 | 24.6 | 27.1 | 29.6 | 32.6 | 35.6 | 38.6 | 42.1 | 45.6 | 49.6 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 98 | 105 | 120 | 137 | 157 |
| 1.39 | 29.9 | 32.4 | 34.9 | 37.5 | 40.5 | 43.5 | 46.5 | 50.0 | 53.5 | 57.5 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 127 | 145 | 165 |
| | 26.5 | 29.0 | 31.5 | 34.0 | 37.0 | 40.0 | 43.0 | 46.5 | 50.0 | 54.0 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 124 | 141 | 161 |
| | 25.6 | 28.1 | 30.6 | 33.1 | 36.1 | 39.1 | 42.1 | 45.6 | 49.1 | 53.1 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 123 | 141 | 161 |
| 1.42 | 27.3 | 29.8 | 32.3 | 34.8 | 37.8 | 40.8 | 43.8 | 47.3 | 50.8 | 54.8 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 125 | 142 | 162 |
| | 20.9 | 23.4 | 26.0 | 28.5 | 31.5 | 34.5 | 37.5 | 41.0 | 44.5 | 46.5 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 97 | 103 | 118 | 136 | 156 |
| | – | 19.8 | 22.3 | 24.8 | 27.8 | 30.8 | 33.8 | 37.3 | 40.9 | 44.9 | 50 | 55 | 60 | 65 | 70 | 75 | 81 | 87 | 92 | 100 | 115 | 132 | 154 |
| | – | – | – | 21.3 | 24.4 | 27.4 | 30.4 | 33.9 | 37.4 | 41.5 | 46 | 51 | 56 | 61 | 66 | 71 | 77 | 83 | 90 | 96 | 111 | 129 | 149 |
| 1.43 | 24.8 | 27.3 | 29.8 | 32.3 | 35.3 | 38.3 | 41.3 | 44.8 | 48.3 | 52.3 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | 122 | 140 | 160 |
| 1.44 | 34.1 | 36.6 | 39.1 | 41.6 | 44.6 | 47.6 | 50.6 | 54.1 | 57.6 | 61.6 | 67 | 72 | 77 | 82 | 87 | 92 | 98 | 104 | 110 | 117 | 132 | 149 | 169 |
| | 30.5 | 33.0 | 35.5 | 38.0 | 41.0 | 44.0 | 47.0 | 50.5 | 54.0 | 58.0 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 128 | 145 | 165 |
| | 24.8 | 26.3 | 28.8 | 31.3 | 34.3 | 37.3 | 40.3 | 43.8 | 47.3 | 51.3 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 121 | 139 | 159 |
| 1.45 | 33.6 | 36.1 | 38.6 | 41.1 | 44.1 | 47.1 | 50.1 | 53.6 | 57.1 | 61.1 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | 131 | 147 | 169 |
| | 32.5 | 35.0 | 37.5 | 40.0 | 43.0 | 46.0 | 49.0 | 52.5 | 56.0 | 60.0 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | 130 | 148 | 168 |
| | 31.2 | 33.7 | 36.2 | 38.7 | 41.7 | 44.7 | 47.7 | 51.2 | 54.7 | 58.7 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 129 | 146 | 166 |
| 1.46 | 33.1 | 35.6 | 38.1 | 40.6 | 43.6 | 46.6 | 49.6 | 53.1 | 56.6 | 60.6 | 66 | 70 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | 131 | 146 | 168 |
| | 31.9 | 34.4 | 36.9 | 39.4 | 42.4 | 45.4 | 48.4 | 51.9 | 55.4 | 59.4 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 129 | 147 | 167 |
| | 29.5 | 32.1 | 34.6 | 37.1 | 40.1 | 43.1 | 46.1 | 49.6 | 53.1 | 57.1 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 127 | 145 | 165 |
| | 28.8 | 31.3 | 33.8 | 36.3 | 39.3 | 42.3 | 45.3 | 48.8 | 52.3 | 56.3 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 126 | 144 | 164 |
| | 28.0 | 30.5 | 33.0 | 35.5 | 38.5 | 41.5 | 44.5 | 48.0 | 51.5 | 55.5 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 104 | 110 | 125 | 143 | 163 |
| | 22.5 | 25.0 | 27.5 | 30.0 | 33.0 | 36.1 | 39.1 | 42.6 | 46.1 | 50.1 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 9*8 | 105 | 120 | 138 | 158 |
| 1.47 | 25.0 | 27.5 | 30.0 | 32.5 | 35.5 | 38.5 | 41.5 | 45.0 | 48.5 | 52.5 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 101 | 107 | 122 | 140 | 160 |
| | 2.12 | 23.7 | 26.2 | 28.8 | 31.8 | 34.8 | 37.8 | 41.3 | 44.8 | 48.8 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 119 | 136 | 156 |
| | .92 | .93 | .94 | .95 | .96 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.13 | 1.15 | 1.17 |
| 1.48 | 30.3 | 32.8 | 35.3 | 37.8 | 40.8 | 43.8 | 46.8 | 50.3 | 53.8 | 57.8 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 100 | 113 | 128 | 145 | 165 |
| | 26.9 | 29.4 | 31.9 | 34.4 | 37.4 | 40.4 | 43.4 | 46.9 | 50.4 | 54.4 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 96 | 109 | 124 | 142 | 162 |
| | 25.9 | 28.8 | 30.4 | 33.4 | 36.5 | 39.5 | 42.5 | 46.0 | 49.5 | 53.5 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 95 | 108 | 123 | 141 | 161 |
| | – | – | – | – | – | 24.6 | 27.6 | 312 | 34.7 | 38.7 | 44 | 49 | 54 | 59 | 64 | 69 | 75 | 81 | 81 | 94 | 109 | 126 | 146 |
| 1.50 | – | 20.3 | 22.8 | 25.3 | 28.3 | 31.3 | 34.4 | 37.9 | 41.4 | 45.4 | 50 | 55 | 60 | 65 | 70 | 75 | 81 | 87 | 87 | 100 | 115 | 133 | 153 |
| 1.51 | 27.7 | 30.2 | 32.7 | 35.2 | 38.2 | 41.2 | 44.2 | 47.7 | 51.2 | 55.2 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 97 | 110 | 125 | 143 | 163 |
| 1.52 | 24.1 | 26.6 | 29.1 | 31.7 | 34.7 | 37.7 | 40.7 | 44.2 | 47.7 | 51.7 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 94 | 107 | 122 | 139 | 159 |
| | – | – | – | 22.1 | 25.1 | 28.1 | 31.1 | 34.7 | 38.2 | 42.2 | 47 | 52 | 57 | 62 | 67 | 72 | 78 | 84 | 84 | 97 | 112 | 130 | 150 |
| 1.53 | 33.8 | 36.3 | 38.8 | 41.3 | 44.3 | 47.3 | 50.3 | 53.8 | 57.3 | 61.3 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 103 | 116 | 131 | 1467 | 169 |
| | 30.8 | 33.3 | 35.8 | 38.3 | 41.3 | 44.3 | 47.3 | 50.8 | 54.3 | 58.3 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 100 | 113 | 128 | 146 | 166 |

**NOTE:** ** Stock belt size 5V2650 and 5V3350 not shown
Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Stock Sheaves Diameter | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | 5VX 500 | 5VX 560 | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 |
| 1.54 | 4.65 | 7.10 | 1138 | 10.7 | 6.7 | 765 | 7.6 | 5.0 | 565 | 5.9 | 4.0 | 15.7 | 18.7 | 20.7 | 22.2 | 24.2 | 26.2 | 28.2 | 30.8 |
| | 4.90 | 7.50 | 1135 | 11.9 | 7.9 | 752 | 8.4 | 5.8 | 565 | 6.53 | 4.6 | 15.2 | 18.2 | 20.2 | 21.7 | 23.7 | 25.7 | 27.7 | 30.2 |
| | 7.10 | 10.90 | 1134 | 21.7 | 17.3 | 752 | 15.3 | 12.5 | 565 | 11.9 | 10.0 | 10.7 | 13.7 | 15.8 | 17.3 | 19.3 | 21.3 | 23.3 | 25.8 |
| | 9.75 | 15.00 | 1133 | 32.8 | 27.5 | 751 | 23.2 | 20.2 | 565 | 18.0 | 15.9 | – | – | – | – | 13.8 | 15.9 | 17.9 | 20.4 |
| 1.55 | 5.20 | 8.00 | 1130 | 13.3 | 9.2 | 749 | 9.3 | 6.8 | 561 | 7.3 | 5.4 | 14.6 | 17.6 | 19.6 | 21.1 | 23.1 | 25.1 | 27.1 | 29.6 |
| | 6.70 | 10.30 | 1132 | 20.0 | 15.7 | 751 | 14.0 | 11.4 | 561 | 11.0 | 8.9 | 11.5 | 14.5 | 16.6 | 18.1 | 20.1 | 22.1 | 24.1 | 26.6 |
| 1.56 | 5.50 | 8.50 | 1125 | 14.6 | 10.5 | 746 | 10.3 | 7.7 | 558 | 8.0 | 6.1 | 13.9 | 16.9 | 19.0 | 20.4 | 22.5 | 24.5 | 26.5 | 29.0 |
| | 6.30 | 9.75 | 1124 | 18.2 | 14.0 | 745 | 12.8 | 10.1 | 558 | 9.9 | 8.0 | 12.3 | 15.3 | 17.3 | 18.8 | 20.8 | 22.8 | 24.8 | 27.3 |
| | 8.50 | 13.20 | 1122 | 27.7 | 22.9 | 744 | 19.5 | 16.7 | 558 | 15.1 | 13.1 | – | – | 12.7 | 14.3 | 16.3 | 18.3 | 20.3 | 22.8 |
| | 9.00 | 14.00 | 1121 | 29.7 | 24.8 | 743 | 21.0 | 18.1 | 558 | 16.3 | 14.2 | – | – | – | 13.2 | 15.2 | 17.3 | 19.3 | 21.8 |
| | 10.30 | 16.00 | 1123 | 34.9 | 29.4 | 744 | 24.8 | 21.7 | 558 | 19.3 | 17.1 | – | – | – | – | – | 14.6 | 16.6 | 19.1 |
| 1.57 | 8.00 | 12.50 | 1115 | 25.6 | 20.9 | 739 | 18.0 | 15.2 | 554 | 14.0 | 12.0 | – | – | 13.7 | 15.2 | 17.3 | 19.3 | 21.3 | 23.8 |
| 1.58 | 5.90 | 9.25 | 1109 | 16.4 | 12.3 | 735 | 11.6 | 8.9 | 551 | 9.0 | 7.1 | 13.0 | 16.0 | 18.0 | 19.5 | 21.5 | 23.5 | 25.5 | 28.1 |
| | 7.50 | 11.80 | 1107 | 23.5 | 19.0 | 734 | 16.5 | 13.8 | 551 | 12.8 | 10.8 | – | 12.7 | 14.7 | 16.2 | 18.2 | 20.2 | 22.2 | 24.7 |
| | 15.00 | 23.60 | 1110 | ... | ... | 735 | 37.8 | 33.7 | 551 | 29.7 | 27.0 | – | – | – | – | – | – | – | – |
| 1.59 | 11.80 | 18.70 | 1101 | 40.6 | 34.3 | 730 | 29.1 | 25.8 | 547 | 22.7 | 20.4 | – | – | – | – | – | – | – | – |
| 1.60 | 7.10 | 11.30 | 1094 | 21.8 | 17.4 | 725 | 15.3 | 12.6 | 544 | 11.9 | 10.0 | – | 13.4 | 15.4 | 169 | 18.9 | 20.9 | 23.0 | 25.5 |
| ARC-LENGTH CORRECTION FACTOR —> | | | | | | | | | | | | .82 | .83 | .85 | .86 | .87 | .88 | .89 | .91 |
| 1.61 | 13.20 | 21.20 | 1086 | 45.6 | 38.4 | 720 | 33.0 | 29.4 | 540 | 25.8 | 23.4 | – | – | – | – | – | – | – | – |
| 1.63 | 4.40 | 7.10 | 1075 | 9.3 | 5.7 | 713 | 6.8 | 4.3 | 534 | 5.3 | 3.4 | 15.9 | 18.9 | 20.9 | 22.4 | 24.4 | 26.4 | 28.4 | 30.9 |
| | 4.65 | 7.50 | 1076 | 10.8 | 6.8 | 713 | 7.6 | 5.1 | 534 | 5.9 | 4.1 | 15.4 | 18.4 | 20.4 | 21.9 | 23.9 | 25.9 | 27.9 | 30.4 |
| | 9.25 | 15.00 | 1076 | 30.8 | 25.7 | 712 | 21.8 | 18.8 | 534 | 16.9 | 14.8 | – | – | – | – | 14.2 | 16.2 | 18.2 | 20.8 |
| 1.64 | 6.70 | 10.90 | 1069 | 20.2 | 15.7 | 709 | 14.1 | 11.4 | 530 | 10.9 | 9.0 | 11.0 | 14.0 | 16.0 | 17.6 | 19.6 | 21.6 | 23.6 | 26.1 |
| 1.65 | 4.90 | 8.00 | 1063 | 11.9 | 7.9 | 705 | 8.4 | 5.9 | 527 | 6.6 | 4.7 | 14.8 | 17.8 | 19.8 | 21.3 | 23.3 | 25.3 | 27.3 | 29.8 |
| | 5.20 | 8.50 | 1063 | 13.3 | 9.3 | 704 | 9.4 | 6.8 | 527 | 7.3 | 5.4 | 14.1 | 17.2 | 19.2 | 20.7 | 22.7 | 24.7 | 26.7 | 29.2 |
| | 5.50 | 9.00 | 1062 | 14.7 | 10.6 | 704 | 10.3 | 7.7 | 527 | 8.3 | 6.1 | 13.5 | 16.5 | 18.5 | 20.0 | 22.0 | 24.0 | 26.1 | 28.6 |
| | 6.30 | 10.30 | 1064 | 18.3 | 14.0 | 705 | 12.8 | 10.2 | 527 | 10.0 | 8.0 | 11.8 | 14.8 | 16.9 | 18.4 | 20.4 | 22.4 | 24.4 | 26.9 |
| | 8.50 | 14.00 | 1058 | 27.7 | 22.9 | 701 | 19.6 | 16.7 | 527 | 15.2 | 13.1 | – | – | – | 13.5 | 15.6 | 17.6 | 19.6 | 22.2 |
| | 9.75 | 16.00 | 1062 | 32.8 | 27.6 | 704 | 23.2 | 20.2 | 527 | 18.1 | 15.9 | – | – | – | – | – | – | 17.0 | 19.5 |
| 1.66 | 5.90 | 9.75 | 1052 | 16.5 | 12.3 | 697 | 11.6 | 9.0 | 524 | 9.0 | 7.1 | 12.6 | 15.6 | 17.6 | 19.1 | 21.1 | 23.1 | 25.1 | 27.6 |
| | 8.00 | 13.20 | 1055 | 25.6 | 21.0 | 700 | 18.1 | 15.3 | 524 | 14.0 | 12.0 | – | – | 13.1 | 14.6 | 16.6 | 18.7 | 20.7 | 23.2 |
| | 11.30 | 18.70 | 1054 | 38.8 | 32.8 | 698 | 27.7 | 24.4 | 524 | 21.6 | 19.3 | – | – | – | – | – | – | – | – |
| 1.67 | 7.10 | 11.80 | 1047 | 21.8 | 17.4 | 694 | 15.3 | 12.6 | 521 | 11.9 | 9.9 | – | 12.9 | 15.0 | 16.5 | 18.5 | 20.5 | 22.5 | 25.0 |
| | 9.00 | 15.00 | 1045 | 29.8 | 24.8 | 693 | 21.1 | 18.1 | 521 | 16.3 | 14.3 | – | – | – | – | 14.3 | 164 | 18.4 | 20.9 |
| 1.68 | 7.50 | 12.50 | 1044 | 23.5 | 19.0 | 692 | 16.5 | 13.8 | 518 | 12.8 | 10.8 | – | – | 14.1 | 15.6 | 17.6 | 19.6 | 21.6 | 24.2 |
| 1.69 | 5.50 | 9.25 | 1033 | 14.7 | 10.6 | 685 | 10.3 | 7.7 | 515 | 8.0 | 6.1 | 13.3 | 16.3 | 18.3 | 19.8 | 21.8 | 23.8 | 25.8 | 28.4 |
| | 14.00 | 23.60 | 1035 | 48.3 | 40.6 | 686 | 35.2 | 31.4 | 515 | 27.6 | 25.0 | – | – | – | – | – | – | – | – |
| 1.70 | 6.70 | 11.30 | 1028 | 20.1 | 15.8 | 684 | 14.1 | 11.4 | 512 | 10.9 | 9.0 | 10.6 | 13.7 | 15.7 | 17.2 | 19.2 | 21.2 | 23.3 | 25.8 |
| | 12.50 | 21.20 | 1031 | 43.2 | 36.5 | 682 | 31.1 | 27.6 | 512 | 24.3 | 21.9 | – | – | – | – | – | – | – | – |
| 1.72 | 4.40 | 7.50 | 1017 | 9.6 | 5.72 | 674 | 6.8 | 4.3 | 506 | 5.3 | 3.5 | 15.6 | 18.6 | 20.6 | 22.1 | 24.1 | 26.1 | 28.1 | 30.6 |
| | 10.90 | 18.70 | 1016 | 37.3 | 31.5 | 674 | 26.6 | 23.4 | 506 | 20.7 | 18.5 | – | – | – | – | – | – | – | – |
| 1.74 | 4.65 | 8.00 | 1008 | 10.6 | 6.9 | 668 | 7.6 | 5.1 | 500 | 6.0 | 4.1 | 15.0 | 18.0 | 20.0 | 21.5 | 23.5 | 25.5 | 27.5 | 30.0 |
| | 6.30 | 10.90 | 1005 | 18.3 | 14.1 | 666 | 12.9 | 10.2 | 500 | 10.0 | 8.1 | 11.3 | 14.3 | 16.3 | 17.8 | 19.9 | 21.9 | 23.9 | 26.4 |
| | 9.25 | 16.00 | 1007 | 30.8 | 25.8 | 668 | 21.8 | 18.9 | 500 | 16.9 | 14.8 | – | – | – | – | – | 15.3 | 17.3 | 19.9 |
| 1.75 | 4.90 | 8.50 | 1000 | 12.0 | 8.0 | 663 | 8.4 | 5.9 | 497 | 6.6 | 4.7 | 14.4 | 17.4 | 19.4 | 20.9 | 22.9 | 24.9 | 26.9 | 29.4 |
| | 5.20 | 9.00 | 1003 | 13.3 | 9.3 | 665 | 9.4 | 6.8 | 497 | 7.3 | 5.4 | 13.7 | 16.7 | 18.8 | 20.3 | 22.3 | 24.3 | 26.3 | 28.8 |
| | 16.00 | 28.00 | 997 | – | – | 661 | 40.4 | 36.0 | 497 | 31.8 | 29.0 | – | – | – | – | – | – | – | – |
| ARC-LENGTH CORRECTION FACTOR —> | | | | | | | | | | | | | .83 | .85 | .86 | .87 | .88 | .89 | .91 |
| 1.76 | 5.90 | 10.30 | 995 | 16.5 | 12.4 | 660 | 11.6 | 9.0 | 494 | 9.0 | 7.1 | – | 15.1 | 17.1 | 18.6 | 20.7 | 22.7 | 24.7 | 2.72 |
| | 8.00 | 14.00 | 995 | 25.7 | 21.0 | 659 | 18.1 | 15.3 | 494 | 14.0 | 12.0 | – | – | 12.4 | 13.9 | 15.9 | 18.0 | 20.0 | 22.5 |
| 1.77 | 6.70 | 11.80 | 987 | 20.1 | 15.5 | 654 | 14.1 | 11.4 | 492 | 10.9 | 9.0 | – | 13.2 | 15.3 | 16.8 | 18.8 | 20.8 | 22.8 | 25.3 |
| | 7.10 | 12.50 | 977 | 21.8 | 17.4 | 655 | 15.3 | 12.6 | 492 | 11.9 | 9.9 | – | 12.3 | 14.4 | 15.9 | 17.9 | 19.9 | 21.9 | 24.5 |
| | 7.50 | 13.20 | 979 | 23.5 | 19.1 | 655 | 16.6 | 13.8 | 492 | 12.8 | 10.9 | – | – | 13.4 | 15.0 | 17.0 | 19.0 | 21.0 | 23.6 |
| | 8.50 | 15.00 | 987 | 27.8 | 23.0 | 654 | 19.6 | 16.7 | 492 | 15.2 | 13.2 | – | – | – | – | 14.7 | 16.7 | 18.8 | 21.3 |
| 1.79 | 5.20 | 9.25 | 975 | 13.3 | 9.3 | 647 | 9.4 | 6.8 | 486 | 7.3 | 5.4 | – | 16.5 | 18.5 | 20.0 | 22.1 | 24.1 | 26.1 | 28.6 |
| | 5.50 | 9.75 | 979 | 14.7 | 10.7 | 649 | 10.4 | 7.8 | 486 | 8.1 | 6.1 | – | 15.9 | 17.9 | 19.4 | 21.4 | 23.4 | 25.4 | 27.9 |
| | 9.00 | 16.00 | 980 | 29.8 | 24.9 | 649 | 21.1 | 18.2 | 486 | 16.4 | 14.3 | – | – | – | – | – | 15.5 | 17.5 | 20.1 |
| | 13.20 | 23.60 | 976 | 45.6 | 38.5 | 647 | 33.1 | 29.4 | 486 | 25.8 | 23.4 | – | – | – | – | – | – | – | – |

**NOTE:** * 5VX = Single and Polyband belts to 200” length
5V = Single and Polyband belts over 200” long

** Stock belt size 5VX530 not shown

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Belt Number and Approx. Center Distance** | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX 850 | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3150 | 5V 3550 |
| 1.54 | 33.3 | 35.8 | 38.3 | 40.7 | 43.8 | 46.8 | 49.8 | 53.3 | 56.8 | 60.7 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | – | 131 | 148 | 168 |
| | 32.7 | 35.2 | 37.7 | 40.2 | 43.2 | 46.2 | 49.2 | 52.7 | 56.2 | 60.2 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | – | 130 | 148 | 168 |
| | 28.3 | 30.8 | 33.3 | 35.8 | 38.8 | 41.8 | 44.8 | 48.3 | 51.8 | 55.8 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 110 | – | 126 | 143 | 163 |
| | 22.9 | 25.4 | 27.9 | 30.4 | 33.5 | 36.5 | 39.5 | 43.0 | 46.5 | 50.5 | 56 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 99 | 105 | – | 120 | 138 | 158 |
| 1.55 | 32.1 | 34.6 | 37.1 | 39.6 | 42.6 | 45.6 | 48.6 | 52.1 | 55.6 | 59.6 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 114 | – | 130 | 147 | 167 |
| | 29.1 | 31.6 | 34.1 | 36.6 | 39.6 | 42.6 | 45.6 | 49.1 | 52.6 | 56.6 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | – | 127 | 144 | 164 |
| 1.56 | 31.5 | 34.0 | 36.5 | 39.0 | 42.0 | 45.0 | 48.0 | 51.5 | 55.0 | 59.0 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | – | 129 | 146 | 166 |
| | 29.9 | 32.3 | 34.9 | 37.4 | 40.4 | 43.4 | 46.4 | 49.9 | 53.4 | 57.4 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | – | 127 | 145 | 165 |
| | 25.4 | 27.9 | 30.4 | 32.9 | 35.9 | 38.9 | 41.9 | 45.4 | 48.9 | 52.9 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 94 | 101 | 108 | – | 123 | 140 | 160 |
| | 24.3 | 26.8 | 29.3 | 31.8 | 34.8 | 37.9 | 40.9 | 44.4 | 47.9 | 51.9 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | – | 122 | 139 | 159 |
| | 21.7 | 24.2 | 26.7 | 29.2 | 32.2 | 35.2 | 38.2 | 41.7 | 45.3 | 49.3 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | – | 119 | 137 | 157 |
| 1.57 | 26.3 | 28.8 | 31.3 | 33.8 | 36.8 | 39.8 | 42.8 | 46.3 | 49.8 | 53.9 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | – | 124 | 141 | 161 |
| 1.58 | 30.6 | 33.1 | 35.6 | 38.1 | 41.1 | 44.1 | 47.1 | 50.6 | 54.1 | 58.1 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | – | 128 | 146 | 166 |
| | 27.3 | 29.8 | 32.3 | 34.8 | 37.8 | 40.8 | 43.8 | 47.3 | 50.8 | 54.8 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | – | 125 | 142 | 162 |
| | – | – | – | – | 22.3 | 25.3 | 28.4 | 31.9 | 35.4 | 39.4 | 44 | 50 | 55 | 60 | 64 | 70 | 76 | 82 | 88 | 95 | – | 110 | 127 | 147 |
| 1.59 | 18.2 | 20.8 | 23.3 | 25.8 | 28.8 | 31.9 | 34.9 | 38.4 | 41.9 | 45.9 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 101 | – | 116 | 133 | 153 |
| 1.60 | 28.0 | 30.5 | 33.0 | 35.5 | 38.5 | 41.5 | 44.5 | 48.0 | 51.5 | 55.5 | 61 | 66 | 71 | 76 | 80 | 85 | 91 | 97 | 104 | 110 | – | 125 | 143 | 163 |
| | .92 | .93 | .94 | .95 | .96 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.15 | 1.17 |
| 1.61 | – | – | 20.1 | 22.6 | 25.7 | 28.7 | 31.7 | 35.3 | 38.8 | 42.8 | 48 | 53 | 58 | 63 | 68 | 73 | 79 | 85 | 91 | 98 | – | 113 | 130 | 150 |
| 1.63 | 33.4 | 35.9 | 38.4 | 40.9 | 43.9 | 46.9 | 49.9 | 53.5 | 57.0 | 61.0 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | – | 131 | 148 | 168 |
| | 32.9 | 35.4 | 37.9 | 40.4 | 43.4 | 46.4 | 49.4 | 52.9 | 56.4 | 60.6 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | – | 130 | 148 | 168 |
| | 23.3 | 25.8 | 28.3 | 30.8 | 33.8 | 36.8 | 39.9 | 43.4 | 46.9 | 50.9 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | – | 121 | 138 | 158 |
| 1.64 | 28.6 | 31.1 | 33.6 | 36.1 | 39.1 | 42.1 | 45.1 | 48.6 | 52.1 | 56.1 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | – | 126 | 144 | 164 |
| 1.65 | 32.3 | 34.8 | 37.3 | 39.8 | 42.8 | 45.8 | 48.8 | 52.3 | 55.8 | 59.8 | 65 | 70 | 75 | 80 | 84 | 90 | 96 | 102 | 108 | 114 | – | 130 | 147 | 167 |
| | 31.7 | 34.2 | 36.7 | 39.2 | 42.2 | 45.2 | 48.2 | 51.7 | 55.2 | 59.2 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | – | 129 | 147 | 167 |
| | 31.1 | 33.6 | 36.1 | 38.6 | 41.6 | 44.6 | 47.6 | 51.1 | 54.6 | 58.6 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | – | 129 | 146 | 166 |
| | 29.4 | 31.9 | 34.4 | 36.9 | 39.9 | 42.9 | 45.9 | 49.4 | 52.9 | 56.9 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | – | 127 | 144 | 164 |
| | 24.7 | 27.2 | 29.7 | 32.2 | 35.2 | 38.2 | 41.2 | 44.7 | 48.3 | 52.3 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | – | 122 | 140 | 160 |
| | 22.1 | 24.6 | 27.1 | 29.6 | 32.6 | 35.6 | 38.6 | 42.2 | 45.7 | 49.7 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 98 | 105 | – | 120 | 137 | 157 |
| 1.66 | 30.2 | 32.7 | 35.2 | 37.7 | 40.7 | 43.7 | 46.7 | 50.2 | 53.7 | 57.7 | 62 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | – | 128 | 145 | 165 |
| | 25.7 | 28.2 | 30.7 | 33.2 | 36.3 | 39.3 | 42.3 | 45.8 | 49.3 | 53.3 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | – | 123 | 141 | 161 |
| | 18.6 | 21.1 | 23.6 | 26.2 | 29.2 | 32.2 | 35.2 | 38.8 | 42.3 | 46.3 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 101 | – | 116 | 134 | 154 |
| 1.67 | 27.6 | 30.1 | 32.6 | 35.1 | 38.1 | 41.1 | 44.1 | 47.6 | 51.1 | 55.1 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | – | 125 | 143 | 163 |
| | 23.5 | 26.0 | 28.5 | 31.0 | 34.0 | 37.0 | 40.0 | 43.5 | 47.1 | 51.1 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | – | 121 | 139 | 159 |
| 1.68 | 26.7 | 29.2 | 31.7 | 34.2 | 37.2 | 40.2 | 43.2 | 46.7 | 50.2 | 54.2 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | – | 124 | 142 | 162 |
| 1.69 | 30.9 | 33.4 | 35.9 | 38.4 | 41.4 | 44.4 | 47.4 | 50.9 | 54.4 | 58.4 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | – | 128 | 146 | 166 |
| | – | – | – | – | 23.0 | 26.0 | 29.1 | 32.6 | 36.2 | 40.2 | 45 | 50 | 55 | 60 | 65 | 70 | 76 | 82 | 88 | 95 | – | 110 | 127 | 148 |
| 1.70 | 28.3 | 30.8 | 33.3 | 35.8 | 38.8 | 41.8 | 44.8 | 48.3 | 51.8 | 55.8 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | – | 126 | 143 | 163 |
| | – | – | 20.6 | 23.1 | 26.2 | 29.2 | 32.2 | 35.8 | 39.3 | 43.3 | 48 | 53 | 58 | 63 | 68 | 73 | 79 | 85 | 91 | 98 | – | 113 | 131 | 151 |
| 1.72 | 33.1 | 35.6 | 38.1 | 40.6 | 43.6 | 46.6 | 49.6 | 53.1 | 56.6 | 60.6 | 66 | 71 | 76 | 81 | 86 | 91 | 97 | 103 | 109 | 116 | – | 131 | 148 | 168 |
| | 18.9 | 21.4 | 23.9 | 26.5 | 29.5 | 32.5 | 35.5 | 39.1 | 42.6 | 46.6 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | – | 117 | 134 | 154 |
| 1.74 | 32.5 | 35.0 | 37.5 | 40.0 | 43.0 | 46.0 | 49.0 | 52.5 | 56.0 | 60.0 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | – | 130 | 148 | 168 |
| | 28.9 | 31.4 | 33.9 | 36.4 | 39.4 | 42.4 | 45.4 | 48.9 | 52.4 | 56.4 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 105 | 111 | – | 126 | 144 | 164 |
| | 22.4 | 24.9 | 27.5 | 30.0 | 33.0 | 36.0 | 39.0 | 42.5 | 46.0 | 50.1 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 98 | 105 | – | 120 | 138 | 158 |
| 1.75 | 31.9 | 34.4 | 36.9 | 39.4 | 42.4 | 45.4 | 48.4 | 51.9 | 55.4 | 59.4 | 65 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | – | 129 | 147 | 167 |
| | 31.3 | 33.8 | 36.3 | 38.8 | 41.8 | 44.8 | 47.8 | 51.3 | 54.8 | 58.8 | 64 | 67 | 74 | 79 | 84 | 89 | 94 | 101 | 107 | 114 | – | 129 | 146 | 166 |
| | – | – | – | – | – | – | – | 27.3 | 30.9 | 34.9 | 40 | 45 | 50 | 55 | 60 | 65 | 71 | 77 | 83 | 90 | – | 105 | 123 | 143 |
| | .92 | .93 | .94 | .95 | .96 | .97 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.15 | 1.17 |
| 1.76 | 29.7 | 32.2 | 34.7 | 37.2 | 40.2 | 43.2 | 46.2 | 49.7 | 53.2 | 57.2 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 120 | 127 | 145 | 165 |
| | 25.1 | 27.6 | 30.1 | 32.6 | 35.6 | 38.6 | 41.6 | 45.1 | 48.6 | 52.6 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 115 | 123 | 140 | 160 |
| 1.77 | 27.9 | 30.4 | 32.9 | 35.4 | 38.4 | 41.4 | 44.4 | 47.9 | 51.4 | 55.4 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 118 | 125 | 143 | 163 |
| | 27.0 | 29.5 | 32.0 | 34.5 | 37.5 | 40.5 | 43.5 | 47.0 | 50.5 | 54.5 | 60 | 65 | 70 | 75 | 80 | 84 | 91 | 97 | 103 | 110 | 117 | 125 | 142 | 162 |
| | 26.1 | 28.6 | 31.1 | 33.6 | 36.6 | 39.6 | 42.6 | 46.2 | 49.7 | 53.7 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 116 | 124 | 141 | 161 |
| | 23.8 | 26.3 | 28.9 | 31.4 | 34.4 | 37.4 | 40.4 | 43.9 | 47.4 | 51.4 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 114 | 121 | 139 | 159 |
| 1.79 | 31.1 | 33.6 | 36.1 | 38.6 | 41.6 | 44.6 | 47.6 | 51.1 | 54.6 | 58.6 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 10 | 114 | 121 | 129 | 146 | 166 |
| | 30.5 | 33.0 | 35.5 | 38.0 | 41.0 | 44.0 | 47.0 | 50.5 | 54.0 | 58.0 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 121 | 128 | 146 | 166 |
| | 22.6 | 25.1 | 27.6 | 30.2 | 33.2 | 36.2 | 39.2 | 42.7 | 46.2 | 50.2 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92.3 | 98 | 105 | 113 | 120 | 138 | 158 |
| | – | – | – | – | 23.5 | 26.6 | 29.6 | 33.2 | 36.7 | 40.8 | 46 | 51 | 56 | 61 | 66 | 71 | 77 | 83 | 89 | 96.0 | 103 | 111 | 128 | 149 |

**NOTE:** ** Stock belt size 5V2650 and 5V3350 not shown
Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Stock Sheaves | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Diameter | | Driven | HP/Belt | | Driven | HP/Belt | | Driven | HP/Belt | | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX |
| | Driver | Driven | RPM | 5VX | 5V | RPM | 5VX | 5V | RPM | 5VX | 5V | 560 | 600 | 630 | 670 | 710 | 750 | 800 | 850 |
| **1.80** | 11.80 | 21.20 | 970 | 40.7 | 34.5 | 643 | 29.2 | 25.8 | 483 | 22.7 | 20.5 | – | – | – | – | – | – | – | – |
| **1.81** | 6.30 | 11.30 | 969 | 18.3 | 14.1 | 642 | 12.9 | 10.2 | 481 | 10.0 | 8.1 | 14.0 | 16.0 | 17.5 | 19.5 | 21.5 | 23.6 | 26.1 | 28.6 |
| **1.82** | 10.30 | 18.70 | 960 | 35.0 | 29.6 | 636 | 24.9 | 21.8 | 478 | 19.4 | 17.2 | – | – | – | – | – | – | 16.7 | 19.3 |
| **1.84** | 4.40 | 8.00 | 953 | 9.7 | 5.8 | 631 | 6.8 | 4.3 | 473 | 5.3 | 35.0 | 18.2 | 20.2 | 21.7 | 23.7 | 25.7 | 27.7 | 30.2 | 32.7 |
| **1.85** | 4.65 | 8.50 | 944 | 10.8 | 6.9 | 628 | 7.7 | 5.1 | 470 | 6.0 | 4.1 | 17.6 | 19.6 | 21.1 | 23.1 | 25.1 | 27.1 | 29.6 | 32.1 |
| | 4.90 | 9.00 | – | 12.0 | 8.0 | 626 | 8.5 | 5.9 | 470 | 6.6 | 4.7 | 17.0 | 19.0 | 20.5 | 22.5 | 24.5 | 26.5 | 29.0 | 31.5 |
| **1.86** | 5.90 | 10.90 | 940 | 16.5 | 12.4 | 623 | 11.6 | 9.0 | 468 | 9.0 | 7.1 | 14.6 | 16.6 | 18.1 | 20.2 | 22.2 | 24.2 | 26.7 | 29.2 |
| **1.87** | 7.10 | 13.20 | 935 | 21.8 | 17.5 | 620 | 15.4 | 12.7 | 465 | 11.9 | 10.0 | 11.7 | 13.7 | 15.3 | 17.3 | 19.3 | 21.3 | 23.9 | 26.4 |
| | 15.00 | 28.00 | – | – | – | 619 | 37.9 | 33.7 | 465 | 29.7 | 27.1 | – | – | – | – | – | – | – | – |
| **1.88** | 6.70 | 12.50 | 932 | 20.1 | 15.8 | 617 | 14.1 | 11.5 | 463 | 11.0 | 9.0 | 12.6 | 14.6 | 16.2 | 18.2 | 20.2 | 22.2 | 24.8 | 27.3 |
| | 7.50 | 14.00 | 929 | 23.6 | 19.1 | 618 | 16.6 | 13.8 | 463 | 12.9 | 10.9 | – | 12.7 | 14.3 | 16.3 | 18.3 | 20.4 | 22.9 | 25.4 |
| | 11.30 | 21.20 | – | 38.9 | 32.9 | 616 | 27.8 | 24.5 | 463 | 21.6 | 19.4 | – | – | – | – | – | – | – | – |
| **1.89** | 5.20 | 9.75 | 925 | 13.4 | 9.4 | 613 | 9.4 | 6.9 | 460 | 7.3 | 5.4 | 16.1 | 18.1 | 19.6 | 21.6 | 23.7 | 25.7 | 28.2 | 30.7 |
| | 5.50 | 10.30 | 927 | 14.7 | 10.7 | 614 | 10.4 | 7.8 | 460 | 8.1 | 6.2 | 15.4 | 17.4 | 18.9 | 21.0 | 23.0 | 25.0 | 27.5 | 30.0 |
| | 6.30 | 11.80 | 928 | 18.3 | 14.1 | 615 | 12.9 | 10.2 | 460 | 10.0 | 8.1 | 13.5 | 15.5 | 17.1 | 19.1 | 21.1 | 23.1 | 25.6 | 28.2 |
| | 8.00 | 15.00 | 925 | 25.7 | 21.1 | 615 | 18.1 | 15.3 | 460 | 14.0 | 12.0 | – | – | 13.0 | 15.0 | 17.1 | 19.1 | 21.7 | 24.2 |
| | 8.50 | 16.00 | – | 27.8 | 23.0 | 613 | 19.6 | 16.8 | 460 | 15.2 | 13.2 | – | – | – | 13.8 | 15.8 | 17.9 | 20.4 | 23.0 |
| **1.90** | 12.50 | 23.60 | 923 | 43.2 | 36.6 | 612 | 31.1 | 27.7 | 458 | 24.3 | 22.0 | – | – | – | – | – | – | – | – |
| **1.91** | 4.90 | 9.250 | 918 | 12.0 | 8.0 | 609 | 8.5 | 5.9 | 455 | 6.6 | 4.7 | 16.7 | 18.8 | 20.3 | 22.3 | 24.3 | 26.3 | 28.8 | 31.3 |
| **1.93** | 5.90 | 11.30 | 906 | 16.6 | 12.4 | 601 | 11.6 | 9.0 | 451 | 9.0 | 7.1 | 14.2 | 16.3 | 17.8 | 19.8 | 21.8 | 23.8 | 26.4 | 28.9 |
| | 9.75 | 18.70 | 908 | 32.9 | 27.7 | 602 | 23.3 | 20.3 | 451 | 18.1 | 16.0 | – | – | – | – | – | – | 17.1 | 19.7 |
| **1.95** | 4.40 | 8.50 | 896 | 9.7 | 5.8 | 594 | 6.9 | 4.3 | 446 | 5.4 | 3.5 | 17.8 | 19.8 | 21.3 | 23.3 | 25.3 | 27.3 | 29.8 | 32.3 |
| | 10.90 | 21.20 | 896 | 37.4 | 31.6 | 594 | 26.7 | 23.5 | 446 | 20.7 | 18.5 | – | – | – | – | – | – | – | – |
| **1.96** | 4.65 | 9.00 | – | 10.9 | 6.9 | 593 | 7.7 | 5.1 | 444 | 6.0 | 4.1 | 17.1 | 19.2 | 20.7 | 22.7 | 24.7 | 26.7 | 29.2 | 31.7 |
| **1.97** | 16.00 | 31.50 | – | – | – | 587 | 40.5 | 36.1 | 442 | 31.9 | 29.1 | – | – | – | – | – | – | – | – |
| **1.98** | 6.70 | 13.20 | 882 | 20.1 | 15.8 | 584 | 14.1 | 11.5 | 439 | 11.0 | 9.0 | 11.9 | 14.0 | 15.5 | 17.6 | 19.6 | 21.6 | 24.2 | 26.7 |
| **1.99** | 7.10 | 14.00 | 881 | 21.9 | 17.5 | 584 | 15.4 | 12.7 | 437 | 11.9 | 10.0 | – | 13.0 | 14.5 | 16.6 | 18.6 | 20.6 | 23.2 | 25.7 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **.83** | **.85** | **.86** | **.87** | **.88** | **.89** | **.91** | **.92** |
| **2.00** | 5.20 | 10.30 | 875 | 13.4 | 9.4 | 580 | 9.4 | 6.9 | 435 | 7.3 | 5.5 | 15.6 | 17.6 | 19.2 | 21.2 | 23.2 | 25.2 | 27.7 | 30.2 |
| | 5.50 | 10.90 | 875 | 14.8 | 10.7 | 580 | 10.4 | 7.8 | 435 | 8.1 | 6.2 | 14.9 | 16.9 | 18.4 | 20.4 | 22.5 | 24.5 | 27.0 | 29.5 |
| | 6.30 | 12.50 | 875 | 18.4 | 14.2 | 580 | 12.9 | 10.3 | 435 | 10.0 | 8.1 | 12.9 | 14.9 | 16.4 | 18.5 | 20.5 | 22.5 | 25.1 | 27.6 |
| **2.01** | 4.65 | 9.25 | 870 | 10.9 | 6.9 | 577 | 7.7 | 5.1 | 433 | 6.0 | 4.1 | 16.9 | 18.9 | 20.5 | 22.5 | 24.5 | 26.5 | 29.0 | 31.5 |
| | 4.90 | 9.75 | 870 | 12.0 | 8.1 | 577 | 8.5 | 5.9 | 433 | 6.6 | 4.7 | 16.3 | 18.3 | 19.9 | 21.9 | 23.9 | 25.9 | 28.4 | 30.9 |
| | 7.50 | 15.00 | 869 | 23.6 | 19.1 | 576 | 16.6 | 13.9 | 433 | 12.9 | 10.9 | – | – | 13.3 | 15.4 | 17.4 | 19.5 | 22.0 | 24.5 |
| | 8.00 | 16.00 | 869 | 25.7 | 21.1 | 576 | 18.1 | 15.3 | 433 | 14.1 | 12.1 | – | – | – | 14.1 | 16.2 | 18.2 | 20.8 | 23.3 |
| | 11.80 | 23.60 | 870 | 40.7 | 34.5 | 578 | 29.2 | 25.9 | 433 | 22.8 | 20.5 | – | – | – | – | – | – | – | – |
| | 14.00 | 28.00 | 872 | 48.4 | 40.7 | 578 | 35.2 | 31.4 | 433 | 27.6 | 25.1 | – | – | – | – | – | – | – | – |
| **2.02** | 5.90 | 11.80 | 868 | 16.6 | 12.5 | 575 | 11.6 | 9.0 | 431 | 9.0 | 7.1 | 13.8 | 15.8 | 1.74 | 19.4 | 21.4 | 23.4 | 25.9 | 28.4 |
| **2.03** | 9.25 | 18.70 | 861 | 30.9 | 25.9 | 571 | 21.9 | 18.9 | 429 | 17.0 | 14.9 | – | – | – | – | – | – | 17.4 | 20.0 |
| **2.07** | 4.40 | 9.00 | 846 | 9.7 | 5.8 | 560 | 6.9 | 4.4 | 420 | 5.4 | 3.5 | 17.3 | 19.3 | 20.9 | 22.9 | 24.9 | 26.9 | 29.4 | 31.9 |
| | 5.50 | 11.30 | 844 | 14.8 | 10.7 | 559 | 10.4 | 7.8 | 420 | 8.1 | 6.2 | 14.5 | 16.6 | 18.1 | 20.1 | 22.1 | 24.1 | 26.7 | 29.2 |
| | 10.30 | 21.20 | 846 | 35.1 | 29.6 | 561 | 24.9 | 21.9 | 420 | 19.4 | 17.2 | – | – | – | – | – | – | – | – |
| **2.09** | 9.00 | 18.70 | 837 | 29.9 | 25.0 | 555 | 21.1 | 18.2 | 416 | 16.4 | 14.3 | – | – | – | – | – | – | 17.6 | 20.2 |
| **2.10** | 11.30 | 23.60 | 834 | 38.9 | 32.9 | 553 | 27.8 | 24.6 | 414 | 21.6 | 19.4 | – | – | – | – | – | – | – | – |
| **2.11** | 6.30 | 13.20 | 828 | 18.4 | 14.2 | 549 | 12.9 | 10.3 | 412 | 10.0 | 8.1 | – | 14.3 | 15.8 | 17.9 | 19.9 | 21.9 | 24.4 | 27.0 |
| | 6.70 | 14.00 | 831 | 20.1 | 15.9 | 551 | 14.2 | 11.5 | 412 | 11.0 | 9.0 | – | 13.2 | 14.8 | 16.9 | 18.9 | 20.9 | 23.5 | 26.0 |
| | 15.0 | 31.50 | 830 | – | – | 550 | 37.9 | 33.8 | 412 | 29.7 | 27.1 | – | – | – | – | – | – | – | – |
| **2.12** | 46.50 | 9.75 | 825 | 10.9 | 7.0 | 547 | 7.7 | 5.2 | 410 | 6.0 | 4.1 | – | 18.5 | 20.0 | 22.0 | 24.1 | 26.1 | 28.6 | 31.1 |
| | 5.20 | 10.90 | 826 | 13.4 | 9.4 | 548 | 9.4 | 6.9 | 410 | 7.3 | 5.5 | – | 17.1 | 18.6 | 20.7 | 22.7 | 24.7 | 27.2 | 29.7 |
| **2.13** | 4.40 | 9.25 | 822 | 9.7 | 5.8 | 545 | 6.9 | 4.4 | 408 | 5.4 | 3.5 | – | 19.1 | 20.6 | 22.7 | 24.7 | 26.7 | 29.2 | 31.7 |
| | 4.90 | 10.30 | 824 | 12.0 | 8.1 | 546 | 8.5 | 6.0 | 408 | 6.6 | 4.7 | – | 17.9 | 19.4 | 21.4 | 23.4 | 25.4 | 27.9 | 30.4 |
| | 7.10 | 15.00 | 822 | 21.9 | 17.5 | 545 | 15.4 | 12.7 | 408 | 11.9 | 10.0 | – | – | 13.6 | 15.6 | 17.7 | 19.8 | 22.3 | 24.8 |
| | 13.20 | 28.00 | 822 | 45.7 | 38.6 | 545 | 33.1 | 29.5 | 408 | 25.9 | 23.4 | – | – | – | – | – | – | – | – |
| **2.14** | 5.90 | 12.50 | 819 | 16.6 | 12.5 | 543 | 11.7 | 9.1 | 407 | 9.1 | 7.1 | – | 15.2 | 16.7 | 18.8 | 20.8 | 22.8 | 25.3 | 27.9 |
| **2.15** | 7.50 | 16.00 | 814 | 23.6 | 19.2 | 540 | 16.6 | 13.9 | 405 | 12.9 | 10.9 | – | – | – | 14.4 | 16.5 | 18.6 | 21.1 | 23.7 |
| **2.17** | 5.50 | 11.80 | 808 | 14.8 | 10.7 | 535 | 10.4 | 7.8 | 401 | 8.1 | 6.2 | – | 16.1 | 17.6 | 19.7 | 21.7 | 23.7 | 26.2 | 28.7 |
| **2.18** | 10.90 | 23.60 | 804 | 37.4 | 31.7 | 533 | 26.7 | 23.5 | 399 | 20.7 | 18.6 | – | – | – | – | – | – | – | – |

**NOTE:** * 5VX = Single and Polyband belts to 200” length
5V = Single and Polyband belts over 200” long

** Stock belt size 5VX530 not shown

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Speed Ratio | Belt Number and Approx. Center Distance** | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3000 | 5V 3150 | 5V 3550 |
| **1.80** | 18.5 | 21.1 | 23.6 | 26.7 | 29.7 | 32.6 | 36.3 | 39.8 | 43.8 | 49 | 54 | 59 | 64 | 69 | 74 | 80 | 86 | 92 | 99 | 106 | 114 | – | 132 | 152 |
| **1.81** | 31.1 | 33.6 | 36.1 | 39.1 | 42.1 | 45.1 | 48.6 | 52.1 | 56.1 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 119 | 126 | – | 144 | 164 |
| **1.82** | 21.8 | 24.4 | 26.9 | 29.9 | 33.0 | 36.0 | 39.5 | 43.0 | 47.0 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | 110 | 117 | – | 135 | 155 |
| **1.84** | 35.2 | 37.7 | 40.2 | 43.2 | 46.2 | 49.2 | 52.7 | 56.2 | 60.2 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | 123 | 130 | – | 148 | 168 |
| **1.85** | 34.6 | 37.1 | 39.6 | 42.6 | 45.6 | 28.6 | 52.1 | 55.6 | 59.6 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 115 | 122 | 130 | – | 147 | 167 |
| | 34.0 | 36.5 | 39.0 | 42.0 | 45.0 | 48.0 | 51.5 | 55.0 | 59.0 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 122 | 129 | – | 147 | 167 |
| **1.86** | 31.7 | 34.2 | 36.7 | 39.7 | 42.7 | 45.7 | 49.2 | 52.7 | 56.8 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 119 | 127 | – | 144 | 164 |
| **1.87** | 28.9 | 31.4 | 33.9 | 36.9 | 39.9 | 42.9 | 46.5 | 50.0 | 54.0 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 117 | 124 | – | 142 | 162 |
| | – | – | – | – | – | 24.4 | 28.0 | 31.6 | 35.6 | 41 | 46 | 51 | 56 | 61 | 66 | 72 | 78 | 84 | 91 | 99 | 106 | – | 124 | 144 |
| **1.88** | 29.8 | 32.3 | 34.8 | 37.8 | 40.8 | 43.8 | 47.3 | 50.8 | 54.9 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 117 | 125 | – | 142 | 162 |
| | 27.9 | 30.4 | 33.0 | 36.0 | 39.0 | 42.0 | 45.5 | 49.0 | 53.0 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 116 | 123 | – | 141 | 161 |
| | 18.8 | 21.4 | 24.0 | 27.0 | 30.1 | 33.1 | 36.6 | 40.2 | 44.2 | 49 | 54 | 59 | 64 | 69 | 74 | 80 | 86 | 92 | 99 | 107 | 114 | – | 132 | 152 |
| **1.89** | 33.2 | 35.7 | 38.2 | 41.2 | 44.2 | 47.2 | 50.7 | 54.2 | 58.2 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 121 | 128 | – | 146 | 166 |
| | 32.5 | 35.0 | 37.5 | 40.5 | 43.5 | 46.5 | 50.0 | 63.5 | 57.5 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 120 | 128 | – | 145 | 165 |
| | 30.7 | 33.2 | 35.7 | 38.7 | 41.7 | 44.7 | 48.2 | 51.7 | 55.7 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 118 | 126 | – | 143 | 163 |
| | 26.7 | 29.2 | 31.7 | 34.8 | 37.8 | 40.8 | 44.3 | 47.8 | 51.8 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | 114 | 122 | – | 139 | 159 |
| | 25.5 | 28.0 | 30.5 | 33.5 | 36.6 | 39.6 | 43.1 | 46.6 | 50.6 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 105 | 113 | 121 | – | 138 | 158 |
| **1.90** | – | – | 20.9 | 24.0 | 27.1 | 30.1 | 33.7 | 37.2 | 41.3 | 46 | 51 | 56 | 61 | 66 | 71 | 77 | 83 | 89 | 97 | 104 | 112 | – | 129 | 149 |
| **1.91** | 33.8 | 36.3 | 38.8 | 41.8 | 44.8 | 47.8 | 51.3 | 54.8 | 58.8 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 121 | 129 | – | 146 | 166 |
| **1.93** | 31.4 | 33.9 | 36.4 | 39.4 | 42.4 | 45.4 | 48.9 | 52.4 | 56.4 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 119 | 126 | – | 144 | 164 |
| | 22.2 | 24.8 | 27.3 | 30.3 | 33.4 | 36.4 | 39.9 | 43.4 | 47.4 | 52 | 57 | 62 | 67 | 73 | 78 | 84 | 90 | 96 | 103 | 110 | 118 | – | 135 | 155 |
| **1.95** | 34.8 | 37.3 | 39.8 | 42.8 | 45.8 | 48.8 | 52.3 | 55.8 | 59.8 | 65 | 70 | 75 | 80 | 85 | 90 | 96 | 102 | 108 | 114 | 122 | 130 | – | 147 | 167 |
| | 19.1 | 21.7 | 24.2 | 27.3 | 30.4 | 33.4 | 36.9 | 40.5 | 44.5 | 50 | 55 | 60 | 65 | 70 | 74 | 81 | 87 | 93 | 100 | 107 | 115 | – | 132 | 152 |
| **1.96** | 34.2 | 36.7 | 39.2 | 42.2 | 45.2 | 48.2 | 51.7 | 55.2 | 59.2 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 122 | 129 | – | 147 | 167 |
| **1.97** | – | – | – | – | – | – | – | 27.6 | 31.7 | 37 | 42 | 47 | 52 | 57 | 62 | 68 | 74 | 80 | 87 | 95 | 102 | – | 120 | 140 |
| **1.96** | 29.2 | 31.7 | 34.2 | 37.2 | 40.2 | 43.2 | 46.8 | 50.3 | 54.3 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 117 | 124 | – | 142 | 162 |
| **1.99** | 28.2 | 30.7 | 33.2 | 36.3 | 39.3 | 42.3 | 45.8 | 49.3 | 53.3 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 116 | 123 | – | 141 | 161 |
| | **.93** | **.94** | **.95** | **.96** | **.97** | **.98** | **.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.09** | **1.10** | **1.11** | **1.12** | **1.13** | – | **1.14** | **1.16** |
| **2.00** | 32.7 | 35.2 | 37.7 | 40.8 | 43.8 | 46.8 | 50.3 | 53.8 | 57.8 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 120 | 128 | – | 145 | 165 |
| | 32.0 | 34.5 | 37.0 | 40.0 | 43.0 | 46.0 | 49.5 | 53.1 | 57.1 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 120 | 127 | – | 147 | 165 |
| | 30.1 | 32.6 | 35.1 | 38.1 | 41.1 | 44.1 | 47.6 | 51.1 | 55.2 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 118 | 125 | – | 143 | 163 |
| **2.01** | 34.0 | 36.5 | 39.0 | 42.0 | 45.0 | 48.0 | 51.5 | 55.0 | 59.0 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 122 | 129 | – | 147 | 167 |
| | 33.4 | 35.9 | 38.4 | 41.4 | 44.4 | 47.4 | 50.9 | 54.4 | 589.4 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 121 | 128 | – | 146 | 166 |
| | 27.1 | 29.6 | 32.1 | 35.1 | 38.1 | 41.2 | 44.7 | 48.2 | 52.2 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | 115 | 122 | – | 140 | 160 |
| | 25.9 | 28.4 | 30.9 | 33.9 | 36.9 | 40.0 | 43.5 | 47.0 | 51.0 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 114 | 121 | – | 139 | 159 |
| | – | – | 21.4 | 24.5 | 27.6 | 30.6 | 34.2 | 37.7 | 41.8 | 47 | 52 | 57 | 62 | 67 | 72 | 78 | 84 | 90 | 97 | 105 | 112 | – | 130 | 150 |
| | – | – | – | – | – | 25.0 | 28.7 | 32.3 | 36.3 | 41 | 47 | 51 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 99 | 107 | – | 124 | 144 |
| **2.02** | 31.0 | 35.5 | 36.0 | 39.0 | 42.0 | 45.0 | 48.5 | 52.0 | 56.0 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 119 | 126 | – | 144 | 164 |
| **2.03** | 22.6 | 25.1 | 27.6 | 30.7 | 33.7 | 36.7 | 40.3 | 43.8 | 47.8 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 96 | 103 | 110 | 118 | – | 135 | 155 |
| **2.07** | 34.4 | 36.9 | 39.4 | 42.4 | 45.4 | 48.4 | 51.9 | 55.4 | 59.4 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 122 | 129 | – | 147 | 167 |
| | 31.7 | 34.2 | 36.7 | 39.7 | 42.7 | 45.7 | 49.2 | 52.7 | 56.7 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 119 | 127 | – | 144 | 164 |
| | 19.5 | 22.1 | 24.7 | 27.7 | 30.8 | 33.8 | 37.4 | 40.9 | 44.9 | 50 | 55 | 60 | 65 | 70 | 75 | 81 | 87 | 93 | 100 | 108 | 115 | – | 133 | 153 |
| **2.09** | 22.7 | 25.3 | 27.8 | 30.9 | 33.9 | 36.9 | 40.5 | 44.0 | 48.0 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 96 | 103 | 111 | 118 | – | 136 | 156 |
| **2.10** | – | – | 21.7 | 24.8 | 27.9 | 31.0 | 34.5 | 38.1 | 42.1 | 47 | 52 | 57 | 62 | 67 | 72 | 78 | 84 | 90 | 97 | 105 | 112 | – | 130 | 150 |
| **2.11** | 29.5 | 32.0 | 34.5 | 37.5 | 40.5 | 43.5 | 47.1 | 50.6 | 54.6 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 117 | 125 | 135 | 142 | 162 |
| | 28.5 | 31.0 | 33.6 | 36.6 | 39.6 | 42.6 | 46.1 | 49.6 | 53.6 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 116 | 124 | – | 141 | 161 |
| | – | – | – | – | – | – | – | 28.3 | 32.4 | 38 | 43 | 48 | 53 | 58 | 63 | 69 | 75 | 81 | 88 | 96 | 103 | – | 121 | 141 |
| **2.12** | 33.6 | 36.1 | 38.6 | 41.6 | 44.6 | 47.6 | 51.1 | 54.6 | 58.6 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 121 | 129 | 137 | 146 | 166 |
| | 32.2 | 34.7 | 37.2 | 40.3 | 43.3 | 46.3 | 49.8 | 53.3 | 57.3 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 120 | 127 | 139 | 145 | 165 |
| **2.13** | 34.2 | 36.7 | 39.2 | 42.2 | 45.2 | 48.2 | 51.7 | 55.2 | 59.2 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 122 | 129 | 139 | 147 | 167 |
| | 33.0 | 35.5 | 38.0 | 41.0 | 44.0 | 47.0 | 50.5 | 54.0 | 58.0 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 121 | 128 | 138 | 146 | 166 |
| | 27.4 | 29.9 | 32.4 | 35.4 | 38.4 | 41.5 | 45.0 | 48.5 | 52.5 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 115 | 123 | 133 | 140 | 160 |
| | – | – | – | – | – | 25.6 | 29.2 | 32.8 | 36.9 | 42 | 47 | 52 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 100 | 107 | 117 | 125 | 145 |
| **2.14** | 30.4 | 32.9 | 35.4 | 38.4 | 41.4 | 44.4 | 47.9 | 51.4 | 55.5 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 98 | 104 | 111 | 118 | 126 | 136 | 143 | 163 |
| **2.15** | 26.2 | 28.7 | 31.3 | 34.3 | 37.3 | 40.3 | 43.8 | 47.4 | 51.4 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 114 | 121 | 131 | 139 | 159 |
| **2.17** | 31.3 | 33.8 | 36.3 | 39.3 | 42.3 | 45.3 | 48.8 | 52.3 | 56.3 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 119 | 126 | 136 | 144 | 164 |
| **2.18** | – | – | 22.0 | 25.1 | 28.2 | 31.3 | 34.8 | 38.4 | 42.4 | 47 | 53 | 58 | 63 | 68 | 73 | 79 | 85 | 91 | 98 | 105 | 113 | 123 | 130 | 150 |

**NOTES:** ** Stock belt size 5V2650 and 5V3350 not shown
Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Stock Sheaves Diameter | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 | 5VX 850 |
| **2.19** | 9.75 | 21.20 | 800 | 32.9 | 27.7 | 531 | 23.3 | 20.4 | 397 | 18.1 | 16.0 | – | – | – | – | – | – | 17.3 |
| **2.20** | 5.20 | 11.30 | 797 | 13.4 | 9.4 | 528 | 9.5 | 6.9 | 395 | 7.4 | 5.5 | 16.8 | 18.3 | 20.3 | 22.3 | 24.4 | 26.9 | 29.4 |
| **2.21** | 8.50 | 18.70 | 790 | 27.8 | 23.1 | 524 | 19.6 | 16.8 | 394 | 15.2 | 13.2 | – | – | – | – | 15.3 | 17.9 | 20.5 |
| **2.24** | 4.40 | 9.75 | 780 | 9.7 | 5.8 | 517 | 6.9 | 4.4 | 388 | 5.4 | 3.5 | 18.7 | 20.2 | 22.2 | 24.2 | 26.3 | 28.8 | 31.3 |
| | 4.65 | 10.30 | 781 | 10.9 | 7.0 | 517 | 7.7 | 5.2 | 388 | 6.0 | 4.1 | 18.0 | 19.6 | 21.6 | 23.6 | 25.6 | 28.1 | 30.6 |
| | 6.30 | 14.00 | 781 | 18.4 | 14.2 | 517 | 12.9 | 10.3 | 388 | 10.0 | 8.1 | 13.5 | 15.1 | 17.1 | 19.2 | 21.2 | 23.8 | 26.3 |
| **2.25** | 4.90 | 10.90 | 778 | 12.1 | 8.1 | 516 | 8.5 | 6.0 | 387 | 6.6 | 4.7 | 17.3 | 18.9 | 20.9 | 22.9 | 24.9 | 27.4 | 29.9 |
| | 12.50 | 28.00 | 778 | 43.3 | 36.6 | 516 | 31.2 | 27.7 | 387 | 24.3 | 22.0 | – | – | – | – | – | – | – |
| **2.26** | 5.90 | 13.20 | 775 | 16.6 | 12.5 | 516 | 11.7 | 9.1 | 385 | 9.1 | 7.2 | 14.5 | 16.1 | 18.1 | 20.2 | 22.2 | 24.7 | 27.3 |
| | 6.70 | 15.00 | 775 | 20.2 | 15.9 | 514 | 14.2 | 11.5 | 385 | 11.0 | 9.1 | 12.3 | 13.8 | 15.9 | 18.0 | 20.0 | 22.6 | 25.1 |
| | 14.00 | 31.50 | 775 | 48.4 | 40.7 | 514 | 35.3 | 31.5 | 385 | 27.6 | 25.1 | – | – | – | – | – | – | – |
| **2.27** | 7.10 | 16.00 | 770 | 21.9 | 17.55 | 511 | 15.4 | 12.7 | 383 | 11.9 | 10.0 | – | – | 14.7 | 16.8 | 18.8 | 21.4 | 23.9 |
| **2.29** | 5.20 | 11.80 | 763 | 13.4 | 9.4 | 506 | 9.5 | 6.9 | 380 | 7.4 | 5.5 | 16.3 | 17.8 | 19.9 | 21.9 | 23.9 | 26.4 | 29.0 |
| **2.30** | 5.50 | 12.50 | 762 | 14.8 | 10.8 | 505 | 10.4 | 7.8 | 378 | 8.1 | 6.2 | 15.5 | 17.0 | 19.0 | 21.1 | 23.1 | 25.6 | 28.1 |
| | 10.30 | 23.60 | 760 | 35.1 | 29.7 | 503 | 25.0 | 21.9 | 378 | 19.4 | 17.2 | – | – | – | – | – | – | – |
| **2.31** | 9.25 | 21.20 | 729 | 30.9 | 25.9 | 503 | 21.9 | 19.0 | 377 | 17.0 | 14.9 | – | – | – | – | – | – | 17.6 |
| **2.33** | 4.90 | 11.30 | 750 | 12.1 | 8.1 | 497 | 8.5 | 6.0 | 373 | 6.6 | 4.8 | 17.0 | 18.5 | 20.5 | 22.5 | 24.6 | 27.1 | 29.6 |
| **2.35** | 8.00 | 18.70 | 713 | 25.8 | 21.2 | 493 | 18.1 | 15.4 | 370 | 14.1 | 12.1 | – | – | – | – | 15.6 | 18.2 | 20.8 |
| | 16.00 | 37.50 | 744 | – | – | 493 | 40.5 | 36.1 | 370 | 31.9 | 29.1 | – | – | – | – | – | – | – |
| **2.37** | 4.40 | 10.30 | 738 | 9.7 | 5.9 | 489 | 6.9 | 4.4 | 367 | 5.4 | 3.5 | 18.2 | 19.7 | 21.8 | 23.8 | 25.8 | 28.3 | 30.8 |
| | 4.65 | 10.90 | 737 | 10.9 | 7.0 | 489 | 7.7 | 5.2 | 367 | 6.0 | 4.1 | 17.5 | 19.0 | 21.1 | 23.1 | 25.1 | 27.6 | 30.1 |
| | 9.00 | 21.20 | 738 | 29.9 | 25.0 | 489 | 21.1 | 18.3 | 367 | 16.4 | 14.4 | – | – | – | – | – | – | 17.7 |
| **2.38** | 11.80 | 28.00 | 734 | 40.8 | 34.6 | 486 | 29.2 | 25.9 | 366 | 22.8 | 20.5 | – | – | – | – | – | – | – |
| **2.40** | 5.90 | 14.00 | 730 | 16.6 | 12.5 | 484 | 11.7 | 9.1 | 363 | 9.1 | 7.2 | 13.8 | 15.3 | 17.4 | 19.4 | 21.5 | 24.0 | 26.6 |
| | 6.30 | 15.00 | 728 | 18.4 | 14.2 | 483 | 12.9 | 10.3 | 363 | 10.0 | 8.1 | 12.5 | 14.1 | 16.2 | 18.3 | 20.3 | 22.9 | 25.4 |
| | 13.20 | 31.50 | 730 | 45.7 | 38.6 | 484 | 33.1 | 29.5 | 363 | 25.9 | 23.5 | – | – | – | – | – | – | – |
| **2.41** | 6.70 | 16.00 | 726 | 20.2 | 15.9 | 482 | 14.2 | 11.5 | 361 | 11.0 | 9.1 | – | 12.8 | 15.0 | 17.0 | 19.1 | 21.7 | 24.2 |
| **2.43** | 5.20 | 12.50 | 720 | 13.5 | 9.5 | 477 | 9.5 | 6.9 | 358 | 7.4 | 5.5 | 15.7 | 172 | 19.3 | 21.3 | 23.3 | 25.8 | 28.4 |
| | 5.50 | 13.20 | 721 | 14.8 | 10.8 | 478 | 10.4 | 7.9 | 358 | 8.1 | 6.2 | 14.8 | 16.4 | 18.4 | 20.5 | 22.5 | 25.0 | 27.6 |
| **2.44** | 4.90 | 11.80 | 718 | 12.1 | 8.1 | 476 | 8.5 | 6.0 | 357 | 6.6 | 4.78 | 16.5 | 18.1 | 20.1 | 22.1 | 24.1 | 26.7 | 29.2 |
| | 9.75 | 23.60 | 719 | 32.9 | 27.7 | 476 | 23.4 | 20.4 | 357 | 18.1 | 16.1 | – | – | – | – | – | – | – |
| **2.48** | 4.65 | 11.30 | 711 | 10.9 | 7.0 | 471 | 7.71 | 5.2 | 351 | 6.0 | 4.2 | 17.2 | 18.7 | 20.7 | 22.7 | 24.7 | 27.3 | 29.8 |
| **2.49** | 11.30 | 28.00 | 703 | 38.9 | 33.0 | 466 | 27.8 | 24.6 | 349 | 21.7 | 19.4 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **.84** | **.84** | **.86** | **.87** | **.88** | **.89** | **.91** |
| **2.51** | 4.40 | 10.90 | 697 | 9.7 | 5.9 | 462 | 6.9 | 4.4 | 347 | 5.4 | 3.5 | 17.7 | 19.2 | 21.2 | 23.3 | 25.3 | 27.8 | 30.3 |
| | 7.50 | 18.70 | 696 | 23.6 | 19.2 | 462 | 16.6 | 13.9 | 347 | 12.9 | 10.9 | – | – | – | – | 15.9 | 18.6 | 21.2 |
| | 8.50 | 21.20 | 697 | 27.9 | 23.1 | 462 | 19.7 | 16.8 | 347 | 15.2 | 13.2 | – | – | – | – | – | – | 18.1 |
| | 15.00 | 37.50 | 697 | – | – | 462 | 37.9 | 33.9 | 347 | 29.8 | 27.1 | – | – | – | – | – | – | – |
| **2.53** | 12.50 | 31.50 | 691 | 43.3 | 36.7 | 458 | 31.2 | 27.7 | 344 | 24.3 | 22.0 | – | – | – | – | – | – | – |
| **2.56** | 6.30 | 16.00 | 682 | 18.4 | 14.2 | 452 | 12.9 | 10.3 | 340 | 10.0 | 8.1 | – | 13.1 | 15.2 | 17.3 | 19.4 | 22.0 | 24.5 |
| **2.57** | 4.65 | 11.80 | 681 | 10.9 | 7.0 | 451 | 7.7 | 5.2 | 339 | 6.0 | 4.2 | 16.7 | 18.2 | 20.3 | 22.3 | 24.3 | 26.8 | 29.4 |
| | 5.20 | 13.20 | 681 | 13.5 | 9.5 | 452 | 9.5 | 6.9 | 339 | 7.4 | 5.5 | 15.0 | 16.6 | 18.6 | 20.7 | 22.7 | 25.2 | 27.8 |
| | 5.50 | 14.00 | 680 | 14.8 | 10.8 | 451 | 10.4 | 7.9 | 339 | 8.1 | 6.2 | 14.0 | 15.6 | 17.7 | 19.7 | 21.8 | 24.3 | 26.8 |
| | 5.90 | 15.00 | 681 | 16.6 | 12.5 | 452 | 11.7 | 9.1 | 339 | 9.1 | 7.2 | 12.8 | 14.4 | 16.5 | 18.5 | 20.6 | 23.1 | 25.7 |
| | 9.25 | 23.60 | 681 | 30.9 | 25.9 | 452 | 21.9 | 19.0 | 339 | 17.0 | 14.9 | – | – | – | – | – | – | – |
| **2.58** | 4.90 | 12.50 | 677 | 12.1 | 8.1 | 449 | 8.5 | 6.0 | 337 | 6.6 | 4.8 | – | 17.4 | 19.5 | 21.5 | 23.5 | 26.1 | 28.6 |
| | 10.90 | 28.00 | 677 | 37.4 | 31.7 | 449 | 26.7 | 23.5 | 337 | 20.8 | 18.6 | – | – | – | – | – | – | – |
| **2.60** | 4.40 | 11.30 | 672 | 9.8 | 5.9 | 445 | 6.9 | 4.4 | 335 | 5.4 | 3.5 | – | 18.9 | 20.9 | 22.9 | 24.9 | 27.9 | 30.0 |
| **2.64** | 9.00 | 23.60 | 663 | 29.9 | 25.0 | 439 | 21.2 | 18.3 | 330 | 16.4 | 14.4 | – | – | – | – | – | – | – |
| **2.66** | 7.10 | 18.70 | 659 | 21.9 | 17.6 | 437 | 15.4 | 12.7 | 327 | 12.0 | 10.0 | – | – | – | – | 16.2 | 15.8 | 26.5 |
| **2.67** | 8.00 | 21.20 | 655 | 25.8 | 21.2 | 434 | 18.2 | 15.4 | 326 | 14.1 | 12.1 | – | – | – | – | – | – | 18.4 |
| **2.68** | 11.80 | 31.50 | 652 | 40.8 | 34.6 | 432 | 29.2 | 25.9 | 325 | 22.8 | 20.5 | – | – | – | – | – | – | – |
| **2.69** | 14.00 | 37.50 | 650 | 48.4 | 40.7 | 431 | 35.3 | 31.5 | 323 | 27.6 | 25.1 | – | – | – | – | – | – | – |
| **2.72** | 4.40 | 11.80 | 643 | 9.8 | 5.9 | 426 | 6.9 | 4.4 | 320 | 5.4 | 3.5 | – | 18.4 | 20.4 | 22.5 | 24.5 | 27.0 | 29.5 |
| **2.73** | 4.65 | 12.50 | 642 | 10.9 | 7.0 | 426 | 7.7 | 5.2 | 319 | 6.0 | 4.2 | – | 17.6 | 19.6 | 21.7 | 23.7 | 26.2 | 28.8 |
| | 4.90 | 13.20 | 641 | 12.1 | 8.1 | 425 | 8.5 | 6.0 | 319 | 6.6 | 4.8 | – | 16.8 | 18.8 | 20.9 | 22.9 | 25.5 | 28.0 |
| | 5.20 | 14.00 | 642 | 13.5 | 9.5 | 426 | 9.5 | 6.9 | 319 | 7.4 | 5.5 | – | 15.8 | 17.9 | 19.9 | 22.0 | 24.5 | 27.1 |

**NOTE:** * 5VX = Single and Polyband belts to 200” length
5V = Single and Polyband belts over 200” long

** Stock belt size 5VX530 not shown

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX 900 | 5VX 950 | 5VX 1000 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3000 | 5V 3150 | 5V 3350 | 5V 3550 |
| **2.19** | 19.9 | 22.5 | 25.0 | 28.1 | 31.2 | 34.2 | 37.8 | 41.3 | 45.3 | 50 | 55 | 60 | 65 | 70 | 75 | 82 | 88 | 94 | 101 | 108 | 116 | 126 | 133 | – | 153 |
| **2.20** | 31.9 | 34.4 | 36.9 | 39.9 | 42.9 | 45.9 | 49.4 | 53.0 | 57.0 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 120 | 127 | 137 | 145 | – | 165 |
| **2.21** | 23.1 | 25.6 | 28.2 | 31.2 | 34.3 | 37.3 | 40.8 | 44.3 | 48.4 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 96 | 103 | 111 | 118 | 129 | 136 | – | 156 |
| **2.24** | 33.8 | 36.3 | 38.8 | 41.8 | 44.8 | 47.8 | 51.3 | 54.8 | 58.8 | 64 | 69 | 74 | 79 | 84 | 89 | 95 | 101 | 107 | 114 | 121 | 129 | 139 | 146 | – | 166 |
| | 33.1 | 35.6 | 38.2 | 41.2 | 44.2 | 47.2 | 50.7 | 54.2 | 58.2 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 121 | 128 | 138 | 146 | – | 166 |
| | 28.8 | 31.3 | 33.8 | 36.9 | 39.9 | 42.9 | 46.4 | 49.9 | 53.9 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 117 | 124 | 134 | 142 | – | 162 |
| **2.25** | 32.5 | 35.0 | 37.5 | 40.5 | 43.5 | 46.5 | 50.0 | 53.5 | 57.5 | 62 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 120 | 128 | 138 | 145 | – | 165 |
| | – | – | – | – | 22.9 | 26.0 | 29.7 | 33.3 | 37.4 | 43 | 48 | 53 | 58 | 63 | 68 | 74 | 80 | 86 | 93 | 100 | 108 | 118 | 125 | – | 145 |
| **2.26** | 29.8 | 32.3 | 34.8 | 37.8 | 40.8 | 43.8 | 47.4 | 50.9 | 54.9 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 117 | 125 | 135 | 142 | – | 162 |
| | 27.7 | 30.2 | 32.7 | 35.7 | 38.7 | 41.8 | 45.3 | 48.8 | 52.8 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 115 | 123 | 133 | 140 | – | 160 |
| | – | – | – | – | – | – | 25.2 | 28.9 | 33.1 | 38 | 43 | 48 | 54 | 59 | 64 | 70 | 76 | 82 | 89 | 96 | 104 | 114 | 121 | – | 141 |
| **2.27** | 26.5 | 29.0 | 31.5 | 34.6 | 37.6 | 40.6 | 44.1 | 47.6 | 51.7 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | 114 | 122 | 132 | 139 | – | 159 |
| **2.29** | 31.5 | 34.0 | 36.5 | 39.5 | 42.5 | 45.5 | 49.0 | 52.6 | 56.6 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 119 | 127 | 137 | 144 | – | 164 |
| **2.30** | 30.7 | 33.2 | 35.7 | 38.7 | 41.7 | 44.7 | 48.2 | 51.7 | 55.8 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 118 | 126 | 136 | 143 | – | 163 |
| | – | 19.8 | 22.4 | 25.5 | 28.6 | 31.7 | 35.2 | 38.8 | 42.9 | 48 | 53 | 58 | 63 | 68 | 73 | 79 | 85 | 91 | 98 | 106 | 113 | 123 | 131 | – | 151 |
| **2.31** | 20.2 | 22.8 | 25.4 | 28.5 | 31.5 | 34.6 | 38.1 | 41.7 | 45.7 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 101 | 108 | 116 | 126 | 133 | – | 153 |
| **2.33** | 32.1 | 34.6 | 37.1 | 40.1 | 43.2 | 46.2 | 49.7 | 53.2 | 57.2 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 120 | 127 | 137 | 145 | – | 165 |
| **2.35** | 23.4 | 26.0 | 28.5 | 31.6 | 34.6 | 37.6 | 41.2 | 44.7 | 48.7 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 111 | 119 | 129 | 136 | – | 156 |
| | – | – | – | – | – | – | – | – | – | 31 | 36 | 42 | 47 | 52 | 57 | 63 | 69 | 75 | 82 | 120 | 97 | 107 | 115 | – | 135 |
| **2.37** | 33.3 | 35.8 | 38.3 | 41.3 | 44.4 | 47.4 | 50.9 | 54.4 | 58.4 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 121 | 128 | 138 | 146 | – | 166 |
| | 32.6 | 35.2 | 37.7 | 41.7 | 43.7 | 46.7 | 502 | 53.7 | 57.7 | 63 | 68 | 3 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 120 | 128 | 138 | 145 | – | 165 |
| | 20.4 | 23.0 | 25.6 | 28.6 | 31.7 | 34.7 | 38.3 | 41.8 | 45.9 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 101 | 109 | 116 | 125 | 134 | – | 154 |
| **2.38** | – | – | – | – | 23.3 | 26.5 | 30.2 | 33.8 | 37.9 | 43 | 48 | 53 | 58 | 63 | 68 | 74 | 80 | 86 | 93 | 101 | 108 | 118 | 126 | – | 146 |
| **2.40** | 29.1 | 31.6 | 34.1 | 37.1 | 40.2 | 43.2 | 46.7 | 50.2 | 54.2 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 117 | 124 | 134 | 142 | – | 162 |
| | 27.9 | 30.5 | 33.0 | 36.0 | 39.0 | 42.1 | 45.6 | 49.1 | 53.1 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 116 | 123 | 133 | 141 | – | 161 |
| | – | – | – | – | – | – | 25.8 | 29.5 | 33.6 | 39 | 44 | 49 | 54 | 59 | 64 | 70 | 76 | 82 | 89 | 97 | 105 | 115 | 122 | – | 142 |
| **241** | 26.8 | 29.3 | 31.8 | 34.9 | 37.9 | 40.9 | 44.4 | 48.0 | 52.0 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | 115 | 122 | 132 | 140 | – | 160 |
| **2.43** | 30.9 | 33.4 | 35.9 | 38.9 | 41.9 | 45.0 | 48.5 | 52.0 | 56.0 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 119 | 126 | 136 | 144 | – | 164 |
| | 30.1 | 32.6 | 35.1 | 38.1 | 41.1 | 44.2 | 47.7 | 51.2 | 55.2 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 118 | 125 | 135 | 143 | – | 163 |
| **2.44** | 31.7 | 34.2 | 36.7 | 39.7 | 42.7 | 45.8 | 49.3 | 52.8 | 56.8 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 119 | 127 | 137 | 144 | – | 164 |
| | – | 20.1 | 22.8 | 25.9 | 29.0 | 32.1 | 35.6 | 39.2 | 43.3 | 48 | 53 | 58 | 76 | 68 | 73 | 80 | 86 | 92 | 99 | 106 | 114 | 125 | 131 | – | 151 |
| **2.46** | 32.3 | 34.8 | 37.3 | 40.3 | 43.3 | 46.4 | 49.9 | 53.4 | 57.4 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 120 | 127 | 137 | 145 | – | 165 |
| **2.49** | – | – | – | – | 23.7 | 26.8 | 30.5 | 34.1 | 38.2 | 43 | 48 | 53 | 59 | 64 | 69 | 75 | 81 | 87 | 94 | 101 | 109 | 119 | 126 | – | 146 |
| | **.92** | **.93** | **.94** | **.95** | **.96** | **.97** | **.98** | **.99** | **1.00** | **1.01** | **1.03** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.08** | **1.09** | **1.10** | **1.10** | **1.12** | **1.13** | **1.14** | **1.15** | **1.16** |
| **2.51** | 32.8 | 35.3 | 37.8 | 40.9 | 43.9 | 46.9 | 50.4 | 53.9 | 57.9 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 120 | 128 | 138 | 145 | – | 165 |
| | 23.8 | 26.3 | 28.9 | 31.9 | 35.0 | 38.0 | 41.5 | 45.1 | 49.1 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 112 | 119 | 129 | 137 | – | 157 |
| | 20.7 | 23.3 | 25.9 | 29.0 | 32.0 | 35.1 | 38.7 | 42.2 | 46.2 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 101 | 109 | 117 | 127 | 134 | – | 154 |
| | – | – | – | – | – | – | – | – | – | 32 | 37 | 42 | 47 | 53 | 58 | 64 | 70 | 76 | 83 | 91 | 98 | 108 | 116 | – | 136 |
| **2.53** | – | – | – | – | – | – | 26.2 | 29.9 | 34.1 | 39 | 44 | 49 | 55 | 60 | 65 | 71 | 77 | 83 | 90 | 97 | 105 | 115 | 123 | – | 143 |
| **2.56** | 27.1 | 29.6 | 32.1 | 35.2 | 38.2 | 41.2 | 44.7 | 48.3 | 52.3 | 57 | 62 | 67 | 72 | 77 | 82 | 88 | 94 | 100 | 107 | 115 | 122 | 132 | 140 | – | 160 |
| **2.57** | 31.9 | 34.4 | 36.9 | 39.9 | 42.9 | 45.9 | 49.5 | 53.0 | 57.0 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 120 | 127 | 137 | 115 | – | 165 |
| | 30.3 | 32.8 | 35.3 | 38.3 | 41.4 | 44.4 | 47.9 | 51.4 | 55.4 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 118 | 125 | 135 | 143 | – | 163 |
| | 29.4 | 31.9 | 34.4 | 37.4 | 40.5 | 43.5 | 47.0 | 50.5 | 54.5 | 59 | 64 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 117 | 125 | 135 | 142 | – | 162 |
| | 28.2 | 30.8 | 33.3 | 36.3 | 39.3 | 42.3 | 45.9 | 49.4 | 5.4 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 116 | 124 | 134 | 141 | – | 161 |
| | – | 20.4 | 23.1 | 26.2 | 29.3 | 32.4 | 36.0 | 39.5 | 43.6 | 49 | 54 | 58 | 64 | 67 | 74 | 80 | 86 | 92 | 99 | 106 | 114 | 124 | 132 | – | 152 |
| **2.58** | 31.1 | 33.6 | 36.1 | 39.2 | 42.2 | 45.2 | 48.7 | 52.2 | 56.2 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 119 | 126 | 136 | 144 | 154 | 164 |
| | – | – | – | – | 23.9 | 27.1 | 30.8 | 34.4 | 38.5 | 44 | 49 | 54 | 57 | 64 | 69 | 75 | 81 | 87 | 94 | 102 | 109 | 119 | 127 | 137 | 147 |
| **2.60** | 32.5 | 35.0 | 37.5 | 40.5 | 43.5 | 46.5 | 50.1 | 53.6 | 57.6 | 63 | 68 | 73 | 78 | 83 | 88 | 94 | 100 | 106 | 113 | 120 | 128 | 138 | 145 | 155 | 165 |
| **2.64** | … | 20.6 | 23.3 | 26.4 | 29.5 | 32.6 | 36.2 | 39.7 | 43.8 | 49 | 54 | 59 | 64 | 69 | 74 | 80 | 86 | 92 | 99 | 107 | 114 | 124 | 132 | 142 | 152 |
| **2.66** | 24.0 | 26.6 | 29.2 | 32.2 | 35.3 | 38.3 | 41.8 | 45.4 | 49.4 | 54 | 59 | 64 | 69 | 74 | 79 | 86 | 92 | 98 | 105 | 112 | 120 | 130 | 137 | 147 | 157 |
| **2.67** | 21.0 | 23.6 | 26.2 | 29.3 | 32.4 | 35.5 | 39.0 | 42.6 | 46.6 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | 109 | 117 | 127 | 134 | 144 | 154 |
| **2.68** | – | – | – | – | – | – | 26.7 | 30.4 | 34.6 | 40 | 45 | 50 | 55 | 60 | 65 | 71 | 77 | 83 | 90 | 98 | 106 | 116 | 123 | 133 | 143 |
| **2.69** | – | – | – | – | – | – | – | – | – | 32 | 38 | 43 | 48 | 53 | 58 | 65 | 71 | 77 | 84 | 91 | 99 | 109 | 116 | 127 | 136 |
| **2.72** | 32.1 | 34.6 | 37.1 | 40.1 | 43.1 | 46.1 | 49.6 | 53.1 | 57.2 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 120 | 127 | 137 | 145 | 155 | 165 |
| **2.73** | 31.3 | 33.8 | 36.3 | 39.3 | 42.4 | 45.4 | 48.9 | 52.4 | 56.4 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 101 | 111 | 119 | 126 | 136 | 144 | 154 | 164 |
| | 30.5 | 33.0 | 35.5 | 38.6 | 41.6 | 44.6 | 48.1 | 51.6 | 55.6 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 118 | 126 | 136 | 143 | 153 | 163 |
| | 29.6 | 32.1 | 34.6 | 37.7 | 40.7 | 43.7 | 47.2 | 50.7 | 54.7 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 117 | 125 | 135 | 142 | 152 | 162 |

**NOTES:** ** Stock belt size 5V2650 and 5V3350 not shown
Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Stock Sheaves Diameter | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 | 5VX 850 |
| 2.74 | 5.90 | 16.00 | 638 | 16.6 | 12.5 | 423 | 11.7 | 9.1 | 318 | 9.1 | 7.2 | – | 13.3 | 15.5 | 17.6 | 19.7 | 22.2 | 24.8 |
| | 10.30 | 28.00 | 640 | 35.1 | 29.7 | 424 | 25.0 | 21.9 | 318 | 19.4 | 17.3 | – | – | – | – | – | – | – |
| 2.76 | 5.50 | 15.00 | 634 | 14.8 | 10.8 | 420 | 10.4 | 7.9 | 315 | 8.1 | 6.2 | – | 14.6 | 16.7 | 18.8 | 20.9 | 23.4 | 26.0 |
| 2.80 | 8.50 | 23.60 | 626 | 27.9 | 23.1 | 415 | 19.7 | 16.8 | 311 | 15.3 | 13.2 | – | – | – | – | – | – | – |
| | 11.30 | 31.50 | 624 | 38.9 | 33.0 | 414 | 27.8 | 24.6 | 311 | 21.7 | 19.4 | – | – | – | – | – | – | – |
| 2.82 | 6.70 | 18.70 | 621 | 20.2 | 15.9 | 412 | 14.2 | 11.5 | 309 | 11.0 | 9.1 | – | – | – | – | 16.5 | 19.1 | 21.7 |
| 2.85 | 7.50 | 21.20 | 614 | 23.7 | 19.2 | 407 | 16.6 | 13.9 | 305 | 12.9 | 10.9 | – | – | – | – | – | 16.0 | 18.7 |
| | 13.20 | 37.50 | 613 | 45.7 | 38.7 | 406 | 33.1 | 29.5 | 305 | 25.9 | 23.5 | – | – | – | – | – | – | – |
| 2.88 | 4.40 | 12.50 | 607 | 9.8 | 5.9 | 402 | 6.9 | 4.4 | 302 | 5.4 | 3.5 | – | 17.8 | 19.8 | 21.9 | 23.9 | 26.4 | 28.9 |
| | 4.65 | 13.20 | 608 | 11.0 | 7.0 | 403 | 7.7 | 5.2 | 302 | 6.0 | 4.2 | – | 16.9 | 19.0 | 21.1 | 23.1 | 25.6 | 28.3 |
| 2.89 | 9.75 | 28.00 | 605 | 33.0 | 27.8 | 401 | 23.4 | 20.4 | 301 | 18.1 | 16.0 | – | – | – | – | – | – | – |
| 2.90 | 4.90 | 14.00 | 604 | 12.1 | 8.2 | 401 | 8.5 | 6.0 | 300 | 6.6 | 4.8 | – | 16.0 | 18.1 | 20.1 | 22.2 | 24.7 | 27.3 |
| 2.91 | 10.90 | 31.50 | 602 | 37.4 | 31.7 | 399 | 26.7 | 23.5 | 299 | 20.7 | 18.6 | – | – | – | – | – | – | – |
| 2.92 | 5.20 | 15.00 | 599 | 13.5 | 9.5 | 397 | 9.5 | 6.9 | 298 | 7.4 | 5.5 | – | 14.8 | 16.9 | 19.0 | 21.1 | 23.6 | 26.2 |
| 2.94 | 5.50 | 16.00 | 594 | 14.8 | 10.8 | 394 | 10.4 | 7.9 | 296 | 8.1 | 6.2 | – | 13.6 | 15.7 | 17.9 | 19.9 | 22.5 | 25.1 |
| 2.97 | 8.00 | 23.60 | 588 | 25.8 | 21.2 | 390 | 18.2 | 15.4 | 293 | 14.1 | 12.1 | – | – | – | – | – | – | – |
| 3.00 | 6.30 | 18.70 | 583 | 18.4 | 14.3 | 387 | 12.9 | 10.3 | 290 | 10.0 | 8.1 | – | – | – | 14.6 | 16.7 | 19.4 | 22.0 |
| 3.01 | 7.10 | 21.20 | 581 | 21.9 | 17.6 | 385 | 15.4 | 12.7 | 289 | 12.0 | 10.0 | – | – | – | – | – | 16.3 | 19.0 |
| 3.02 | 12.50 | 37.50 | 580 | 43.3 | 36.7 | 385 | 31.2 | 27.7 | 288 | 24.3 | 22.0 | – | – | – | – | – | – | – |
| 3.05 | 4.40 | 13.20 | 574 | 9.8 | 5.9 | 381 | 6.9 | 4.4 | 285 | 5.4 | 3.6 | – | 17.1 | 19.2 | 21.2 | 23.3 | 25.8 | 28.3 |
| | 4.65 | 14.00 | 573 | 10.9 | 7.0 | 380 | 7.7 | 5.2 | 285 | 6.0 | 4.2 | – | 16.2 | 18.3 | 20.3 | 22.4 | 24.9 | 27.5 |
| | 9.25 | 28.00 | 574 | 31.0 | 26.0 | 380 | 21.9 | 19.0 | 285 | 17.0 | 14.9 | – | – | – | – | – | – | – |
| 3.08 | 10.30 | 31.50 | 568 | 35.1 | 29.7 | 377 | 25.0 | 21.9 | 282 | 19.4 | 17.3 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | .82 | .84 | .86 | .87 | .88 | .90 |
| 3.10 | 4.90 | 15.00 | 564 | 12.1 | 8.2 | 374 | 8.5 | 6.0 | 281 | 6.6 | 4.8 | – | 15.0 | 17.1 | 19.2 | 21.3 | 23.8 | 26.4 |
| 3.12 | 5.20 | 16.00 | 561 | 13.5 | 9.50 | 372 | 9.5 | 6.9 | 279 | 7.4 | 5.5 | – | 13.8 | 15.9 | 18.1 | 20.1 | 22.7 | 25.3 |
| 3.13 | 9.00 | 28.00 | 558 | 30.0 | 25.0 | 370 | 21.2 | 18.3 | 278 | 16.4 | 14.4 | – | – | – | – | – | – | – |
| 3.14 | 16.00 | 50.00 | 558 | – | – | 370 | 40.5 | 36.2 | 277 | 31.9 | 29.1 | – | – | – | – | – | – | – |
| 3.18 | 7.50 | 23.60 | 551 | 23.7 | 19.2 | 365 | 16.6 | 13.9 | 274 | 12.9 | 10.9 | – | – | – | – | – | – | – |
| 3.20 | 11.80 | 37.50 | 547 | 40.8 | 34.6 | 363 | 29.3 | 25.9 | 272 | 22.8 | 20.5 | – | – | – | – | – | – | – |
| | 6.70 | 21.20 | 547 | 20.2 | 15.9 | 363 | 14.2 | 11.5 | 272 | 11.0 | 9.1 | – | – | – | – | – | 16.5 | 19.2 |
| 3.21 | 5.90 | 18.70 | 546 | 16.6 | 12.6 | 362 | 11.7 | 9.1 | 271 | 9.1 | 7.2 | – | – | – | 14.8 | 17.0 | 19.6 | 22.3 |
| 3.23 | 4.40 | 14.00 | 541 | 9.8 | 5.9 | 359 | 6.9 | 4.4 | 269 | 5.4 | 3.6 | – | 16.4 | 18.4 | 20.5 | 22.5 | 25.1 | 27.6 |
| 3.25 | 9.75 | 31.50 | 538 | 33.0 | 27.8 | 356 | 23.4 | 20.4 | 268 | 18.2 | 16.1 | – | ... | ... | ... | ... | ... | ... |
| 3.27 | 4.65 | 15.00 | 534 | 10.9 | 7.0 | 354 | 7.7 | 5.2 | 266 | 6.0 | 4.2 | – | 15.2 | 17.3 | 19.4 | 21.5 | 24.0 | 26.6 |
| 3.31 | 4.90 | 16.00 | 528 | 12.1 | 8.2 | 350 | 8.5 | 6.0 | 263 | 6.6 | 4.8 | – | 14.0 | 16.1 | 18.2 | 20.3 | 22.9 | 25.5 |
| 3.32 | 8.50 | 28.00 | 527 | 27.9 | 23.2 | 349 | 19.7 | 16.9 | 262 | 15.3 | 13.2 | – | – | – | – | – | – | – |
| 3.34 | 11.30 | 37.50 | 524 | 39.0 | 33.0 | 347 | 27.8 | 24.6 | 260 | 21.7 | 19.5 | – | – | – | – | – | – | – |
| 3.35 | 15.00 | 50.00 | 523 | – | – | 346 | 37.9 | 33.9 | 260 | 29.8 | 27.2 | – | – | – | – | – | – | – |
| 3.36 | 7.10 | 23.60 | 521 | 22.0 | 17.6 | 346 | 15.4 | 12.7 | 259 | 12.0 | 10.0 | – | – | – | – | – | – | – |
| 3.40 | 6.30 | 21.20 | 514 | 18.4 | 14.3 | 341 | 13.0 | 10.3 | 256 | 10.0 | 8.1 | – | – | – | – | – | 16.8 | 19.5 |
| 3.43 | 9.25 | 31.50 | 510 | 31.0 | 26.0 | 338 | 21.9 | 19.0 | 254 | 17.0 | 14.9 | – | – | – | – | – | – | – |
| 3.44 | 5.50 | 18.70 | 508 | 14.8 | 10.8 | 337 | 10.4 | 7.9 | 253 | 8.1 | 6.2 | – | – | – | 15.1 | 17.2 | 19.9 | 22.5 |
| 3.46 | 10.90 | 37.50 | 505 | 37.5 | 31.7 | 335 | 26.7 | 23.5 | 251 | 20.8 | 18.6 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | 0.79 | 0.81 | 0.83 | 0.85 | 0.86 | 0.87 | 0.89 |
| 3.47 | 4.40 | 15.00 | 505 | 9.8 | 5.9 | 335 | 6.9 | 4.4 | 251 | 5.4 | 3.6 | – | – | – | 19.6 | 21.6 | 24.2 | 26.7 |
| 3.49 | 4.65 | 16.00 | 501 | 10.9 | 7.0 | 332 | 7.7 | 5.2 | 249 | 6.0 | 4.2 | – | – | – | 18.4 | 20.5 | 23.1 | 25.7 |
| 3.53 | 8.00 | 28.00 | 496 | 25.8 | 21.2 | 328 | 18.2 | 15.4 | 246 | 14.1 | 12.1 | – | – | – | – | – | – | – |
| | 9.00 | 31.50 | 496 | 30.0 | 25.0 | 329 | 21.2 | 18.2 | 246 | 16.4 | 14.4 | – | – | – | – | – | – | – |
| 3.56 | 6.70 | 23.60 | 491 | 20.2 | 16.0 | 326 | 14.2 | 11.5 | 244 | 11.0 | 9.1 | – | – | – | – | – | – | – |
| 3.59 | 14.00 | 50.00 | 487 | 48.4 | 40.8 | 323 | 35.3 | 31.5 | 242 | 27.6 | 25.1 | – | – | – | – | – | – | – |
| 3.64 | 5.90 | 21.20 | 481 | 16.7 | 12.6 | 319 | 11.7 | 9.1 | 239 | 9.1 | 7.2 | – | – | – | – | – | 17.0 | 19.7 |
| 3.65 | 5.20 | 18.70 | 480 | 13.5 | 9.5 | 318 | 9.5 | 6.9 | 238 | 7.4 | 5.5 | – | – | – | 15.2 | 17.4 | 20.1 | 22.7 |
| 3.67 | 10.30 | 37.50 | 477 | 35.5 | 29.7 | 316 | 25.0 | 21.9 | 237 | 19.4 | 17.3 | – | – | – | – | – | – | – |
| 3.70 | 4.40 | 16.00 | 473 | 9.8 | 5.9 | 314 | 6.93 | 4.4 | 235 | 5.4 | 3.56 | – | – | – | 18.6 | 20.7 | 23.3 | 25.8 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | 0.81 | 0.83 | 0.85 | 0.87 |

**NOTE:** * 5VX = Single and Polyband belts to 200” length
5V = Single and Polyband belts over 200” long

** Stock belt size 5VX530 not shown

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5VX | 5V | 5V | 5V | 5V | 5V | 5V | 5V | 5V | 5V |
| | 900 | 950 | 100 | 1060 | 1120 | 1180 | 1250 | 1320 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2120 | 2240 | 2360 | 2500 | 2650 | 2800 | 3000 | 3150 | 3350 | 3550 |
| 2.74 | 27.3 | 29.9 | 32.4 | 35.4 | 38.5 | 41.5 | 45.0 | 48.5 | 52.6 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 115 | 123 | 133 | 140 | 150 | 160 |
| | – | – | – | – | 24.3 | 27.5 | 31.2 | 34.8 | 38.9 | 44 | 49 | 54 | 59 | 64 | 69 | 75 | 81 | 87 | 95 | 102 | 110 | 120 | 127 | 137 | 147 |
| 2.76 | 28.5 | 31.0 | 33.6 | 36.6 | 39.6 | 42.6 | 46.2 | 49.7 | 53.7 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 116 | 124 | 134 | 141 | 151 | 161 |
| 2.80 | 18.2 | 20.9 | 23.6 | 26.7 | 29.8 | 32.9 | 36.5 | 40.1 | 44.1 | 49 | 54 | 59 | 64 | 69 | 74 | 80 | 86 | 92 | 99 | 107 | 115 | 125 | 132 | 142 | 152 |
| | – | – | – | – | – | – | 27.0 | 30.7 | 34.9 | 40 | 45 | 50 | 55 | 60 | 66 | 72 | 78 | 84 | 91 | 98 | 106 | 116 | 123 | 134 | 144 |
| 2.82 | 24.3 | 26.9 | 29.4 | 32.5 | 35.5 | 38.6 | 42.1 | 45.7 | 49.7 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 98 | 105 | 112 | 120 | 130 | 137 | 147 | 157 |
| 2.85 | 21.4 | 24.0 | 26.6 | 29.7 | 32.7 | 35.8 | 39.4 | 42.9 | 47.0 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | 110 | 117 | 127 | 135 | 145 | 155 |
| | – | – | – | – | – | – | – | – | – | 33 | 38 | 44 | 49 | 54 | 59 | 65 | 71 | 77 | 84 | 92 | 99 | 110 | 117 | 127 | 137 |
| 2.88 | 31.5 | 34.0 | 36.5 | 39.5 | 42.5 | 45.5 | 49.1 | 52.6 | 56.6 | 62 | 67 | 72 | 77 | 82 | 87 | 93 | 99 | 105 | 112 | 119 | 127 | 137 | 144 | 154 | 164 |
| | 30.7 | 33.2 | 35.7 | 38.8 | 41.8 | 44.8 | 48.3 | 51.8 | 55.8 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 118 | 126 | 136 | 143 | 153 | 163 |
| 2.89 | – | – | – | 21.4 | 24.7 | 27.9 | 31.5 | 35.2 | 39.3 | 44 | 50 | 55 | 60 | 65 | 70 | 76 | 82 | 88 | 95 | 102 | 110 | 120 | 128 | 138 | 148 |
| 2.90 | 29.8 | 32.3 | 34.9 | 37.9 | 40.9 | 43.9 | 47.4 | 51.0 | 55.0 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 118 | 125 | 135 | 143 | 153 | 163 |
| 2.91 | – | – | – | – | – | – | 27.3 | 31.0 | 35.2 | 40 | 46 | 51 | 56 | 61 | 66 | 72 | 78 | 84 | 91 | 99 | 106 | 116 | 124 | 134 | 144 |
| 2.92 | 28.7 | 31.3 | 33.8 | 36.8 | 39.8 | 42.9 | 46.4 | 49.9 | 53.9 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 117 | 124 | 134 | 142 | 152 | 162 |
| 2.94 | 27.6 | 30.2 | 32.7 | 35.7 | 38.8 | 41.8 | 45.3 | 48.8 | 52.9 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 116 | 123 | 133 | 141 | 151 | 161 |
| 2.97 | 18.5 | 21.3 | 23.9 | 27.1 | 30.2 | 33.3 | 36.9 | 40.4 | 44.5 | 50 | 55 | 60 | 65 | 70 | 75 | 81 | 87 | 93 | 100 | 107 | 115 | 125 | 132 | 142 | 152 |
| 3.00 | 24.6 | 27.2 | 29.7 | 32.8 | 35.8 | 38.9 | 42.4 | 46.0 | 50.0 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 98 | 105 | 113 | 120 | 130 | 138 | 148 | 158 |
| 3.01 | 21.6 | 24.2 | 26.8 | 29.9 | 33.0 | 36.1 | 39.6 | 43.2 | 47.2 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 90 | 96 | 103 | 110 | 118 | 128 | 135 | 145 | 155 |
| 3.02 | – | – | – | – | – | – | – | – | 27.9 | 33 | 39 | 44 | 49 | 54 | 59 | 66 | 72 | 78 | 85 | 92 | 100 | 110 | 118 | 128 | 138 |
| 3.05 | 30.9 | 33.4 | 35.9 | 38.9 | 41.9 | 45.0 | 48.5 | 52.0 | 56.0 | 61 | 66 | 71 | 76 | 81 | 86 | 92 | 98 | 104 | 111 | 119 | 126 | 136 | 144 | 154 | 164 |
| | 30.0 | 32.5 | 35.0 | 38.1 | 41.1 | 44.1 | 47.6 | 51.1 | 55.2 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 118 | 125 | 135 | 143 | 143 | 163 |
| | – | – | – | 21.7 | 25.0 | 28.2 | 31.9 | 35.5 | 39.6 | 45 | 50 | 55 | 60 | 65 | 70 | 76 | 82 | 88 | 95 | 103 | 110 | 120 | 128 | 138 | 148 |
| 3.08 | – | – | – | – | – | 23.8 | 27.6 | 31.4 | 35.6 | 41 | 46 | 51 | 56 | 61 | 66 | 72 | 78 | 85 | 92 | 99 | 107 | 117 | 124 | 134 | 144 |
| | .91 | .92 | .93 | .94 | .95 | .96 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.10 | 1.12 | 1.13 | 1.14 | 1.15 | 1.16 |
| 3.10 | 28.9 | 31.5 | 34.0 | 37.0 | 40.1 | 43.1 | 46.6 | 50.1 | 54.1 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 117 | 124 | 134 | 142 | 152 | 162 |
| 3.12 | 27.8 | 30.4 | 32.9 | 36.0 | 39.0 | 42.0 | 45.5 | 49.1 | 53.1 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 116 | 123 | 133 | 141 | 151 | 161 |
| 3.13 | – | – | – | 21.9 | 25.2 | 28.4 | 32.0 | 35.7 | 39.8 | 45 | 50 | 55 | 60 | 65 | 70 | 76 | 82 | 88 | 95 | 103 | 110 | 121 | 128 | 138 | 148 |
| 3.14 | – | – | – | – | – | – | – | – | – | – | – | – | – | 40 | 45 | 51 | 58 | 64 | 71 | 79 | 87 | 97 | 104 | 114 | 125 |
| 3.18 | 18.9 | 21.6 | 24.3 | 27.4 | 30.5 | 33.6 | 37.2 | 40.8 | 44.9 | 50 | 55 | 60 | 65 | 70 | 75 | 81 | 87 | 93 | 100 | 108 | 115 | 125 | 133 | 143 | 153 |
| 3.20 | 21.9 | 24.5 | 27.1 | 30.2 | 33.3 | 36.4 | – | – | 28.4 | 34 | 39 | 44 | 50 | 55 | 60 | 66 | 72 | 78 | 85 | 110 | 100 | 128 | 118 | 128 | 138 |
| | – | – | – | – | – | – | 39.9 | 43.5 | 47.5 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 96 | 103 | 93 | 118 | 111 | 135 | 145 | 155 |
| 3.21 | 24.9 | 27.4 | 30.0 | 33.1 | 36.1 | 39.2 | 42.7 | 46.2 | 50.3 | 55 | 60 | 65 | 70 | 75 | 80 | 86 | 92 | 98 | 105 | 113 | 121 | 131 | 138 | 148 | 158 |
| 3.23 | 30.2 | 32.7 | 35.2 | 38.3 | 41.6 | 44.3 | 47.8 | 51.3 | 55.3 | 60 | 65 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | 118 | 125 | 135 | 143 | 153 | 163 |
| 3.25 | – | – | – | – | – | 24.2 | 28.0 | 31.7 | 36.0 | 41 | 46 | 51 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 100 | 107 | 117 | 125 | 135 | 145 |
| 3.27 | 29.1 | 31.7 | 34.2 | 37.2 | 41.2 | 43.3 | 46.8 | 50.3 | 54.3 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | 117 | 124 | 134 | 142 | 152 | 162 |
| 3.31 | 28.0 | 30.6 | 33.1 | 36.2 | 39.2 | 42.2 | 45.7 | 49.3 | 53.3 | 58 | 63 | 68 | 73 | 78 | 83 | 89 | 95 | 101 | 108 | 116 | 123 | 133 | 141 | 151 | 161 |
| 3.32 | – | – | – | 22.2 | 25.5 | 28.7 | 32.4 | 36.0 | 40.1 | 45 | 50 | 55 | 60 | 66 | 71 | 77 | 83 | 89 | 96 | 103 | 111 | 121 | 128 | 139 | 148 |
| 3.34 | – | – | – | – | – | – | – | – | 28.7 | 34 | 40 | 45 | 50 | 55 | 60 | 66 | 73 | 79 | 86 | 93 | 101 | 111 | 118 | 129 | 139 |
| 3.35 | – | – | – | – | – | – | – | – | – | – | – | – | – | 40 | 46 | 52 | 58 | 65 | 72 | 80 | 87 | 97 | 105 | 115 | 125 |
| 3.36 | 19.1 | 21.8 | 24.5 | 27.7 | 30.8 | 33.9 | 37.5 | 41.1 | 45.1 | 50 | 55 | 60 | 65 | 70 | 75 | 81 | 88 | 94 | 101 | 108 | 116 | 126 | 133 | 143 | 153 |
| 3.40 | 22.2 | 24.8 | 27.4 | 30.5 | 33.6 | 36.7 | 40.2 | 43.8 | 47.8 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 96 | 103 | 11 | 118 | 128 | 136 | 146 | 156 |
| 3.43 | – | – | – | – | – | 24.5 | 28.3 | 32.1 | 36.3 | 41 | 47 | 52 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | 100 | 107 | 117 | 125 | 135 | 145 |
| 3.44 | 25.1 | 27.7 | 30.3 | 33.3 | 36.4 | 39.5 | 43.0 | 46.5 | 50.6 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 113 | 121 | 131 | 138 | 148 | 158 |
| 3.46 | – | – | – | – | – | – | – | – | 28.9 | 34 | 40 | 45 | 50 | 55 | 61 | 67 | 73 | 79 | 86 | 94 | 101 | 111 | 119 | 129 | 139 |
| | .91 | .92 | .93 | .94 | .95 | .96 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.10 | 1.12 | 1.13 | 1.14 | 1.15 | 1.16 |
| 3.47 | 29.3 | 31.8 | 34.4 | 37.4 | 40.4 | 43.4 | 47 | 50 | 54 | 59 | 64 | 70 | 75 | 80 | 85 | 91 | 97 | 103 | 110 | – | 125 | – | 142 | – | 162 |
| 3.49 | 28.2 | 30.8 | 33.3 | 36.3 | 39.4 | 42.4 | 46 | 49 | 53 | 58 | 63 | 68 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | – | 124 | – | 141 | – | 161 |
| 3.53 | – | – | 333 | 22.5 | 25.8 | 29.0 | 33 | 36 | 40 | 46 | 51 | 56 | 61 | 66 | 71 | 77 | 83 | 89 | 96 | – | 111 | – | 129 | – | 149 |
| | – | – | 333 | – | – | 24.6 | 28 | 32 | 36 | 42 | 47 | 52 | 57 | 62 | 67 | 73 | 79 | 85 | 92 | – | 108 | – | 125 | – | 145 |
| 3.56 | 19.4 | 22.1 | 24.8 | 27.9 | 31.1 | 34.2 | 38 | 41 | 45 | 50 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 110 | – | 116 | – | 133 | – | 153 |
| 3.59 | – | – | – | – | – | – | – | – | – | – | – | – | 35 | 41 | 46 | 53 | 59 | 65 | 72 | – | 88 | – | 106 | – | 126 |
| 3.64 | 22.4 | 25.1 | 27.7 | 30.8 | 33.9 | 36.9 | 40 | 44 | 48 | 53 | 58 | 63 | 68 | 73 | 78 | 84 | 90 | 96 | 103 | – | 118 | – | 136 | – | 156 |
| 3.65 | 25.3 | 27.9 | 30.5 | 33.6 | 36.6 | 39.7 | 43 | 47 | 51 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | – | 121 | – | 139 | – | 159 |
| 3.67 | – | – | – | – | – | – | – | – | 29 | 35 | 40 | 45 | 51 | 56 | 61 | 67 | 73 | 79 | 86 | – | 101 | – | 119 | – | 139 |
| 3.70 | 28.4 | 30.9 | 33.5 | 36.5 | 39.6 | 42.6 | 46 | 50 | 54 | 59 | 64 | 69 | 74 | 79 | 84 | 90 | 96 | 102 | 109 | – | 124 | – | 141 | – | 161 |
| | .91 | .92 | .93 | .94 | .95 | .96 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.10 | 1.12 | 1.13 | 1.14 | 1.15 | 1.16 |

**NOTES:** ** Stock belt size 5V2650 and 5V3350 not shown
Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Stock Sheaves Diameter | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 | 5VX 850 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | **0.81** | **0.83** | **0.85** | **0.87** |
| **3.74** | 8.50 | 31.50 | 468 | 27.9 | 23.2 | 310 | 19.7 | 16.9 | 233 | 15.3 | 13.2 | – | – | – | – | – | – | – |
| **3.77** | 7.50 | 28.00 | 464 | 23.7 | 19.2 | 308 | 16.7 | 13.9 | 231 | 12.9 | 11.0 | – | – | – | – | – | – | – |
| **3.79** | 6.30 | 23.60 | 462 | 18.4 | 14.3 | 306 | 13.0 | 10.3 | 230 | 10.1 | 8.1 | – | – | – | – | – | – | 16.8 |
| **3.81** | 13.20 | 50.00 | 459 | 45.8 | 38.7 | 305 | 33.1 | 29.5 | 228 | 25.9 | 23.5 | – | – | – | – | – | – | – |
| **3.87** | 4.90 | 18.70 | 452 | 12.1 | 8.2 | 299 | 8.5 | 6.0 | 225 | 6.6 | 4.8 | – | – | – | 15.4 | 1.76 | 20.3 | 22.9 |
| **3.88** | 9.75 | 37.50 | 452 | 33.0 | 27.8 | 299 | 23.4 | 20.4 | 224 | 18.2 | 16.1 | – | – | – | – | – | – | – |
| **3.91** | 5.50 | 21.20 | 448 | 14.9 | 10.8 | 297 | 10.4 | 7.9 | 223 | 8.1 | 6.2 | – | – | – | – | – | 1.73 | 20.0 |
| **3.97** | 8.00 | 31.50 | 440 | 25.8 | 21.2 | 292 | 18.2 | 15.4 | 219 | 14.1 | 12.1 | – | – | – | – | – | – | – |
| **3.99** | 7.10 | 28.00 | 439 | 22.0 | 17.6 | 291 | 15.4 | 12.8 | 218 | 12.0 | 10.0 | – | – | – | – | – | – | – |
| **4.02** | 12.50 | 50.00 | 435 | 43.3 | 36.7 | 288 | 31.2 | 27.8 | 216 | 24.4 | 22.0 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | **0.77** | **0.79** | **0.81** | **0.83** |
| **4.05** | 5.90 | 23.60 | 432 | 16.7 | 12.6 | 286 | 11.7 | 9.1 | 215 | 9.1 | 7.2 | – | – | – | – | – | – | 17.0 |
| **4.09** | 4.65 | 18.70 | 428 | 10.9 | 7.1 | 284 | 7.7 | 5.2 | 213 | 6.0 | 4.2 | – | – | – | 15.6 | 17.8 | 20.5 | 23.1 |
| | 9.25 | 37.50 | 428 | 31.0 | 26.0 | 284 | 21.9 | 19.0 | 213 | 17.0 | 14.9 | – | – | – | – | – | – | – |
| **4.14** | 5.20 | 21.20 | 423 | 13.5 | 9.5 | 280 | 9.5 | 7.0 | 210 | 7.4 | 5.5 | – | – | – | – | – | 17.4 | 20.2 |
| **4.20** | 9.00 | 37.50 | 416 | 30.0 | 25.1 | 276 | 21.2 | 18.3 | 207 | 16.4 | 14.4 | – | – | – | – | – | – | – |
| **4.23** | 6.70 | 28.00 | 414 | 20.2 | 16.0 | 274 | 14.2 | 11.6 | 206 | 11.0 | 9.1 | – | – | – | – | – | – | – |
| **4.24** | 7.50 | 31.50 | 412 | 23.7 | 19.2 | 273 | 16.7 | 13.9 | 205 | 12.9 | 11.0 | – | – | – | – | – | – | – |
| **4.26** | 11.80 | 50.00 | 410 | 40.8 | 34.6 | 272 | 29.3 | 26.0 | 204 | 22.8 | 20.5 | – | – | – | – | – | – | – |
| **4.33** | 4.40 | 18.70 | 405 | 9.8 | 5.9 | 201 | 6.9 | 4.4 | 201 | 5.4 | 3.6 | – | – | – | 15.7 | 17.9 | 20.6 | 23.3 |
| **4.35** | 5.50 | 23.60 | 402 | 14.9 | 10.8 | 267 | 10.4 | 7.9 | 200 | 8.1 | 6.2 | – | – | – | – | – | – | 17.3 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | **0.76** | **0.78** | **0.80** | **0.83** |
| **4.40** | 4.90 | 21.20 | 398 | 12.1 | 8.2 | 264 | 8.5 | 6.0 | 198 | 6.6 | 4.8 | – | – | – | – | 14.8 | 17.6 | 20.4 |
| **4.45** | 8.50 | 37.50 | 393 | 27.9 | 23.2 | 261 | 19.7 | 16.9 | 196 | 15.3 | 13.2 | – | – | – | – | – | – | – |
| **4.46** | 11.30 | 50.00 | 393 | 39.0 | 33.1 | 260 | 27.9 | 24.6 | 195 | 21.7 | 19.5 | – | – | – | – | – | – | – |
| **4.49** | 7.10 | 31.50 | 390 | 22.0 | 17.6 | 259 | 15.4 | 12.8 | 194 | 12.0 | 10.0 | – | – | – | – | – | – | – |
| **4.50** | 6.30 | 28.00 | 389 | 18.4 | 14.3 | 258 | 13.0 | 10.3 | 193 | 10.1 | 8.1 | – | – | – | – | – | – | – |
| **4.61** | 5.20 | 23.60 | 380 | 13.5 | 9.5 | 252 | 9.6 | 7.0 | 189 | 7.4 | 5.5 | – | – | – | – | – | – | 17.5 |
| **4.62** | 10.90 | 50.00 | 379 | 37.5 | 31.8 | 251 | 26.7 | 23.6 | 188 | 20.8 | 18.6 | – | – | – | – | – | – | – |
| **4.64** | 4.65 | 21.20 | 377 | 11.0 | 7.1 | 250 | 7.7 | 5.2 | 188 | 6.0 | 4.2 | – | – | – | – | 14.9 | 17.8 | 20.5 |
| **4.73** | 8.00 | 37.50 | 370 | 25.8 | 21.2 | 245 | 18.2 | 15.4 | 184 | 14.1 | 12.1 | – | – | – | – | – | – | – |
| **4.76** | 6.70 | 31.50 | 368 | 20.2 | 16.0 | 244 | 14.2 | 11.6 | 183 | 11.0 | 9.1 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | **0.73** | **0.76** | **0.78** | **0.80** |
| **4.81** | 5.90 | 28.0 | 364 | 16.7 | 12.6 | 241 | 11.7 | 9.1 | 181 | 9.1 | 7.2 | – | – | – | – | – | – | – |
| **4.89** | 10.30 | 50.0 | 358 | 35.2 | 29.7 | 237 | 25.0 | 21.9 | 178 | 19.4 | 17.3 | – | – | – | – | – | – | – |
| **4.90** | 4.90 | 23.60 | 357 | 12.1 | 8.2 | 237 | 8.5 | 6.0 | 178 | 6.7 | 4.8 | – | – | – | – | – | – | 1.77 |
| **4.91** | 4.40 | 21.20 | 357 | 9.8 | 5.9 | 236 | 6.9 | 4.4 | 177 | 5.4 | 3.6 | – | – | – | – | 15.1 | 17.9 | 20.7 |
| **5.05** | 7.50 | 37.50 | 346 | 23.7 | 19.2 | 230 | 16.7 | 13.9 | 172 | 12.9 | 11.0 | – | – | – | – | – | – | – |
| **5.06** | 6.30 | 31.50 | 346 | 18.5 | 14.3 | 229 | 13.0 | 10.3 | 172 | 10.0 | 8.1 | – | – | – | – | – | – | – |
| **5.16** | 4.65 | 23.6 0 | 339 | 11.0 | 7.1 | 225 | 7.74 | 5.2 | 169 | 6.0 | 4.2 | – | – | – | – | – | – | 17.8 |
| **5.17** | 5.50 | 28.00 | 339 | 14.5 | 10.8 | 225 | 10.4 | 7.9 | 168 | 8.1 | 6.2 | – | – | – | – | – | – | – |
| | 9.75 | 50.00 | 338 | 33.0 | 27.8 | 224 | 23.4 | 20.4 | 168 | 18.2 | 16.1 | – | – | – | – | – | – | – |
| **5.34** | 7.10 | 37.50 | 328 | 22.0 | 17.6 | 217 | 15.4 | 12.8 | 163 | 12.0 | 10.0 | – | – | – | – | – | – | – |
| **5.41** | 5.90 | 31.5 | 323 | 16.7 | 12.5 | 214 | 11.7 | 9.1 | 161 | 9.1 | 7.2 | – | – | – | – | – | – | – |
| **5.45** | 9.25 | 50.00 | 321 | 31.0 | 26.0 | 213 | 21.9 | 19.0 | 160 | 17.0 | 15.0 | – | – | – | – | – | – | – |
| **5.47** | 4.40 | 23.60 | 320 | 9.8 | 5.9 | 212 | 6.9 | 4.4 | 159 | 5.4 | 3.6 | – | – | – | – | – | – | 18.0 |
| | 5.20 | 28.00 | 320 | 13.5 | 9.5 | 212 | 9.5 | 7.0 | 159 | 7.4 | 5.5 | – | – | – | – | – | – | – |
| **5.61** | 9.00 | 50.00 | 312 | 29.8 | 25.1 | 207 | 21.2 | 18.3 | 155 | 16.4 | 14.4 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | **.80** | **.83** | **.85** | **.87** | **.89** | **.93** |

**NOTE:** * 5VX = Single and Polyband belts to 200” length
5V = Single and Polyband belts over 200” long

** Stock belt size 5VX530 not shown

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX 900 | 5VX 950 | 5VX 100 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3000 | 5V 3150 | 5V 3350 | 5V 3550 |
| | .88 | .90 | .92 | .93 | .94 | .95 | .97 | .96 | .99 | 1.00 | 1.01 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.10 | 1.12 | 1.13 | 1.14 | 1.15 | 1.16 |
| 3.74 | – | – | – | – | – | 24.9 | 28.8 | 32.6 | 36.8 | 42 | 47 | 52 | 57 | 63 | 68 | 74 | 80 | 86 | 93 | 100 | 108 | 118 | 126 | 136 | 146 |
| 3.77 | – | – | 19.4 | 22.8 | 26.1 | 29.3 | 33.0 | 36.7 | 40.8 | 46 | 51 | 56 | 61 | 66 | 71 | 77 | 83 | 89 | 97 | 104 | 112 | 122 | 129 | 139 | 149 |
| 3.79 | 19.6 | 22.4 | 25.0 | 28.2 | 31.3 | 34.4 | 38.0 | 41.6 | 45.7 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 91 | 101 | 109 | 116 | 126 | 134 | 144 | 154 |
| 3.81 | – | – | – | – | – | – | – | – | – | – | – | – | 36 | 41 | 47 | 53 | 59 | 66 | 73 | 81 | 88 | 99 | 106 | 116 | 126 |
| 3.87 | 25.5 | 28.1 | 30.7 | 33.8 | 36.8 | 39.9 | 43.4 | 47.0 | 51.0 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 114 | 121 | 131 | 139 | 149 | 159 |
| 3.88 | – | – | – | – | – | – | – | – | 30 | 35 | 40 | 46 | 51 | 56 | 61 | 67 | 74 | 80 | 87 | 94 | 102 | 112 | 120 | 130 | 140 |
| 3.91 | 22.7 | 25.3 | 27.9 | 31.0 | 34.1 | 37.2 | 40.8 | 44.3 | 48.4 | 53 | 58 | 63 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 111 | 119 | 129 | 136 | 146 | 156 |
| 3.97 | – | – | – | – | 21.8 | 25.3 | 29.1 | 32.9 | 37.1 | 42 | 47 | 53 | 58 | 63 | 68 | 74 | 80 | 86 | 93 | 101 | 108 | 118 | 126 | 136 | 146 |
| 3.99 | – | – | 19.7 | 23.1 | 26.4 | 29.6 | 33.3 | 37.0 | 41.1 | 46 | 51 | 56 | 61 | 67 | 72 | 78 | 84 | 90 | 97 | 104 | 112 | 122 | 129 | 150 | 150 |
| 4.02 | – | – | – | – | – | – | – | – | – | – | – | – | 36 | 42 | 47 | 54 | 60 | 66 | 73 | 81 | 89 | 99 | 10 | 117 | 127 |
| | .85 | .87 | .88 | .90 | .92 | .93 | .95 | .96 | .97 | .99 | 1.00 | 1.01 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |
| 4.05 | 19.9 | 22.6 | 25.3 | 28.5 | 31.6 | 34.7 | 38.3 | 41.9 | 46.0 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 88 | 94 | 101 | 109 | 116 | 127 | 134 | 144 | 154 |
| 4.09 | 25.7 | 28.3 | 30.9 | 33.9 | 37.0 | 40.0 | 43.6 | 47.1 | 51.2 | 56 | 61 | 66 | 71 | 76 | 81 | 87 | 93 | 99 | 106 | 114 | 121 | 131 | 139 | 149 | 159 |
| | – | – | – | – | – | – | – | – | 30.0 | 35 | 41 | 46 | 51 | 56 | 62 | 68 | 74 | 80 | 87 | 95 | 102 | 112 | 120 | 130 | 140 |
| 4.14 | 22.9 | 25.5 | 28.1 | 31.3 | 34.3 | 37.4 | 41.0 | 44.6 | 49 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 111 | 119 | 129 | 136 | 147 | 157 |
| 4.20 | – | – | – | – | – | – | – | 25.5 | 30 | 36 | 41 | 46 | 51 | 57 | 62 | 68 | 74 | 80 | 87 | 95 | 102 | 113 | 120 | 130 | 140 |
| 4.23 | – | – | 19.9 | 23.3 | 26.6 | 29.9 | 33.6 | 37.2 | 41 | 46 | 52 | 57 | 62 | 67 | 72 | 78 | 84 | 90 | 97 | 105 | 112 | 122 | 130 | 140 | 150 |
| 4.24 | – | – | – | – | 22.1 | 25.6 | 29.4 | 33.2 | 37 | 43 | 48 | 53 | 58 | 63 | 68 | 74 | 80 | 86 | 94 | 101 | 109 | 119 | 126 | 136 | 146 |
| 4.26 | – | – | – | – | – | – | – | – | – | – | – | – | 36 | 42 | 48 | 54 | 60 | 67 | 74 | 82 | 89 | 100 | 107 | 117 | 127 |
| 4.33 | 25.9 | 28.5 | 31.0 | 34.1 | 37.2 | 40.2 | 43.8 | 47.3 | 51.4 | 56 | 61 | 66 | 72 | 77 | 81 | 88 | 94 | 100 | 107 | 114 | 122 | 132 | 139 | 149 | 159 |
| 4.35 | 20.1 | 22.9 | 25.6 | 28.7 | 31.9 | 35.0 | 38.6 | 42.2 | 46.3 | 51 | 56 | 61 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | 109 | 117 | 127 | 134 | 144 | 154 |
| | 0.87 | 0.89 | 0.91 | 0.92 | 0.93 | 0.94 | .95 | .97 | .98 | .99 | 1.01 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 |
| 4.40 | 23.1 | 25.7 | 28.3 | 31.5 | 34.6 | 37.6 | 41.2 | 44.8 | 48.8 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 112 | 119 | 129 | 137 | 147 | 157 |
| 4.45 | – | – | – | – | – | – | – | 25.8 | 30.4 | 36 | 41 | 47 | 52 | 57 | 62 | 68 | 74 | 81 | 88 | 95 | 103 | 113 | 120 | 131 | 141 |
| 4.46 | – | – | – | – | – | – | – | – | – | – | – | – | 37 | 42 | 48 | 54 | 61 | 67 | 74 | 82 | 90 | 100 | 108 | 118 | 128 |
| 4.49 | – | – | – | – | 22.4 | 25.8 | 29.7 | 33.5 | 37.7 | 43 | 48 | 53 | 58 | 63 | 69 | 75 | 81 | 87 | 94 | 101 | 109 | 119 | 127 | 137 | 147 |
| 4.50 | – | – | 20.2 | 23.6 | 26.9 | 30.1 | 33.8 | 37.5 | 41.7 | 47 | 52 | 57 | 62 | 67 | 72 | 78 | 84 | 90 | 97 | 105 | 113 | 123 | 130 | 140 | 150 |
| 4.61 | 20.3 | 23.1 | 25.7 | 28.9 | 32.1 | 35.2 | 38.8 | 42.4 | 46.5 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | 110 | 117 | 127 | 135 | 145 | 155 |
| 4.62 | – | – | – | – | – | – | – | – | – | – | – | – | 37 | 43 | 48 | 55 | 61 | 67 | 75 | 82 | 90 | 100 | 108 | 118 | 128 |
| 4.64 | 23.2 | 25.9 | 28.5 | 31.6 | 34.7 | 37.8 | 41.4 | 44.9 | 49.0 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 104 | 112 | 119 | 129 | 137 | 147 | 157 |
| 4.73 | – | – | – | – | – | – | – | 26.1 | 30.7 | 36 | 42 | 47 | 52 | 57 | 62 | 69 | 75 | 81 | 88 | 93 | 103 | 113 | 121 | 131 | 141 |
| 4.76 | – | – | – | – | 22.6 | 26.1 | 29.9 | 33.7 | 38.0 | 43 | 48 | 54 | 59 | 64 | 69 | 75 | 81 | 87 | 94 | 102 | 109 | 119 | 127 | 137 | 147 |
| | 0.83 | 0.84 | 0.85 | 0.86 | 0.87 | 0.88 | 0.89 | 0.91 | 0.93 | 0.96 | 0.97 | 0.98 | 1.00 | 1.01 | 1.02 | 1.036 | 10.4 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.12 | 1.13 | 1.14 |
| 4.81 | – | – | 20.4 | 23.8 | 27.1 | 30.4 | 34.1 | 37.8 | 41.9 | 47 | 52 | 57 | 62 | 67 | 73 | 79 | 85 | 91 | 98 | 105 | 113 | 123 | 130 | 140 | 150 |
| 4.89 | – | – | – | – | – | – | – | – | – | – | – | – | 37 | 43 | 49 | 55 | 61 | 68 | 75 | 83 | 90 | 101 | 108 | 119 | 129 |
| 4.90 | 20.5 | 23.2 | 25.9 | 29.1 | 32.3 | 35.4 | 39.0 | 42.6 | 46.7 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | 110 | 117 | 127 | 135 | 145 | 155 |
| 4.91 | 23.4 | 26.0 | 28.7 | 31.8 | 34.9 | 38.0 | 41.6 | 45.1 | 49.2 | 54 | 59 | 64 | 69 | 74 | 79 | 85 | 91 | 97 | 105 | 112 | 120 | 130 | 137 | 147 | 157 |
| 5.05 | – | – | – | – | – | – | – | 26.4 | 31.0 | 37 | 42 | 47 | 52 | 58 | 63 | 69 | 75 | 81 | 88 | 96 | 104 | 114 | 121 | 131 | 141 |
| 5.06 | – | – | – | – | 22.9 | 26.3 | 30.2 | 34.0 | 38.3 | 44 | 49 | 54 | 59 | 64 | 69 | 75 | 81 | 87 | 94 | 102 | 110 | 120 | 127 | 137 | 147 |
| 5.16 | 20.6 | 23.4 | 26.1 | 29.3 | 32.4 | 35.5 | 39.2 | 42.8 | 46.9 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 89 | 95 | 102 | 110 | 117 | 127 | 135 | 145 | 155 |
| 5.17 | – | – | 20.6 | 24.1 | 27.4 | 30.6 | 34.4 | 38.0 | 42.2 | 47 | 52 | 58 | 63 | 68 | 73 | 79 | 85 | 91 | 98 | 106 | 113 | 123 | 134 | 141 | 151 |
| | – | – | – | – | – | – | – | – | – | – | – | – | 38 | 43 | 49 | 55 | 62 | 68 | 75 | 83 | 91 | 101 | 109 | 119 | 129 |
| 5.34 | – | – | – | – | – | – | – | 26.6 | 31.3 | 37 | 42 | 47 | 53 | 58 | 63 | 69 | 75 | 82 | 89 | 96 | 104 | 114 | 121 | 132 | 142 |
| 5.41 | – | – | – | – | 23.1 | 26.6 | 30.5 | 34.2 | 38.5 | 44 | 49 | 54 | 59 | 64 | 69 | 76 | 82 | 88 | 95 | 102 | 110 | 120 | 127 | 138 | 148 |
| 5.45 | – | – | – | – | – | – | – | – | – | – | – | – | 38 | 44 | 49 | 56 | 62 | 68 | 76 | 84 | 91 | 101 | 109 | 119 | 129 |
| 5.47 | 20.8 | 23.6 | 26.3 | 29.5 | 32.6 | 35.7 | 39.3 | 42.9 | 47.0 | 52 | 57 | 62 | 67 | 72 | 77 | 83 | 90 | 96 | 103 | 110 | 118 | 128 | 135 | 145 | 155 |
| | – | – | 20.8 | 24.3 | 27.6 | 30.8 | 34.5 | 38.2 | 42.4 | 48 | 53 | 58 | 63 | 68 | 73 | 79 | 85 | 91 | 98 | 106 | 113 | 123 | 131 | 141 | 151 |
| 5.61 | – | – | – | – | – | – | – | – | – | – | – | 32 | 38 | 44 | 49 | 56 | 62 | 69 | 76 | 84 | 91 | 102 | 109 | 119 | 130 |
| | 0.80 | 0.83 | 0.84 | 0.85 | – | – | .93 | .94 | .96 | .98 | .99 | 1.00 | 1.02 | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.06 | 1.11 | 1.09 | 1.13 | 1.12 | 1.15 |

**NOTES:** ** Stock belt size 5V2650 and 5V3350 not shown
Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

| 5VX | D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200” |
|---|---|

| 5V | D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200” |
|---|---|

| Ratio | Stock Sheaves Diameter | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Number and Approx. Center Distance** | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | Driven RPM | HP/Belt 5VX | HP/Belt 5V | 5VX 600 | 5VX 630 | 5VX 670 | 5VX 710 | 5VX 750 | 5VX 800 | 5VX 850 |
| **5.67** | 6.70 | 37.50 | 309 | 20.2 | 16.0 | 205 | 14.2 | 11.6 | 153 | 11.0 | 9.1 | – | – | – | – | – | – | – |
| **5.81** | 4.90 | 28.00 | 301 | 12.1 | 8.2 | 200 | 8.5 | 6.0 | 150 | 6.7 | 4.8 | – | – | – | – | – | – | – |
| | 5.50 | 31.50 | 301 | 14.9 | 10.8 | 199 | 10.5 | 7.9 | 150 | 8.1 | 6.2 | – | – | – | – | – | – | – |
| **5.94** | 8.50 | 50.00 | 295 | 27.9 | 23.2 | 195 | 19.7 | 16.9 | 146 | 15.3 | 13.3 | – | – | – | – | – | – | – |
| **6.03** | 6.30 | 37.50 | 290 | 18.5 | 14.3 | 192 | 13.0 | 10.3 | 144 | 10.1 | 8.1 | – | – | – | – | – | – | – |
| **6.13** | 4.65 | 28.00 | 285 | 11.0 | 7.1 | 189 | 7.7 | 5.2 | 142 | 6.0 | 4.2 | – | – | – | – | – | – | – |
| **6.16** | 5.20 | 31.50 | 284 | 13.5 | 9.5 | 188 | 9.5 | 7.0 | 141 | 7.4 | 5.5 | – | – | – | – | – | – | – |
| **6.32** | 8.00 | 50.00 | 277 | 25.8 | 21.2 | 184 | 18.2 | 15.4 | 138 | 14.1 | 12.1 | – | – | – | – | – | – | – |
| **6.45** | 5.90 | 37.50 | 271 | 16.7 | 12.6 | 180 | 11.7 | 9.1 | 135 | 9.1 | 7.2 | – | – | – | – | – | – | – |
| **6.49** | 4.40 | 28.00 | 270 | 9.8 | 5.9 | 179 | 6.9 | 4.4 | 134 | 5.4 | 3.6 | – | – | – | – | – | – | – |
| **6.54** | 4.90 | 31.50 | 268 | 12.1 | 8.2 | 177 | 8.5 | 6.0 | 133 | 6.7 | 4.8 | – | – | – | – | – | – | – |
| **6.74** | 7.50 | 50.00 | 260 | 23.7 | 19.3 | 172 | 16.7 | 14.0 | 129 | 12.9 | 11.0 | – | – | – | – | – | – | – |
| **6.90** | 4.65 | 31.50 | 254 | 11.0 | 7.1 | 168 | 7.7 | 5.2 | 126 | 6.0 | 4.2 | – | – | – | – | – | – | – |
| **6.93** | 5.50 | 37.50 | 253 | 14.9 | 10.7 | 167 | 10.5 | 7.9 | 126 | 8.1 | 6.2 | – | – | – | – | – | – | – |
| **7.13** | 7.10 | 50.00 | 245 | 22.0 | 17.6 | 163 | 15.4 | 12.8 | 122 | 12.0 | 10.0 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – |
| **7.30** | 4.40 | 31.50 | 240 | 9.8 | 5.9 | 159 | 6.9 | 4.4 | 119 | 5.4 | 3.6 | – | – | – | – | – | – | – |
| **7.33** | 5.20 | 37.50 | 239 | 13.5 | 9.5 | 158 | 9.5 | 7.0 | 119 | 7.4 | 5.5 | – | – | – | – | – | – | – |
| **7.56** | 6.70 | 50.00 | 231 | 20.2 | 16.0 | 153 | 14.2 | 11.6 | 115 | 11.0 | 9.1 | – | – | – | – | – | – | – |
| **7.79** | 4.90 | 37.50 | 225 | 12.1 | 8.2 | 149 | 8.5 | 6.0 | 112 | 6.7 | 4.8 | – | – | – | – | – | – | – |
| **8.05** | 6.30 | 50.00 | 217 | 18.5 | 14.3 | 144 | 13.0 | 10.4 | 108 | 10.1 | 82.0 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – |
| **8.22** | 4.65 | 37.50 | 213 | 11.0 | 7.1 | 141 | 7.7 | 5.2 | 106 | 6.0 | 4.2 | – | – | – | – | – | – | – |
| **8.60** | 5.90 | 50.00 | 203 | 16.7 | 12.6 | 135 | 11.7 | 9.1 | 101 | 9.1 | 7.2 | – | – | – | – | – | – | – |
| **8.70** | 440 | 37.50 | 201 | 9.8 | 5.9 | 133 | 6.9 | 4.4 | 100 | 5.4 | 3.6 | – | – | – | – | – | – | – |
| **9.24** | 5.50 | 50.00 | 189 | 14.9 | 10.9 | 126 | 10.5 | 7.9 | 94 | 8.1 | 6.2 | – | – | – | – | – | – | – |
| **9.78** | 5.20 | 50.00 | 179 | 13.5 | 9.5 | 119 | 9.5 | 7.0 | 89 | 7.4 | 5.5 | – | – | – | – | – | – | – |
| **10.40** | 4.90 | 50.00 | 168 | 12.1 | 8.2 | 112 | 8.5 | 6.0 | 84 | 6.7 | 4.8 | – | – | – | – | – | – | – |
| **10.97** | 4.65 | 50.00 | 160 | 11.0 | 7.1 | 106 | 7.7 | 5.2 | 79 | 6.0 | 4.2 | – | – | – | – | – | – | – |
| **11.60** | 4.40 | 50.00 | 151 | 9.8 | 5.9 | 100 | 6.9 | 4.4 | 75 | 5.4 | 3.6 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – |

**NOTE:** * 5VX = Single and Polyband belts to 200” length
5V = Single and Polyband belts over 200” long

** Stock belt size 5VX530 not shown

**Selection program available at www.ptwizard.com**

# Selection

## Stock Drive Selection

| | |
|---|---|
| **5VX** | **D-V Wedge<br>Single Belts to 200”<br>POLYBAND to 200”** |
| **5V** | **D-V Wedge<br>Single Belts over 200”<br>POLYBAND over 200”** |

| Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5VX 900 | 5VX 950 | 5VX 100 | 5VX 1060 | 5VX 1120 | 5VX 1180 | 5VX 1250 | 5VX 1320 | 5VX 1400 | 5VX 1500 | 5VX 1600 | 5VX 1700 | 5VX 1800 | 5VX 1900 | 5VX 2000 | 5V 2120 | 5V 2240 | 5V 2360 | 5V 2500 | 5V 2650 | 5V 2800 | 5V 3000 | 5V 3150 | 5V 3350 | 5V 3550 |
| **5.67** | – | – | – | – | – | – | – | 26.9 | 31.5 | 37 | 40 | 48 | 53 | 58 | 63 | 70 | 76 | 82 | 89 | 97 | 104 | 114 | 122 | 132 | 142 |
| **5.81** | – | 18.0 | 21.0 | 24.4 | 27.8 | 31.0 | 34.7 | 38.4 | 42.6 | 48 | 53 | 58 | 63 | 68 | 73 | 79 | 85 | 91 | 98 | 106 | 114 | 124 | 131 | 141 | 151 |
| | – | – | – | – | 23.3 | 26.8 | 30.7 | 34.5 | 38.8 | 44 | 49 | 54 | 60 | 65 | 70 | 76 | 82 | 88 | 95 | 103 | 110 | 120 | 128 | 138 | 148 |
| **5.94** | – | – | – | – | – | – | – | – | – | – | – | 32 | 38 | 44 | 50 | 56 | 63 | 69 | 76 | 84 | 92 | 102 | 110 | 120 | 130 |
| **6.03** | – | – | – | – | – | – | – | 27.1 | 31.8 | 37 | 43 | 48 | 53 | 58 | 64 | 70 | 76 | 82 | 89 | 97 | 104 | 115 | 122 | 132 | 142 |
| **6.13** | – | 18.1 | 21.1 | 24.6 | 27.9 | 31.2 | 34.9 | 38.6 | 42.8 | 48 | 53 | 58 | 63 | 68 | 73 | 79 | 86 | 92 | 99 | 106 | 114 | 124 | 131 | 141 | 151 |
| **6.16** | – | – | – | – | 23.5 | 27.0 | 30.9 | 34.7 | 39.0 | 44 | 49 | 55 | 60 | 65 | 70 | 76 | 82 | 88 | 95 | 103 | 110 | 120 | 128 | 138 | 148 |
| **8.32** | – | – | – | – | – | – | – | – | – | – | – | 33 | 39 | 44 | 50 | 56 | 63 | 69 | 76.6 | 84 | 92 | 102 | 110 | 120 | 130 |
| **6.45** | – | – | – | – | – | – | – | 27.4 | 32.0 | 38 | 43 | 48 | 54 | 59 | 64 | 70 | 76 | 82 | 89 | 97 | 105 | 115 | 122 | 132 | 142 |
| **6.49** | – | 18.3 | 21.3 | 24.7 | 28.1 | 31.3 | 35.1 | 38.8 | 42.9 | 48 | 53 | 58 | 63 | 68 | 74 | 80 | 86 | 92 | 99 | 106 | 114 | 124 | 131 | 142 | 152 |
| **6.54** | – | – | – | 20.0 | 23.7 | 27.2 | 31.1 | 34.9 | 39.2 | 44 | 50 | 55 | 60 | 65 | 70 | 76 | 82 | 88 | 95 | 103 | 111 | 121 | 128 | 138 | 148 |
| **6.74** | – | – | – | – | – | – | – | – | – | – | – | 33 | 39 | 45 | 50 | 57 | 63 | 70 | 77 | 85 | 92 | 103 | 110 | 120 | 131 |
| **6.90** | – | – | – | 20.2 | 23.8 | 27.3 | 31.2 | 35.1 | 39.3 | 45 | 50 | 55 | 60 | 65 | 70 | 76 | 83 | 89 | 96 | 103 | 111 | 121 | 127 | 138 | 149 |
| **6.93** | – | – | – | – | – | – | – | 27.6 | 32.3 | 38 | 43 | 49 | 54 | 59 | 64 | 70 | 71 | 83 | 90 | 97 | 105 | 115 | 123 | 133 | 143 |
| **7.13** | – | – | – | – | – | – | – | – | – | – | – | 33 | 39 | 45 | 51 | 57 | 64 | 70 | 77 | 85 | 93 | 103 | 111 | 121 | 131 |
| | – | **0.75** | **0.77** | **0.81** | **.84** | **0.87** | **0.88** | **0.89** | **0.91** | **0.93** | **0.94** | **0.95** | **0.97** | **0.99** | **1.00** | **4.02** | **1.04** | **1.06** | **10.9** | **1.09** | **1.10** | **1.11** | **1.12** | **1.13** | **1.14** |
| **7.30** | – | – | – | 20.3 | 24.0 | 27.5 | 31.4 | 35.2 | 39.5 | 45 | 50 | 55 | 60 | 65 | 71 | 77 | 83 | 86 | 96 | 103 | 111 | 121 | 129 | 139 | 149 |
| **7.33** | – | – | – | – | – | – | – | 27.8 | 32.4 | 38 | 43 | 49 | 54 | 59 | 64 | 71 | 77 | 83 | 90 | 98 | 105 | 115 | 123 | 133 | 143.1 |
| **7.56** | – | – | – | – | – | – | – | – | – | – | – | 33 | 39 | 45 | 51 | 57 | 64 | 70 | 77 | 85 | 93 | 103 | 111 | 121 | 131.2 |
| **7.79** | – | – | – | – | – | – | 23.6 | 28.0 | 32.6 | 38 | 44 | 49 | 54 | 59 | 65 | 71 | 77 | 83 | 90 | 98 | 105 | 116 | 123 | 133 | 143.3 |
| **8.05** | – | – | – | – | – | – | – | – | – | – | – | 34 | 40 | 45 | 51 | 58 | 64 | 70 | 78 | 86 | 93 | 103 | 111 | 121 | 131 |
| | – | – | – | **0.79** | **0.82** | **0.84** | **0.86** | **0.88** | **0.89** | **0.90** | **0.93** | **0.94** | **0.96** | **0.97** | **0.98** | **1.00** | **1.02** | **1.04** | **10.5** | **10.7** | **10.8** | **1.10** | **1.11** | **1.12** | **1.14** |
| **8.22** | – | – | – | – | – | – | 23.7 | 28.1 | 32.8 | 38 | 44 | 49 | 54 | 60 | 65 | 71 | 77 | 83 | 90 | 98 | 106 | 116 | 123 | 133 | 143 |
| **8.60** | – | – | – | – | – | – | – | – | – | – | – | 34 | 40 | 46 | 51 | 59 | 64 | 71 | 78 | 86 | 94 | 104 | 111 | 122 | 132 |
| **8.70** | – | – | – | – | – | – | 23.9 | 28.3 | 33.0 | 39 | 44 | 49 | 55 | 60 | 65 | 71 | 77 | 83 | 91 | 98 | 106 | 116 | 123 | 134 | 144 |
| **9.24** | – | – | – | – | – | – | – | – | – | – | – | 34 | 40 | 46 | 52 | 58 | 64 | 71 | 78 | 86 | 94 | 104 | 112 | 122 | 132 |
| **9.78** | – | – | – | – | – | – | – | – | – | – | – | 34 | 40 | 46 | 52 | 58 | 64 | 71 | 78 | 86 | 94 | 104 | 112 | 122 | 132 |
| **10.40** | – | – | – | – | – | – | – | – | – | – | – | 35 | 41 | 46 | 52 | 59 | 65 | 71 | 79 | 86 | 91 | 104 | 112 | 122 | 132 |
| **10.97** | – | – | – | – | – | – | – | – | – | – | – | 35 | 41 | 47 | 52 | 59 | 65 | 72 | 79 | 87 | 94 | 105 | 112 | 123 | 133 |
| **11.60** | – | – | – | – | – | – | – | – | – | – | – | 35 | 41 | 47 | 52 | 59 | 65 | 72 | 79 | 87 | 95 | 101 | 112 | 123 | 133 |
| | – | – | – | – | – | – | **0.84** | **0.86** | **0.87** | **0.88** | **0.90** | **0.92** | **0.94** | **0.95** | **0.96** | **0.98** | **1.00** | **1.02** | **1.04** | **1.05** | **1.07** | **1.09** | **1.11** | **1.12** | **1.14** |

Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

**Selection program available at www.ptwizard.com**

# Selection

## Stock Drive Selection

**8V** — D-V Wedge and POLYBAND Belts

| Ratio | Stock Sheaves | | 1750 RPM Driver | | 1160 RPM Driver | | 870 RPM Driver | | Belt Number and Approx. Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Diameter | | Driven RPM | HP Per Belt | Driven RPM | HP Per Belt | Driven RPM | HP Per Belt | 8VX 1000 | 8VX 1060 | 8VX 1120 | 8VX 1180 | 8VX 1250 | 8VX 1320 | 8VX 1400 | 8VX 1500 |
| | Driver | Driven | | 8V | | 8V | | 8V | | | | | | | | |
| 1.00 | 12.5 | 12.5 | 1750 | 50.9 | 1160 | 42.6 | 870 | 35.0 | 30.4 | 33.4 | 36.4 | 39.4 | 42.9 | 46.4 | 50.4 | 55.4 |
| | 13.2 | 13.2 | 1750 | 56.1 | 1160 | 47.3 | 870 | 38.9 | 29.3 | 32.3 | 35.3 | 38.3 | 41.8 | 45.3 | 49.3 | 54.3 |
| | 14.0 | 14.0 | 1750 | 61.7 | 1160 | 52.5 | 870 | 43.2 | 28.0 | 31.0 | 34.0 | 37.0 | 40.5 | 44.0 | 48.0 | 53.0 |
| | 15.0 | 15.0 | – | – | 1160 | 58.8 | 870 | 48.6 | 26.4 | 29.4 | 32.4 | 35.4 | 38.9 | 42.5 | 46.5 | 51.5 |
| | 16.0 | 16.0 | – | – | 1160 | 64.8 | 870 | 53.8 | 24.9 | 27.9 | 30.9 | 33.9 | 37.4 | 40.9 | 44.9 | 49.9 |
| | 17.0 | 17.0 | – | – | 1160 | 70.6 | 870 | 58.9 | 23.3 | 26.3 | 29.3 | 32.3 | 35.8 | 39.3 | 43.3 | 48.3 |
| | 18.0 | 18.0 | – | – | 1160 | 76.1 | 870 | 63.9 | 21.7 | 24.7 | 27.7 | 30.7 | 34.2 | 37.7 | 41.7 | 46.7 |
| | 19.0 | 19.0 | – | – | 1160 | 81.2 | 870 | 68.7 | – | 23.2 | 26.2 | 29.2 | 32.7 | 36.2 | 40.2 | 45.2 |
| | 20.0 | 20.0 | – | – | 1160 | 86.1 | 870 | 73.3 | – | – | 24.6 | 27.6 | 31.1 | 34.6 | 38.6 | 43.6 |
| | 21.2 | 21.2 | – | – | 1160 | 91.5 | 870 | 78.8 | – | – | – | 25.7 | 29.2 | 32.7 | 36.7 | 41.7 |
| | 22.4 | 22.4 | – | – | – | – | 870 | 84.0 | – | – | – | – | 27.3 | 30.8 | 34.8 | 39.8 |
| | 24.8 | 24.8 | – | – | – | – | 870 | 93.8 | – | – | – | – | – | – | 31.0 | 36.0 |
| 1.05 | 19.0 | 20.0 | – | – | 1101 | 82.5 | 826 | 69.6 | – | – | 25.4 | 28.4 | 31.9 | – | 39.4 | 44.4 |
| 1.06 | 12.5 | 13.2 | 1656 | 53.0 | 1098 | 44.1 | 823 | 36.1 | 29.8 | 32.8 | 35.8 | 38.8 | 42.3 | 45.8 | 49.8 | 54.8 |
| | 13.2 | 14.0 | 1649 | 58.4 | 1093 | 48.7 | 820 | 40.0 | 28.6 | 31.6 | 34.6 | 37.6 | 41.1 | 44.6 | 48.6 | 53.6 |
| | 16.0 | 17.0 | – | – | 1091 | 66.3 | 818 | 54.9 | 24.1 | 27.1 | 30.1 | 33.1 | 36.6 | 40.1 | 44.1 | 49.1 |
| | 17.0 | 18.0 | – | – | 1095 | 72.1 | 821 | 60.0 | 22.5 | 25.5 | 28.5 | 31.5 | 35.0 | 38.5 | 42.5 | 47.5 |
| | 18.0 | 19.0 | – | – | 1098 | 77.5 | 824 | 65.0 | – | 23.9 | 27.0 | 30.0 | 33.5 | 37.0 | 41.0 | 46.0 |
| | 20.0 | 21.2 | – | – | 1094 | 87.6 | 820 | 74.5 | – | – | – | 26.7 | 30.2 | 33.7 | 37.7 | 42.7 |
| | 21.2 | 22.4 | – | – | 1097 | 93.0 | 823 | 79.9 | – | – | – | – | 28.3 | 31.8 | 35.8 | 40.8 |
| 1.07 | 14.0 | 15.0 | 1632 | 64.2 | 1082 | 54.2 | 811 | 44.5 | 27.2 | 30.2 | 33.2 | 36.2 | 39.7 | 43.2 | 47.2 | 52.2 |
| | 15.0 | 16.0 | – | – | 1087 | 60.5 | 815 | 49.8 | 25.7 | 28.7 | 31.7 | 34.7 | 38.2 | 41.7 | 45.7 | 50.7 |
| 1.11 | 18.0 | 20.0 | – | – | 1043 | 78.5 | 782 | 65.7 | – | 23.1 | 26.2 | 39.2 | 32.7 | 36.2 | 40.2 | 45.2 |
| | 22.4 | 24.8 | – | – | – | – | 785 | 85.8 | – | – | – | – | – | 28.9 | 32.9 | 37.9 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.86** | **.87** | **.86** | **.89** | **.90** | **.90** | **.91** | **.92** |
| 1.12 | 12.5 | 14.0 | 1560 | 54.8 | 1034 | 45.2 | 775 | 37.0 | 29.2 | 32.2 | 35.2 | 38.2 | 41.7 | 45.2 | 49.2 | 54.2 |
| | 17.0 | 19.0 | – | – | 1037 | 73.2 | 777 | 60.8 | 21.7 | 24.7 | 27.7 | 30.7 | 34.2 | 37.7 | 41.7 | 46.7 |
| | 19.0 | 21.2 | – | – | 1038 | 83.8 | 779 | 70.6 | – | – | 24.4 | 27.4 | 30.9 | 34.4 | 38.4 | 43.4 |
| | 20.0 | 22.4 | – | – | 1035 | 88.7 | 776 | 75.3 | – | – | – | 25.7 | 29.3 | 32.7 | 36.7 | 41.7 |
| 1.13 | 16.0 | 18.0 | – | – | 1030 | 67.5 | 772 | 55.9 | 23.3 | 26.3 | 29.3 | 32.3 | 35.8 | 39.3 | 43.3 | 48.3 |
| 1.14 | 13.2 | 15.0 | 1537 | 60.4 | 1019 | 50.1 | 764 | 41.0 | 27.8 | 30.8 | 33.9 | 36.9 | 40.4 | 43.9 | 47.9 | 52.9 |
| | 14.0 | 16.0 | 1528 | 66.1 | 1013 | 55.4 | 760 | 45.4 | 26.4 | 29.4 | 32.4 | 35.4 | 38.9 | 42.4 | 46.4 | 51.4 |
| | 15.0 | 17.0 | – | – | 1022 | 61.66 | 766 | 50.7 | 24.9 | 27.9 | 30.9 | 33.9 | 37.4 | 40.9 | 44.9 | 49.9 |
| 1.17 | 21.2 | 24.8 | – | – | 990 | 94.83 | 743 | 81.3 | – | – | – | – | – | 29.8 | 33.8 | 38.8 |
| 1.18 | 17.0 | 20.0 | – | – | 984 | 73.98 | 738 | 61.4 | – | 23.9 | 26.9 | 29.9 | 33.4 | 36.9 | 40.9 | 45.9 |
| | 18.0 | 21.2 | – | – | 983 | 79.46 | 737 | 66.4 | – | – | 25.2 | 28.2 | 31.7 | 35.2 | 39.2 | 44.2 |
| | 19.0 | 22.4 | – | – | 982 | 84.65 | 737 | 71.3 | – | – | – | 26.4 | 30.0 | 33.5 | 37.5 | 42.5 |
| 1.19 | 16.0 | 19.0 | – | – | 975 | 68.33 | 731 | 56.4 | 22.5 | 25.5 | 28.5 | 31.5 | 35.0 | 38.5 | 42.5 | 47.5 |
| 1.20 | 12.5 | 15.0 | 1454 | 56.4 | 964 | 46.20 | 723 | 37.7 | 28.4 | 31.4 | 34.4 | 37.4 | 40.9 | 44.4 | 48.4 | 53.4 |
| | 15.0 | 18.0 | – | – | 964 | 62.40 | 723 | 51.3 | 24.0 | 27.1 | 30.1 | 33.1 | 36.6 | 40.1 | 44.1 | 49.1 |
| 1.21 | 24.8 | 30.0 | – | – | – | – | 718 | 96.6 | – | – | – | – | – | – | – | 31.9 |
| 1.22 | 13.2 | 16.0 | 1440 | 61.8 | 954 | 51.09 | 716 | 41.7 | 27.0 | 30.0 | 33.0 | 36.1 | 39.6 | 43.1 | 47.1 | 52.1 |
| | 14.0 | 17.0 | 1438 | 67.4 | 953 | 56.31 | 715 | 46.1 | 25.6 | 28.6 | 31.6 | 34.6 | 38.1 | 41.6 | 45.6 | 50.6 |
| 1.24 | 20.0 | 24.8 | – | – | 934 | 90.14 | 700 | 76.4 | – | – | – | – | 27.2 | 30.7 | 34.7 | 39.7 |
| 1.25 | 16.0 | 20.0 | – | – | 926 | 68.92 | 694 | 56.9 | 21.6 | 24.7 | 27.7 | 30.7 | 34.2 | 37.7 | 41.7 | 46.7 |
| | 17.0 | 21.2 | – | – | 928 | 74.68 | 696 | 62.0 | – | 22.9 | 25.9 | 28.9 | 32.4 | 36.0 | 40.0 | 45.0 |
| | 18.0 | 22.4 | – | – | 930 | 80.16 | 698 | 66.9 | – | – | 24.2 | 27.2 | 30.7 | 34.2 | 38.2 | 43.2 |
| 1.27 | 15.0 | 19.0 | – | – | 913 | 63.04 | 685 | 51.8 | 23.2 | 26.2 | 29.2 | 32.2 | 35.8 | 39.3 | 43.3 | 48.3 |
| 1.28 | 12.5 | 16.0 | 1362 | 57.5 | 903 | 46.92 | 677 | 38.2 | 27.6 | 30.6 | 33.6 | 36.6 | 40.1 | 43.6 | 47.6 | 52.6 |
| 1.29 | 13.2 | 17.0 | 1354 | 62.8 | 898 | 51.68 | 673 | 42.2 | 26.2 | 29.2 | 32.2 | 35.2 | 38.7 | 42.3 | 46.3 | 51.3 |
| | 14.0 | 18.0 | 1357 | 68.3 | 899 | 56.89 | 674 | 46.5 | 24.8 | 27.8 | 30.8 | 33.8 | 37.3 | 40.8 | 44.8 | 49.8 |
| 1.31 | 19.0 | 24.8 | – | – | 887 | 85.80 | 665 | 72.1 | – | – | – | – | 27.9 | 31.5 | 35.5 | 40.5 |
| 1.32 | 17.0 | 22.4 | – | – | 878 | 75.19 | 658 | 62.4 | – | – | 24.9 | 27.9 | 31.5 | 35.0 | 39.0 | 44.0 |
| 1.33 | 16.0 | 21.2 | – | – | 873 | 69.49 | 655 | 57.3 | – | 23.7 | 26.7 | 29.7 | 33.2 | 36.7 | 40.7 | 45.7 |
| 1.34 | 15.0 | 20.0 | – | – | 867 | 63.51 | 650 | 52.1 | 22.4 | 25.4 | 28.4 | 31.4 | 34.9 | 38.4 | 42.5 | 47.5 |
| | 22.4 | 30.0 | – | – | – | – | 648 | 87.6 | – | – | – | – | – | – | – | 33.7 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.84** | **.85** | **.86** | **.87** | **.88** | **.89** | **.90** | **.90** |

Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

**Selection program available at www.ptwizard.com**

# Selection

## Stock Drive Selection

**8V** — D-V Wedge and POLYBAND Belts

| Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8VX 1600 | 8VX 1700 | 8VX 1800 | 8VX 1900 | 8VX 2000 | 8V 2120 | 8V 2240 | 8V 2360 | 8V 2500 | 8V 2650 | 8V 2800 | 8V 3000 | 8V 3150 | 8V 3350 | 8V 3550 | 8V 3750 | 8V 4000 | 8V 4250 | 8V 4500 | 8V 4750 | 8V 5000 | 8V 5600 |
| 1.00 | 60.4 | 65.4 | 70.4 | 75.4 | 80.4 | 86.4 | 92.4 | 98.4 | 105 | 113 | 120 | 130 | 138 | 148 | 158 | 168 | 180 | 193 | 205 | 218 | 230 | 260 |
| | 59.3 | 64.3 | 69.3 | 74.3 | 79.3 | 85.3 | 91.3 | 97.3 | 104 | 112 | 119 | 129 | 137 | 147 | 157 | 167 | 179 | 192 | 204 | 217 | 229 | 259 |
| | 58.0 | 63.0 | 68.0 | 73.0 | 78.0 | 84.0 | 90.0 | 96.0 | 103 | 110 | 118 | 128 | 135 | 145 | 155 | 165 | 178 | 190 | 203 | 215 | 228 | 258 |
| | 56.5 | 61.5 | 66.5 | 71.5 | 76.5 | 82.5 | 88.5 | 94.5 | 101 | 109 | 116 | 126 | 134 | 144 | 154 | 164 | 176 | 189 | 201 | 214 | 226 | 256 |
| | 54.9 | 59.9 | 64.9 | 69.9 | 74.9 | 80.9 | 86.9 | 92.9 | 100 | 107 | 115 | 125 | 132 | 142 | 152 | 162 | 175 | 187 | 200 | 212 | 225 | 255 |
| | 53.3 | 58.3 | 63.3 | 68.3 | 73.3 | 79.3 | 85.3 | 91.3 | 98 | 106 | 113 | 123 | 131 | 141 | 151 | 161 | 173 | 186 | 198 | 211 | 223 | 253 |
| | 51.7 | 56.7 | 61.7 | 66.7 | 71.7 | 77.7 | 83.7 | 89.7 | 97 | 104 | 112 | 122 | 129 | 139 | 149 | 159 | 172 | 184 | 197 | 209 | 222 | 252 |
| | 50.2 | 55.2 | 60.2 | 65.2 | 70.2 | 76.2 | 82.2 | 88.2 | 95 | 103 | 110 | 120 | 127 | 138 | 148 | 158 | 170 | 183 | 195 | 208 | 220 | 250 |
| | 48.6 | 53.6 | 56.6 | 63.6 | 68.6 | 74.6 | 80.6 | 86.6 | 94 | 101 | 109 | 119 | 126 | 136 | 146 | 156 | 169 | 181 | 194 | 206 | 219 | 248 |
| | 46.7 | 51.7 | 56.7 | 61.7 | 66.7 | 72.7 | 78.7 | 84.7 | 92 | 99 | 107 | 117 | 124 | 134 | 144 | 154 | 167 | 179 | 192 | 204 | 217 | 247 |
| | 44.8 | 49.8 | 54.8 | 59.8 | 64.8 | 70.8 | 76.8 | 82.8 | 90 | 97 | 105 | 115 | 122 | 132 | 142 | 152 | 165 | 177 | 190 | 202 | 215 | 245 |
| | 41.0 | 46.0 | 51.0 | 56.0 | 61.0 | 67.0 | 73.0 | 79.0 | 86 | 93 | 101 | 111 | 118 | 128 | 138 | 148 | 161 | 173 | 186 | 198 | 211 | 241 |
| 1.05 | 49.4 | 54.4 | 59.4 | 64.4 | 69.4 | 75.4 | 81.4 | 87.4 | 94 | 102 | 109 | 119 | 127 | 137 | 147 | 1570 | 169 | 182 | 194 | 267 | 219 | 249 |
| 1.06 | 59.8 | 64.8 | 69.8 | 74.8 | 79.8 | 85.8 | 91.8 | 97.8 | 105 | 112 | 120 | 130 | 137 | 147 | 157 | 167 | 180 | 192 | 205 | 217 | 230 | 26 |
| | 58.6 | 63.6 | 68.6 | 73.6 | 78.6 | 84.6 | 90.6 | 96.6 | 104 | 111 | 119 | 129 | 136 | 146 | 156 | 166 | 179 | 191 | 204 | 216 | 229 | 259 |
| | 54.1 | 59.1 | 64.1 | 69.1 | 74.1 | 80.1 | 86.1 | 92.1 | 99 | 107 | 114 | 124 | 132 | 142 | 152 | 162 | 174 | 187 | 199 | 212 | 224 | 254 |
| | 52.5 | 57.5 | 62.5 | 67.5 | 72.5 | 78.5 | 84.5 | 90.5 | 97 | 105 | 112 | 122 | 130 | 140 | 150 | 160 | 172 | 185 | 197 | 210 | 222 | 252 |
| | 51.0 | 56.0 | 61.0 | 66.0 | 71.0 | 77.0 | 83.0 | 89.0 | 96 | 103 | 111 | 121 | 128 | 138 | 148 | 158 | 171 | 183 | 196 | 208 | 221 | 251 |
| | 47.7 | 52.7 | 57.7 | 62.7 | 67.7 | 73.7 | 79.7 | 85.7 | 93 | 100 | 108 | 118 | 125 | 135 | 145 | 155 | 168 | 180 | 193 | 206 | 218 | 248 |
| | 45.8 | 50.8 | 55.8 | 60.8 | 65.8 | 71.8 | 77.8 | 83.8 | 91 | 98 | 106 | 116 | 123 | 133 | 143 | 153 | 166 | 178 | 191 | 203 | 216 | 246 |
| 1.07 | 57.2 | 62.2 | 67.2 | 72.2 | 77.2 | 83.2 | 89.2 | 95.2 | 102 | 110 | 117 | 127 | 134 | 145 | 155 | 165 | 177 | 190 | 202 | 215 | 227 | 257 |
| | 55.2 | 60.7 | 65.7 | 70.7 | 75.7 | 81.7 | 87.7 | 93.7 | 101 | 108 | 116 | 126 | 133 | 143 | 153 | 163 | 176 | 188 | 201 | 213 | 226 | 256 |
| 1.11 | 50.2 | 55.2 | 60.2 | 65.2 | 70.2 | 76.2 | 82.2 | 86.2 | 95 | 103 | 110 | 120 | 128 | 138 | 148 | 158 | 170 | 183 | 195 | 208 | 220 | 250 |
| | 42.9 | 47.9 | 52.9 | 57.9 | 62.9 | 68.9 | 74.9 | 80.9 | 88 | 95 | 103 | 113 | 120 | 130 | 140 | 150 | 163 | 175 | 188 | 200 | 213 | 243 |
| | **.93** | **.94** | **.95** | **.96** | **.97** | **.97** | **.98** | **.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.03** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.09** | **1.09** | **1.10** | **1.12** |
| 1.12 | 59.2 | 64.2 | 69.2 | 74.2 | 79.2 | 85.2 | 91.2 | 97.2 | 104 | 112 | 119 | 129 | 137 | 147 | 157 | 167 | 179 | 192 | 204 | 217 | 229 | 259 |
| | 51.7 | 56.7 | 61.7 | 66.7 | 71.7 | 77.7 | 83.7 | 89.7 | 97 | 104 | 112 | 122 | 129 | 139 | 149 | 159 | 172 | 184 | 197 | 209 | 222 | 252 |
| | 48.4 | 53.4 | 58.4 | 63.4 | 68.4 | 74.4 | 80.4 | 86.4 | 93 | 101 | 108 | 118 | 126 | 136 | 146 | 156 | 168 | 181 | 193 | 206 | 218 | 248 |
| | 46.7 | 51.7 | 56.7 | 61.7 | 66.7 | 72.7 | 78.7 | 84.7 | 92 | 99 | 107 | 117 | 124 | 134 | 144 | 154 | 167 | 179 | 191 | 204 | 217 | 247 |
| 1.13 | 53.3 | 58.3 | 63.3 | 68.3 | 73.3 | 79.3 | 85.3 | 91.3 | 98 | 106 | 113 | 123 | 131 | 141 | 151 | 161 | 173 | 186 | 198 | 211 | 223 | 253 |
| 1.14 | 57.9 | 62.9 | 67.9 | 72.9 | 77.9 | 83.9 | 89.9 | 95.9 | 103 | 110 | 118 | 128 | 135 | 145 | 155 | 165 | 118 | 190 | 203 | 215 | 228 | 258 |
| | 56.4 | 61.4 | 66.4 | 71.4 | 76.4 | 82.4 | 88.4 | 94.4 | 101 | 109 | 116 | 126 | 134 | 144 | 154 | 164 | 17 | 189 | 201 | 214 | 226 | 256 |
| | 54.9 | 59.9 | 64.9 | 69.9 | 74.9 | 80.9 | 86.9 | 92.9 | 100 | 107 | 115 | 125 | 132 | 142 | 152 | 162 | 175 | 187 | 200 | 212 | 225 | 255 |
| 1.17 | 43.8 | 48.8 | 53.8 | 58.8 | 63.8 | 69.8 | 75.9 | 81.9 | 89 | 96 | 104 | 114 | 121 | 131 | 141 | 151 | 164 | 176 | 189 | 201 | 214 | 244 |
| 1.18 | 50.9 | 55.9 | 60.9 | 65.9 | 70.9 | 76.9 | 82.9 | 88.9 | 96 | 103 | 111 | 121 | 128 | 138 | 148 | 158 | 171 | 183 | 196 | 208 | 221 | 251 |
| | 49.2 | 54.2 | 59.2 | 64.2 | 69.2 | 75.2 | 81.2 | 87.2 | 94 | 102 | 109 | 119 | 127 | 137 | 147 | 157 | 169 | 182 | 194 | 207 | 219 | 249 |
| | 47.5 | 52.5 | 57.5 | 62.5 | 67.5 | 73.5 | 79.5 | 85.5 | 92 | 100 | 107 | 117 | 125 | 135 | 145 | 155 | 167 | 180 | 192 | 205 | 217 | 247 |
| 1.19 | 52.5 | 57.5 | 62.5 | 67.5 | 72.5 | 78.5 | 84.5 | 90.5 | 97 | 105 | 112 | 122 | 130 | 140 | 150 | 160 | 172 | 185 | 197 | 210 | 222 | 252 |
| 1.20 | 58.4 | 63.4 | 68.4 | 73.4 | 78.4 | 84.4 | 90.4 | 96.4 | 103 | 111 | 118 | 128 | 136 | 146 | 156 | 166 | 178 | 191 | 203 | 216 | 228 | 258 |
| | 54.1 | 59.1 | 64.1 | 69.1 | 74.1 | 80.1 | 86.1 | 92.1 | 99 | 107 | 114 | 124 | 132 | 142 | 152 | 162 | 174 | 187 | 199 | 212 | 224 | 254 |
| 1.21 | 36.9 | 41.9 | 46.9 | 51.9 | 56.9 | 62.9 | 68.9 | 74.9 | 82 | 89 | 97 | 107 | 114 | 124 | 134 | 144 | 157 | 169 | 182 | 194. | 207 | 237 |
| 1.22 | 57.1 | 62.1 | 67.1 | 72.1 | 77.1 | 83.1 | 89.1 | 95.1 | 102 | 110 | 117 | 127 | 135 | 145 | 155 | 165 | 177 | 190 | 202 | 215 | 227 | 257 |
| | 55.6 | 60.6 | 65.6 | 70.6 | 75.7 | 81.7 | 87.7 | 93.7 | 101 | 108 | 116 | 126 | 133 | 143 | 153 | 163 | 176 | 186 | 201 | 213 | 226 | 256 |
| 1.24 | 44.8 | 49.8 | 54.8 | 59.8 | 64.8 | 70.8 | 76.8 | 82.8 | 90 | 97 | 105 | 115 | 122 | 132 | 142 | 152 | 165 | 177 | 190 | 202 | 215 | 244 |
| 1.25 | 51.7 | 56.7 | 61.7 | 66.7 | 71.7 | 77.7 | 83.7 | 89.7 | 97 | 104 | 112 | 122 | 129 | 139 | 149 | 159 | 172 | 184 | 197 | 209 | 222 | 252 |
| | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 76.0 | 82.0 | 88.0 | 95 | 102 | 110 | 120 | 127 | 137 | 147 | 157 | 170 | 182 | 195 | 207 | 220 | 250 |
| | 48.2 | 53.2 | 58.2 | 63.2 | 68.3 | 74.3 | 80.3 | 86.3 | 93 | 101 | 108 | 118 | 126 | 136 | 146 | 156 | 168 | 181 | 193 | 206 | 218 | 248 |
| 1.27 | 53.3 | 58.3 | 63.3 | 68.3 | 73.3 | 79.3 | 85.3 | 91.3 | 98 | 106 | 113 | 123 | 131 | 141 | 151 | 161 | 173 | 186 | 198 | 212 | 223 | 253 |
| 1.28 | 57.6 | 62.6 | 67.6 | 72.6 | 77.6 | 83.6 | 89.6 | 95.6 | 103 | 110 | 118 | 128 | 135 | 145 | 155 | 165 | 178 | 190 | 203 | 21 | 228 | 258 |
| 1.29 | 56.3 | 61.3 | 66.3 | 71.3 | 76.3 | 82.3 | 88.3 | 94.3 | 101 | 109 | 116 | 126 | 134 | 144 | 154 | 164 | 176 | 189 | 201 | 214 | 226 | 256 |
| | 54.8 | 59.8 | 64.8 | 69.9 | 74.9 | 80.9 | 86.9 | 92.9 | 100 | 107 | 115 | 125 | 132 | 142 | 152 | 162 | 175 | 187 | 200 | 212 | 225 | 255 |
| 1.31 | 45.5 | 50.5 | 55.5 | 60.5 | 65.5 | 71.5 | 77.5 | 83.5 | 91 | 98 | 106 | 116 | 123 | 133 | 143 | 153 | 166 | 178 | 191 | 203 | 216 | 245 |
| 1.32 | 49.0 | 54.0 | 59.0 | 64.0 | 69.0 | 75.0 | 81.0 | 87.0 | 94 | 101 | 109 | 119 | 126 | 135 | 146 | 156 | 169 | 182 | 194 | 207 | 219 | 249 |
| 1.33 | 50.7 | 55.7 | 60.7 | 65.7 | 70.8 | 76.8 | 82.8 | 88.8 | 96 | 103 | 111 | 121 | 128 | 138 | 148 | 158 | 171 | 183 | 196 | 208 | 221 | 251 |
| 1.34 | 52.5 | 57.5 | 62.5 | 67.5 | 72.5 | 78.5 | 84.5 | 90.5 | 97 | 105 | 112 | 122 | 130 | 140 | 150 | 160 | 172 | 185 | 197 | 210 | 222 | 252 |
| | 38.7 | 43.7 | 48.7 | 53.7 | 58.7 | 64.8 | 70.8 | 76.8 | 84 | 91 | 99 | 109 | 116 | 126 | 136 | 146 | 159 | 171 | 184 | 196 | 209 | 239 |
| | **.92** | **.93** | **.94** | **.95** | **.96** | **.97** | **.98** | **.98** | **.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.04** | **1.05** | **1.06** | **1.06** | **1.07** | **1.08** | **1.09** | **1.10** | **1.11** |

**Selection program available at www.ptwizard.com**

# Selection

## Stock Drive Selection

**8V** — D-V Wedge and POLYBAND Belts

| Ratio | Stock Sheaves | | 1750 RPM Driver | | 1160 RPM Driver | | 870 RPM Driver | | Belt Number and Approx. Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Outside Diameter | | Driven RPM | HP Per Belt | Driven RPM | HP Per Belt | Driven RPM | HP Per Belt | 8VX 1000 | 8VX 1060 | 8VX 1120 | 8VX 1180 | 8VX 1250 | 8VX 1320 | 8VX 1400 | 8VX 1500 |
| | Driver | Driven | | 8V | | 8V | | 8V | | | | | | | | |
| **1.36** | 14.0 | 19.0 | 1285 | 69.0 | 851 | 57.3 | 639 | 46.9 | 24.0 | 27.0 | 30.0 | 33.0 | 36.5 | 40.0 | 44.0 | 49.0 |
| **1.37** | 12.5 | 17.0 | 1281 | 58.3 | 849 | 47.5 | 637 | 38.7 | 26.7 | 29.8 | 32.8 | 35.8 | 39.3 | 42.8 | 46.8 | 51.8 |
| | 13.2 | 18.0 | 1278 | 63.5 | 847 | 52.2 | 635 | 42.5 | 25.4 | 28.4 | 31.4 | 34.4 | 37.9 | 41.4 | 45.4 | 50.5 |
| **1.38** | 18.0 | 24.8 | – | – | 839 | 81.0 | 630 | 67.6 | – | – | – | 25.2 | 28.7 | 32.2 | 36.2 | 41.2 |
| **1.41** | 16.0 | 22.4 | – | – | 826 | 69.9 | 619 | 57.6 | – | – | 25.7 | 28.7 | 32.2 | 35.7 | 39.7 | 44.7 |
| **1.42** | 15.0 | 21.2 | – | – | 818 | 63.9 | 613 | 52.4 | – | 24.4 | 27.4 | 30.4 | 33.9 | 37.5 | 41.5 | 46.5 |
| | 21.2 | 30.0 | – | – | 817 | 96.7 | 613 | 82.7 | – | – | – | – | – | – | 29.5 | 34.5 |
| **1.43** | 14.0 | 20.0 | 1220 | 69.5 | 808 | 57.7 | 606 | 47.1 | 23.1 | 26.1 | 29.2 | 32.2 | 35.7 | 39.2 | 43.2 | 48.2 |
| | 24.8 | 35.5 | – | – | – | – | 606 | 97.6 | – | – | – | – | – | – | – | – |
| **1.45** | 12.5 | 18.0 | 1209 | 58.8 | 802 | 47.8 | 601 | 38.9 | 25.9 | 28.9 | 31.9 | 34.9 | 38.5 | 42.0 | 46.0 | 51.0 |
| | 13.2 | 19.0 | 1210 | 64.0 | 802 | 52.5 | 602 | 42.8 | 24.6 | 27.6 | 30.6 | 33.6 | 37.1 | 40.6 | 44.6 | 49.6 |
| **1.46** | 17.0 | 24.8 | – | – | 792 | 75.9 | 594 | 62.9 | – | – | – | 25.9 | 29.4 | 32.9 | 37.0 | 42.0 |
| **1.50** | 15.0 | 22.4 | – | – | 773 | 64.2 | 580 | 52.6 | – | 23.3 | 26.4 | 29.4 | 32.9 | 36.5 | 40.5 | 45.5 |
| **1.51** | 20.0 | 30.0 | – | – | 771 | 91.5 | 578 | 77.5 | – | – | – | – | – | – | 30.3 | 35.4 |
| **1.52** | 13.2 | 20.0 | 1149 | 64.4 | 762 | 52.7 | 571 | 43.0 | 23.7 | 26.7 | 29.7 | 32.8 | 36.3 | 39.8 | 43.8 | 48.8 |
| | 14.0 | 21.2 | 1150 | 69.9 | 762 | 57.9 | 572 | 47.3 | 22.1 | 25.1 | 28.1 | 31.2 | 34.7 | 38.2 | 42.2 | 47.2 |
| **1.53** | 12.5 | 19.0 | 1145 | 59.2 | 759 | 48.2 | 569 | 39.1 | 25.1 | 28.1 | 31.1 | 34.1 | 37.6 | 41.1 | 45.2 | 50.2 |
| **1.56** | 16.0 | 24.8 | – | – | 745 | 70.4 | 559 | 58.0 | – | – | – | 26.6 | 30.1 | 33.7 | 37.7 | 42.7 |
| **1.59** | 19.0 | 30.0 | – | – | 732 | 86.9 | 549 | 72.9 | – | – | – | – | – | – | 31.0 | 36.1 |
| | 22.4 | 35.5 | – | – | – | – | 547 | 88.3 | – | – | – | – | – | – | – | – |
| **1.61** | 12.5 | 20.0 | 1087 | 59.5 | 721 | 48.3 | 540 | 39.3 | 24.2 | 27.2 | 30.3 | 33.3 | 36.8 | 40.3 | 44.3 | 49.3 |
| | 14.0 | 22.4 | 1088 | 70.2 | 721 | 58.2 | 541 | 47.5 | – | 24.1 | 27.1 | 30.1 | 33.7 | 37.2 | 41.2 | 46.2 |
| **1.62** | 13.2 | 21.2 | 1083 | 64.7 | 718 | 53.0 | 539 | 43.2 | 22.6 | 25.7 | 28.7 | 31.7 | 35.3 | 38.8 | 42.8 | 47.8 |
| | 24.8 | 40.0 | – | – | – | – | 538 | 98.0 | – | – | – | – | – | – | – | – |
| **1.66** | 15.0 | 24.8 | – | – | 698 | 64.6 | 523 | 52.9 | – | – | 24.2 | 27.3 | 30.9 | 34.4 | 38.4 | 43.5 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.83** | **.84** | **.85** | **.86** | **.87** | **.88** | **.89** | **.91** |
| **1.67** | 18.0 | 30.0 | – | – | 693 | 81.9 | 520 | 68.2 | – | – | – | – | – | 27.7 | 31.7 | 36.8 |
| **1.68** | 21.2 | 35.5 | – | – | 690 | 97.4 | 518 | 83.2 | – | – | – | – | – | – | – | – |
| **1.71** | 12.5 | 21.2 | 1025 | 59.7 | 679 | 48.4 | 510 | 39.4 | 23.1 | 26.2 | 29.2 | 32.3 | 35.8 | 39.3 | 43.3 | 48.3 |
| | 13.2 | 22.4 | 1025 | 65.0 | 679 | 53.1 | 509 | 43.3 | 21.6 | 24.6 | 27.7 | 30.7 | 34.2 | 37.8 | 41.8 | 46.8 |
| **1.77** | 17.0 | 30.0 | – | – | 654 | 76.5 | 490 | 63.4 | – | – | – | – | – | 28.4 | 32.5 | 37.5 |
| **1.78** | 14.0 | 24.8 | 982 | 70.6 | 651 | 58.4 | 488 | 47.7 | – | – | 24.9 | 28.0 | 31.6 | 35.1 | 39.2 | 44.2 |
| | 20.0 | 35.5 | – | – | 651 | 92.1 | 488 | 77.9 | – | – | – | – | – | – | – | – |
| **1.79** | 22.4 | 40.0 | – | – | – | – | 485 | 88.5 | – | – | – | – | – | – | – | – |
| **1.80** | 12.5 | 22.4 | 970 | 59.9 | 643 | 48.6 | 482 | 39.5 | 22.0 | 25.1 | 28.2 | 31.2 | 34.7 | 38.3 | 42.3 | 47.3 |
| | 24.8 | 44.5 | – | – | – | – | 483 | 98.3 | – | – | – | – | – | – | – | – |
| **1.88** | 19.0 | 35.5 | – | – | 618 | 87.3 | 463 | 73.2 | – | – | – | – | – | – | – | 31.1 |
| **1.89** | 13.2 | 24.8 | 925 | 65.3 | 613 | 53.3 | 460 | 43.4 | – | – | 25.5 | 28.6 | 32.1 | 35.7 | 39.7 | 44.8 |
| | 16.0 | 30.0 | – | – | 615 | 70.9 | 461 | 58.4 | – | – | – | – | – | 29.0 | 33.1 | 38.2 |
| **1.90** | 21.2 | 40.0 | – | – | 612 | 97.6 | 459 | 83.4 | – | – | – | – | – | – | – | – |
| **1.98** | 18.0 | 35.5 | – | – | 585 | 82.2 | 439 | 68.5 | – | – | – | – | – | – | – | 31.8 |
| **2.00** | 12.5 | 24.8 | 875 | 60.2 | 580 | 48.7 | 435 | 39.6 | – | 22.9 | 26.0 | 29.1 | 32.6 | 36.2 | 40.2 | 45.3 |
| | 22.4 | 44.5 | – | – | – | – | 436 | 88.7 | – | – | – | – | – | – | – | – |
| **2.01** | 15.0 | 30.0 | – | – | 576 | 64.9 | 432 | 53.2 | – | – | – | – | 26.1 | 29.7 | 33.8 | 38.9 |
| | 20.0 | 40.0 | – | – | 577 | 92.3 | 433 | 78.0 | – | – | – | – | – | – | – | – |
| **2.10** | 17.0 | 35.5 | – | – | 552 | 76.8 | 414 | 63.6 | – | – | – | – | – | – | – | 32.4 |
| **2.11** | 21.2 | 44.5 | – | – | 550 | 97.8 | 412 | 83.5 | – | – | – | – | – | – | – | – |
| **2.12** | 19.0 | 40.0 | – | – | 548 | 87.5 | 411 | 73.4 | – | – | – | – | – | – | – | – |
| **2.15** | 24.8 | 53.0 | – | – | – | – | 405 | 98.5 | – | – | – | – | – | – | – | – |
| **2.16** | 14.0 | 30.0 | 810 | 71.1 | 537 | 58.7 | 403 | 47.9 | – | – | – | – | 26.7 | 30.4 | 34.5 | 39.6 |
| **2.23** | 16.0 | 35.5 | – | – | 519 | 71.1 | 389 | 58.5 | – | – | – | – | – | – | – | 33.1 |
| **2.24** | 18.0 | 40.0 | – | – | 519 | 82.3 | 389 | 68.6 | – | – | – | – | – | – | – | – |
| | 20.0 | 44.5 | – | – | 518 | 92.4 | 389 | 78.1 | – | – | – | – | – | – | – | – |
| **2.29** | 13.2 | 30.0 | 763 | 65.6 | 506 | 53.6 | 380 | 43.6 | – | – | – | – | 27.3 | 30.9 | 35.1 | 40.2 |
| **2.36** | 19.0 | 44.5 | – | – | 492 | 87.6 | 369 | 73.4 | – | – | – | – | – | – | – | – |
| **2.37** | 17.0 | 40.9 | – | – | 490 | 76.9 | 367 | 63.6 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.80** | **.80** | **.81** | **.81** | **.82** | **.83** | **.85** | **.87** |

Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

**8V** — D-V Wedge and POLYBAND Belts

| Speed Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8VX | 8VX | 8VX | 8VX | 8VX | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V | 8V |
| | 160 | 1700 | 1800 | 1900 | 2000 | 2120 | 2240 | 2360 | 2500 | 2650 | 2800 | 3000 | 3150 | 3350 | 3550 | 3750 | 4000 | 4250 | 4500 | 4750 | 5000 | 5600 |
| **1.36** | 54.0 | 59.0 | 64.0 | 69.0 | 74.1 | 80.1 | 86.1 | 92.1 | 99 | 107 | 114 | 124 | 132 | 142 | 152 | 162 | 174 | 187 | 199 | 212 | 224 | 254 |
| **1.37** | 56.8 | 61.8 | 66.8 | 71.8 | 76.8 | 82.8 | 88.8 | 94.8 | 102 | 109 | 117 | 127 | 134 | 144 | 154 | 164 | 177 | 189 | 202 | 214 | 227 | 257 |
| | 55.5 | 60.5 | 65.5 | 70.5 | 75.5 | 81.5 | 87.5 | 93.5 | 101 | 108 | 115 | 125 | 133 | 143 | 153 | 163 | 175 | 186 | 200 | 213 | 225 | 255 |
| **1.38** | 46.3 | 51.3 | 56.3 | 61.3 | 66.3 | 72.3 | 78.3 | 84.3 | 91 | 99 | 106 | 116 | 124 | 134 | 144 | 154 | 166 | 179 | 191 | 204 | 216 | 246 |
| **1.41** | 49.8 | 54.8 | 59.8 | 64.8 | 69.8 | 75.8 | 81.8 | 87.8 | 95 | 102 | 110 | 120 | 127 | 137 | 147 | 157 | 170 | 182 | 195 | 207 | 220 | 250 |
| **1.42** | 51.5 | 56.5 | 61.5 | 66.5 | 71.5 | 77.5 | 83.5 | 89.5 | 97 | 104 | 111 | 121 | 129 | 139 | 149 | 159 | 172 | 184 | 197 | 209 | 222 | 252 |
| | 39.6 | 44.6 | 49.6 | 54.6 | 59.6 | 65.7 | 71.7 | 77.7 | 85 | 92 | 100 | 110 | 117 | 127 | 137 | 147 | 160 | 172 | 185 | 197 | 210 | 240 |
| **1.43** | 53.2 | 58.2 | 63.2 | 68.2 | 73.2 | 79.3 | 85.3 | 91.3 | 98 | 106 | 113 | 123 | 131 | 141 | 151 | 161 | 173 | 186 | 198 | 211 | 223 | 253 |
| | – | 37.3 | 42.3 | 47.3 | 52.4 | 58.4 | 64.4 | 70.4 | 77 | 85 | 92 | 102 | 110 | 120 | 130 | 140 | 152 | 165 | 178 | 190 | 203 | 233 |
| **1.45** | 56.0 | 61.0 | 66.0 | 71.0 | 76.0 | 82.0 | 88.0 | 94.0 | 101 | 108 | 116 | 126 | 133 | 143 | 153 | 163 | 176 | 188 | 201 | 213 | 226 | 256 |
| | 54.6 | 59.7 | 64.7 | 69.7 | 74.7 | 80.7 | 86.7 | 92.7 | 100 | 107 | 115 | 125 | 132 | 142 | 152 | 162 | 175 | 187 | 200 | 212 | 225 | 255 |
| **1.46** | 47.0 | 52.0 | 57.0 | 62.0 | 67.1 | 73.1 | 79.1 | 85.1 | 92 | 100 | 107 | 117 | 125 | 135 | 145 | 155 | 167 | 180 | 192 | 205 | 217 | 247 |
| **1.50** | 50.5 | 55.5 | 60.5 | 65.5 | 70.5 | 76.6 | 82.6 | 88.6 | 96 | 103 | 111 | 121 | 128 | 138 | 148 | 158 | 171 | 183 | 196 | 208 | 221 | 251 |
| **1.51** | 40.4 | 45.5 | 50.5 | 55.5 | 60.5 | 66.6 | 72.6 | 78.6 | 86 | 93 | 101 | 111 | 118 | 128 | 138 | 148 | 161 | 173 | 186 | 198 | 211 | 241 |
| **1.52** | 53.8 | 58.8 | 63.8 | 68.9 | 73.9 | 79.9 | 85.9 | 91.9 | 99 | 106 | 114 | 124 | 131 | 141 | 151 | 161 | 174 | 186 | 199 | 211 | 224 | 254 |
| | 52.2 | 57.3 | 62.3 | 67.3 | 72.3 | 78.3 | 84.3 | 90.3 | 97 | 105 | 112 | 122 | 130 | 140 | 150 | 160 | 172 | 185 | 197 | 210 | 222 | 252 |
| **1.53** | 55.2 | 60.2 | 65.2 | 70.2 | 75.2 | 81.2 | 87.2 | 93.2 | 100 | 108 | 115 | 125 | 133 | 143 | 153 | 163 | 175 | 188 | 200 | 213 | 225 | 255 |
| **1.56** | 47.8 | 52.8 | 57.8 | 62.8 | 67.8 | 73.8 | 79.8 | 85.8 | 93 | 100 | 108 | 118 | 125 | 135 | 145 | 155 | 168 | 180 | 193 | 205 | 218 | 248 |
| **1.59** | 41.1 | 46.2 | 51.2 | 56.2 | 61.3 | 67.3 | 73.3 | 79.3 | 86 | 94 | 101 | 111 | 119 | 129 | 139 | 149 | 161 | 174 | 186 | 199 | 211 | 241 |
| | 33.9 | 39.0 | 44.0 | 49.1 | 54.1 | 60.2 | 66.2 | 72.2 | 79 | 87 | 94 | 104 | 111 | 122 | 132 | 142 | 154 | 167 | 179 | 192 | 204 | 234 |
| **1.61** | 54.4 | 59.4 | 64.4 | 69.4 | 74.4 | 80.4 | 86.4 | 92.4 | 99 | 107 | 114 | 124 | 131 | 142 | 151 | 162 | 174 | 187 | 199 | 212 | 224 | 254 |
| | 51.3 | 56.3 | 61.3 | 66.3 | 71.3 | 77.3 | 83.3 | 89.3 | 96 | 104 | 111 | 121 | 129 | 139 | 149 | 159 | 171 | 184 | 196 | 209 | 221 | 251 |
| **1.62** | 52.8 | 57.9 | 62.9 | 67.9 | 72.9 | 78.9 | 84.9 | 90.9 | 98 | 105 | 113 | 123 | 130 | 140 | 150 | 160 | 173 | 185 | 198 | 210 | 223 | 253 |
| | – | – | 36.4 | 43.8 | 48.5 | 54.6 | 60.6 | 66.7 | 74 | 81 | 89 | 99 | 106 | 116 | 126 | 136 | 149 | 161 | 174 | 186 | 199 | 229 |
| **1.66** | 48.5 | 53.5 | 58.4 | 63.6 | 68.6 | 74.6 | 80.6 | 86.6 | 94 | 101 | 109 | 1119 | 126 | 136 | 146 | 156 | 169 | 181 | 194 | 206 | 219 | 249 |
| | **.92** | **.93** | **.94** | **.95** | **.95** | **.96** | **.97** | **.98** | **.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.04** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.09** | **1.10** | **1.11** |
| **1.67** | 41.9 | 46.9 | 52.0 | 57.0 | 62.0 | 68.0 | 74.1 | 80.1 | 87 | 95 | 102 | 112 | 120 | 130 | 140 | 150 | 162 | 175 | 187 | 200 | 212 | 242 |
| **1.68** | 34.7 | 39.8 | 44.9 | 50.0 | 55.0 | 61.0 | 67.1 | 73.1 | 80 | 88 | 95 | 105 | 113 | 123 | 133 | 143 | 155 | 168 | 180 | 193 | 205 | 235 |
| **1.71** | – | 58.4 | 63.4 | 68.4 | 73.4 | 79.4 | 85.4 | 91.4 | 98 | 106 | 113 | 123 | 131 | 141 | 151 | 161 | 173 | 186 | 198 | 211 | 223 | 253 |
| | 51.8 | 56.9 | 61.9 | 66.9 | 71.9 | 77.9 | 83.9 | 89.9 | 97 | 104 | 112 | 122 | 129 | 139 | 149 | 159 | 172 | 184 | 197 | 209 | 222 | 252 |
| **1.77** | 42.6 | 47.7 | 52.7 | 57.7 | 62.8 | 68.8 | 74.8 | 80.8 | 88 | 95 | 103 | 113 | 120 | 130 | 140 | 150 | 163 | 175 | 188 | 200 | 213 | 243 |
| **1.78** | 49.2 | 54.3 | 59.3 | 64.3 | 69.3 | 75.3 | 81.3 | 87.4 | 94 | 102 | 109 | 119 | 127 | 137 | 147 | 157 | 169 | 182 | 194 | 207 | 219 | 249 |
| | 35.6 | 40.7 | 45.8 | 50.8 | 55.9 | 61.9 | 68.0 | 74.0 | 81 | 89 | 96 | 106 | 114 | 124 | 134 | 144 | 156 | 169 | 181 | 194 | 206 | 236 |
| **1.79** | – | 34.9 | 40.0 | 45.1 | 50.2 | 56.3 | 62.4 | 68.4 | 76 | 83 | 91 | 101 | 108 | 118 | 128 | 138 | 151 | 163 | 176 | 186 | 201 | 231 |
| **1.80** | 52.4 | 57.4 | 62.4 | 67.4 | 72.4 | 78.4 | 84.4 | 90.5 | 97 | 105 | 112 | 122 | 130 | 140 | 150 | 160 | 172 | 185 | 197 | 210 | 225 | 252 |
| | – | – | – | 39.3 | 44.5 | 50.6 | 56.7 | 62.8 | 70 | 77 | 85 | 95 | 103 | 113 | 123 | 133 | 145 | 158 | 170 | 183 | 195 | 225 |
| **1.88** | 36.3 | 41.4 | 46.5 | 51.5 | 56.6 | 62.7 | 68.7 | 74.7 | 82 | 89 | 97 | 107 | 114 | 124 | 134 | 144 | 157 | 169 | 182 | 194 | 207 | 237 |
| **1.89** | 49.8 | 54.8 | 59.9 | 64.9 | 69.9 | 75.9 | 81.9 | 88.0 | 95 | 102 | 110 | 120 | 127 | 137 | 147 | 157 | 170 | 183 | 195 | 208 | 220 | 250 |
| | 43.3 | 48.4 | 53.4 | 58.5 | 63.5 | 69.5 | 75.5 | 81.6 | 89 | 96 | 104 | 114 | 121 | 131 | 141 | 151 | 164 | 176 | 189 | 201 | 214 | 244 |
| **1.90** | – | 35.7 | 40.9 | 46.0 | 51.1 | 57.2 | 63.2 | 69.3 | 76 | 84 | 91 | 101 | 109 | 119 | 129 | 139 | 152 | 164 | 177 | 189 | 202 | 232 |
| **1.98** | 36.9 | 42.1 | 47.2 | 52.2 | 57.3 | 63.4 | 69.4 | 75.5 | 82 | 90 | 98 | 108 | 115 | 125 | 135 | 145 | 158 | 170 | 183 | 195 | 208 | 238 |
| **2.00** | 50.3 | 55.4 | 60.4 | 65.4 | 70.4 | 76.5 | 82.5 | 88.5 | 95 | 103 | 111 | 120 | 128 | 138 | 148 | 158 | 171 | 183 | 196 | 208 | 221 | 251 |
| | – | – | – | 41.0 | 46.1 | 52.3 | 58.4 | 64.5 | 72 | 79 | 87 | 97 | 104 | 114 | 124 | 134 | 147 | 160 | 172 | 185 | 197 | 227 |
| **2.01** | 44.0 | 49.1 | 54.1 | 59.2 | 64.2 | 70.3 | 76.3 | 82.3 | 89 | 97 | 104 | 114 | 122 | 132 | 142 | 152 | 164 | 177 | 189 | 202 | 214 | 244 |
| | – | 36.5 | 41.7 | 46.8 | 51.9 | 58.0 | 64.1 | 70.2 | 77 | 85 | 92 | 102 | 110 | 120 | 130 | 140 | 152 | 165 | 178 | 190 | 203 | 233 |
| **2.10** | 37.6 | 42.8 | 47.9 | 53.0 | 58.0 | 64.1 | 70.2 | 76.2 | 83 | 91 | 98 | 108 | 116 | 126 | 136 | 146 | 158 | 171 | 183 | 196 | 209 | 237 |
| **2.11** | – | – | 36.5 | 41.8 | 47.0 | 53.1 | 59.3 | 65.4 | 72 | 80 | 88 | 98 | 105 | 115 | 125 | 135 | 148 | 160 | 173 | 185 | 198 | 228 |
| **2.12** | – | 37.2 | 42.4 | 47.5 | 52.6 | 58.7 | 64.8 | 70.9 | 78 | 85 | 93 | 103 | 111 | 121 | 131 | 141 | 153 | 166 | 178 | 191 | 203 | 233 |
| **2.15** | – | – | – | – | – | 42.6 | 48.9 | 55.1 | 62 | 70 | 78 | 88 | 95 | 105 | 115 | 126 | 138 | 151 | 163 | 176 | 188 | 218 |
| **2.16** | 44.7 | 44.8 | 54.9 | 59.9 | 64.9 | 71.0 | 77.0 | 83.1 | 90 | 98 | 105 | 115 | 123 | 133 | 143 | 153 | 165 | 178 | 190 | 203 | 215 | 245 |
| **2.23** | 38.3 | 43.5 | 48.6 | 53.7 | 58.7 | 64.8 | 70.9 | 76.9 | 84 | 91 | 99 | 109 | 117 | 127 | 137 | 147 | 159 | 172 | 184 | 197 | 209 | 239 |
| **2.24** | – | 37.8 | 43.0 | 48.2 | 53.3 | 59.4 | 65.5 | 71.6 | 79 | 86 | 94 | 104 | 111 | 121 | 131 | 141 | 154 | 167 | 179 | 192 | 204 | 234 |
| | – | – | 37.3 | 42.6 | 47.8 | 54.0 | 60.1 | 66.2 | 73 | 81 | 89 | 99 | 106 | 116 | 126 | 136 | 149 | 161 | 174 | 186 | 199 | 229 |
| **2.29** | 45.3 | 50.4 | 55.4 | 60.5 | 65.5 | 71.6 | 77.6 | 83.6 | 91 | 98 | 106 | 116 | 123 | 133 | 143 | 153 | 166 | 178 | 191 | 203 | 216 | 246 |
| **2.36** | – | – | 38.0 | 43.2 | 48.4 | 54.6 | 60.8 | 66.9 | 74 | 82 | 89 | 99 | 107 | 117 | 127 | 137 | 150 | 162 | 175 | 187 | 120 | 230 |
| **2.37** | 33.2 | 38.5 | 43.7 | 48.9 | 54.0 | 60.1 | 66.2 | 72.3 | 79 | 87 | 95 | 105 | 112 | 122 | 132 | 142 | 155 | 167 | 180 | 192 | 205 | 235 |
| | **.89** | **.90** | **.91** | **.92** | **.93** | **.94** | **.96** | **.96** | **.98** | **.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.04** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.09** | **1.11** |

**Selection program available at www.ptwizard.com**

# Selection

## Stock Drive Selection

**8V** — D-V Wedge and POLYBAND Belts

| Speed Ratio | Stock Sheaves (4, 5, 6, 8, 10, 12 Grooves) Outside Diameter | | 1750 RPM Driver | | 1160 RPM Driver | | 870 RPM Driver | | Belt Number and Approx. Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP Per Belt 8V | Driven RPM | HP Per Belt 8V | Driven RPM | HP Per Belt 8V | 8VX 1250 | 8VX 1320 | 8VX 1400 | 8VX 1500 | 8VX 1600 | 8VX 1700 | 8VX 1800 | 8VX 1900 |
| **2.38** | **22.4** | 53.0 | – | – | – | – | 366 | 88.8 | – | – | – | – | – | – | – | – |
| **2.39** | **15.0** | 35. 5 | – | – | 486 | 65.1 | 365 | 53. | – | – | – | 33.8 | 39.0 | 44.1 | 49.3 | 54.4 |
| **2.42** | **12.5** | 30.0 | 722 | 60.5 | 479 | 48.9 | 359 | 39.8 | 27.7 | 31.4 | 35.5 | 40.7 | 45.8 | 50.9 | 55.9 | 61.0 |
| **2.49** | **18.0** | 44.5 | – | – | 466 | 82.4 | 350 | 68.6 | – | – | – | – | – | – | 38.6 | 43.9 |
| **2.51** | **21.2** | 53.0 | – | – | 461 | 97.9 | 346 | 83.6 | – | – | – | – | – | – | – | – |
| **2.52** | **16.0** | 40.0 | – | – | 461 | 71.2 | 345 | 58.6 | – | – | – | – | 33.9 | 39.2 | 44.4 | 49.6 |
| **2.55** | **24.8** | 63.0 | – | – | – | – | 341 | 98.6 | – | – | – | – | – | – | – | – |
| **2.56** | **14.0** | 35.5 | 684 | 71.3 | 453 | 58.9 | 340 | 48.0 | – | – | 29.1 | 34.4 | 39.7 | 44.8 | 50.0 | 55.1 |
| **2.64** | **17.0** | 44.5 | – | – | 440 | 77.0 | 330 | 63.7 | – | – | – | – | – | – | 39.3 | 44.6 |
| **2.67** | **20.0** | 53.0 | – | – | 435 | 92.5 | 326 | 78.2 | – | – | – | – | – | – | – | – |
| **2.69** | **15.0** | 40.0 | – | – | 431 | 65.2 | 324 | 53.4 | – | – | – | – | 34.5 | 39.8 | 45.1 | 50.2 |
| **2.72** | **13.2** | 35.5 | 644 | 65. | 427 | 53.7 | 320 | 43.7 | – | – | 29.7 | 35.0 | 40.2 | 45.4 | 50.5 | 55.6 |
| **2.80** | **16.0** | 44.5 | – | – | 414 | 71. | 310 | 58.6 | – | – | – | – | – | 34.5 | 39.9 | 45.2 |
| **2.81** | **19.0** | 53.0 | – | – | 413 | 87.7 | 310 | 73.5 | – | – | – | – | – | – | – | – |
| **2.83** | **22.4** | 63.0 | – | – | – | – | 308 | 88.9 | – | – | – | – | – | – | – | – |
| **2.87** | **12.5** | 35.5 | 610 | 60. | 404 | 49. | 303 | 39.8 | – | – | 30.1 | 35.4 | 40.7 | 45.9 | 51.0 | 56.1 |
| **2.88** | **14.0** | 40.0 | 607 | 71.4 | 402 | 58. | 302 | 48.1 | – | – | – | – | 35.2 | 40.5 | 45.7 | 50.9 |
| | **24.8** | 71.0 | – | – | – | – | 302 | 98.6 | – | – | – | – | – | – | – | – |
| **2.97** | **18.0** | 53.0 | – | – | 391 | 82. | 293 | 68.7 | – | – | – | – | – | – | – | – |
| **2.99** | **15.0** | 44.5 | – | – | 388 | 65.2 | 291 | 53.4 | – | – | – | – | – | 35.2 | 40.6 | 45.9 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **.80** | **.81** | **.82** | **.83** | **.86** | **.87** | **.88** | **.90** |
| **2.99** | **21.2** | 63.0 | – | – | 388 | 98.0 | 291 | 83.7 | – | – | – | – | – | – | – | – |
| **3.06** | **13.2** | 40.0 | 572 | 65.9 | 379 | 53.7 | 284 | 43.7 | – | – | – | 30.2 | 35.7 | 41.0 | 46.3 | 51.5 |
| **3.14** | **17.0** | 53.0 | – | – | 369 | 77.0 | 277 | 63.7 | – | – | – | – | – | – | – | – |
| **3.17** | **20.0** | 63.0 | – | – | 366 | 92.6 | 274 | 78.2 | – | – | – | – | – | – | – | – |
| **3.19** | **22.4** | 71.0 | – | – | – | – | 273 | 88.9 | – | – | – | – | – | – | – | – |
| **3.21** | **14.0** | 44.5 | 545 | 71.4 | 361 | 58.9 | 271 | 48.1 | – | – | – | – | – | 35.8 | 41.2 | 46.6 |
| **3.24** | **12.5** | 40.0 | 541 | 60.7 | 358 | 49.0 | 269 | 39.9 | – | – | – | 30.7 | 36.2 | 41.5 | 46.7 | 51.9 |
| **3.34** | **16.0** | 53.0 | – | – | 347 | 71.3 | 260 | 58.7 | – | – | – | – | – | – | – | – |
| | **19.0** | 63.0 | – | – | 347 | 87.7 | 260 | 73.6 | – | – | – | – | – | – | – | – |
| **3.37** | **21.2** | 71.0 | – | – | 344 | 98.0 | 258 | 83.7 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | – | – | **.78** | **.82** | **.85** | **.87** | **.88** |
| **3.41** | **13.2** | 44.5 | 514 | 65.9 | 340 | 53.8 | 255 | 43.7 | – | – | – | – | – | 36.3 | 41.7 | 47.1 |
| **3.53** | **18.0** | 63.0 | – | – | 329 | 82.6 | 247 | 68.7 | – | – | – | – | – | – | – | – |
| **3.57** | **15.0** | 53.0 | – | – | 325 | 65.3 | 244 | 53.5 | – | – | – | – | – | – | – | – |
| **3.58** | **20.0** | 71.0 | – | – | 324 | 92.6 | 243 | 78.3 | – | – | – | – | – | – | – | – |
| **3.60** | **12.5** | 44.5 | 486 | 60.7 | 322 | 49.1 | 242 | 39.9 | – | – | – | – | – | 36.7 | 42.2 | 47.5 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | – | – | – | – | **.81** | **.84** | **.88** |
| **3.74** | **17.0** | 63.0 | – | – | 310 | 77.1 | 233 | 63.8 | – | – | – | – | – | – | – | – |
| **3.77** | **19.0** | 71.0 | – | – | 308 | 87.8 | 231 | 73.6 | – | – | – | – | – | – | – | – |
| **3.83** | **14.0** | 53.0 | 457 | 71.5 | 303 | 59.0 | 227 | 48.1 | – | – | – | – | – | – | – | 37.3 |
| **3.97** | **16.0** | 63.0 | – | – | 292 | 71.3 | 219 | 58.7 | – | – | – | – | – | – | – | – |
| **3.98** | **18.0** | 71.0 | – | – | 292 | 82.6 | 219 | 68.8 | – | – | – | – | – | – | – | – |
| **4.06** | **13.2** | 53.0 | 431 | 66.0 | 286 | 53.8 | 214 | 43.8 | – | – | – | – | – | – | – | – |
| **4.21** | **17.0** | 71.0 | – | – | 275 | 77.1 | 206 | 63.8 | – | – | – | – | – | – | – | – |
| **4.24** | **15.0** | 63.0 | – | – | 273 | 65.1 | 205 | 53.5 | – | – | – | – | – | – | – | – |
| **4.29** | **12.5** | 53.0 | 408 | 60.8 | 270 | 49.1 | 203 | 39.9 | – | – | – | – | – | – | – | 38.2 |
| **4.48** | **16.0** | 71.0 | – | – | 259 | 71.3 | 194 | 58.7 | – | – | – | – | – | – | – | – |
| **4.55** | **14.0** | 63.0 | 385 | 71.5 | 255 | 59.0 | 191 | 48.1 | – | – | – | – | – | – | – | – |
| **4.78** | **15.0** | 71.0 | – | – | 242 | 65.3 | 182 | 53.5 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | – | – | – | – | – | – | **.77** |
| **4.83** | **13.2** | 63.0 | 362 | 66.0 | 240 | 53.8 | 180 | 43.8 | – | – | – | – | – | – | – | – |
| **5.11** | **12.5** | 63.0 | 343 | 60.8 | 227 | 49.1 | 170 | 39.9 | – | – | – | – | – | – | – | – |
| **5.13** | **14.0** | 71.0 | 341 | 71.5 | 226 | 59.0 | 170 | 48.1 | – | – | – | – | – | – | – | – |
| **5.45** | **13.2** | 71.0 | 321 | 66.0 | 213 | 53.8 | 160 | 43.8 | – | – | – | – | – | – | – | – |
| **5.76** | **12.5** | 71.0 | 304 | 60.8 | 202 | 49.1 | 151 | 39.9 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | – | – | – | – | – | – | – |

Arc and Length Factors are approximate values
Refer to Selection Procedure for more precise values

# Selection

## Stock Drive Selection

**8V** — D-V Wedge and POLYBAND Belts

| Speed Ratio | Belt Number and Approx. Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8VX 2000 | 8V 2120 | 8V 2240 | 8V 2360 | 8V 2500 | 8V 2650 | 8V 2800 | 8V 3000 | 8V 3150 | 8V 3350 | 8V 3550 | 8V 3750 | 8V 4000 | 8V 4250 | 8V 4500 | 8V 4750 | 8V 5000 | 8V 5600 |
| **2.38** | – | 44.1 | 50.5 | 56.7 | 64 | 72 | 79 | 89 | 97 | 107 | 117 | 127 | 140 | 152 | 165 | 178 | 190 | 220 |
| **2.39** | 59.5 | 65.5 | 71.6 | 77.7 | 85 | 92 | 100 | 110 | 117 | 127 | 137 | 147 | 160 | 172 | 185 | 197 | 210 | 240 |
| **2.42** | 66.0 | 72.1 | 78.1 | 84.2 | 91 | 99 | 106 | 116 | 124 | 134 | 144 | 154 | 166 | 179 | 191 | 204 | 216 | 246 |
| **2.49** | 49.1 | 55.3 | 61.5 | 67.6 | 75 | 82 | 90 | 100 | 108 | 118 | 128 | 138 | 150 | 163 | 175 | 188 | 200 | 230 |
| **2.51** | – | 44.9 | 51.3 | 57.5 | 65 | 72 | 80 | 90 | 98 | 108 | 118 | 128 | 141 | 153 | 166 | 178 | 191 | 221 |
| **2.52** | 54.7 | 60.8 | 66.9 | 73.0 | 80 | 88 | 95 | 105 | 113 | 123 | 133 | 143 | 156 | 168 | 181 | 193 | 206 | 236 |
| **2.55** | – | – | – | – | 53 | 60 | 68 | 79 | 86 | 97 | 107 | 117 | 130 | 142 | 156 | 167 | 180 | 210 |
| **2.56** | 60.2 | 66.3 | 72.3 | 78.4 | 85 | 93 | 100 | 111 | 118 | 128 | 138 | 148 | 161 | 173 | 186 | 198 | 211 | 241 |
| **2.64** | 49.8 | 56.0 | 62.2 | 68.3 | 75 | 83 | 91 | 101 | 108 | 118 | 128 | 138 | 151 | 164 | 176 | 189 | 201 | 231 |
| **2.67** | – | 45.7 | 52.1 | 58.3 | 66 | 73 | 81 | 91 | 99 | 109 | 119 | 129 | 142 | 154 | 167 | 179 | 192 | 222 |
| **2.69** | 55.4 | 61.5 | 67.6 | 73.7 | 81 | 88 | 96 | 106 | 114 | 124 | 134 | 144 | 156 | 168 | 181 | 194 | 206 | 236 |
| **2.72** | 60.7 | 66.8 | 72.9 | 79.0 | 86 | 94 | 101 | 111 | 119 | 129 | 139 | 149 | 161 | 174 | 186 | 199 | 211 | 241 |
| **2.80** | 50.5 | 56.7 | 62.9 | 69.0 | 76 | 84 | 91 | 101 | 109 | 119 | 129 | 139 | 152 | 164 | 177 | 189 | 202 | 232 |
| **2.81** | 39.8 | 46.3 | 52.7 | 59.0 | 66 | 74 | 82 | 92 | 99 | 110 | 120 | 130 | 142 | 155 | 168 | 180 | 193 | 223 |
| **2.83** | – | – | – | 46.5 | 54 | 62 | 70 | 80 | 88 | 98 | 108 | 119 | 131 | 144 | 157 | 169 | 182 | 212 |
| **2.87** | 61.2 | 67.3 | 73.4 | 79.5 | 86 | 94 | 102 | 112 | 119 | 129 | 139 | 149 | 162 | 174 | 187 | 199 | 212 | 242 |
| **2.88** | 56.1 | 62.2 | 68.4 | 74.5 | 82 | 89 | 97 | 107 | 114 | 124 | 134 | 144 | 157 | 170 | 182 | 195 | 207 | 237 |
| | – | – | – | – | – | 52 | 60 | 71 | 79 | 89 | 100 | 110 | 123 | 135 | 148 | 161 | 173 | 203 |
| **2.97** | 40.5 | 47.0 | 53.4 | 59.7 | 67 | 75 | 82 | 93 | 100 | 110 | 120 | 131 | 143 | 156 | 168 | 181 | 193 | 224 |
| **2.99** | 51.1 | 57.4 | 63.6 | 59.7 | 77 | 84 | 92 | 102 | 110 | 120 | 130 | 140 | 153 | 165 | 178 | 190 | 203 | 233 |
| | **.92** | **.93** | **.94** | **.95** | **.96** | **.97** | **.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.09** | **1.10** |
| **2.99** | – | – | – | 47.2 | 55 | 63 | 71 | 81 | 89 | 99 | 109 | 119 | 132 | 145 | 157 | 170 | 183 | 213 |
| **3.06** | 56.6 | 62.8 | 68.9 | 75.0 | 82 | 90 | 97 | 107 | 115 | 125 | 135 | 145 | 158 | 170 | 183 | 195 | 208 | 238 |
| **3.14** | 41.4 | 47.6 | 54.0 | 60.3 | 68 | 75. | 83 | 93 | 101 | 111 | 121 | 131 | 144 | 156 | 169 | 182 | 194 | 224 |
| **3.17** | – | – | – | 48.0 | 56 | 64 | 72 | 82 | 90 | 100 | 110 | 120 | 133 | 146 | 158 | 171 | 184 | 214 |
| **3.19** | – | – | – | – | – | 54 | 62 | 73 | 81 | 91 | 101 | 111 | 124 | 137 | 150 | 162 | 175 | 205 |
| **3.21** | 51.8 | 58.1 | 64.2 | 70.4 | 78 | 85 | 93 | 103 | 111 | 121 | 131 | 141 | 153 | 166 | 178 | 191 | 203 | 234 |
| **3.24** | 57.1 | 63.3 | 69.4 | 75.5 | 83 | 90 | 98 | 108 | 115 | 125 | 136 | 146 | 158 | 171 | 183 | 196 | 208 | 233 |
| **3.34** | 41.7 | 48.3 | 54.7 | 61.0 | 68 | 76 | 84 | 94 | 102 | 112 | 122 | 132 | 145 | 157 | 170 | 182 | 195 | 225 |
| | – | – | – | 48.6 | 56 | 64 | 72 | 83 | 90 | 101 | 111 | 121 | 134 | 146 | 159 | 172 | 184 | 214 |
| **3.37** | – | – | – | – | – | 54 | 63 | 73 | 81 | 92 | 102 | 112 | 125 | 138 | 150 | 163 | 176 | 206 |
| | **.90** | **.91** | **.93** | **.94** | **.95** | **.97** | **.96** | **.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.10** |
| **3.41** | 52.3 | 58.6 | 64.8 | 71.0 | 78 | 86 | 93 | 104 | 111 | 121 | 131 | 141 | 154 | 166 | 179 | 191 | 204 | 234 |
| **3.53** | – | – | – | 49.2 | 57 | 65 | 73 | 83 | 91 | 101 | 112 | 122 | 134 | 147 | 160 | 172 | 185 | 215 |
| **3.57** | 42.3 | 48.9 | 55.3 | 61.7 | 69 | 77 | 84 | 95 | 102 | 112 | 123 | 133 | 145 | 158 | 170 | 183 | 196 | 226 |
| **3.58** | – | – | – | – | – | 55 | 63 | 74 | 82 | 92 | 103 | 113 | 126 | 139 | 151 | 164 | 177 | 207 |
| **3.60** | 52.8 | 59.1 | 65.3 | 71.4 | 79 | 86 | 94 | 104 | 112 | 122 | 132 | 142 | 154 | 167 | 179 | 192 | 204 | 235 |
| | **.88** | **.90** | **.91** | **.93** | **.94** | **.96** | **.97** | **.98** | **.99** | **1.01** | **1.02** | **1.03** | **1.04** | **1.05** | **1.06** | **1.07** | **1.08** | **1.10** |
| **3.74** | – | – | – | 49.9 | 58 | 66 | 74 | 84 | 92 | 102 | 112 | 122 | 135 | 148 | 160 | 173 | 186 | 216 |
| **3.77** | – | – | – | – | – | 56 | 64 | 75 | 83 | 93 | 104 | 114 | 127 | 139 | 152 | 165 | 177 | 208 |
| **3.83** | 43.0 | 49.5 | 56.0 | 62.3 | 70 | 77 | 85 | 95 | 103 | 113 | 123 | 133 | 146 | 159 | 171 | 184 | 196 | 226 |
| **3.97** | – | – | 43.6 | 50.5 | 58 | 66 | 74 | 85 | 92 | 103 | 113 | 123 | 135 | 149 | 161 | 174 | 186 | 217 |
| **3.98** | – | – | – | – | – | 56 | 65 | 75 | 83 | 94 | 104 | 114 | 127 | 140 | 153 | 165 | 178 | 208 |
| **4.06** | 43.4 | 50.1 | 56.5 | 62.9 | 70 | 78 | 86 | 96 | 104 | 114 | 124 | 134 | 147 | 159 | 172 | 184 | 197 | 227 |
| **4.21** | – | – | – | – | 48 | 57 | 65 | 76 | 84 | 94 | 105 | 115 | 128 | 141 | 153 | 166 | 179 | 209 |
| **4.24** | – | – | 44.2 | 51.1 | 59 | 67 | 75 | 85 | 93 | 103 | 114 | 124 | 137 | 149 | 162 | 175 | 187 | 217 |
| **4.29** | 43.9 | 50.5 | 57.0 | 63.3 | 71 | 78 | 86 | 96 | 104 | 114 | 124 | 134 | 147 | 160 | 172 | 185 | 197 | 228 |
| **4.48** | – | – | – | – | 49 | 58 | 66 | 77 | 85 | 95 | 106 | 116 | 129 | 141 | 154 | 167 | 180 | 210 |
| **4.55** | – | – | 44.8 | 51.7 | 59 | 68 | 76 | 86 | 94 | 104 | 114 | 125 | 137 | 150 | 163 | 175 | 188 | 218 |
| **4.78** | – | – | – | – | 49 | 58 | 67 | 77 | 85 | 96 | 106 | 117 | 129 | 142 | 155 | 168 | 180 | 211 |
| | **.81** | **.85** | **.87** | **.89** | **.91** | **.93** | **.95** | **.96** | **.98** | **.99** | **1.00** | **1.01** | **1.03** | **1.04** | **1.05** | **1.06** | **1.07** | **1.09** |
| **4.83** | – | – | 45.3 | 52.2 | 60 | 68 | 76 | 87 | 94 | 105 | 115 | 125 | 138 | 151 | 163 | 176 | 188 | 219 |
| **5.11** | – | – | 45.7 | 52.6 | 60 | 69 | 76 | 87 | 95 | 105 | 115 | 126 | 138 | 151 | 164 | 176 | 189 | 219 |
| **5.13** | – | – | – | – | 50 | 59 | 67 | 78 | 86 | 96 | 107 | 117 | 130 | 143 | 156 | 168 | 181 | 211 |
| **5.45** | – | – | – | – | 51 | 59 | 68 | 79 | 86 | 97 | 107 | 118 | 131 | 143 | 156 | 169 | 182 | 2120 |
| **5.76** | – | – | – | – | 51 | 60 | 68 | 79 | 87 | 97 | 108 | 118 | 131 | 144 | 157 | 169 | 182 | 212 |
| | – | – | **.79** | **.80** | **.82** | **.84** | **.87** | **.91** | **.93** | **.95** | **.97** | **.98** | **1.00** | **1.02** | **1.03** | **1.04** | **1.05** | **1.08** |

**Selection program available at www.ptwizard.com**

# Selection

## 3VX Basic Horsepower Ratings Δ

| Faster Shaft RPM | Rated HP per belt for Small Sheave O.D. of: | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2.2 | 2.65 | 2.8 | 3.0 | 3.15 | 3.35 | 3.65 | 4.12 | 4.5 | 4.75 | 5.0 |
| | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX |
| **575** | .55 | .83 | .92 | 1.04 | 1.13 | 1.25 | 1.43 | 1.72 | 1.94 | 2.09 | 2.24 |
| **690** | .64 | .97 | 1.08 | 1.22 | 1.33 | 1.48 | 1.69 | 2.02 | 2.29 | 2.47 | 2.64 |
| **725** | .66 | 1.01 | 1.13 | 1.28 | 1.39 | 1.54 | 1.77 | 2.12 | 2.40 | 2.58 | 2.76 |
| **870** | .77 | 1.18 | 1.32 | 1.50 | 1.63 | 1.81 | 2.08 | 2.49 | 2.82 | 3.04 | 3.26 |
| **950** | .83 | 1.28 | 1.42 | 1.62 | 1.77 | 1.96 | 2.25 | 2.70 | 3.06 | 3.29 | 3.52 |
| **1160** | .98 | 1.52 | 1.69 | 1.93 | 2.10 | 2.34 | 2.68 | 3.22 | 3.65 | 3.93 | 4.21 |
| **1425** | 1.16 | 1.81 | 2.02 | 2.31 | 2.52 | 2.80 | 3.22 | 3.86 | 4.38 | 4.72 | 5.06 |
| **1750** | 1.37 | 2.15 | 2.41 | 2.75 | 3.01 | 3.34 | 3.85 | 4.63 | 5.25 | 5.65 | 6.06 |
| **2850** | 2.00 | 3.21 | 3.61 | 4.14 | 4.53 | 5.05 | 5.82 | 6.99 | 7.92 | 8.53 | 9.12 |
| **3450** | 2.30 | 3.74 | 4.21 | 4.82 | 5.28 | 5.89 | 6.78 | 8.15 | 9.21 | 9.90 | 10.6 |
| **100** | .12 | .18 | .19 | .22 | .23 | .26 | .29 | .35 | .39 | .42 | .45 |
| **200** | .22 | .33 | .36 | .41 | .44 | .48 | .55 | .66 | .74 | .80 | .85 |
| **300** | .31 | .47 | .52 | .58 | .63 | .70 | .80 | .95 | 1.07 | 1.16 | 1.24 |
| **400** | .40 | .60 | .67 | .75 | .82 | .91 | 1.03 | 1.24 | 1.40 | 1.50 | 1.61 |
| **500** | .49 | .73 | .81 | .92 | 1.00 | 1.11 | 1.27 | 1.51 | 1.84 | 1.97 | 2.13 |
| **600** | .57 | .86 | .95 | 1.08 | 1.18 | 1.30 | 1.49 | 1.78 | 2.02 | 2.17 | 2.33 |
| **700** | .65 | .98 | 1.09 | 1.24 | 1.35 | 1.49 | 1.71 | 2.05 | 2.32 | 2.50 | 2.68 |
| **800** | .72 | 1.10 | 1.23 | 1.39 | 1.52 | 1.68 | 1.93 | 2.31 | 2.62 | 2.82 | 3.02 |
| **900** | .80 | 1.22 | 1.36 | 1.54 | 1.68 | 1.87 | 2.14 | 2.57 | 2.91 | 3.13 | 3.36 |
| **1000** | .87 | 1.34 | 1.49 | 1.69 | 1.85 | 2.05 | 2.35 | 2.82 | 3.20 | 3.45 | 3.69 |
| **1100** | .94 | 1.45 | 1.62 | 1.84 | 2.01 | 2.23 | 2.56 | 3.07 | 3.48 | 3.75 | 4.02 |
| **1200** | 1.01 | 1.56 | 1.74 | 1.99 | 2.17 | 2.41 | 2.76 | 3.32 | 3.76 | 4.05 | 4.34 |
| **1300** | 1.08 | 1.67 | 1.87 | 2.13 | 2.32 | 2.58 | 2.97 | 3.56 | 4.04 | 4.35 | 4.66 |
| **1400** | 1.14 | 1.78 | 1.99 | 2.27 | 2.48 | 2.75 | 3.17 | 3.80 | 4.32 | 4.65 | 4.98 |
| **1500** | 1.21 | 1.89 | 2.11 | 2.41 | 2.63 | 2.93 | 3.36 | 4.04 | 4.59 | 4.94 | 5.29 |
| **1600** | 1.27 | 1.99 | 2.23 | 2.55 | 2.78 | 3.09 | 3.56 | 4.28 | 4.85 | 5.23 | 5.60 |
| **1700** | 1.34 | 2.10 | 2.35 | 2.68 | 2.93 | 3.26 | 3.75 | 4.51 | 5.12 | 5.51 | 5.90 |
| **1800** | 1.40 | 2.20 | 2.47 | 2.82 | 3.08 | 3.43 | 3.94 | 4.74 | 5.38 | 5.79 | 6.21 |
| **1900** | 1.46 | 2.30 | 2.58 | 2.95 | 3.22 | 3 59 | 4 13 | 4.97 | 5.64 | 6.07 | 6.50 |
| **2000** | 1.52 | 2.40 | 2.70 | 3.08 | 3.37 | 3.75 | 4.32 | 5.19 | 5.89 | 6.34 | 6.79 |
| **2100** | 1.58 | 2.50 | 2.81 | 3.21 | 3.51 | 3.91 | 4.50 | 5.41 | 6.14 | 6.61 | 7.08 |
| **2200** | 1.64 | 2.60 | 2.92 | 3.34 | 3.65 | 4.07 | 4.68 | 5.63 | 6.39 | 6.88 | 7.37 |
| **2300** | 1.70 | 2.70 | 3.03 | 3.47 | 3.79 | 4.22 | 4.86 | 5.85 | 6.63 | 7.14 | 7.65 |
| **2400** | 1.75 | 2.80 | 3.14 | 3.59 | 3.93 | 4.38 | 5.04 | 6.06 | 6.88 | 7.40 | 7.92 |
| **2500** | 1.81 | 2.89 | 3.25 | 3.72 | 4.07 | 4.53 | 5.22 | 6.28 | 7.12 | 7.66 | 8.20 |
| **2600** | 1.87 | 2.98 | 3.35 | 3.84 | 4.20 | 4.68 | 5.39 | 6.48 | 7.35 | 7.91 | 8.47 |
| **2700** | 1.92 | 3.08 | 3.46 | 3.96 | 4.33 | 4.83 | 5.56 | 6.69 | 7.58 | 8.16 | 8.73 |
| **2800** | 1.97 | 3.17 | 3.56 | 4.08 | 4.47 | 4.98 | 5.73 | 6.89 | 7.81 | 8.40 | 8.99 |
| **2900** | 2.03 | 3.26 | 3.66 | 4.20 | 4.60 | 5.12 | 5.90 | 7.09 | 8.04 | 8.65 | 9.25 |
| **3000** | 2.08 | 3.35 | 3.76 | 4.31 | 4.72 | 5.26 | 6.06 | 7.29 | 8.26 | 8.88 | 9.50 |
| **3200** | 2.18 | 3.52 | 3.96 | 4.54 | 4.98 | 5.55 | 6.39 | 7.68 | 8.69 | 9.34 | 9.99 |
| **3400** | 2.28 | 3.69 | 4.16 | 4.77 | 5.22 | 5.82 | 6.71 | 8.05 | 9.11 | 9.79 | 10.5 |
| **3600** | 2.37 | 3.86 | 4.35 | 4.99 | 5.46 | 6.09 | 7.01 | 8.42 | 9.52 | 10.2 | 10.9 |
| **3800** | 2.47 | 4.02 | 4.53 | 5.20 | 5.70 | 6.35 | 7.31 | 8.77 | 9.91 | 10.6 | 11.3 |
| **4000** | 2.56 | 4.18 | 4.71 | 5.41 | 5.92 | 6.60 | 7.60 | 9.11 | 10.3 | 11.0 | 11.7 |
| **4200** | 2.64 | 4.33 | 4.89 | 5.61 | 6.15 | 6.85 | 7.88 | 9.44 | 10.6 | 11.4 | 12.1 |
| **4400** | 2.73 | 4.48 | 5.06 | 5.81 | 6.36 | 7.09 | 8.15 | 9.75 | 11.0 | 11.7 | 12.5 |
| **4600** | 2.81 | 4.63 | 5.22 | 6.00 | 6.57 | 7.32 | 8.41 | 10.0 | 11.3 | 12.1 | 12.8 |
| **4800** | 2.89 | 4.77 | 5.38 | 6.18 | 6.77 | 7.54 | 8.66 | 10.3 | 11.6 | 12.4 | 13.2 |
| **5000** | 2.96 | 4.90 | 5.53 | 6.36 | 6.96 | 7.75 | 8.90 | 10.6 | 11.9 | 12.7 | 13.5 |
| **5200** | 3.03 | 5.04 | 5.68 | 6.53 | 7.15 | 7.96 | 9.13 | 10.9 | 12.2 | 13.0 | 13.7 |
| **5400** | 3.10 | 5.16 | 5.83 | 6.69 | 7.33 | 8.15 | 9.35 | 11.1 | 12.4 | 13.2 | 14.0 |
| **5600** | 3.17 | 5.28 | 5.96 | 6.85 | 7.50 | 8.34 | 9.56 | 11.3 | 12.7 | 13.5 | 14.2 |
| **5800** | 3.23 | 5.40 | 6.10 | 7.00 | 7.66 | 8.52 | 9.76 | 11.5 | 12.9 | 13.7 | 14.4 |
| **6000** | 3.29 | 5.51 | 6.22 | 7.15 | 7.82 | 8.69 | 9.94 | 11.7 | 13.1 | 13.8 | 14.6 |
| **6200** | 3.35 | 5.62 | 6.34 | 7.28 | 7.97 | 8.85 | 10.1 | 11.9 | 13.2 | 14.0 | 14.7 |
| **6400** | 3.40 | 5.72 | 6.46 | 7.41 | 8.11 | 9.00 | 10.3 | 12.1 | 13.4 | 14.1 | 14.8 |
| **6600** | 3.45 | 5.82 | 6.57 | 7.54 | 8.24 | 9.14 | 10.4 | 12.2 | 13.5 | 14.2 | 14.9 |
| **6800** | 3.50 | 5.91 | 6.67 | 7.65 | 8.36 | 9.27 | 10.5 | 12.4 | 13.6 | 14.3 | 14.9 |
| **7000** | 3.54 | 5.99 | 6.77 | 7.76 | 8.48 | 9.40 | 10.7 | 12.5 | 13.7 | 14.4 | 15.5 |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require special sheaves.

TOTAL RATING = rated HP + "additional HP" listed on opposite page.

Δ Subject to Arc and Length Corrections Factors on page PT4-80.

# Selection

## 3VX Basic Horsepower Ratings Δ

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: | | | | | | | Additional HP per Belt for Speed Ratio of: ‡ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5.3 | 5.6 | 6.0 | 6.5 | 6.9 | 8.0 | 10.6 | 1.02 to 1.05 | 1.06 to 1.11 | 1.12 to 1.18 | 1.19 to 1.26 | 1.27 to 1.38 | 1.39 to 1.57 | 1.58 to 1.94 | 1.95 to 3.38 | 3.39 and up |
| | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | 3VX | | | | | | | | | |
| **575** | 2.41 | 2.59 | 2.82 | 3.11 | 3.34 | 3.97 | 5.42 | .01 | .02 | .04 | .06 | .07 | .09 | .10 | .11 | .11 |
| **690** | 2.85 | 3.06 | 3.33 | 3.67 | 3.95 | 4.69 | 6.39 | .01 | .03 | .05 | .07 | .09 | .10 | .11 | .12 | .13 |
| **725** | 2.98 | 3.20 | 3.49 | 3.84 | 4.13 | 4.90 | 6.69 | .01 | .03 | .05 | .07 | .09 | .11 | .12 | .13 | .14 |
| **870** | 3.51 | 3.77 | 4.11 | 4.53 | 4.87 | 5.78 | 7.87 | .01 | .03 | .06 | .09 | .11 | .13 | .14 | .16 | .17 |
| **950** | 3.80 | 4.08 | 4.45 | 4.91 | 5.27 | 6.25 | 8.51 | .01 | .04 | .07 | .10 | .12 | .14 | .16 | .17 | .18 |
| **1160** | 4.55 | 4.88 | 5.32 | 5.87 | 6.30 | 7.47 | 10.1 | .02 | .05 | .09 | .12 | .14 | .17 | .19 | .21 | .22 |
| **1425** | 5.46 | 5.86 | 6.38 | 7.03 | 7.55 | 8.94 | 12.0 | .02 | .06 | .11 | .15 | .18 | .21 | .24 | .26 | .28 |
| **1750** | 6.53 | 7.01 | 7.63 | 8.40 | 9.01 | 10.6 | 14.2 | .03 | .07 | .13 | .18 | .22 | .25 | .29 | .31 | .33 |
| **2850** | 9.82 | 10.5 | 11.4 | 12.5 | 13.3 | 15.5 | 19.6 | .04 | .12 | .22 | .30 | .36 | .42 | .48 | .52 | .55 |
| **3450** | 11.4 | 12.1 | 13.1 | 14.3 | 15.2 | 17.3 | 20.8 | .05 | .15 | .27 | .36 | .44 | .51 | .58 | .63 | .67 |
| **100** | .48 | .52 | .56 | .62 | .67 | .79 | 1.08 | .00 | .00 | .01 | .01 | .01 | .01 | .02 | .02 | .02 |
| **200** | .92 | .98 | 1.07 | 1.18 | 1.27 | 1.50 | 2.05 | .00 | .01 | .01 | .01 | .02 | .03 | .03 | .03 | .03 |
| **300** | 1.33 | 1.43 | 1.56 | 1.71 | 1.84 | 2.18 | 2.99 | .00 | .01 | .02 | .03 | .03 | .04 | .05 | .05 | .05 |
| **400** | 1.73 | 1.86 | 2.03 | 2.23 | 2.40 | 2.85 | 3.89 | .01 | .02 | .03 | .04 | .05 | .06 | .06 | .07 | .08 |
| **500** | 2.13 | 2.28 | 2.48 | 2.74 | 2.94 | 3.49 | 4.77 | .01 | .02 | .03 | .05 | .06 | .07 | .08 | .09 | .10 |
| **600** | 2.51 | 2.69 | 2.93 | 3.23 | 3.47 | 4.13 | 5.63 | .01 | .02 | .04 | .06 | .08 | .09 | .10 | .11 | .11 |
| **700** | 2.89 | 3.10 | 3.38 | 3.72 | 4.00 | 4.75 | 6.48 | .01 | .03 | .05 | .07 | .09 | .10 | .12 | .12 | .13 |
| **800** | 3.26 | 3.50 | 3.81 | 4.20 | 4.51 | 5.36 | 7.30 | .01 | .03 | .06 | .08 | .10 | .12 | .13 | .14 | .15 |
| **900** | 3.62 | 3.89 | 4.24 | 4.67 | 5.02 | 5.96 | 8.11 | .01 | .04 | .07 | .09 | .11 | .13 | .15 | .16 | .17 |
| **1000** | 3.98 | 4.27 | 4.66 | 5.14 | 5.52 | 6.55 | 8.90 | .01 | .04 | .08 | .10 | .12 | .15 | .17 | .18 | .19 |
| **1100** | 4.34 | 4.65 | 5.07 | 5.59 | 6.01 | 7.13 | 9.68 | .02 | .04 | .08 | .11 | .14 | .16 | .19 | .20 | .21 |
| **1200** | 4.69 | 5.03 | 5.48 | 6.04 | 6.49 | 7.69 | 10.4 | .02 | .05 | .09 | .12 | .15 | .18 | .20 | .22 | .23 |
| **1300** | 5.03 | 5.40 | 5.89 | 6.49 | 6.97 | 8.25 | 11.2 | .02 | .05 | .10 | .13 | .16 | .19 | .22 | .23 | .25 |
| **1400** | 5.37 | 5.77 | 6.29 | 6.93 | 7.43 | 8.80 | 11.9 | .02 | .06 | .11 | .14 | .18 | .21 | .23 | .26 | .27 |
| **1500** | 5.71 | 6.13 | 6.68 | 7.36 | 7.89 | 9.34 | 12.6 | .02 | .06 | .11 | .16 | .19 | .22 | .25 | .28 | .29 |
| **1600** | 6.04 | 6.48 | 7.06 | 7.78 | 8.35 | 9.87 | 13.3 | .02 | .07 | .12 | .17 | .20 | .24 | .27 | .29 | .31 |
| **1700** | 6.37 | 6.83 | 7.45 | 8.20 | 8.79 | 10.4 | 14.0 | .02 | .07 | .13 | .18 | .21 | .25 | .29 | .31 | .33 |
| **1800** | 6.70 | 7.18 | 7.82 | 8.61 | 9.23 | 10.9 | 14.5 | .03 | .08 | .13 | .19 | .23 | .27 | .30 | .33 | .34 |
| **1900** | 7.01 | 7.52 | 8.19 | 9.01 | 9.66 | 11.4 | 15.1 | .03 | .08 | .14 | .20 | .25 | .28 | .32 | .35 | .37 |
| **2000** | 7.33 | 7.86 | 8.55 | 9.41 | 10.1 | 11.9 | 15.7 | .03 | .09 | .15 | .21 | .25 | .30 | .33 | .37 | .39 |
| **2100** | 7.64 | 8.19 | 8.91 | 9.80 | 10.5 | 12.3 | 16.3 | .03 | .09 | .16 | .22 | .27 | .31 | .35 | .38 | .40 |
| **2200** | 7.94 | 8.51 | 9.26 | 10.2 | 11.0 | 12.8 | 16.8 | .03 | .10 | .17 | .23 | .28 | .33 | .37 | .40 | .43 |
| **2300** | 8.25 | 8.84 | 9.61 | 10.5 | 11.3 | 13.2 | 17.3 | .03 | .10 | .18 | .24 | .29 | .34 | .39 | .42 | .45 |
| **2400** | 8.54 | 9.15 | 9.95 | 10.9 | 11.7 | 13.7 | 17.8 | .03 | .11 | .19 | .25 | .30 | .36 | .40 | .44 | .47 |
| **2500** | 8.83 | 9.46 | 10.3 | 11.3 | 12.1 | 14.1 | 18.2 | .04 | .11 | .19 | .26 | .32 | .37 | .42 | .46 | .48 |
| **2600** | 9.12 | 9.77 | 10.6 | 11.6 | 12.4 | 14.5 | 18.6 | .04 | .11 | .20 | .27 | .33 | .39 | .44 | .48 | .50 |
| **2700** | 9.40 | 10.1 | 10.9 | 12.0 | 12.8 | 14.9 | 19.0 | .04 | .12 | .21 | .29 | .35 | .40 | .46 | .49 | .52 |
| **2800** | 9.68 | 10.4 | 11.2 | 12.3 | 13.1 | 15.3 | 19.4 | .04 | .13 | .21 | .29 | .36 | .42 | .47 | .51 | .54 |
| **2900** | 9.95 | 10.6 | 11.6 | 12.6 | 13.5 | 15.6 | 19.7 | .04 | .13 | .22 | .30 | .37 | .43 | .49 | .53 | .56 |
| **3000** | 10.2 | 10.9 | 11.8 | 13.0 | 13.8 | 16.0 | 20.0 | .04 | .13 | .23 | .31 | .38 | .45 | .50 | .55 | .58 |
| **3200** | 10.7 | 11.5 | 12.4 | 13.6 | 14.4 | 16.6 | 20.5 | .05 | .14 | .24 | .33 | .40 | .48 | .54 | .58 | .62 |
| **3400** | 11.2 | 12.0 | 13.0 | 14.1 | 15.0 | 17.2 | 20.8 | .05 | .15 | .26 | .36 | .43 | .50 | .57 | .62 | .66 |
| **3600** | 11.7 | 12.5 | 13.5 | 14.7 | 15.6 | 17.7 | 21.0 | .06 | .16 | .28 | .38 | .46 | .54 | .61 | .66 | .69 |
| **3800** | 12.2 | 12.9 | 14.0 | 15.2 | 16.1 | 18.2 | – | .06 | .17 | .29 | .40 | .48 | .57 | .64 | .69 | .74 |
| **4000** | 12.6 | 13.4 | 14.4 | 15.6 | 16.5 | 18.5 | – | .06 | .18 | .31 | .42 | .51 | .59 | .67 | .73 | .77 |
| **4200** | 13.0 | 13.8 | 14.8 | 16.0 | 16.9 | 18.8 | – | .07 | .19 | .32 | .44 | .54 | .63 | .71 | .77 | .82 |
| **4400** | 13.4 | 14.2 | 15.2 | 16.4 | 17.2 | 19.0 | – | .07 | .21 | .34 | .46 | .56 | .66 | .74 | .81 | .85 |
| **4600** | 13.7 | 14.5 | 15.6 | 16.7 | 17.5 | 19.1 | – | .07 | .21 | .36 | .47 | .58 | .68 | .77 | .84 | .89 |
| **4800** | 14.1 | 14.8 | 15.8 | 17.0 | 17.7 | 19.2 | – | .08 | .21 | .37 | .50 | .61 | .72 | .81 | .88 | .93 |
| **5000** | 14.3 | 15.1 | 16.1 | 17.2 | 17.9 | – | – | .08 | .22 | .39 | .53 | .64 | .75 | .83 | .92 | .97 |
| **5200** | 14.6 | 15.4 | 16.3 | 17.4 | 18.0 | – | – | .08 | .23 | .40 | .55 | .66 | .77 | .87 | .95 | 1.01 |
| **5400** | 14.8 | 15.6 | 16.5 | 17.4 | 18.0 | – | – | .09 | .24 | .41 | .57 | .69 | .81 | .91 | .99 | 1.05 |
| **5600** | 15.1 | 15.8 | 16.7 | 17.5 | – | – | – | .09 | .25 | .44 | .61 | .73 | .85 | .94 | 1.05 | 1.11 |
| **5800** | 15.2 | 15.9 | 16.7 | 17.5 | – | – | – | .09 | .26 | .45 | .61 | .74 | .86 | .97 | 1.06 | 1.13 |
| **6000** | 15.4 | 16.0 | 16.8 | – | – | – | – | .10 | .27 | .47 | .64 | .78 | .91 | 1.03 | 1.12 | 1.19 |
| **6200** | 15.5 | 16.1 | 16.8 | – | – | – | – | .10 | .28 | .47 | .66 | .81 | .94 | 1.06 | 1.16 | 1.21 |
| **6400** | 15.5 | 16.1 | 16.7 | – | – | – | – | .10 | .28 | .49 | .67 | .81 | .94 | 1.08 | 1.17 | 1.24 |
| **6600** | 15.6 | 16.1 | – | – | – | – | – | .11 | .29 | .51 | .69 | .84 | .99 | 1.11 | 1.18 | 1.29 |
| **6800** | 15.6 | 16.0 | – | – | – | – | – | .11 | .30 | .52 | .72 | .87 | 1.01 | 1.14 | 1.25 | 1.29 |
| **7000** | 15.5 | – | – | – | – | – | – | .11 | .31 | .52 | .74 | .89 | 1.04 | 1.18 | 1.29 | 1.36 |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.
TOTAL RATING = rated HP + "additional HP" from right hand column.
‡ Additional HP below 1.02 ratio equals zero.
Δ Subject to Arc and Length Corrections Factors on page PT4-80.

**Selection program available at www.ptwizard.com**

# Selection

## 5VX 5V Basic Horsepower Ratings Δ

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4.4 | 4.65 | 4.9 | 5.5 | 6.3 | 6.7 | 7.1 | | 7.5 | | 8.0 | | 8.5 | | 9.0 | | 9.25 | | 9.75 | | 10.3 | |
| | 5VX | | | | | | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V |
| **435** | 2.57 | 2.90 | 3.22 | 3.99 | 5.01 | 5.52 | 6.03 | 4.99 | 6.53 | 5.48 | 7.16 | 6.10 | 7.78 | 6.72 | 8.40 | 7.33 | 8.71 | 7.64 | 9.32 | 8.25 | 10.0 | 8.91 |
| **485** | 2.82 | 3.18 | 3.54 | 4.40 | 5.53 | 6.09 | 6.65 | 5.48 | 7.20 | 6.03 | 7.90 | 6.71 | 8.58 | 7.39 | 9.27 | 8.07 | 9.61 | 8.41 | 10.3 | 9.08 | 11.0 | 9.81 |
| **585** | 3.27 | 3.69 | 4.11 | 5.11 | 6.43 | 7.09 | 7.87 | 6.44 | 8.53 | 7.09 | 9.35 | 7.91 | 10.2 | 8.71 | 11.0 | 9.51 | 11.4 | 9.91 | 12.2 | 10.7 | 13.1 | 11.6 |
| **690** | 3.82 | 4.32 | 4.81 | 6.00 | 7.57 | 8.34 | 9.12 | 7.42 | 9.88 | 8.17 | 10.8 | 9.12 | 11.8 | 10.0 | 12.7 | 11.0 | 13.2 | 11.4 | 14.1 | 12.4 | 152 | 13.4 |
| **725** | 3.98 | 4.50 | 5.02 | 6.27 | 7.90 | 8.72 | 9.53 | 7.74 | 10.3 | 8.53 | 11.3 | 9.51 | 12.3 | 10.5 | 13.3 | 11.4 | 13.8 | 11.9 | 14.8 | 12.9 | 15.8 | 13.9 |
| **870** | 4.64 | 5.26 | 5.88 | 7.35 | 9.28 | 10.24 | 11.2 | 9.02 | 12.1 | 9.95 | 13.3 | 11.1 | 14.5 | 12.2 | 15.7 | 13.4 | 16.2 | 13.9 | 17.4 | 15.1 | 18.6 | 16.3 |
| **950** | 5.00 | 5.67 | 6.34 | 7.93 | 10.03 | 11.07 | 12.1 | 9.70 | 13.1 | 10.7 | 14.4 | 11.9 | 15.6 | 13.2 | 16.9 | 14.4 | 17.6 | 15.0 | 18.8 | 16.2 | 20.1 | 17.5 |
| **1160** | 5.90 | 6.71 | 7.51 | 9.42 | 11.93 | 13.17 | 14.4 | 11.4 | 15.6 | 12.6 | 17.1 | 14.1 | 18.6 | 15.5 | 20.1 | 16.9 | 20.9 | 17.7 | 22.3 | 19.0 | 23.9 | 20.6 |
| **1425** | 6.98 | 7.95 | 8.92 | 11.21 | 14.23 | 15.71 | 17.2 | 13.4 | 18.6 | 14.8 | 20.4 | 16.5 | 22.2 | 182 | 24.0 | 19.9 | 24.9 | 20.7 | 26.6 | 22.3 | 28.5 | 24.1 |
| **1750** | 8.23 | 9.40 | 10.55 | 13.30 | 16.89 | 18.66 | 20.4 | 15.6 | 22.1 | 17.2 | 24.3 | 19.2 | 26.3 | 21.1 | 28.4 | 23.0 | 29.4 | 23.9 | 31.4 | 25.8 | 33.6 | 27.7 |
| **2850** | 11.86 | 13.62 | 15.35 | 19.42 | 24.64 | 27.15 | 29.6 | 20.5 | 32.0 | 22.5 | 34.8 | 24.9 | 37.6 | 27.0 | 40.2 | 29.0 | 41.5 | 29.9 | 43.9 | 31.6 | 46.5 | 33.2 |
| **3450** | 13.45 | 15.47 | 17.46 | 22.09 | 27.93 | 30.69 | 33.3 | 21.3 | 35.9 | 23.2 | 38.9 | 25.3 | 41.7 | 27.1 | 44.3 | 28.6 | 45.5 | 29.2 | 47.7 | 30.1 | 49.9 | 30.7 |
| **100** | 0.71 | 0.79 | 0.87 | 1.07 | 1.33 | 1.45 | 1.58 | 1.36 | 1.71 | 1.48 | 1.87 | 1.64 | 2.02 | 1.80 | 2.18 | 1.96 | 2.26 | 2.04 | 2.42 | 2.19 | 2.59 | 2.36 |
| **200** | 1.31 | 1.47 | 1.62 | 2.00 | 2.49 | 2.73 | 2.98 | 2.52 | 3.2 | 2.76 | 3.53 | 3.06 | 3.83 | 3.36 | 4.13 | 3.66 | 4.28 | 3.81 | 4.58 | 4.11 | 4.91 | 4.44 |
| **300** | 1.86 | 2.09 | 2.32 | 2.87 | 3.59 | 3.95 | 4.31 | 3.60 | 4.6 | 3.96 | 5.11 | 4.40 | 5.55 | 4.83 | 5.99 | 5.27 | 6.21 | 5.49 | 6.64 | 5.92 | 7.12 | 6.39 |
| **400** | 2.39 | 2.69 | 2.99 | 3.71 | 4.65 | 5.12 | 5.59 | 4.63 | 6.0 | 5.10 | 6.63 | 5.67 | 7.21 | 6.24 | 7.78 | 6.81 | 8.07 | 7.09 | 8.64 | 7.65 | 9.26 | 8.27 |
| **500** | 2.90 | 3.27 | 3.64 | 4.52 | 5.68 | 6.26 | 6.83 | 5.63 | 7.4 | 6.19 | 8.12 | 6.90 | 8.82 | 7.59 | 9.53 | 8.29 | 9.88 | 8.64 | 10.6 | 9.33 | 11.3 | 10.1 |
| **600** | 3.39 | 3.83 | 4.26 | 5.31 | 6.68 | 7.37 | 8.05 | 6.58 | 8.7 | 7.25 | 9.56 | 8.08 | 10.4 | 8.91 | 112 | 9.72 | 11.6 | 10.1 | 12.5 | 10.9 | 13.4 | 11.8 |
| **700** | 3.86 | 4.37 | 4.87 | 6.08 | 7.66 | 8.45 | 9.23 | 7.51 | 10.0 | 8.28 | 11.0 | 9.23 | 11.9 | 10.2 | 12.9 | 11.1 | 13.4 | 11.6 | 14.3 | 12.5 | 15.4 | 13.5 |
| **800** | 4.33 | 4.90 | 5.47 | 6.83 | 8.62 | 9.51 | 10.4 | 8.41 | 11.3 | 9.27 | 12.4 | 10.3 | 13.4 | 11.4 | 14.5 | 12.5 | 15.1 | 13.0 | 16.1 | 14.0 | 17.3 | 15.2 |
| **900** | 4.78 | 5.41 | 6.05 | 7.57 | 9.56 | 10.55 | 11.5 | 9.28 | 12.5 | 10.2 | 13.7 | 11.4 | 14.9 | 12.6 | 16.1 | 13.8 | 16.7 | 14.3 | 17.9 | 15.5 | 19.2 | 16.7 |
| **1000** | 5.22 | 5.92 | 6.62 | 8.29 | 10.49 | 11.57 | 12.7 | 10.1 | 13.7 | 11.2 | 15.1 | 12.5 | 16.4 | 13.7 | 17.7 | 15.0 | 18.4 | 15.6 | 19.6 | 16.9 | 21.1 | 18.3 |
| **1100** | 5.65 | 6.41 | 7.18 | 9.00 | 11.39 | 12.58 | 13.7 | 10.9 | 14.9 | 12.1 | 16.4 | 13.5 | 17.8 | 14.9 | 19.2 | 16.2 | 19.9 | 16.9 | 21.3 | 18.3 | 22.9 | 19.7 |
| **1200** | 3.07 | 6.90 | 7.72 | 9.69 | 12.28 | 13.56 | 14.8 | 11.7 | 16.1 | 12.9 | 17.6 | 14.5 | 1.92 | 15.9 | 20.7 | 17.4 | 21.5 | 18.1 | 23.0 | 19.6 | 24.6 | 21.1 |
| **1300** | 6.48 | 7.37 | 8.26 | 10.36 | 13.16 | 14.53 | 15.9 | 12.5 | 17.2 | 13.8 | 18.9 | 15.4 | 20.6 | 17.0 | 22.2 | 18.5 | 23.0 | 19.3 | 24.6 | 20.8 | 26.4 | 22.5 |
| **1400** | 6.88 | 7.84 | 8.79 | 11.05 | 14.01 | 15.48 | 16.9 | 1.32 | 18.4 | 14.6 | 20.1 | 16.3 | 21.9 | 18.0 | 23.6 | 19.6 | 24.5 | 20.4 | 262 | 22.0 | 28.1 | 23.8 |
| **1500** | 7.28 | 8.29 | 9.30 | 11.71 | 14.86 | 16.41 | 17.9 | 13.9 | 19.5 | 15.4 | 21.3 | 17.2 | 23.2 | 18.9 | 25.1 | 20.7 | 25.9 | 21.5 | 27.7 | 23.2 | 29.7 | 25.0 |
| **1600** | 7.66 | 8.74 | 9.81 | 12.35 | 15.68 | 17.32 | 18.9 | 14.6 | 20.5 | 1.62 | 22.5 | 18.0 | 24.5 | 19.8 | 26.4 | 21.6 | 27.4 | 22.5 | 29.3 | 24.3 | 31.3 | 26.1 |
| **1700** | 8.04 | 9.18 | 10.31 | 12.99 | 16.50 | 18.22 | 19.9 | 15.3 | 21.6 | 16.9 | 23.7 | 18.8 | 25.7 | 20.7 | 27.7 | 22.6 | 28.7 | 23.5 | 30.7 | 25.3 | 32.8 | 27.2 |
| **1800** | 8.42 | 9.61 | 10.80 | 13.61 | 17.29 | 19.10 | 20.8 | 15.9 | 22.6 | 17.6 | 24.8 | 19.6 | 26.9 | 21.5 | 29.1 | 23.5 | 30.1 | 24.4 | 32.1 | 26.2 | 34.3 | 28.2 |
| **1900** | 8.78 | 10.03 | 11.28 | 14.22 | 18.07 | 19.96 | 21.8 | 16.5 | 23.6 | 1.82 | 25.9 | 20.3 | 28.1 | 22.3 | 30.3 | 24.3 | 31.4 | 25.3 | 33.5 | 27.1 | 35.8 | 29.1 |
| **2000** | 9.14 | 10.45 | 11.74 | 14.82 | 18.33 | 20.80 | 22.7 | 17.1 | 24.6 | 18.8 | 27.0 | 21.0 | 29.3 | 23.1 | 31.5 | 25.1 | 32.6 | 26.0 | 34.8 | 27.9 | 37.2 | 29.9 |
| **2100** | 9.48 | 10.85 | 12.20 | 15.41 | 19.58 | 21.62 | 23.6 | 17.6 | 25.6 | 19.4 | 28.0 | 21.6 | 30.4 | 23.7 | 32.7 | 25.8 | 33.9 | 26.8 | 36.1 | 28.7 | 38.5 | 30.7 |
| **2200** | 9.83 | 11.25 | 12.66 | 15.99 | 20.31 | 22.43 | 24.5 | 18.1 | 26.5 | 20.0 | 29.0 | 22.2 | 31.5 | 24.4 | 33.9 | 26.4 | 35.0 | 27.4 | 37.3 | 29.3 | 39.7 | 31.3 |
| **2300** | 10.16 | 11.64 | 13.10 | 16.55 | 21.03 | 23.21 | 25.3 | 18.6 | 27.5 | 20.5 | 30.0 | 22.8 | 32.5 | 24.9 | 35.0 | 27.0 | 36.2 | 28.0 | 36.5 | 29.9 | 30.9 | 31.9 |
| **2400** | 10.49 | 12.01 | 13.53 | 17.10 | 21.72 | 23.97 | 26.2 | 19.0 | 28.3 | 20.9 | 31.0 | 23.3 | 33.5 | 25.5 | 36.0 | 27.5 | 37.2 | 28.5 | 39.6 | 30.4 | 42.1 | 32.4 |
| **2500** | 10.81 | 12.39 | 13.95 | 17.64 | 22.40 | 24.72 | 27.0 | 19.4 | 29.2 | 21.4 | 31.9 | 23.7 | 34.5 | 25.9 | 37.0 | 28.0 | 38.3 | 29.0 | 40.7 | 30.9 | 43.2 | 32.7 |
| **2600** | 11.12 | 12.75 | 14.36 | 18.16 | 23.06 | 25.44 | 27.7 | 19.8 | 30.0 | 21.7 | 32.8 | 24.1 | 35.5 | 26.3 | 38.0 | 28.4 | 39.3 | 29.4 | 41.7 | 31.2 | 44.2 | 33.0 |
| **2700** | 11.42 | 13.10 | 14.77 | 18.68 | 23.71 | 26.14 | 28.5 | 20.1 | 30.8 | 22.1 | 33.6 | 24.5 | 36.4 | 26.7 | 39.0 | 28.7 | 40.2 | 29.7 | 42.6 | 31.4 | 45.2 | 33.2 |
| **2800** | 11.72 | 13.45 | 15.16 | 19.18 | 24.33 | 26.82 | 29.2 | 20.4 | 31.6 | 22.4 | 34.5 | 24.8 | 37.2 | 26.9 | 39.8 | 28.9 | 41.1 | 29.9 | 43.5 | 31.6 | 46.1 | 33.3 |
| **2900** | 12.00 | 13.78 | 15.54 | 19.66 | 24.94 | 27.48 | 29.9 | 20.6 | 32.3 | 22.6 | 35.2 | 25.0 | 38.0 | 27.2 | 40.6 | 29.1 | 41.9 | 30.0 | 44.4 | 31.6 | 46.9 | 33.2 |
| **3000** | 12.28 | 14.11 | 15.91 | 20.14 | 25.53 | 28.12 | 30.6 | 20.8 | 33.1 | 22.8 | 36.0 | 25.2 | 38.8 | 27.3 | 41.4 | 29.2 | 42.7 | 30.1 | 45.1 | 31.6 | 47.6 | 33.0 |
| **3100** | 12.56 | 14.43 | 16.28 | 20.60 | 26.10 | 28.73 | 31.3 | 21.0 | 33.7 | 23.0 | 36.7 | 25.3 | 39.5 | 27.4 | 42.1 | 29.2 | 43.4 | 30.0 | 45.8 | 31.5 | 48.3 | 32.7 |
| **3200** | 12.82 | 14.74 | 16.63 | 21.04 | 26.65 | 29.32 | 31.9 | 21.1 | 34.4 | 23.1 | 37.3 | 25.4 | 40.2 | 2.74 | 42.8 | 29.1 | 41.1 | 29.9 | 46.5 | 31.2 | 48.8 | 32.3 |
| **3300** | 13.08 | 15.04 | 16.97 | 21.47 | 27.17 | 29.88 | 32.5 | 21.2 | 35.0 | 23.2 | 38.0 | 25.4 | 40.8 | 27.3 | 43.4 | 29.0 | 44.7 | 29.7 | 47.1 | 30.9 | 49.4 | 31.8 |
| **3400** | 13.33 | 15.33 | 17.30 | 21.89 | 27.68 | 30.43 | 33.1 | 21.3 | 35.6 | 23.2 | 38.6 | 25.3 | 41.4 | 27.2 | 44.1 | 28.7 | 45.2 | 29.4 | 47.5 | 30.4 | 49.8 | 31.1 |
| **3500** | 13.57 | 15.61 | 17.62 | 22.29 | 28.17 | 30.94 | 33.6 | 21.3 | 36.1 | 23.2 | 39.1 | 25.2 | 41.9 | 27.0 | 44.5 | 28.4 | 45.7 | 28.9 | 47.9 | 29.8 | 50.1 | 30.3 |
| **3600** | 13.80 | 15.88 | 17.93 | 22.68 | 28.63 | 31.43 | 34.1 | 21.2 | 36.6 | 23.1 | 39.6 | 25.1 | 42.4 | 26.7 | 45.0 | 27.9 | 46.1 | 28.4 | 48.3 | 29.1 | 50.4 | 29.4 |
| **3700** | 14.02 | 16.14 | 18.23 | 23.05 | 29.07 | 31.90 | 34.6 | 21.1 | 37.1 | 23.0 | 40.1 | 24.8 | 42.8 | 26.3 | 45.3 | 27.4 | 46.5 | 27.8 | 48.5 | 27.3 | 50.5 | 28.3 |
| **3800** | 14.23 | 16.40 | 18.51 | 23.41 | 29.49 | 32.33 | 35.0 | 21.0 | 37.6 | 22.7 | 40.5 | 24.5 | 43.2 | 25.8 | 45.7 | 26.3 | 46.8 | 27.1 | 48.7 | 27.4 | – | – |
| **3900** | 14.44 | 16.64 | 18.79 | 23.75 | 29.89 | 32.74 | 35.4 | 20.7 | 38.0 | 22.4 | 40.9 | 24.1 | 43.5 | 25.3 | 45.9 | 26.1 | 47.0 | 26.3 | 48.9 | 26.3 | – | – |
| **4000** | 14.64 | 16.87 | 19.05 | 24.07 | 30.26 | 33.13 | 35.8 | 20.5 | 38.3 | 22.1 | 41.2 | 23.6 | 43.8 | 24.7 | 46.1 | 25.3 | 47.1 | 25.3 | – | – | – | – |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT4-80.

**Selection program available at www.ptwizard.com**

# Selection

## 5VX 5V Basic Horsepower Ratings Δ

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: | | | | | | | | | | | | | | Additional HP per Belt for Speed Ratio of: ‡ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10.9 | | 11.8 | | 12.5 | | 13.2 | | 14.0 | | 15.0 | | 16.0 | | 1.02 to 1.05 | 1.06 to 1.11 | 1.12 to 1.18 | 1.19 to 1.26 | 1.27 to 1.38 | 1.39 to 1.57 | 1.58 to 1.94 | 1.95 to 3.38 | 3.39 and up |
| | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V | 5VX | 5V | | | | | | | | | |
| **435** | 10.7 | 9.64 | 11.8 | 10.7 | 12.7 | 11.5 | 13.5 | 12.4 | 14.5 | 13.3 | 15.6 | 14.5 | 16.8 | 15.6 | .03 | .10 | .17 | .24 | .29 | .34 | .38 | .41 | .44 |
| **485** | 11.8 | 10.6 | 13.1 | 11.8 | 14.0 | 12.7 | 14.9 | 13.6 | 16.0 | 14.6 | 17.3 | 15.9 | 18.6 | 17.2 | .04 | .11 | .19 | .26 | .32 | .38 | .43 | .46 | .49 |
| **585** | 14.0 | 12.5 | 15.5 | 13.9 | 16.6 | 15.0 | 17.7 | 16.1 | 18.9 | 17.3 | 20.4 | 18.8 | 22.0 | 20.2 | .05 | .13 | .24 | .31 | .39 | .46 | .51 | .56 | .59 |
| **690** | 16.3 | 14.4 | 17.9 | 16.0 | 19.2 | 17.3 | 20.5 | 18.5 | 21.9 | 19.9 | 23.7 | 21.6 | 25.4 | 23.3 | .06 | .16 | .27 | .38 | .46 | .54 | .61 | .66 | .70 |
| **725** | 17.0 | 15.1 | 18.8 | 16.7 | 20.1 | 18.0 | 21.4 | 19.3 | 22.9 | 20.7 | 24.7 | 22.5 | 26.6 | 24.3 | .06 | .17 | .29 | .40 | .48 | .56 | .63 | .69 | .72 |
| **870** | 20.0 | 17.6 | 22.0 | 19.5 | 23.6 | 21.0 | 25.1 | 22.5 | 26.9 | 24.1 | 29.0 | 26.2 | 31.1 | 28.1 | .07 | .20 | .35 | .46 | .58 | .67 | .77 | .83 | .88 |
| **950** | 21.6 | 18.9 | 23.8 | 21.0 | 25.5 | 22.6 | 27.1 | 24.2 | 28.9 | 25.9 | 31.3 | 28.0 | 33.5 | 30.1 | .08 | .22 | .38 | .52 | .63 | .74 | .83 | .91 | .96 |
| **1160** | 25.7 | 22.2 | 28.2 | 24.6 | 30.2 | 26.4 | 32.1 | 28.2 | 34.3 | 30.2 | 36.9 | 32.5 | 39.5 | 34.8 | .10 | .26 | .47 | .63 | .77 | .90 | 1.02 | 1.11 | 1.17 |
| **1425** | 30.5 | 25.9 | 33.5 | 28.6 | 35.7 | 30.6 | 37.9 | 32.6 | 40.4 | 34.7 | 43.4 | 37.2 | 46.2 | 39.5 | .12 | .33 | .57 | .78 | .95 | 1.11 | 1.24 | 1.35 | 1.45 |
| **1750** | 35.9 | 29.7 | 39.3 | 32.6 | 41.8 | 34.7 | 44.2 | 36.7 | 46.9 | 38.7 | 50.1 | 41.1 | 53.0 | 43.1 | .15 | .40 | .70 | .96 | 1.17 | 1.37 | 1.50 | 1.68 | 1.77 |
| **2850** | 49.0 | 34.7 | 52.5 | 36.2 | 54.8 | 6.9 | 56.8 | 37.0 | – | – | – | – | – | – | .24 | .66 | 1.15 | 1.56 | 1.80 | 2.22 | 2.50 | 2.73 | 2.89 |
| **3450** | 52.0 | 30.9 | – | – | – | – | – | – | – | – | – | – | – | – | .29 | .80 | 1.39 | 1.90 | 2.20 | 2.69 | 3.03 | 3.30 | 3.50 |
| **100** | 2.77 | 2.55 | 3.05 | 2.83 | 3.27 | 3.04 | 3.48 | 3.26 | 3.73 | 3.50 | 4.03 | 3.80 | 4.33 | 4.11 | .01 | .02 | .04 | .05 | .07 | .08 | .09 | .09 | .10 |
| **200** | 5.26 | 4.79 | 5.80 | 5.32 | 6.21 | 5.73 | 6.62 | 6.14 | 7.09 | 6.60 | 7.67 | 7.18 | 8.25 | 7.75 | .01 | .04 | .08 | .11 | .13 | .16 | .17 | .19 | .20 |
| **300** | 7.64 | 6.91 | 8.42 | 7.68 | 9.02 | 8.27 | 9.62 | 8.86 | 10.3 | 9.54 | 11.1 | 10.37 | 12.0 | 11.2 | .02 | .07 | .12 | .16 | .20 | .23 | .26 | .29 | .30 |
| **400** | 9.94 | 8.94 | 10.9 | 9.94 | 11.7 | 10.7 | 12.5 | 11.5 | 13.4 | 12.3 | 14.5 | 13.4 | 15.6 | 14.5 | .03 | .09 | .16 | .22 | .26 | .31 | .35 | .38 | .40 |
| **500** | 12.2 | 10.9 | 13.4 | 12.1 | 14.4 | 13.0 | 15.3 | 14.0 | 16.4 | 15.0 | 17.7 | 16.3 | 19.1 | 17.7 | .04 | .11 | .20 | .27 | .33 | .39 | .44 | .46 | .50 |
| **600** | 14.3 | 12.8 | 15.8 | 14.2 | 16.9 | 15.3 | 18.1 | 16.4 | 19.3 | 17.6 | 20.9 | 19.2 | 22.5 | 20.7 | .05 | .14 | .24 | .33 | .40 | .47 | .53 | .57 | .61 |
| **700** | 16.5 | 14.6 | 18.2 | 16.2 | 19.5 | 17.5 | 20.7 | 18.7 | 22.2 | 20.1 | 24.0 | 21.8 | 25.8 | 23.6 | .06 | .16 | .28 | .38 | .47 | .55 | .62 | .67 | .71 |
| **800** | 18.6 | 16.4 | 20.5 | 18.2 | 21.9 | 19.6 | 23.3 | 21.0 | 24.9 | 22.5 | 27.0 | 24.4 | 28.9 | 26.1 | .07 | .18 | .32 | .44 | .53 | .62 | .70 | .77 | .81 |
| **900** | 20.6 | 18.1 | 22.7 | 20.1 | 24.3 | 21.6 | 25.9 | 23.1 | 27.7 | 24.8 | 29.9 | 26.9 | 32.0 | 28.9 | .08 | .21 | .36 | .49 | .60 | .70 | .79 | .86 | .91 |
| **1000** | 22.6 | 19.7 | 24.9 | 21.9 | 26.6 | 23.5 | 28.3 | 25.2 | 30.3 | 27.0 | 32.7 | 29.2 | 35.0 | 31.3 | .08 | .23 | .39 | .55 | .66 | .78 | .87 | .95 | 1.01 |
| **1100** | 24.5 | 21.3 | 27.0 | 23.6 | 28.9 | 25.3 | 30.7 | 27.1 | 32.8 | 29.0 | 35.4 | 31.3 | 37.8 | 33.6 | .09 | .25 | .44 | .60 | .73 | .86 | .96 | 1.05 | 1.11 |
| **1200** | 26.4 | 22.8 | 29.0 | 25.3 | 31.1 | 27.1 | 33.0 | 28.9 | 35.2 | 30.9 | 37.9 | 33.3 | 40.6 | 35.6 | .10 | .27 | .48 | .66 | .80 | .93 | 1.05 | 1.15 | 1.22 |
| **1300** | 28.3 | 24.2 | 31.1 | 26.8 | 33.2 | 28.7 | 35.3 | 30.6 | 37.6 | 32.7 | 40.4 | 35.2 | 43.2 | 37.5 | .11 | .30 | .52 | .71 | .86 | 1.01 | 1.14 | 1.24 | 1.32 |
| **1400** | 30.1 | 25.6 | 33.0 | 28.3 | 35.2 | 30.3 | 37.4 | 32.2 | 39.8 | 34.3 | 42.8 | 36.8 | 45.6 | 39.2 | .11 | .32 | .56 | .77 | .93 | 1.09 | 1.23 | 1.34 | 1.42 |
| **1500** | 31.8 | 26.9 | 34.9 | 29.6 | 37.2 | 31.7 | 39.5 | 33.6 | 42.0 | 35.8 | 45.0 | 38.3 | 47.9 | 40.6 | .12 | .34 | .61 | .82 | 1.00 | 1.18 | 1.32 | 1.44 | 1.52 |
| **1600** | 33.5 | 28.1 | 36.7 | 30.9 | 39.1 | 33.0 | 41.4 | 34.9 | 44.0 | 37.1 | 47.1 | 39.6 | 50.1 | 41.8 | .13 | .37 | .64 | .88 | 1.07 | 1.25 | 1.40 | 1.53 | 1.62 |
| **1700** | 35.1 | 29.2 | 38.4 | 32.1 | 40.9 | 34.1 | 43.3 | 36.1 | 46.0 | 38.2 | 49.1 | 40.6 | 52.1 | 42.7 | .14 | .39 | .69 | .93 | 1.13 | 1.32 | 1.49 | 1.61 | 1.72 |
| **1800** | 36.7 | 30.2 | 40.1 | 33.1 | 42.6 | 35.2 | 45.1 | 37.2 | 47.8 | 39.2 | 51.0 | 41.5 | 53.9 | 43.4 | .15 | .41 | .72 | .99 | 1.20 | 1.40 | 1.58 | 1.72 | 1.83 |
| **1900** | 38.2 | 31.2 | 41.7 | 34.0 | 44.3 | 36.1 | 46.8 | 38.0 | 49.5 | 40.0 | 52.7 | 42.1 | 55.6 | 43.9 | .16 | .44 | .77 | 1.04 | 1.26 | 1.48 | 1.67 | 1.82 | 1.93 |
| **2000** | 39.6 | 32.0 | 43.2 | 34.8 | 45.8 | 36.9 | 48.3 | 38.7 | 51.1 | 40.6 | 54.2 | 42.5 | 57.1 | 44.0 | .17 | .46 | .80 | 1.10 | 1.33 | 1.56 | 1.77 | 1.92 | 2.03 |
| **2100** | 41.0 | 32.7 | 44.6 | 35.5 | 47.3 | 37.5 | 49.8 | 39.2 | 52.5 | 40.9 | 55.6 | 42.7 | 58.3 | 43.8 | .18 | .48 | .85 | 1.15 | 1.40 | 1.64 | 1.85 | 2.01 | 2.13 |
| **2200** | 42.3 | 33.4 | 46.0 | 36.1 | 48.6 | 38.0 | 51.1 | 39.6 | 53.8 | 41.1 | 56.8 | 42.5 | 59.4 | 43.4 | .18 | .51 | .89 | 1.21 | 1.47 | 1.71 | 1.93 | 2.10 | 2.23 |
| **2300** | 43.6 | 33.9 | 47.2 | 36.5 | 49.9 | 38.3 | 52.4 | 39.7 | 55.0 | 41.1 | 57.8 | 42.1 | 60.3 | 42.6 | .19 | .52 | .93 | 1.26 | 1.53 | 1.79 | 2.02 | 2.20 | 2.33 |
| **2400** | 44.7 | 34.3 | 48.4 | 36.8 | 51.0 | 38.4 | 53.5 | 39.7 | 56.0 | 40.8 | 58.7 | 41.5 | 61.0 | 41.4 | .20 | .55 | .96 | 1.32 | 1.60 | 1.87 | 2.11 | 2.30 | 2.44 |
| **2500** | 45.8 | 34.6 | 49.5 | 36.9 | 52.1 | 38.4 | 54.4 | 39.5 | 56.8 | 40.3 | 59.4 | 40.5 | – | – | .21 | .57 | 1.01 | 1.38 | 1.67 | 1.95 | 2.20 | 2.39 | 2.54 |
| **2600** | 46.8 | 34.8 | 50.5 | 36.9 | 53.0 | 38.2 | 55.3 | 39.0 | 57.6 | 39.5 | – | – | – | – | .22 | .60 | 1.05 | 1.43 | 1.73 | 2.03 | 2.29 | 2.49 | 2.64 |
| **2700** | 47.8 | 34.9 | 51.3 | 36.8 | 53.8 | 37.8 | 56.0 | 38.4 | 58.1 | 38.5 | – | – | – | – | .23 | .62 | 1.09 | 1.48 | 1.80 | 2.11 | 2.37 | 2.59 | 2.74 |
| **2800** | 48.6 | 34.8 | 52.1 | 36.4 | 54.5 | 37.2 | 56.5 | 37.5 | – | – | – | – | – | – | .24 | .64 | 1.13 | 1.59 | 1.86 | 2.18 | 2.46 | 2.68 | 2.84 |
| **2900** | 49.4 | 34.6 | 52.8 | 35.9 | 55.0 | 36.4 | 56.9 | 36.4 | – | – | – | – | – | – | .24 | .67 | 1.17 | 1.60 | 1.93 | 2.26 | 2.55 | 2.78 | 2.94 |
| **3000** | 50.1 | 34.2 | 53.4 | 35.3 | 55.5 | 35.5 | – | – | – | – | – | – | – | – | .25 | .69 | 1.21 | 1.65 | 2.00 | 2.34 | 2.63 | 2.87 | 3.05 |
| **3100** | 50.7 | 33.7 | 53.8 | 34.5 | – | – | – | – | – | – | – | – | – | – | .26 | .72 | 1.25 | 1.70 | 2.07 | 2.42 | 2.72 | 2.97 | 3.15 |
| **3200** | 51.2 | 33.1 | 54.1 | 33.4 | – | – | – | – | – | – | – | – | – | – | .27 | .74 | 1.29 | 1.76 | 2.14 | 2.50 | 2.81 | 3.07 | 3.25 |
| **3300** | 51.6 | 32.3 | – | – | – | – | – | – | – | – | – | – | – | – | .28 | .77 | 1.33 | 1.81 | 2.20 | 2.58 | 2.90 | 3.16 | 3.35 |
| **3400** | 51.9 | 31.4 | – | – | – | – | – | – | – | – | – | – | – | – | .29 | .79 | 1.37 | 1.87 | 2.27 | 2.65 | 2.99 | 3.26 | 3.45 |
| **3500** | 52.1 | 30.3 | – | – | – | – | – | – | – | – | – | – | – | – | .30 | .81 | 1.41 | 1.92 | 2.33 | 2.73 | 3.08 | 3.35 | 3.55 |
| **3600** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | .31 | .83 | 1.45 | 1.98 | 2.40 | 2.81 | 3.16 | 3.45 | 3.65 |
| **3700** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | .32 | .86 | 1.49 | 2.03 | 2.47 | 2.89 | 3.25 | 3.54 | 3.76 |
| **3800** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | .32 | .88 | 1.53 | 2.09 | 2.53 | 2.97 | 3.34 | 3.64 | 3.85 |
| **3900** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | .33 | .90 | 1.57 | 2.14 | 2.60 | 3.05 | 3.43 | 3.74 | 3.96 |
| **4000** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | .34 | .93 | 1.61 | 2.20 | 2.67 | 3.12 | 3.52 | 3.83 | 4.06 |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT4-80.

**Selection program available at www.ptwizard.com**

# Selection

## 8V Basic Horsepower Ratings Δ

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: | | | | | | | | | | | | Additional HP per Belt for Speed Ratio of: ‡ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12.5 | 13.2 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.2 | 22.4 | 24.8 | 1.02 to 1.05 | 1.06 to 1.11 | 1.12 to 1.18 | 1.19 to 1.26 | 1.27 to 1.38 | 1.39 to 1.57 | 1.58 to 1.94 | 1.95 to 3.38 | 3.39 and up |
| **435** | 20.1 | 22.3 | 24.8 | 27.8 | 30.9 | 33.9 | 36.8 | 39.8 | 42.7 | 46.2 | 49.7 | 56.4 | .20 | .56 | .97 | 1.32 | 1.60 | 1.87 | 2.11 | 2.30 | 2.43 |
| **485** | 22.0 | 24.4 | 27.1 | 30.5 | 33.8 | 37.1 | 40.4 | 43.6 | 46.9 | 50.7 | 54.4 | 61.8 | .23 | .62 | 1.08 | 1.47 | 1.78 | 2.09 | 2.35 | 2.56 | 2.71 |
| **585** | 25.7 | 28.5 | 31.7 | 35.6 | 39.5 | 43.4 | 47.2 | 50.9 | 54.6 | 59.0 | 63.3 | 71.6 | .27 | .75 | 1.30 | 1.77 | 2.15 | 2.52 | 2.83 | 3.09 | 3.27 |
| **690** | 29.3 | 32.6 | 36.2 | 40.7 | 45.2 | 49.5 | 53.8 | 58.0 | 62.2 | 67.0 | 71.8 | 80.9 | .32 | .88 | 1.54 | 2.09 | 2.54 | 2.97 | 3.34 | 3.64 | 3.86 |
| **725** | 30.5 | 33.8 | 37.6 | 42.3 | 46.9 | 51.5 | 55.9 | 60.3 | 64.5 | 69.5 | 74.4 | 83.7 | .34 | .93 | 1.61 | 2.20 | 2.67 | 3.12 | 3.51 | 3.83 | 4.06 |
| **870** | 35.0 | 38.9 | 43.2 | 48.6 | 53.8 | 58.9 | 63.9 | 68.7 | 73.4 | 78.8 | 84.0 | 93.8 | .41 | 1.11 | 1.94 | 2.64 | 3.20 | 3.74 | 4.22 | 4.59 | 4.87 |
| **950** | 37.3 | 41.4 | 46.0 | 51.7 | 57.2 | 62.6 | 67.7 | 72.8 | 77.6 | 83.1 | 88.4 | 98.1 | .45 | 1.21 | 2.11 | 2.88 | 3.49 | 4.09 | 4.60 | 5.02 | 5.32 |
| **1160** | 42.6 | 47.3 | 52.5 | 58.8 | 64.8 | 70.6 | 76.1 | 81.2 | 86.1 | 91.5 | 96.5 | 104.8 | .54 | 1.48 | 2.58 | 3.52 | 4.27 | 4.99 | 5.62 | 6.13 | 6.49 |
| **1425** | 47.6 | 52.7 | 58.4 | 65.0 | 71.2 | 76.9 | 82.1 | 86.8 | 90.9 | 95.0 | 98.3 | 102.1 | .67 | 1.82 | 3.17 | 4.32 | 5.24 | 6.13 | 6.91 | 7.52 | 7.97 |
| **1750** | 50.9 | 56.1 | 61.7 | 67.9 | 73.3 | 77.8 | 81.5 | 84.2 | 85.8 | 86.5 | – | – | .82 | 2.24 | 3.90 | 5.30 | 6.44 | 7.53 | 8.48 | 9.24 | 9.79 |
| **50** | 3.01 | 3.31 | 3.64 | 4.06 | 4.47 | 4.88 | 5.30 | 5.70 | 6.11 | 6.60 | 7.09 | 8.0 | .02 | .06 | .11 | .15 | .18 | .22 | .24 | .26 | .28 |
| **100** | 5.59 | 6.15 | 6.79 | 7.59 | 8.38 | 9.17 | 9.96 | 10.7 | 11.5 | 12.5 | 13.4 | 15.2 | .05 | .13 | .22 | .30 | .37 | .43 | .48 | .53 | .56 |
| **150** | 8.00 | 8.82 | 9.76 | 10.9 | 12.1 | 13.2 | 14.4 | 15.5 | 16.6 | 18.0 | 19.4 | 22.0 | .07 | .19 | .33 | .45 | .55 | .65 | .73 | .79 | .84 |
| **200** | 10.3 | 11.4 | 12.6 | 14.1 | 15.6 | 17.1 | 18.6 | 20.1 | 21.6 | 23.3 | 25.1 | 28.6 | .09 | .26 | .45 | .61 | .74 | .86 | .97 | 1.06 | 1.12 |
| **250** | 12.5 | 13.8 | 15.3 | 17.2 | 19.0 | 20.9 | 22.7 | 24.5 | 26.3 | 28.5 | 30.7 | 34.9 | .12 | .32 | .56 | .76 | .92 | 1.08 | 1.21 | 1.32 | 1.40 |
| **300** | 14.6 | 16.2 | 18.0 | 20.2 | 22.4 | 24.5 | 26.7 | 28.8 | 31.0 | 33.5 | 36.0 | 41.0 | .14 | .38 | .67 | .91 | 1.10 | 1.29 | 1.45 | 1.58 | 1.68 |
| **350** | 16.7 | 18.5 | 20.5 | 23.1 | 25.6 | 28.1 | 30.5 | 33.0 | 35.4 | 38.3 | 41.2 | 46.9 | .16 | .45 | .78 | 1.06 | 1.29 | 1.51 | 1.70 | 1.85 | 1.96 |
| **400** | 18.7 | 20.7 | 23.0 | 25.9 | 28.7 | 31.5 | 34.3 | 37.0 | 39.8 | 43.0 | 46.3 | 52.6 | .19 | .51 | .89 | 1.21 | 1.47 | 1.72 | 1.94 | 2.11 | 2.24 |
| **450** | 20.7 | 22.9 | 25.5 | 28.6 | 31.8 | 34.9 | 37.9 | 41.0 | 44.0 | 47.6 | 51.1 | 58.1 | .21 | .58 | 1.00 | 1.36 | 1.66 | 1.94 | 2.18 | 2.38 | 2.52 |
| **500** | 22.6 | 25.0 | 27.8 | 31.3 | 34.7 | 38.1 | 41.5 | 44.8 | 48.1 | 51.9 | 55.8 | 63.3 | .23 | .64 | 1.11 | 1.52 | 1.84 | 2.15 | 2.42 | 2.64 | 2.80 |
| **550** | 24.4 | 27.1 | 30.1 | 33.9 | 37.6 | 41.3 | 44.9 | 48.5 | 52.0 | 56.2 | 60.3 | 68.3 | .26 | .70 | 1.22 | 1.67 | 2.02 | 2.37 | 2.67 | 2.90 | 3.08 |
| **600** | 26.2 | 29.1 | 32.4 | 36.4 | 40.4 | 44.3 | 48.2 | 52.0 | 55.8 | 60.2 | 64.6 | 73.0 | .28 | .77 | 1.34 | 1.82 | 2.21 | 2.58 | 2.91 | 3.17 | 3.36 |
| **650** | 28.0 | 31.0 | 34.5 | 38.8 | 43.1 | 47.2 | 51.4 | 55.4 | 59.4 | 64.1 | 68.7 | 77.5 | .31 | .83 | 1.45 | 1.97 | 2.39 | 2.80 | 3.15 | 3.43 | 3.64 |
| **700** | 29.7 | 32.9 | 36.6 | 41.2 | 45.7 | 50.1 | 54.4 | 58.7 | 62.9 | 67.8 | 72.6 | 81.7 | .33 | .89 | 1.56 | 2.12 | 2.57 | 3.01 | 3.39 | 3.70 | 3.92 |
| **750** | 31.3 | 34.7 | 38.7 | 43.5 | 48.2 | 52.8 | 57.4 | 61.8 | 66.2 | 71.3 | 76.2 | 85.6 | .35 | .96 | 1.67 | 2.27 | 2.76 | 3.23 | 3.63 | 3.96 | 4.20 |
| **800** | 32.9 | 36.5 | 40.6 | 45.7 | 50.6 | 55.4 | 60.2 | 64.8 | 69.3 | 74.6 | 79.6 | 89.3 | .38 | 1.02 | 1.78 | 2.43 | 2.94 | 3.44 | 3.88 | 4.22 | 4.48 |
| **850** | 34.4 | 38.2 | 42.5 | 47.8 | 52.9 | 57.9 | 62.8 | 67.6 | 72.3 | 77.6 | 82.8 | 92.5 | .40 | 1.09 | 1.89 | 2.58 | 3.13 | 3.66 | 4.12 | 4.49 | 4.76 |
| **900** | 35.9 | 39.8 | 44.3 | 49.8 | 55.1 | 60.3 | 65.4 | 70.3 | 75.0 | 80.5 | 85.8 | 95.5 | .42 | 1.15 | 2.00 | 2.73 | 3.31 | 3.87 | 4.36 | 4.75 | 5.04 |
| **950** | 37.3 | 41.4 | 46.0 | 51.7 | 57.2 | 62.6 | 67.7 | 72.8 | 77.6 | 83.1 | 88.4 | 98.1 | .45 | 1.21 | 2.11 | 2.88 | 3.49 | 4.09 | 4.60 | 5.02 | 5.32 |
| **1000** | 38.7 | 42.9 | 47.7 | 53.5 | 59.2 | 64.7 | 70.0 | 75.1 | 80.0 | 85.6 | 90.8 | 100.3 | .47 | 1.28 | 2.23 | 3.03 | 3.68 | 4.30 | 4.85 | 5.28 | 5.60 |
| **1050** | 39.9 | 44.4 | 49.3 | 55.3 | 61.1 | 66.7 | 72.1 | 77.2 | 82.1 | 87.7 | 92.9 | 102.2 | .49 | 1.34 | 2.34 | 3.18 | 3.86 | 4.52 | 5.09 | 5.54 | 5.88 |
| **1100** | 41.2 | 45.7 | 50.8 | 56.9 | 62.9 | 68.5 | 74.0 | 79.2 | 84.1 | 89.6 | 94.7 | 103.6 | .52 | 1.41 | 2.45 | 3.33 | 4.05 | 4.73 | 5.33 | 5.81 | 6.16 |
| **1150** | 42.3 | 47.0 | 52.2 | 58.5 | 64.5 | 70.2 | 75.7 | 80.9 | 85.9 | 91.2 | 96.2 | 104.6 | .54 | 1.47 | 2.56 | 3.49 | 4.23 | 4.95 | 5.57 | 6.07 | 6.44 |
| **1200** | 43.5 | 48.2 | 53.5 | 59.9 | 65.0 | 71.8 | 77.3 | 82.5 | 87.3 | 92.6 | 97.4 | 105.2 | .56 | 1.53 | 2.67 | 3.64 | 4.41 | 5.17 | 5.82 | 6.34 | 6.71 |
| **1250** | 44.5 | 49.4 | 54.8 | 61.2 | 67.4 | 73.2 | 78.7 | 83.8 | 88.5 | 93.7 | 98.2 | 105.4 | .59 | 1.60 | 2.78 | 3.79 | 4.60 | 5.38 | 6.06 | 6.60 | 6.99 |
| **1300** | 45.5 | 50.4 | 55.9 | 62.5 | 68.7 | 74.5 | 79.9 | 84.9 | 89.5 | 94.5 | 98.7 | 105.1 | .61 | 1.66 | 2.89 | 3.94 | 4.78 | 5.60 | 6.30 | 6.86 | 7.27 |
| **1350** | 46.4 | 51.4 | 57.0 | 63.6 | 69.8 | 75.6 | 80.9 | 85.8 | 90.3 | 94.9 | 98.8 | 104.3 | .63 | 1.73 | 3.01 | 4.09 | 4.97 | 5.81 | 6.54 | 7.13 | 7.55 |
| **1400** | 47.2 | 52.3 | 57.9 | 64.5 | 70.8 | 76.5 | 81.7 | 86.5 | 90.7 | 95.1 | 98.6 | 102.9 | .66 | 1.79 | 3.12 | 4.24 | 5.15 | 6.03 | 6.78 | 7.39 | 7.83 |
| **1450** | 48.0 | 53.1 | 58.8 | 65.4 | 71.6 | 77.2 | 82.4 | 86.9 | 90.9 | 94.9 | 98.0 | 101.1 | .68 | 1.85 | 3.23 | 4.40 | 5.33 | 6.24 | 7.03 | 7.66 | 8.11 |
| **1500** | 48.7 | 53.9 | 59.5 | 66.2 | 72.3 | 77.8 | 82.8 | 87.1 | 90.8 | 94.4 | 97.0 | 98.8 | .70 | 1.92 | 3.34 | 4.55 | 5.52 | 6.46 | 7.27 | 7.92 | 8.39 |
| **1550** | 49.3 | 54.5 | 60.2 | 66.8 | 72.8 | 78.2 | 83.0 | 87.1 | 90.5 | 93.6 | 95.5 | 95.9 | .73 | 1.98 | 3.45 | 4.70 | 5.70 | 6.67 | 7.51 | 8.18 | 8.67 |
| **1600** | 49.8 | 55.1 | 60.7 | 67.2 | 73.2 | 78.4 | 82.9 | 86.7 | 89.8 | 92.3 | 93.7 | – | .75 | 2.05 | 3.56 | 4.85 | 5.88 | 6.89 | 7.75 | 8.45 | 8.95 |
| **1650** | 50.2 | 55.5 | 61.1 | 67.6 | 73.4 | 78.4 | 82.7 | 86.2 | 88.8 | 90.8 | 91.4 | – | .77 | 2.11 | 3.67 | 5.00 | 6.07 | 7.10 | 8.00 | 8.71 | 9.23 |
| **1700** | 50.6 | 55.9 | 61.5 | 67.8 | 73.4 | 78.2 | 82.2 | 85.3 | 87.5 | 88.8 | 88.7 | – | .80 | 2.17 | 3.78 | 5.15 | 6.25 | 7.32 | 8.24 | 8.98 | 9.51 |
| **1800** | 51.2 | 56.3 | 61.7 | 67.8 | 73.0 | 77.2 | 80.5 | 82.7 | 83.9 | 83.7 | – | – | .84 | 2.30 | 4.01 | 5.46 | 6.62 | 7.75 | 8.72 | 9.5 | 10.1 |
| **1900** | 51.2 | 56.3 | 61.5 | 67.2 | 71.8 | 75.4 | 77.8 | 79.0 | 78.9 | – | – | – | .89 | 2.43 | 4.23 | 5.76 | 6.99 | 8.18 | 9.21 | 10.0 | 10.6 |
| **2000** | 51.0 | 55.9 | 60.8 | 65.9 | 69.9 | 72.6 | 74.0 | 74.0 | – | – | – | – | .94 | 2.56 | 4.45 | 6.06 | 7.36 | 8.61 | 9.69 | 10.6 | 11.2 |
| **2200** | 49.4 | 53.7 | 57.7 | 61.5 | 63.7 | 64.2 | – | – | – | – | – | – | 1.03 | 2.81 | 4.90 | 6.67 | 8.09 | 9.47 | 10.7 | 11.6 | 12.3 |
| **2400** | 46.0 | 49.5 | 52.4 | 54.2 | 54.1 | – | – | – | – | – | – | – | 1.13 | 3.07 | 5.34 | 7.28 | 8.83 | 10.3 | 11.6 | 12.7 | 13.4 |
| **2600** | 40.9 | 43.2 | 44.5 | – | – | – | – | – | – | – | – | – | 1.22 | 3.32 | 5.79 | 7.88 | 9.56 | 11.2 | 12.6 | 13.7 | 14.5 |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT4-80.

**Selection program available at www.ptwizard.com**

# Selection

## 5VF Basic Horsepower Ratings Δ Aramide Cord Belt

**SEE CAUTION BELOW**

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: | | | | | | | | | | | | | | Additional HP per Belt for Speed Ratio of:‡ | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7.1 | 8.0 | 8.5 | 9.0 | 9.75 | 10.3 | 10.9 | 11.3 | 11.8 | 12.5 | 13.2 | 14.0 | 15.0 | 16.0 | 1.02 to 1.20 | 1.21 to 1.50 | 1.51 to 2.19 | 2.20 to 3.32 | 3.33 and up |
| 200 | 3.55 | 4.42 | 4.91 | 5.39 | 6.11 | 6.63 | 7.2 | 7.58 | 8.05 | 8.71 | 9.36 | 10.1 | 11.0 | 11.9 | .10 | .24 | .33 | .37 | .38 |
| 300 | 5.01 | 6.29 | 6.99 | 7.69 | 8.74 | 9.5 | 10.3 | 10.9 | 11.5 | 12.5 | 13.5 | 14.5 | 15.9 | 17.2 | .15 | .36 | .50 | .55 | .57 |
| 400 | 6.39 | 8.05 | 8.97 | 9.88 | 11.2 | 12.2 | 13.3 | 14.0 | 14.9 | 16.1 | 17.4 | 18.8 | 20.5 | 22.2 | .19 | .47 | .66 | .74 | .76 |
| 500 | 7.71 | 9.74 | 10.9 | 12.0 | 13.6 | 14.8 | 16.2 | 17.0 | 18.1 | 19.6 | 21.1 | 22.8 | 24.9 | 27.0 | .24 | .59 | .83 | .92 | .94 |
| 600 | 8.96 | 11.4 | 12.7 | 14.0 | 15.9 | 17.4 | 18.9 | 19.9 | 21.2 | 23.0 | 24.8 | 26.7 | 29.2 | 31.7 | .29 | .71 | .99 | 1.11 | 1.13 |
| 700 | 10.2 | 12.9 | 14.4 | 15.9 | 18.2 | 19.8 | 21.6 | 22.8 | 24.2 | 26.3 | 28.3 | 30.5 | 33.3 | 36.1 | .34 | .83 | 1.16 | 1.29 | 1.32 |
| 800 | 11.3 | 14.4 | 16.1 | 17.8 | 20.4 | 22.2 | 24.2 | 25.5 | 27.1 | 29.4 | 31.6 | 34.2 | 37.3 | 40.4 | .39 | .95 | 1.32 | 1.48 | 1.51 |
| 900 | 12.4 | 15.9 | 17.8 | 19.7 | 22.5 | 24.5 | 26.7 | 28.2 | 29.9 | 32.4 | 34.9 | 37.7 | 41.1 | 44.5 | .44 | 1.07 | 1.49 | 1.66 | 1.70 |
| 1000 | 13.5 | 17.3 | 19.4 | 21.5 | 24.5 | 26.7 | 29.1 | 30.7 | 32.7 | 35.4 | 38.0 | 41.1 | 44.8 | 48.4 | .49 | 1.18 | 1.65 | 1.85 | 1.89 |
| 1100 | 14.6 | 18.7 | 20.9 | 23.2 | 26.5 | 28.9 | 31.5 | 33.2 | 35.3 | 38.2 | 41.1 | 44.3 | 48.2 | 52.1 | .53 | 1.30 | 1.82 | 2.03 | 2.08 |
| 1200 | 15.6 | 20.0 | 22.4 | 24.8 | 28.4 | 30.9 | 33.7 | 35.5 | 37.8 | 40.9 | 43.9 | 47.4 | 51.5 | 55.6 | .58 | 1.42 | 1.99 | 2.22 | 2.27 |
| 1300 | 16.6 | 21.3 | 23.9 | 26.4 | 30.2 | 32.9 | 35.9 | 37.8 | 40.2 | 43.5 | 46.7 | 50.3 | 54.7 | 58.9 | .63 | 1.54 | 2.15 | 2.40 | 2.45 |
| 1400 | 17.5 | 22.5 | 25.3 | 28.0 | 32.0 | 34.9 | 37.9 | 40.0 | 42.5 | 45.9 | 49.3 | 53.0 | 57.6 | 61.9 | .68 | 1.66 | 2.32 | 2.59 | 2.64 |
| 1600 | 19.3 | 24.9 | 27.9 | 30.9 | 35.3 | 38.5 | 41.8 | 44.1 | 46.8 | 50.5 | 54.1 | 58.1 | 62.8 | 67.3 | .78 | 1.89 | 2.65 | 2.96 | 3.02 |
| 1800 | 20.9 | 27.0 | 30.3 | 33.6 | 38.4 | 41.7 | 45.4 | 47.7 | 50.6 | 54.5 | 58.2 | 62.3 | 67.2 | 71.6 | .88 | 2.13 | 2.98 | 3.32 | 3.40 |
| 2000 | 22.4 | 29.0 | 32.6 | 36.0 | 41.1 | 44.7 | 48.5 | 50.9 | 53.9 | 57.9 | 61.7 | 65.8 | 70.5 | 74.8 | .97 | 2.37 | 3.31 | 3.69 | 3.78 |
| 2200 | 23.8 | 30.8 | 34.5 | 38.2 | 43.5 | 47.2 | 51.2 | 53.7 | 56.7 | 60.7 | 64.5 | 68.5 | 72.9 | 76.7 | 1.07 | 2.60 | 3.64 | 4.06 | 4.15 |
| 2400 | 24.9 | 32.4 | 36.3 | 40.1 | 45.6 | 49.4 | 53.4 | 55.9 | 58.9 | 62.8 | 65.5 | 70.2 | 74.1 | 77.3 | 1.17 | 2.84 | 3.97 | 4.43 | 4.53 |
| 2600 | 26.0 | 33.7 | 37.8 | 41.7 | 47.3 | 51.1 | 55.1 | 57.6 | 60.5 | 64.3 | 67.6 | 70.9 | – | – | 1.26 | 3.08 | 4.30 | 4.80 | 4.91 |
| 2800 | 26.9 | 34.8 | 39.0 | 43.0 | 48.6 | 52.4 | 56.3 | 58.7 | 61.4 | 64.9 | 67.8 | – | – | – | 1.36 | 3.31 | 4.63 | 5.17 | 5.29 |
| 3000 | 27.6 | 35.8 | 40.0 | 44.0 | 49.6 | 53.3 | 56.9 | 59.2 | 61.7 | 64.7 | – | – | – | – | 1.46 | 3.55 | 4.96 | 5.54 | 5.66 |
| 3200 | 28.1 | 36.4 | 40.7 | 44.6 | 50.1 | 53.6 | 57.0 | 59.0 | 61.2 | – | – | – | – | – | 1.56 | 3.79 | 5.30 | 5.91 | 6.04 |
| 3400 | 28.4 | 36.8 | 41.0 | 44.9 | 50.1 | 53.4 | 56.5 | 58.2 | – | – | – | – | – | – | 1.65 | 4.02 | 5.63 | 6.28 | 6.42 |
| 3600 | 28.6 | 36.9 | 41.1 | 44.8 | 49.7 | 52.7 | – | – | – | – | – | – | – | – | 1.75 | 4.26 | 5.96 | 6.65 | 6.80 |

## 8VF

**SEE CAUTION BELOW**

| Faster Shaft RPM | Rated HP per Belt for Small Sheave O.D. of: | | | | | | | | | | | | Additional HP per Belt for Speed Ratio of:‡ | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12.5 | 13.2 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.2 | 22.4 | 24.8 | 1.02 to 1.20 | 1.21 to 1.50 | 1.51 to 2.19 | 2.20 to 3.32 | 3.33 and up |
| 200 | 12.6 | 14.5 | 16.6 | 19.3 | 21.9 | 24.6 | 27.2 | 29.8 | 32.433 | 35.5 | 38.6 | 44.7 | .59 | 1.43 | 2.00 | 2.24 | 2.29 |
| 250 | 15.0 | 17.4 | 20.0 | 23.3 | 26.5 | 29.7 | 33.0 | 36.2 | 39.4 | 43.2 | 46.9 | 54.5 | .74 | 1.79 | 2.51 | 2.80 | 2.86 |
| 300 | 17.4 | 20.1 | 23.2 | 27.1 | 30.9 | 34.7 | 38.5 | 42.3 | 46.1 | 50.5 | 55.0 | 63.8 | .88 | 2.15 | 3.01 | 3.36 | 3.43 |
| 350 | 19.6 | 22.7 | 26.3 | 30.7 | 35.2 | 39.6 | 43.9 | 48.3 | 52.6 | 57.7 | 62.8 | 72.9 | 1.03 | 2.51 | 3.51 | 3.91 | 4.00 |
| 400 | 21.7 | 25.2 | 29.3 | 34.3 | 39.3 | 44.2 | 49.1 | 54.0 | 58.9 | 64.6 | 70.4 | 81.7 | 1.18 | 2.87 | 4.01 | 4.47 | 4.57 |
| 450 | 23.7 | 27.7 | 32.2 | 37.7 | 43.2 | 48.7 | 54.2 | 59.6 | 65.0 | 71.4 | 77.7 | 90.2 | 1.33 | 3.23 | 4.51 | 5.03 | 5.15 |
| 500 | 25.6 | 30.0 | 34.9 | 41.0 | 47.1 | 53.1 | 59.1 | 65.0 | 70.9 | 77.8 | 84.8 | 98.4 | 1.47 | 3.58 | 5.01 | 5.59 | 5.72 |
| 600 | 29.3 | 34.4 | 40.1 | 47.3 | 54.4 | 61.4 | 68.4 | 75.3 | 82.2 | 90.2 | 98.2 | 113.9 | 1.77 | 4.30 | 6.01 | 6.71 | 6.86 |
| 700 | 32.6 | 38.4 | 45.0 | 51.2 | 61.2 | 69.2 | 77.1 | 84.9 | 92.6 | 101.7 | 110.7 | 128.1 | 2.06 | 5.02 | 7.01 | 7.83 | 8.00 |
| 800 | 35.6 | 42.1 | 49.5 | 58.6 | 67.6 | 76.5 | 85.2 | 93.8 | 102.3 | 112.3 | 122.1 | 141.1 | 2.36 | 5.73 | 8.02 | 8.95 | 9.15 |
| 900 | 38.3 | 45.5 | 53.6 | 63.6 | 73.5 | 83.1 | 92.7 | 102.0 | 111.2 | 121.9 | 132.4 | 152.5 | 2.65 | 6.45 | 9.02 | 10.1 | 10.3 |
| 1000 | 40.7 | 48.5 | 57.4 | 68.2 | 78.8 | 89.2 | 99.4 | 109.4 | 119.1 | 130.5 | 141.5 | 162.4 | 2.95 | 7.17 | 10.0 | 11.2 | 11.4 |
| 1100 | 42.9 | 51.3 | 60.7 | 72.3 | 83.6 | 94.7 | 105.5 | 116.0 | 126.2 | 138.0 | 149.4 | 170.7 | 3.24 | 7.89 | 11.0 | 12.3 | 12.6 |
| 1200 | 44.7 | 53.7 | 63.7 | 75.9 | 87.9 | 99.5 | 110.8 | 121.7 | 132.2 | 144.4 | 155.9 | 177.3 | 3.53 | 8.60 | 12.0 | 13.4 | 13.7 |
| 1300 | 46.2 | 55.7 | 66.3 | 79.2 | 91.6 | 103.7 | 115.3 | 126.5 | 137.3 | 149.5 | 161.1 | 181.9 | 3.83 | 9.32 | 13.1 | 14.5 | 14.8 |
| 1400 | 47.4 | 57.3 | 68.4 | 81.8 | 94.7 | 107.1 | 119.0 | 130.4 | 141.2 | 153.4 | 164.7 | 184.5 | 4.12 | 10.1 | 14.1 | 15.7 | 16.0 |
| 1500 | 48.3 | 58.6 | 70.1 | 83.9 | 97.1 | 109.8 | 121.8 | 133.2 | 143.9 | 155.8 | 165.7 | 184.9 | 4.42 | 10.7 | 15.0 | 16.8 | 17.1 |
| 1600 | 48.8 | 59.5 | 71.3 | 85.4 | 98.9 | 111.7 | 123.7 | 135.0 | 145.4 | 156.8 | 167.0 | – | 4.71 | 11.5 | 16.0 | 17.9 | 18.3 |
| 1700 | 49.0 | 59.0 | 72.0 | 86.4 | 100.0 | 112.8 | 124.7 | 135.7 | 145.6 | 156.3 | 165.5 | – | 5.01 | 12.2 | 17.0 | 19.0 | 19.4 |
| 1800 | 48.8 | 60.0 | 72.2 | 86.8 | 100.4 | 113.0 | 124.6 | 135.1 | 144.5 | 154.2 | – | – | 5.30 | 12.9 | 18.0 | 20.1 | 20.6 |
| 1900 | 48.2 | 59.5 | 71.9 | 86.5 | 100.0 | 112.4 | 123.5 | 133.4 | 141.9 | – | – | – | 5.60 | 13.6 | 19.0 | 21.2 | 21.7 |
| 2000 | 47.2 | 58.7 | 71.1 | 85.6 | 98.8 | 110.7 | 121.3 | 130.3 | – | – | – | – | 5.89 | 14.3 | 20.0 | 22.3 | 22.8 |
| 2100 | 45.8 | 57.3 | 69.7 | 84.0 | 96.8 | 108.1 | 117.9 | – | – | – | – | – | 6.19 | 15.0 | 21.0 | 23.5 | 24.0 |
| 2200 | 43.9 | 55.5 | 67.7 | 81.7 | 94.0 | 104.5 | – | – | – | – | – | – | 6.48 | 15.8 | 22.0 | 24.6 | 25.1 |

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT4-80.

**CAUTION: Belt horsepower ratings may exceed design capacity of stock sheaves. Consult factory for recommendations.**

# Selection

## Stock Classical Drives: Standard Motor Speeds

**Step 1 - Determine Service Factor.** Refer to Typical Service factors, Table 7. Locate type of Driven and Driver equipment. (If an idler is used, increase the factor by value indicated). Correct factor is determined by: 1. The extent and frequency of peak loads. 2. Number of operating hours/year, broken down in average hours/day of continuous service. 3. Proper service category: (Intermittent, Normal or Continuous). Select the one closest to the application conditions.

**Step 2 - Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

**Step 3 - Choose Belt Section.** Using Table 6, below, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt sections.

**Step 4 - Select the Drive. a).** Using belt section from Step 3, refer to Stock Drive Selection Tables beginning on page PT7-90. **b).** Under appropriate driver speed column find Driven RPM nearest to the desired speed. To the right note HP per Belt. Read left for Driver/Driven Sheave information. (If driver is an electric motor be sure motor sheave diameter is not less than shown in Table 8.) **c).** Read onto opposite page and find figure nearest the required center distance. Note Arc-Length Correction Factor in the shaded row below the C.D. figure. d). Read to the top of the table for the belt size. **e). To determine number of belts**, multiply the HP per Belt value by the Arc Length Correction Factor. This is the corrected HP/ belt. Divide design HP by corrected HP figure to determine number of belts required.

### *Example of Selection*

Select a classical drive for a continuous duty 3-piston compressor, with a 2-7/16, shaft, to run at about 284 RPM, driven by a 30 HP, 1160 RPM squirrel cage electric motor with a 2-1/8, shaft. Desired center distance is approximately 36".

**Step 1** - Service factor from Table 7 is 1.4.

**Step 2** - Design HP = 1.4 x 30 = 42 HP.

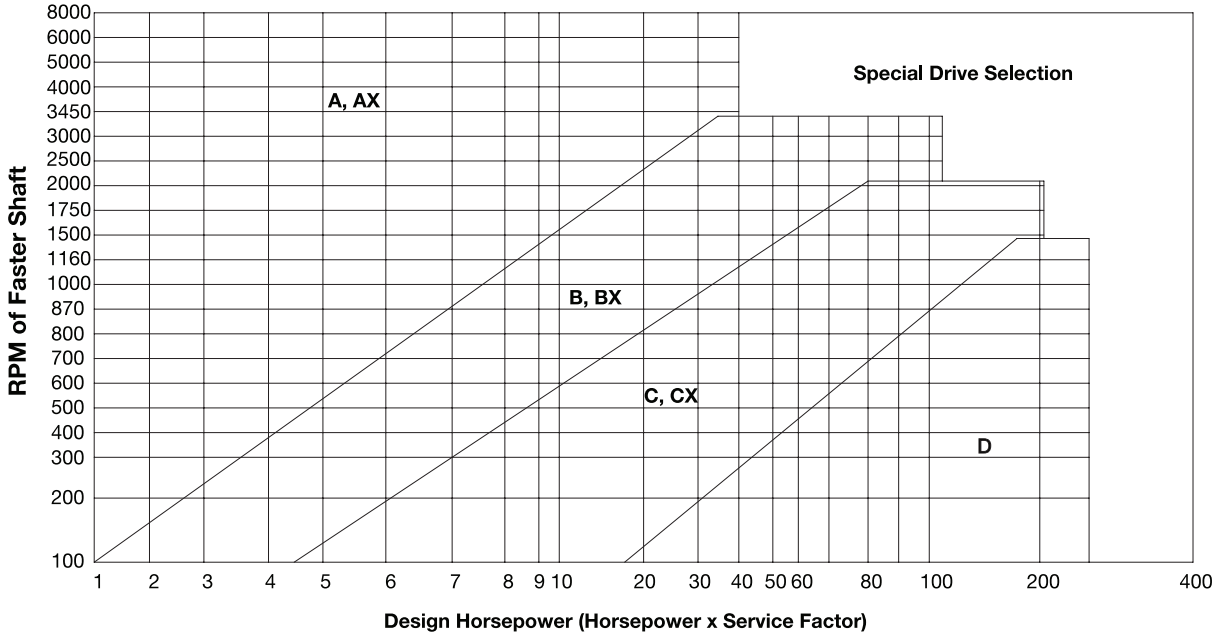
**Step 3** - A C-section belt is shown in Table 11 when reading to the right of 1160 RPM and up from 42 design HP.

**Step 4** - Turn to C-Stock Drive Selection Tables beginning on page PT7-124. Under 1160 RPM Driven, read down to find 285 RPM. One selection is 284 on page PT7-128. Note HP/belt as 15.47 for all SL Classic belts and Polyband belts over 116" and 19.34 for all Classic-Cog and Polyband under 116". Also note sheaves listed as a 8.5 Driver, 36.0 Driven. Table 8 shows driver is not undersize. Reading to opposite page the C.D. figure of 35.9 is closest to 36". Top of table shows belt size as C144.

The HP/belt for SL Classic is 15.47. This value x the .95 factor = 14.7 corrected HP/belt. 42 HP÷14.7 = 2.85. Going to the next whole number the drive requires 3 SL Classic belts. (Center to center operating distance is 35.9 nominal.) **Order:** 1. 3 - C144 SL Classic Belts. 2. 1 - 3-groove C8.5 TAPER-LOCK Sheave. 3. 1 - 2-1/8, bore 2517 bushing.
4. 1 - 3-groove C36.0 TAPER-LOCK Sheave. 5. 1 - 2-7/16, bore 3535 bushing.

(The steps above may be used to figure a Classic-COG drive with higher HP ratings. This drive usually uses fewer grooves and will be more compact. The decision to use SL Classic, Classic-COG or POLYBAND belts involves economics, interchangeability, etc.).

**Table 6 - Narrow Cross Section Selection Chart**



# Selection

## Service Factors

**Table 7 - Typical Service Factors**

| Driven Machine Types<br>Note: Certain machines may require flywheel sheaves or special construction to withstand heavy shock loads. Consult Mfg'r. | Driver: Normal Torque<br>NEMA Des. A or B Motors<br>DC Shunt Wound Motors<br>Multi-Cylinder Engines<br>Service* | | | Driver: High Torque<br>NEMA Des. C or D Motors<br>DC Series Wound Motors<br>Single Cylinder Engines<br>Service* | | | |
|---|---|---|---|---|---|---|---|
| | Intermit. | Normal | Contin. | Intermit. | Normal | Cont. | |
| Agitators for Liquids<br>Blowers and Exhausters<br>Centrif. Pumps, Compressors<br>Fans up to 10HP<br>Light Duty Conveyors | 1.0 | 1.1 | 1.2 | 1.1 | 1.2 | 1.3 | *** Note:**<br>Intermittent:<br>Up to 6 Hrs./Day<br>Normal:<br>6-16 Hrs./Day<br>Continuous:<br>16-24 Hrs./Day |
| Belt Conveyors, Bulk Mat'l<br>Dough Mixers<br>Fans over 10 HP<br>Generators<br>Line Shafts<br>Laundry Machinery<br>Machine Tools<br>Punches, Presses, Shears<br>Printing Machinery<br>Positive Displ. Rotary Pumps<br>Revolving and Vibrating Screens | 1.1 | 1.2 | 1.3 | 1.2 | 1.3 | 1.4 | Adder for Idlers:<br>Outside on slack side . . . . . 0.1<br>Inside on tight side . . . . . 0.1<br>Outside on tight side . . . . . 0.2 |
| Brick Machinery<br>Bucket Elevators<br>Exciters<br>Piston Compressors<br>Conveyors: Drag, Pan, Screw<br>Hammer Mills<br>Paper Mill Beaters<br>Piston Pumps<br>Pos. Displacement Blowers<br>Pulverizers<br>Saw Mill, Woodworking Mach'y<br>Textile Machinery | 1.2 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | |
| Crushers: Gyratory, Jaw, Roll<br>Mills: Ball, Rod, Tube<br>Hoists<br>Rubber Calendars, Extruders, Mills | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | |
| Chokable Equipment, Fire Hazard | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |

**Table 8 - Min. Recommended Classical Groove Sheave Dia. for Drives Using Electric Motors**

| Motor RPM | A, B. C. D, V-belt Sheave | Motor Horsepower | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1/2 | 3/4 | 1 | 1-1/2 | 2 | 3 | 5 | 7-1/2 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 100 | 125 |
| 870 | Min. P.D. | 2.2 | 2.4 | 2.4 | 2.4 | 3.0 | 3.0 | 3.8 | 4.4 | 4.6 | 5.4 | 6.0 | 6.8 | 6.8 | 8.2 | 9.0 | 10.0 | 10.5 | 12.5 | – |
| | Max. Face Width | 4.3 | 4.3 | 5.3 | 5.3 | 6.5 | 6.5 | 7.8 | 7.8 | 9.0 | 9.0 | 10.3 | 10.3 | 11.5 | 11.5 | 14.3 | 14.3 | 16.8 | 16.8 | – |
| 1160 | Min. P.D. | – | 2.2 | 2.4 | 2.4 | 2.4 | 3.0 | 3.0 | 3.8 | 4.4 | 4.6 | 5.4 | 6.0 | 6.8 | 6.8 | 8.2 | 9.0 | 10.0 | 11.0 | 12.5 |
| | Max. Face Width | – | 4.3 | 4.3 | 5.3 | 5.3 | 6.5 | 6.5 | 7.8 | 7.8 | 9.0 | 9.0 | 10.3 | 10.3 | 11.5 | 11.5 | 14.3 | 14.3 | 16.8 | 16.8 |
| 1750 | Min. P.D. | – | – | 2.2 | 2.4 | 2.4 | 2.4 | 3.0 | 3.0 | 3.8 | 4.4 | 4.6 | 5.0 | 5.4 | 6.0 | 6.8 | 7.4 | 9.0 | 10.0 | 11.5 |
| | Max. Face Width | – | – | 4.3 | 4.3 | 4.3 | 5.3 | 5.3 | 6.5 | 6.5 | 7.8 | 7.8 | 9.0 | 9.0 | 10.3 | 10.3 | 11.5 | 11.5 | 14.3 | 14.3 |
| 3500 | Min. P.D. | – | – | – | 2.2 | 2.4 | 2.4 | 3.0 | 3.8 | 3.0 | 3.8 | 4.4 | 4.4 | – | – | – | – | – | – | – |
| | Max. Face Width | – | – | – | 4.3 | 4.3 | 4.3 | 5.3 | 5.3 | 6.5 | 6.5 | 7.8 | 7.8 | – | – | – | – | – | – | – |

Data is per NEMA Standard MG1-14.42. In areas where sheaves are not listed, consult motor manufacturer

**Selection program available at www.ptwizard.com**

# Selection

## Stock Classical Drives: Non Standard Motor Speeds and Speed-Up Drives

For Speeds Other Than Standard Motor Speeds:

**Step 1 - Determine Speed Ratio** = $\left(\frac{\text{Driver RPM}}{\text{Driven RPM}}\right)$

**Step 2 - Compute Design HP.** Multiply normal running HP required or nameplate rating by service factor from Table 2.

**Step 3 - Determine Maximum Diameter** of Driver Sheave

@ 6500 FPM: O.D. = $\left(\frac{\text{6500 RPM}}{\text{.262 x RPM}}\right)$

**Step 4 - Select Belt Cross Section.** Using Table 6, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

**Step 5 - Select Drive.** Using the belt section from Step 4, make a tentative sheave selection from Stock Drive Selection Tables. (Note that several choices are available in the ratio obtained from Step 1.) Other choices close to this ratio may also produce a functional drive. Read onto opposite page and find figure nearest the required center distance. The Arc-Length Correction Factor is listed in the shaded row below the C.D. figure. Read to the top of the table for the belt size.

**Step 6 - Size the Drive.** From Basic HP Tables beginning on page PT7-118, locate HP rating at intersection of RPM row and small sheave column. To this, add the "additional HP" figure based on drive ratio. This becomes the rated HP. Multiply this sum by the arc-length correction factor noted in Step 5. This becomes the corrected HP per belt. To find

Required number of belts : $\frac{\text{Design HP}}{\text{Correction HP/Belt}}$

### *Example of Selection*

A V-drive is needed for a 15 HP, 2200 RPM gasoline engine, with a 1-5/8" shaft, running a reducer on a belt conveyor. 2-5/16" reducer input shaft shaft runs at 1490 RPM. Service is intermittent. Center distance is 36".

**Step 1** - Speed Ratio = $\frac{2200}{1785} = 1.48$

**Step 2** - Service Factor = 1.2 Design HP = 15 x 1.1 = 16.5

**Step 3** - Driver Sheave Max. Dia. = $\frac{6500}{.262 \times 2200} = 11.3$

**Step 4** - Belt Cross Section = Table 11 indicates A-AX.

**Step 5** - Turn to A, AX **Stock Drive Selection Tables** beginning on page PT7-106. Find the 1.48 ratio obtained in the Step 1 calculations. The most economical drive shows a 4.6 Driver, 7.0 Driven Sheave. The C.D. nearest 36" is 36.5. The correction factor below the C.D. figure is 1.07. Top of the table shows an A90 belt. Refer to Basic HP Tables on page PT7-134. From the 2200 RPM of the faster shaft row and down from the 4.6 smaller sheave:
5.80 HP/belt plus an additional HP of .44 in the 1.35 thru 1.99 ratio column. The sum = 6.24 HP/belt x 1.07 arc-length correction factor = 6.68 HP/belt.

Number of belts = $\frac{16.5}{6.68} = 2.47$ or 3 belts

**Order:** 1- 3 groove A4.6 TAPER-LOCK Sheave, 1 to 1-5/8" bore 1610 bushing, 1-3 groove A7.0 sheave, 1 to 2-5/16" bore 2517 bushing, 3-A90 SL Classic Belts.

### *Example of an "A" Speed-Up Drive*

A 10 HP 1750 RPM AC motor, with a 1-3/8" shaft is to drive a high speed blower @ 4000 RPM. The blower shaft is 1-7/16", center distance 24" and equipment runs 24 hrs./day.

1. Service Factor from Table 12 is 1.2.
2. Design HP = 10 x 1.2 = 12 HP.
3. Speed Ratio = $\frac{4000}{1750} = 2.29$
4. In Stock Drive Table, under 2.29 ratio, sheaves are listed as 3.4 Driver/8.2 Driven. (In a speed-up drive, the 3.4 sheave becomes the Driven, the 8.2 the Driver.) The opposite page of the table shows the closest center distance as 24.4 with an arc length correction factor of .96. Belt shown at top of table is A66.
5. From **Basic Horsepower Tables** a 3.4 sheave @ 4000 RPM = (4.38 + 1.00) = 5.38.
   5.38 x .96 = 5.16 corrected HP/belt.
6. **Number of Belts** = $\frac{\text{Design HP}}{\text{Corrected HP}} = \frac{12}{5.16} = 2.33$
   or 3 belts.
7. **Order:** 1-3 groove A8.2 TAPER-LOCK Sheave, 1 to 1-3/8" bore 2517 bushing, 1-3 groove A3.4 TAPER-LOCK Sheave, 1 to 1-7/16" bore 1610 bushing, 3-A66 SL belts.

**NOTE:** To determine required belt length when center distance and sheave datum diameters are known, use the following formula.

$$L = 2C + 1.57\,(D + d) + \frac{(D - d)^2}{4c}$$

L = Belt Length In Inches

C = Center Distance

D = Datum Dia. of Large Sheave

d = Datum Dia. of Small Sheave

# Selection

## Service Factors

**Table 9 - Classical Belt Length Correction Factors**

| Datum Length | Factor | Datum Length | Factor | Datum Length | Factor | Datum Length | Factor | Datum Length | Factor | Datum Length | Factor | Datum Length | Factor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A Belts** | | **A Belts (Cont.)** | | **A Belts (Cont.)** | | **B Belts (Cont.)** | | **B Belts (Cont.)** | | **C Belts (Cont.)** | | **D Belts (Cont.)** | |
| 15.3 | 0.68 | 58.3 | 0.96 | 113.3 | 1.11 | 57.8 | 0.90 | 101.8 | 1.03 | 107.9 | 0.94 | 213.3 | 0.96 |
| 16.3 | 0.69 | 59.3 | 0.97 | 121.3 | 1.13 | 58.8 | 0.90 | 102.8 | 1.03 | 108.9 | 0.94 | 225.8 | 0.99 |
| 17.3 | 0.71 | 60.3 | 0.97 | 129.3 | 1.14 | 59.8 | 0.91 | 104.8 | 1.04 | 110.9 | 0.94 | 240.8 | 1.00 |
| 18.3 | 0.72 | 61.3 | 0.98 | 134.3 | 1.14 | 60.8 | 0.91 | 106.8 | 1.04 | 111.9 | 0.94 | 255.8 | 1.01 |
| 19.3 | 0.73 | 62.3 | 0.98 | 137.3 | 1.15 | 61.8 | 0.92 | 109.8 | 1.04 | 113.9 | 0.94 | 270.8 | 1.03 |
| 20.3 | 0.74 | 63.3 | 0.98 | 145.3 | 1.17 | 62.8 | 0.92 | 112.8 | 1.05 | 114.9 | 0.95 | 285.8 | 1.04 |
| 21.3 | 0.75 | 64.3 | 0.98 | 159.3 | 1.19 | 63.8 | 0.92 | 113.8 | 1.05 | 117.9 | 0.95 | 300.8 | 1.05 |
| 22.3 | 0.76 | 65.3 | 0.99 | 174.3 | 1.21 | 64.8 | 0.92 | 117.8 | 1.06 | 122.9 | 0.97 | 315.8 | 1.06 |
| 23.3 | 0.77 | 67.3 | 0.99 | 181.3 | 1.22 | 65.8 | 0.93 | 121.8 | 1.07 | 126.9 | 0.97 | 330.8 | 1.07 |
| 24.3 | 0.78 | 68.3 | 0.99 | **B Belts** | | 66.8 | 0.93 | 125.8 | 1.07 | 130.9 | 0.98 | 345.8 | 1.08 |
| 25.3 | 0.79 | 69.3 | 1.00 | 23.8 | 0.71 | 67.8 | 0.93 | 129.8 | 1.08 | 138.9 | 0.99 | 360.8 | 1.09 |
| 26.3 | 0.80 | 70.3 | 1.00 | 24.8 | 0.72 | 68.8 | 0.94 | 134.8 | 1.09 | 146.9 | 1.00 | 390.8 | 1.11 |
| 27.3 | 0.81 | 71.3 | 1.00 | 25.8 | 0.73 | 69.8 | 0.95 | 137.8 | 1.09 | 152.9 | 1.01 | 420.8 | 1.12 |
| 28.3 | 0.81 | 72.3 | 1.01 | 26.8 | 0.74 | 70.8 | 0.95 | 145.8 | 1.11 | 160.9 | 1.02 | 450.8 | 1.14 |
| 29.3 | 0.82 | 73.3 | 1.01 | 27.8 | 0.75 | 71.8 | 0.95 | 149.8 | 1.11 | 164.9 | 1.03 | 480.8 | 1.16 |
| 30.3 | 0.82 | 74.3 | 1.01 | 28.8 | 0.75 | 72.8 | 0.95 | 159.8 | 1.13 | 175.9 | 1.04 | 540.8 | 1.18 |
| 31.3 | 0.83 | 75.3 | 1.02 | 29.8 | 0.76 | 73.8 | 0.95 | 163.8 | 1.13 | 182.9 | 1.05 | 600.8 | 1.20 |
| 32.3 | 0.84 | 76.3 | 1.02 | 30.8 | 0.77 | 74.8 | 0.96 | 174.8 | 1.15 | 197.9 | 1.07 | **E Belts** | |
| 33.3 | 0.84 | 77.3 | 1.02 | 31.8 | 0.77 | 75.8 | 0.96 | 181.8 | 1.16 | 212.9 | 1.08 | 184.5 | 0.91 |
| 34.3 | 0.85 | 78.3 | 1.02 | 32.8 | 0.78 | 76.8 | 0.97 | 191.8 | 1.16 | 225.9 | 1.10 | 199.5 | 0.92 |
| 35.3 | 0.86 | 79.3 | 1.03 | 33.8 | 0.79 | 77.8 | 0.97 | 196.8 | 1.18 | 240.9 | 1.11 | 214.5 | 0.94 |
| 36.3 | 0.87 | 80.3 | 1.03 | 34.8 | 0.79 | 78.8 | 0.97 | 206.8 | 1.19 | 255.9 | 1.12 | 241.0 | 0.96 |
| 37.3 | 0.87 | 81.3 | 1.04 | 35.8 | 0.80 | 79.8 | 0.97 | 211.8 | 1.19 | 270.9 | 1.14 | 271.0 | 0.99 |
| 38.3 | 0.87 | 82.3 | 1.04 | 36.8 | 0.81 | 80.8 | 0.97 | 225.3 | 1.21 | 285.9 | 1.15 | 301.0 | 1.01 |
| 39.3 | 0.88 | 83.3 | 1.04 | 37.8 | 0.81 | 81.8 | 0.97 | 240.3 | 1.22 | 300.9 | 1.16 | 331.0 | 1.03 |
| 40.3 | 0.89 | 84.3 | 1.04 | 38.8 | 0.82 | 82.8 | 0.98 | 255.3 | 1.24 | 315.9 | 1.18 | 361.0 | 1.05 |
| 41.3 | 0.89 | 85.3 | 1.05 | 39.8 | 0.83 | 83.8 | 0.98 | 270.3 | 1.25 | 330.9 | 1.19 | 391.0 | 1.07 |
| 42.3 | 0.90 | 86.3 | 1.05 | 40.8 | 0.83 | 84.8 | 0.98 | 285.3 | 1.26 | 345.9 | 1.20 | 421.0 | 1.09 |
| 42.3 | 0.90 | 87.3 | 1.05 | 41.8 | 0.83 | 85.8 | 0.99 | 300.3 | 1.27 | 360.9 | 1.21 | 481.0 | 1.12 |
| 43.3 | 0.91 | 88.3 | 1.05 | 42.8 | 0.84 | 86.8 | 0.99 | 315.3 | 1.29 | 390.9 | 1.23 | 541.0 | 1.14 |
| 44.3 | 0.91 | 89.3 | 1.06 | 43.8 | 0.85 | 87.8 | 0.99 | **C Belts** | | 420.9 | 1.24 | 601.0 | 1.17 |
| 45.3 | 0.92 | 90.3 | 1.06 | 44.8 | 0.85 | 88.8 | 0.99 | 53.9 | 0.80 | 450.9 | 1.26 | | |
| 46.3 | 0.92 | 91.3 | 1.06 | 45.8 | 0.85 | 89.8 | 1.00 | 57.9 | 0.81 | 480.9 | 1.27 | | |
| 47.3 | 0.93 | 92.3 | 1.06 | 46.8 | 0.86 | 90.8 | 1.00 | 62.9 | 0.82 | **D Belts** | | | |
| 48.3 | 0.93 | 93.3 | 1.07 | 47.8 | 0.87 | 91.8 | 1.00 | 70.9 | 0.85 | 108.3 | 0.83 | | |
| 49.3 | 0.93 | 94.3 | 1.07 | 48.8 | 0.87 | 92.8 | 1.00 | 73.9 | 0.87 | 115.3 | 0.84 | | |
| 50.3 | 0.94 | 95.3 | 1.07 | 49.8 | 0.87 | 93.8 | 1.00 | 77.9 | 0.89 | 123.3 | 0.86 | | |
| 51.3 | 0.94 | 96.3 | 1.07 | 50.8 | 0.88 | 94.8 | 1.01 | 83.9 | 0.90 | 131.3 | 0.87 | | |
| 52.3 | 0.95 | 97.3 | 1.08 | 51.8 | 0.88 | 95.8 | 1.01 | 87.9 | 0.91 | 147.3 | 0.90 | | |
| 53.3 | 0.95 | 98.3 | 1.08 | 52.8 | 0.89 | 96.8 | 1.01 | 92.9 | 0.92 | 161.3 | 0.92 | | |
| 54.3 | 0.96 | 99.3 | 1.08 | 53.8 | 0.89 | 97.8 | 1.01 | 98.9 | 0.92 | 165.3 | 0.92 | | |
| 55.3 | 0.96 | 101.3 | 1.08 | 54.8 | 0.89 | 98.8 | 1.02 | 99.9 | 0.92 | 176.3 | 0.93 | | |
| 56.6 | 0.96 | 106.3 | 1.10 | 55.8 | 0.89 | 99.8 | 1.02 | 101.9 | 0.92 | 183.3 | 0.94 | | |
| 57.3 | 0.96 | 111.3 | 1.11 | 56.8 | 0.90 | 100.8 | 1.02 | 103.9 | 0.94 | 198.3 | 0.96 | | |

# E Belts recommended for replacement only, not for new drive design

**Table 10 - Arc Correction Factors**

| D-d‡ / C | Approx. Arc of Contact on Small Shv. | Factor | D-d‡ / C | Approx. Arc of Contact on Small Shv. | Factor |
|---|---|---|---|---|---|
| .00 | 180° | 1.00 | .80 | 133° | .87 |
| .10 | 174° | .99 | .90 | 127° | .85 |
| .20 | 169° | .97 | 1.00 | 120° | .82 |
| .30 | 163° | .96 | 1.10 | 113° | .80 |
| .40 | 157° | .94 | 1.20 | 106° | .77 |
| .50 | 151° | .93 | 1.30 | 99° | .73 |
| .60 | 145° | .91 | 1.40 | 91° | .70 |
| .70 | 139° | .89 | 1.50 | 83° | .65 |

‡ D = Dia. of large sheave.
d = Dia. of small sheave.
C = Center distance

**Selection program available at www.ptwizard.com**

# Selection

## Stock Drive Selection

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | A26 | A31 | A33 | A35 | A38 | A42 | A46 |
| | Driver | Driven | RPM | A | AX | RPM | A | AX | RPM | A | AX | AX26 | AX31 | AX33 | AX35 | AX38 | AX42 | AX46 |
| | 3.0 | 3.0 | 3500 | 3.42 | 4.61 | 1750 | 2.37 | 3.08 | 1160 | 1.78 | 2.33 | 8.9 | 11.4 | 12.4 | 13.4 | 14.9 | 16.9 | 18.9 |
| | 3.4 | 3.4 | 3500 | 4.60 | 5.68 | 1750 | 3.09 | 3.72 | 1160 | 2.29 | 2.79 | 8.3 | 10.8 | 11.8 | 12.8 | 14.3 | 16.3 | 18.3 |
| | 3.8 | 3.8 | 3500 | 5.72 | 6.70 | 1750 | 3.80 | 4.35 | 1160 | 2.79 | 3.24 | 7.7 | 10.2 | 11.2 | 12.2 | 13.7 | 15.7 | 17.7 |
| | 4.2 | 4.2 | 3500 | 6.77 | 7.68 | 1750 | 4.49 | 4.96 | 1160 | 3.29 | 3.69 | 7.1 | 9.6 | 10.6 | 11.6 | 13.1 | 15.1 | 17.1 |
| **1.00** | 4.6 | 4.6 | 3500 | 7.75 | 8.62 | 1750 | 5.16 | 5.56 | 1160 | 3.77 | 4.13 | 6.4 | 8.9 | 9.9 | 10.9 | 12.4 | 14.4 | 16.4 |
| | 5.0 | 5.0 | 3500 | 8.66 | 9.52 | 1750 | 5.83 | 6.15 | 1160 | 4.25 | 4.56 | – | 8.3 | 9.3 | 10.3 | 11.8 | 13.8 | 15.8 |
| | 5.2 | 5.2 | 3500 | 9.09 | 9.96 | 1750 | 6.15 | 6.44 | 1160 | 4.49 | 4.77 | – | 8.0 | 9.0 | 10.0 | 11.5 | 13.5 | 15.5 |
| | 6.0 | 6.0 | 3500 | 10.60 | 11.59 | 1750 | 7.42 | 7.57 | 1160 | 5.43 | 5.60 | – | – | 7.7 | 8.7 | 10.2 | 12.2 | 14.2 |
| | 7.0 | 7.0 | 3500 | – | – | 1750 | 8.92 | 8.92 | 1160 | 6.56 | 6.61 | – | – | – | – | 8.7 | 10.7 | 12.7 |
| **1.03** | 5.6 | 5.8 | 3387 | 10.02 | 10.93 | 1693 | 6.86 | 7.08 | 1122 | 5.01 | 5.23 | – | 7.2 | 8.2 | 9.2 | 10.7 | 12.7 | 14.7 |
| **1.04** | 5.0 | 5.2 | 3375 | 8.81 | 9.67 | 1687 | 5.90 | 6.23 | 1118 | 4.30 | 4.60 | 5.6 | 8.1 | 9.1 | 10.1 | 11.6 | 13.6 | 15.6 |
| | 4.2 | 4.4 | 3354 | 6.94 | 7.85 | 1677 | 4.57 | 5.05 | 1111 | 3.34 | 3.75 | 6.9 | 9.4 | 10.4 | 11.4 | 12.9 | 14.9 | 16.9 |
| **1.05** | 3.6 | 3.8 | 3333 | 5.36 | 6.39 | 1666 | 3.54 | 4.13 | 1104 | 2.61 | 3.08 | 7.8 | 10.3 | 11.3 | 12.3 | 13.8 | 15.8 | 17.8 |
| **1.06** | 3.0 | 3.2 | 3304 | 3.64 | 4.83 | 1652 | 2.48 | 3.19 | 1095 | 1.86 | 2.40 | 8.8 | 11.3 | 12.3 | 13.3 | 14.8 | 16.8 | 18.8 |
| | 6.0 | 6.4 | 3294 | 10.83 | 11.82 | 1647 | 7.54 | 7.69 | 1092 | 5.50 | 5.68 | – | 6.4 | 7.4 | 8.4 | 9.9 | 11.9 | 13.9 |
| **1.07** | 5.2 | 5.6 | 3266 | 9.35 | 10.22 | 1633 | 6.28 | 6.57 | 1082 | 4.58 | 4.85 | – | 7.7 | 8.7 | 9.7 | 11.2 | 13.2 | 15.2 |
| **1.08** | 4.6 | 5.0 | 3240 | 8.04 | 8.91 | 1620 | 5.31 | 5.71 | 1074 | 3.87 | 4.22 | 6.1 | 8.6 | 9.6 | 10.6 | 12.1 | 14.1 | 16.1 |
| **1.09** | 4.0 | 4.4 | 3207 | 6.57 | 7.51 | 1604 | 4.30 | 4.82 | 1063 | 3.14 | 3.57 | 7.1 | 9.6 | 10.6 | 11.6 | 13.1 | 15.1 | 17.1 |
| | 6.0 | 6.6 | 3199 | 10.92 | 11.91 | 1600 | 7.58 | 7.73 | 1060 | 5.53 | 5.71 | – | 6.3 | 7.3 | 8.3 | 9.8 | 11.8 | 13.8 |
| **1.10** | 5.6 | 6.2 | 3181 | 10.23 | 11.13 | 1590 | 6.96 | 7.18 | 1054 | 5.07 | 5.30 | – | 6.9 | 7.9 | 8.9 | 10.4 | 12.4 | 14.4 |
| | 3.6 | 4.0 | 3180 | 5.51 | 6.53 | 1590 | 3.61 | 4.21 | 1054 | 2.66 | 3.13 | 7.7 | 10.2 | 11.2 | 12.2 | 13.7 | 15.7 | 17.7 |
| **1.11** | 5.2 | 5.8 | 3160 | 9.45 | 10.31 | 1580 | 6.33 | 6.62 | 1047 | 4.61 | 4.89 | – | 7.5 | 8.5 | 9.5 | 11.0 | 13.0 | 15.0 |
| | 3.2 | 3.6 | 3148 | 4.38 | 5.52 | 1574 | 2.92 | 3.59 | 1043 | 2.16 | 2.68 | 8.3 | 10.8 | 11.8 | 12.8 | 14.3 | 16.3 | 18.3 |
| **1.12** | 4.8 | 5.4 | 3137 | 8.60 | 9.46 | 1568 | 5.69 | 6.05 | 1040 | 4.14 | 4.47 | 5.6 | 8.1 | 9.1 | 10.1 | 11.6 | 13.6 | 15.6 |
| | 3.0 | 3.4 | 3130 | 3.80 | 5.00 | 1565 | 2.56 | 3.27 | 1037 | 1.91 | 2.46 | 8.6 | 11.1 | 12.1 | 13.1 | 14.6 | 16.6 | 18.6 |
| **1.13** | 4.2 | 4.8 | 3095 | 7.18 | 8.10 | 1547 | 4.69 | 5.17 | 1026 | 3.42 | 3.83 | 6.6 | 9.1 | 10.1 | 11.1 | 12.6 | 14.6 | 16.6 |
| | 5.6 | 6.4 | 3087 | 10.31 | 11.21 | 1544 | 7.00 | 7.22 | 1023 | 5.10 | 5.33 | – | 6.7 | 7.7 | 8.7 | 10.2 | 12.2 | 14.2 |
| **1.14** | 3.8 | 4.4 | 3061 | 6.16 | 7.14 | 1530 | 4.02 | 4.57 | 1014 | 2.94 | 3.39 | 7.2 | 9.7 | 10.7 | 11.7 | 13.2 | 15.2 | 17.2 |
| **1.15** | 5.0 | 5.8 | 3047 | 9.12 | 9.97 | 1523 | 6.05 | 6.38 | 1010 | 4.40 | 4.70 | – | 7.7 | 8.7 | 9.7 | 11.2 | 13.2 | 15.2 |
| | 3.6 | 4.2 | 3041 | 5.62 | 6.65 | 1521 | 3.67 | 4.27 | 1008 | 2.69 | 3.17 | 7.5 | 10.0 | 11.0 | 12.0 | 13.5 | 15.5 | 17.5 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.74** | **0.79** | **0.81** | **0.82** | **0.84** | **0.87** | **0.89** |
| | 6.0 | 7.0 | 3026 | 11.07 | 12.06 | 1513 | 7.65 | 7.80 | 1003 | 5.58 | 5.75 | – | – | 6.9 | 7.9 | 9.4 | 11.4 | 13.4 |
| **1.16** | 3.4 | 4.0 | 3021 | 5.07 | 6.15 | 1510 | 3.33 | 3.96 | 1001 | 2.45 | 2.95 | 7.8 | 10.3 | 11.3 | 12.3 | 13.8 | 15.8 | 17.8 |
| | 4.6 | 5.4 | 3016 | 8.23 | 9.10 | 1508 | 5.40 | 5.80 | 999 | 3.93 | 4.28 | 5.8 | 8.3 | 9.3 | 10.3 | 11.8 | 13.8 | 15.8 |
| **1.17** | 3.2 | 3.8 | 2998 | 4.50 | 5.64 | 1499 | 2.98 | 3.65 | 993 | 2.20 | 2.72 | 8.1 | 10.7 | 11.7 | 12.7 | 14.2 | 16.2 | 18.2 |
| **1.18** | 3.0 | 3.6 | 2972 | 3.92 | 5.12 | 1486 | 2.62 | 3.34 | 985 | 1.95 | 2.50 | 8.5 | 11.0 | 12.0 | 13.0 | 14.5 | 16.5 | 18.5 |
| | 4.0 | 4.8 | 2959 | 6.77 | 7.71 | 1480 | 4.40 | 4.92 | 981 | 3.21 | 3.64 | 6.7 | 9.2 | 10.2 | 11.2 | 12.7 | 14.7 | 16.7 |
| **1.19** | 5.0 | 6.0 | 2951 | 9.19 | 10.04 | 1476 | 6.09 | 6.41 | 978 | 4.43 | 4.73 | – | 7.5 | 8.5 | 9.5 | 11.0 | 13.0 | 15.0 |
| | 3.8 | 4.6 | 2938 | 6.25 | 7.23 | 1469 | 4.06 | 4.62 | 974 | 2.97 | 3.42 | 7.0 | 9.5 | 10.5 | 11.5 | 13.0 | 15.1 | 17.1 |
| **1.21** | 3.4 | 4.2 | 2889 | 5.16 | 6.24 | 1444 | 3.37 | 4.01 | 957 | 2.48 | 2.98 | 7.7 | 10.2 | 11.2 | 12.2 | 13.7 | 15.7 | 17.7 |
| **1.22** | 5.2 | 6.4 | 2881 | 9.66 | 10.53 | 1440 | 6.44 | 6.73 | 955 | 4.68 | 4.96 | – | 7.0 | 8.0 | 9.0 | 10.5 | 12.5 | 14.5 |
| **1.23** | 4.0 | 5.0 | 2849 | 6.84 | 7.78 | 1425 | 4.44 | 4.95 | 944 | 3.23 | 3.66 | 6.6 | 9.1 | 10.1 | 11.1 | 12.6 | 14.6 | 16.6 |
| | 5.6 | 7.0 | 2836 | 10.48 | 11.39 | 1418 | 7.09 | 7.31 | 940 | 5.16 | 5.38 | – | 6.2 | 7.2 | 8.2 | 9.7 | 11.7 | 13.7 |
| **1.24** | 3.0 | 3.8 | 2830 | 4.02 | 5.21 | 1415 | 2.67 | 3.38 | 938 | 1.98 | 2.53 | 8.3 | 10.8 | 11.8 | 12.8 | 14.3 | 16.3 | 18.3 |
| | 3.8 | 4.8 | 2824 | 6.32 | 7.30 | 1412 | 4.10 | 4.65 | 936 | 2.99 | 3.44 | 6.9 | 9.4 | 10.4 | 11.4 | 12.9 | 14.9 | 16.9 |
| | 4.6 | 5.8 | 2820 | 8.36 | 9.23 | 1410 | 5.47 | 5.87 | 935 | 3.97 | 4.33 | 5.5 | 8.0 | 9.0 | 10.0 | 11.5 | 13.5 | 15.5 |
| **1.25** | 5.2 | 6.6 | 2798 | 9.71 | 10.57 | 1399 | 6.46 | 6.75 | 927 | 4.70 | 4.97 | – | 6.9 | 7.9 | 8.9 | 10.4 | 12.4 | 14.4 |
| **1.26** | 4.2 | 5.4 | 2773 | 7.40 | 8.31 | 1387 | 4.80 | 5.28 | 919 | 3.50 | 3.90 | 6.1 | 8.6 | 9.6 | 10.6 | 12.1 | 14.1 | 16.1 |
| **1.27** | 6.4 | 8.2 | 2766 | 11.86 | 12.98 | 1383 | 8.35 | 8.44 | 917 | 6.10 | 6.22 | – | – | – | – | 8.1 | 10.1 | 12.2 |
| | 4.8 | 6.2 | 2755 | 8.86 | 9.72 | 1378 | 5.82 | 6.18 | 913 | 4.23 | 4.55 | – | 7.5 | 8.5 | 9.5 | 11.0 | 13.0 | 15.0 |
| **1.28** | 4.6 | 6.0 | 2732 | 8.41 | 9.28 | 1366 | 5.49 | 5.89 | 905 | 3.99 | 4.34 | 5.3 | 7.8 | 8.8 | 9.8 | 11.3 | 13.3 | 15.3 |
| **1.29** | 3.8 | 5.0 | 2719 | 6.38 | 7.36 | 1360 | 4.13 | 4.68 | 901 | 3.01 | 3.46 | 6.7 | 9.2 | 10.2 | 11.2 | 12.7 | 14.7 | 16.7 |
| **1.30** | 3.0 | 4.0 | 2701 | 4.09 | 5.28 | 1350 | 2.71 | 3.42 | 895 | 2.01 | 2.55 | 8.1 | 10.6 | 11.6 | 12.6 | 14.1 | 16.1 | 18.1 |
| | 3.6 | 4.8 | 2689 | 5.84 | 6.87 | 1345 | 3.78 | 4.38 | 891 | 2.77 | 3.24 | 7.0 | 9.5 | 10.5 | 11.5 | 13.0 | 15.0 | 17.0 |
| **1.31** | 4.8 | 6.4 | 2674 | 8.90 | 9.76 | 1337 | 5.84 | 6.20 | 886 | 4.24 | 4.57 | – | 7.3 | 8.3 | 9.3 | 10.8 | 12.8 | 14.8 |
| **1.32** | 4.0 | 5.4 | 2652 | 6.95 | 7.89 | 1326 | 4.49 | 5.01 | 879 | 3.27 | 3.70 | 6.2 | 8.7 | 9.7 | 10.7 | 12.3 | 14.3 | 16.3 |
| | 5.2 | 7.0 | 2646 | 9.79 | 10.65 | 1323 | 6.50 | 6.79 | 877 | 4.72 | 5.00 | – | 6.5 | 7.5 | 8.5 | 10.0 | 12.0 | 14.0 |
| **1.33** | 5.6 | 7.6 | 2623 | 10.59 | 11.50 | 1311 | 7.15 | 7.36 | 869 | 5.20 | 5.42 | – | – | 6.7 | 7.7 | 9.2 | 11.2 | 13.3 |
| **1.34** | 3.2 | 4.4 | 2621 | 4.72 | 5.86 | 1311 | 3.09 | 3.76 | 869 | 2.27 | 2.80 | 7.7 | 10.2 | 11.2 | 12.2 | 13.7 | 15.7 | 17.7 |
| | 6.0 | 8.2 | 2603 | 11.31 | 12.31 | 1301 | 7.78 | 7.93 | 863 | 5.66 | 5.84 | – | – | – | 6.9 | 8.4 | 10.4 | 12.5 |
| **1.35** | 4.2 | 5.8 | 2594 | 7.49 | 8.40 | 1297 | 4.85 | 5.32 | 860 | 3.52 | 3.93 | 5.7 | 8.3 | 9.3 | 10.3 | 11.8 | 13.8 | 15.8 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.74** | **0.78** | **0.80** | **0.82** | **0.84** | **0.87** | **0.89** |

# Selection

## Stock Drive Selection

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A48 | A51 | A53 | A55 | A60 | A64 | A66 | A68 | A71 | A75 | A78 | A80 | A85 | A90 | A96 | A105 | A112 | A120 | A128 |
| | AX48 | AX51 | AX53 | AX55 | AX60 | AX64 | AX66 | AX68 | AX71 | AX75 | AX78 | AX80 | AX85 | AX90 | AX96 | AX105 | AX112 | AX120 | AX128 |
| | 19.9 | 21.4 | 22.4 | 23.4 | 25.9 | 27.9 | 28.9 | 29.9 | 31.4 | 33.4 | 34.9 | 35.9 | 38.4 | 40.9 | 43.9 | 48.4 | 51.9 | 55.9 | 59.9 |
| | 19.3 | 20.8 | 21.8 | 22.8 | 25.3 | 27.3 | 28.3 | 29.3 | 30.8 | 32.8 | 34.3 | 35.3 | 37.8 | 40.3 | 43.3 | 47.8 | 51.3 | 55.3 | 59.3 |
| | 18.7 | 20.2 | 21.2 | 22.2 | 24.7 | 26.7 | 27.7 | 28.7 | 30.2 | 32.2 | 33.7 | 34.7 | 37.2 | 39.7 | 42.7 | 47.2 | 50.7 | 54.7 | 58.7 |
| | 18.1 | 19.6 | 20.6 | 21.6 | 24.1 | 26.1 | 27.1 | 28.1 | 29.6 | 31.6 | 33.1 | 34.1 | 36.6 | 39.1 | 42.1 | 46.6 | 50.1 | 54.1 | 58.1 |
| 1.00 | 17.4 | 18.9 | 19.9 | 20.9 | 23.4 | 25.4 | 26.4 | 27.4 | 28.9 | 30.9 | 32.4 | 33.4 | 35.9 | 38.4 | 41.4 | 45.9 | 49.4 | 53.4 | 57.4 |
| | 16.8 | 18.3 | 19.3 | 20.3 | 22.8 | 24.8 | 25.8 | 26.8 | 28.3 | 30.3 | 31.8 | 32.8 | 35.3 | 37.8 | 40.8 | 45.3 | 48.8 | 52.8 | 56.8 |
| | 16.5 | 18.0 | 19.0 | 20.0 | 22.5 | 24.5 | 25.5 | 26.5 | 28.0 | 30.0 | 31.5 | 32.5 | 35.0 | 37.5 | 40.5 | 45.0 | 48.5 | 52.5 | 56.5 |
| | 15.2 | 16.7 | 17.7 | 18.7 | 21.2 | 23.2 | 24.2 | 25.2 | 26.7 | 28.7 | 30.2 | 31.2 | 33.7 | 36.2 | 39.2 | 43.7 | 47.2 | 51.2 | 55.2 |
| | 13.7 | 15.2 | 16.2 | 17.2 | 19.7 | 21.7 | 22.7 | 23.7 | 25.2 | 27.2 | 28.7 | 29.7 | 32.2 | 34.7 | 37.7 | 42.2 | 45.7 | 49.7 | 53.7 |
| 1.03 | 15.7 | 17.2 | 18.2 | 19.2 | 21.7 | 23.7 | 24.7 | 25.7 | 27.2 | 29.2 | 30.7 | 31.7 | 34.2 | 36.7 | 39.7 | 44.2 | 47.7 | 51.7 | 55.7 |
| 1.04 | 16.6 | 18.1 | 19.1 | 20.1 | 22.6 | 24.6 | 25.6 | 26.6 | 28.1 | 30.1 | 31.6 | 32.6 | 35.1 | 37.6 | 40.6 | 45.1 | 48.6 | 52.6 | 56.6 |
| | 17.9 | 19.4 | 20.4 | 21.4 | 23.9 | 25.9 | 26.9 | 27.9 | 29.4 | 31.4 | 32.9 | 33.9 | 36.4 | 38.9 | 41.9 | 46.4 | 49.9 | 53.9 | 57.9 |
| 1.05 | 18.8 | 20.3 | 21.3 | 22.3 | 24.8 | 26.8 | 27.8 | 28.8 | 30.3 | 32.3 | 33.8 | 34.8 | 37.3 | 39.8 | 42.8 | 47.3 | 50.8 | 54.8 | 58.8 |
| 1.06 | 19.8 | 21.3 | 22.3 | 23.3 | 25.8 | 27.8 | 28.8 | 29.8 | 31.3 | 33.3 | 34.8 | 35.8 | 38.3 | 40.8 | 43.8 | 48.3 | 51.8 | 55.8 | 59.8 |
| | 14.9 | 16.4 | 17.4 | 18.4 | 20.9 | 22.9 | 23.9 | 24.9 | 26.4 | 28.4 | 29.9 | 30.9 | 33.4 | 35.9 | 38.9 | 43.4 | 46.9 | 50.9 | 54.9 |
| 1.07 | 16.2 | 17.7 | 18.7 | 19.7 | 22.2 | 24.2 | 25.2 | 26.2 | 27.7 | 29.7 | 31.2 | 32.2 | 34.7 | 37.2 | 40.2 | 44.7 | 48.2 | 52.2 | 56.2 |
| 1.08 | 17.1 | 18.6 | 19.6 | 20.6 | 23.1 | 25.1 | 26.1 | 27.1 | 28.6 | 30.6 | 32.1 | 33.1 | 35.6 | 38.1 | 41.1 | 45.6 | 49.1 | 53.1 | 57.1 |
| 1.09 | 18.1 | 19.6 | 20.6 | 21.6 | 24.1 | 26.1 | 27.1 | 28.1 | 29.6 | 31.6 | 33.1 | 34.1 | 36.6 | 39.1 | 42.1 | 46.6 | 50.1 | 54.1 | 58.1 |
| | 14.8 | 16.3 | 17.3 | 18.3 | 20.8 | 22.8 | 23.8 | 24.8 | 26.3 | 28.3 | 29.8 | 30.8 | 33.3 | 35.8 | 38.8 | 43.3 | 46.8 | 50.8 | 54.8 |
| 1.10 | 15.4 | 16.9 | 17.9 | 18.9 | 21.4 | 23.4 | 24.4 | 25.4 | 26.9 | 28.9 | 30.4 | 31.4 | 33.9 | 36.4 | 39.4 | 43.9 | 47.4 | 51.4 | 55.4 |
| | 18.7 | 20.2 | 21.2 | 22.2 | 24.7 | 26.7 | 27.7 | 28.7 | 30.2 | 32.2 | 33.7 | 34.7 | 37.2 | 39.7 | 42.7 | 47.2 | 50.7 | 54.7 | 58.7 |
| 1.11 | 16.0 | 17.5 | 18.5 | 19.5 | 22.0 | 24.0 | 25.0 | 26.0 | 27.5 | 29.5 | 31.0 | 32.0 | 34.5 | 37.0 | 40.0 | 44.5 | 48.0 | 52.0 | 56.0 |
| | 19.3 | 20.8 | 21.8 | 22.8 | 25.3 | 27.3 | 28.3 | 29.3 | 30.8 | 32.8 | 34.3 | 35.3 | 37.8 | 40.3 | 43.3 | 47.8 | 51.3 | 55.3 | 59.3 |
| 1.12 | 16.6 | 18.1 | 19.1 | 20.1 | 22.6 | 24.6 | 25.6 | 26.6 | 28.1 | 30.1 | 31.6 | 32.6 | 35.1 | 37.6 | 40.6 | 45.1 | 48.6 | 52.6 | 56.6 |
| | 19.6 | 21.1 | 22.1 | 23.1 | 25.6 | 27.6 | 28.6 | 29.6 | 31.1 | 33.1 | 34.6 | 35.6 | 38.1 | 40.6 | 43.6 | 48.1 | 51.6 | 55.6 | 59.6 |
| 1.13 | 17.6 | 19.1 | 20.1 | 21.1 | 23.6 | 25.6 | 26.6 | 27.6 | 29.1 | 31.1 | 32.6 | 33.6 | 36.1 | 38.6 | 41.6 | 46.1 | 49.6 | 53.6 | 57.6 |
| | 15.2 | 16.7 | 17.7 | 18.7 | 21.2 | 23.2 | 24.2 | 25.2 | 26.7 | 28.7 | 30.2 | 31.2 | 33.7 | 36.2 | 39.2 | 43.7 | 47.2 | 51.2 | 55.2 |
| 1.14 | 18.2 | 19.7 | 20.7 | 21.7 | 24.2 | 26.2 | 27.2 | 28.2 | 29.7 | 31.7 | 33.2 | 34.2 | 36.7 | 39.2 | 42.2 | 46.7 | 50.2 | 54.2 | 58.2 |
| 1.15 | 16.2 | 17.7 | 18.7 | 19.7 | 22.2 | 24.2 | 25.2 | 26.2 | 27.7 | 29.7 | 31.2 | 32.2 | 34.7 | 37.2 | 40.2 | 44.7 | 48.2 | 52.2 | 56.2 |
| | 18.5 | 20.0 | 21.0 | 22.0 | 24.5 | 26.5 | 27.5 | 28.5 | 30.0 | 32.0 | 33.5 | 34.5 | 37.0 | 39.5 | 42.5 | 47.0 | 50.5 | 54.5 | 58.5 |
| | 0.90 | 0.92 | 0.93 | 0.94 | 0.96 | 0.97 | 0.99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.06 | 1.07 | 1.09 | 1.12 | 1.13 | 1.15 | 1.17 |
| | 14.4 | 15.9 | 16.9 | 17.9 | 20.4 | 22.4 | 23.4 | 24.4 | 25.9 | 27.9 | 29.4 | 30.4 | 32.9 | 35.4 | 38.4 | 42.9 | 46.4 | 50.4 | 54.4 |
| 1.16 | 18.8 | 20.3 | 21.3 | 22.3 | 24.8 | 26.8 | 27.8 | 28.8 | 30.3 | 32.3 | 33.8 | 34.8 | 37.3 | 39.8 | 42.8 | 47.3 | 50.8 | 54.8 | 58.8 |
| | 16.8 | 18.3 | 19.3 | 20.3 | 22.8 | 24.8 | 25.8 | 26.8 | 28.3 | 30.3 | 31.8 | 32.8 | 35.3 | 37.8 | 40.8 | 45.3 | 48.8 | 52.8 | 56.8 |
| 1.17 | 19.2 | 20.7 | 21.7 | 22.7 | 25.2 | 27.2 | 28.2 | 29.2 | 30.7 | 32.7 | 34.2 | 35.2 | 37.7 | 40.2 | 43.2 | 47.7 | 51.2 | 55.2 | 59.2 |
| 1.18 | 19.5 | 21.0 | 22.0 | 23.0 | 25.5 | 27.5 | 28.5 | 29.5 | 31.0 | 33.0 | 34.5 | 35.5 | 38.0 | 40.5 | 43.5 | 48.0 | 51.5 | 55.5 | 59.5 |
| | 17.7 | 19.2 | 20.2 | 21.2 | 23.7 | 25.7 | 26.7 | 27.7 | 29.2 | 31.2 | 32.7 | 33.7 | 36.2 | 38.7 | 41.7 | 46.2 | 49.7 | 53.7 | 57.7 |
| 1.19 | 16.0 | 17.5 | 18.5 | 19.5 | 22.0 | 24.0 | 25.0 | 26.0 | 27.5 | 29.5 | 31.0 | 32.0 | 34.5 | 37.0 | 40.0 | 44.5 | 48.0 | 52.0 | 56.0 |
| | 18.1 | 19.6 | 20.6 | 21.6 | 24.1 | 26.1 | 27.1 | 28.1 | 29.6 | 31.6 | 33.1 | 34.1 | 36.6 | 39.1 | 42.1 | 46.6 | 50.1 | 54.1 | 58.1 |
| 1.21 | 18.7 | 20.2 | 21.2 | 22.2 | 24.7 | 26.7 | 27.7 | 28.7 | 30.2 | 32.2 | 33.7 | 34.7 | 37.2 | 39.7 | 42.7 | 47.2 | 50.7 | 54.7 | 58.7 |
| 1.22 | 15.5 | 17.0 | 18.0 | 19.0 | 21.5 | 23.5 | 24.5 | 25.5 | 27.0 | 29.0 | 30.5 | 31.5 | 34.0 | 36.5 | 39.5 | 44.0 | 47.5 | 51.5 | 55.5 |
| 1.23 | 17.6 | 19.1 | 20.1 | 21.1 | 23.6 | 25.6 | 26.6 | 27.6 | 29.1 | 31.1 | 32.6 | 33.6 | 36.1 | 38.6 | 41.6 | 46.1 | 49.6 | 53.6 | 57.6 |
| | 14.7 | 16.2 | 17.2 | 18.2 | 20.7 | 22.7 | 23.7 | 24.7 | 26.2 | 28.3 | 29.8 | 30.8 | 33.3 | 35.8 | 38.8 | 43.3 | 46.8 | 50.8 | 54.8 |
| | 19.3 | 20.8 | 21.8 | 22.8 | 25.3 | 27.3 | 28.3 | 29.3 | 30.8 | 32.8 | 34.3 | 35.3 | 37.8 | 40.3 | 43.3 | 47.8 | 51.3 | 55.3 | 59.3 |
| 1.24 | 17.9 | 19.4 | 20.4 | 21.4 | 23.9 | 25.9 | 26.9 | 27.9 | 29.4 | 31.4 | 32.9 | 33.9 | 36.4 | 38.9 | 41.9 | 46.4 | 49.9 | 53.9 | 57.9 |
| | 16.5 | 18.0 | 19.0 | 20.0 | 22.5 | 24.5 | 25.5 | 26.5 | 28.0 | 30.0 | 31.5 | 32.5 | 35.0 | 37.5 | 40.5 | 45.0 | 48.5 | 52.5 | 56.5 |
| 1.25 | 15.4 | 16.9 | 17.9 | 18.9 | 21.4 | 23.4 | 24.4 | 25.4 | 26.9 | 28.9 | 30.4 | 31.4 | 33.9 | 36.4 | 39.4 | 43.9 | 47.4 | 51.4 | 55.4 |
| 1.26 | 17.1 | 18.6 | 19.6 | 20.6 | 23.1 | 25.1 | 26.1 | 27.1 | 28.6 | 30.6 | 32.1 | 33.1 | 35.6 | 38.1 | 41.1 | 45.6 | 49.1 | 53.1 | 57.1 |
| 1.27 | 13.2 | 14.7 | 15.7 | 16.7 | 19.2 | 21.2 | 22.2 | 23.2 | 24.7 | 26.7 | 28.2 | 29.2 | 31.7 | 34.2 | 37.2 | 41.7 | 45.2 | 49.2 | 53.2 |
| | 16.0 | 17.5 | 18.5 | 19.5 | 22.0 | 24.0 | 25.0 | 26.0 | 27.5 | 29.5 | 31.0 | 32.0 | 34.5 | 37.0 | 40.0 | 44.5 | 48.0 | 52.0 | 56.0 |
| 1.28 | 16.3 | 17.8 | 18.8 | 19.8 | 22.3 | 24.3 | 25.3 | 26.3 | 27.8 | 29.8 | 31.3 | 32.3 | 34.8 | 37.3 | 40.3 | 44.8 | 48.3 | 52.3 | 56.3 |
| 1.29 | 17.7 | 19.2 | 20.2 | 21.2 | 23.7 | 25.7 | 26.7 | 27.7 | 29.2 | 31.2 | 32.7 | 33.7 | 36.2 | 38.7 | 41.7 | 46.2 | 49.7 | 53.7 | 57.7 |
| 1.30 | 19.1 | 20.6 | 21.6 | 22.6 | 25.2 | 27.2 | 28.2 | 29.2 | 30.7 | 32.7 | 34.2 | 35.2 | 37.7 | 40.2 | 43.2 | 47.7 | 51.2 | 55.2 | 59.2 |
| | 18.0 | 19.5 | 20.5 | 21.5 | 24.0 | 26.0 | 27.0 | 28.0 | 29.5 | 31.6 | 33.1 | 34.1 | 36.6 | 39.1 | 42.1 | 46.6 | 50.1 | 54.1 | 58.1 |
| 1.31 | 15.8 | 17.3 | 18.3 | 19.3 | 21.8 | 23.8 | 24.8 | 25.8 | 27.3 | 29.3 | 30.8 | 31.8 | 34.3 | 36.8 | 39.8 | 44.4 | 47.9 | 51.9 | 55.9 |
| 1.32 | 17.3 | 18.8 | 19.8 | 20.8 | 23.3 | 25.3 | 26.3 | 27.3 | 28.8 | 30.8 | 32.3 | 33.3 | 35.8 | 38.3 | 41.3 | 45.8 | 49.3 | 53.3 | 57.3 |
| | 15.0 | 16.5 | 17.5 | 18.6 | 21.1 | 23.1 | 24.1 | 25.1 | 26.6 | 28.6 | 30.1 | 31.1 | 33.6 | 36.1 | 39.1 | 43.6 | 47.1 | 51.1 | 55.1 |
| 1.33 | 14.3 | 15.8 | 16.8 | 17.8 | 20.3 | 22.3 | 23.3 | 24.3 | 25.8 | 27.8 | 29.3 | 30.3 | 32.8 | 35.3 | 38.3 | 42.8 | 46.3 | 50.3 | 54.3 |
| 1.34 | 18.7 | 20.2 | 21.2 | 22.2 | 24.7 | 26.7 | 27.7 | 28.7 | 30.2 | 32.2 | 33.7 | 34.7 | 37.2 | 39.7 | 42.7 | 47.2 | 50.7 | 54.7 | 58.7 |
| | 13.5 | 15.0 | 16.0 | 17.0 | 19.5 | 21.5 | 22.5 | 23.5 | 25.0 | 27.0 | 28.5 | 29.5 | 32.0 | 34.5 | 37.5 | 42.0 | 45.5 | 49.5 | 53.5 |
| 1.35 | 16.8 | 18.3 | 19.3 | 20.3 | 22.8 | 24.8 | 25.8 | 26.8 | 28.3 | 30.3 | 31.8 | 32.8 | 35.3 | 37.8 | 40.8 | 45.3 | 48.8 | 52.8 | 56.8 |
| | 0.90 | 0.92 | 0.93 | 0.94 | 0.96 | 0.97 | 0.99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 | 1.06 | 1.07 | 1.09 | 1.11 | 1.13 | 1.15 | 1.17 |

# Selection

## Stock Drive Selection

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | A26 | A31 | A33 | A35 | A38 | A42 | A46 |
| | Driver | Driven | RPM | A | AX | RPM | A | AX | RPM | A | AX | AX26 | AX31 | AX33 | AX35 | AX38 | AX42 | AX46 |
| 1.36 | 3.0 | 4.2 | 2583 | 4.14 | 5.34 | 1291 | 2.73 | 3.44 | 856 | 2.02 | 2.57 | 8.0 | 10.5 | 11.5 | 12.5 | 14.0 | 16.0 | 18.0 |
| | 4.6 | 6.4 | 2571 | 8.48 | 9.35 | 1285 | 5.53 | 5.93 | 852 | 4.01 | 4.37 | – | 7.5 | 8.5 | 9.5 | 11.0 | 13.0 | 15.0 |
| 1.37 | 5.0 | 7.0 | 2551 | 9.40 | 10.26 | 1276 | 6.19 | 6.52 | 846 | 4.50 | 4.80 | – | 6.7 | 7.7 | 8.7 | 10.2 | 12.2 | 14.2 |
| 1.38 | 3.8 | 5.4 | 2531 | 6.46 | 7.45 | 1266 | 4.17 | 4.72 | 839 | 3.04 | 3.49 | 6.4 | 8.9 | 9.9 | 10.9 | 12.4 | 14.4 | 16.4 |
| | 6.4 | 9.0 | 2530 | 11.97 | 13.09 | 1265 | 8.41 | 8.49 | 838 | 6.13 | 6.25 | – | – | – | – | 7.4 | 9.5 | 11.5 |
| 1.40 | 4.6 | 6.6 | 2497 | 8.51 | 9.38 | 1249 | 5.54 | 5.94 | 828 | 4.02 | 4.38 | – | 7.3 | 8.3 | 9.3 | 10.8 | 12.8 | 14.8 |
| | 3.6 | 5.2 | 2496 | 5.92 | 6.95 | 1248 | 3.82 | 4.42 | 827 | 2.79 | 3.27 | 6.7 | 9.2 | 10.2 | 11.2 | 12.7 | 14.7 | 16.7 |
| 1.41 | 3.0 | 4.4 | 2475 | 4.18 | 5.38 | 1237 | 2.75 | 3.47 | 820 | 2.04 | 2.58 | 7.8 | 10.3 | 11.3 | 12.3 | 13.8 | 15.8 | 17.8 |
| 1.42 | 4.8 | 7.0 | 2457 | 8.99 | 9.85 | 1228 | 5.88 | 6.25 | 814 | 4.27 | 4.60 | – | 6.8 | 7.8 | 8.8 | 10.3 | 12.3 | 14.3 |
| 1.43 | 5.6 | 8.2 | 2439 | 10.66 | 11.57 | 1220 | 7.18 | 7.40 | 808 | 5.22 | 5.44 | – | – | – | 7.2 | 8.7 | 10.7 | 12.8 |
| 1.44 | 4.2 | 6.2 | 2436 | 7.55 | 8.46 | 1218 | 4.88 | 5.35 | 807 | 3.54 | 3.95 | 5.4 | 7.9 | 8.9 | 9.9 | 11.4 | 13.4 | 15.5 |
| 1.45 | 3.2 | 4.8 | 2419 | 4.80 | 5.94 | 1209 | 3.13 | 3.80 | 802 | 2.30 | 2.82 | 7.3 | 9.8 | 10.8 | 11.8 | 13.3 | 15.3 | 17.4 |
| 1.47 | 3.0 | 4.6 | 2376 | 4.22 | 5.41 | 1188 | 2.77 | 3.48 | 787 | 2.05 | 2.60 | 7.6 | 10.2 | 11.2 | 12.2 | 13.7 | 15.7 | 17.7 |
| 1.48 | 3.8 | 5.8 | 2367 | 6.52 | 7.50 | 1184 | 4.20 | 4.75 | 785 | 3.06 | 3.51 | 6.0 | 8.6 | 9.6 | 10.6 | 12.1 | 14.1 | 16.1 |
| | 4.6 | 7.0 | 2362 | 8.56 | 9.43 | 1181 | 5.56 | 5.97 | 783 | 4.04 | 4.39 | – | 6.9 | 8.0 | 9.0 | 10.5 | 12.5 | 14.5 |
| 1.50 | 4.0 | 6.2 | 2330 | 7.07 | 8.01 | 1165 | 4.55 | 5.07 | 772 | 3.31 | 3.74 | 5.5 | 8.1 | 9.1 | 10.1 | 11.6 | 13.6 | 15.6 |
| | 3.2 | 5.0 | 2329 | 4.83 | 5.97 | 1164 | 3.14 | 3.81 | 772 | 2.31 | 2.83 | 7.2 | 9.7 | 10.7 | 11.7 | 13.2 | 15.2 | 17.2 |
| 1.53 | 3.4 | 5.4 | 2289 | 5.42 | 6.50 | 1144 | 3.50 | 4.14 | 759 | 2.56 | 3.07 | 6.7 | 9.2 | 10.2 | 11.2 | 12.7 | 14.7 | 16.7 |
| | 3.0 | 4.8 | 2284 | 4.24 | 5.44 | 1142 | 2.78 | 3.50 | 757 | 2.06 | 2.60 | 7.5 | 10.0 | 11.0 | 12.0 | 13.5 | 15.5 | 17.5 |
| 1.54 | 5.2 | 8.2 | 2276 | 9.92 | 10.79 | 1138 | 6.57 | 6.86 | 754 | 4.77 | 5.04 | – | – | 6.5 | 7.5 | 9.0 | 11.0 | 13.0 |
| 1.55 | 4.0 | 6.4 | 2261 | 7.08 | 8.03 | 1131 | 4.56 | 5.08 | 749 | 3.32 | 3.74 | 5.4 | 7.9 | 8.9 | 9.9 | 11.4 | 13.4 | 15.4 |
| 1.56 | 3.2 | 5.2 | 2246 | 4.85 | 5.99 | 1123 | 3.15 | 3.82 | 744 | 2.32 | 2.84 | 7.0 | 9.5 | 10.5 | 11.5 | 13.0 | 15.0 | 17.0 |
| 1.57 | 5.6 | 9.0 | 2231 | 10.73 | 11.64 | 1116 | 7.21 | 7.43 | 740 | 5.24 | 5.46 | – | – | – | – | 8.0 | 10.0 | 12.1 |
| 1.59 | 3.0 | 5.0 | 2199 | 4.27 | 5.46 | 1099 | 2.79 | 3.51 | 729 | 2.06 | 2.61 | 7.3 | 9.8 | 10.8 | 11.8 | 13.3 | 15.3 | 17.3 |
| | 4.0 | 6.6 | 2196 | 7.10 | 8.05 | 1098 | 4.57 | 5.08 | 728 | 3.32 | 3.75 | – | 7.7 | 8.7 | 9.7 | 11.3 | 13.3 | 15.3 |
| | 5.0 | 8.2 | 2195 | 9.51 | 10.37 | 1097 | 6.25 | 6.58 | 727 | 4.53 | 4.84 | – | – | 6.6 | 7.6 | 9.1 | 11.2 | 13.2 |
| 1.60 | 3.6 | 6.0 | 2183 | 6.02 | 7.05 | 1092 | 3.87 | 4.47 | 724 | 2.82 | 3.30 | 6.0 | 8.5 | 9.5 | 10.5 | 12.1 | 14.1 | 16.1 |
| 1.61 | 4.2 | 7.0 | 2172 | 7.62 | 8.54 | 1086 | 4.91 | 5.39 | 720 | 3.57 | 3.97 | – | 7.2 | 8.2 | 9.3 | 10.8 | 12.8 | 14.8 |
| | 3.2 | 5.4 | 2168 | 4.87 | 6.01 | 1084 | 3.16 | 3.83 | 718 | 2.32 | 2.85 | 6.8 | 9.3 | 10.3 | 11.3 | 12.9 | 14.9 | 16.9 |
| 1.65 | 3.0 | 5.2 | 2120 | 4.28 | 5.48 | 1060 | 2.80 | 3.52 | 703 | 2.07 | 2.62 | 7.1 | 9.7 | 10.7 | 11.7 | 13.2 | 15.2 | 17.2 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.73** | **0.78** | **0.80** | **0.81** | **0.83** | **0.86** | **0.89** |
| 1.65 | 3.6 | 6.2 | 2117 | 6.03 | 7.06 | 1059 | 3.88 | 4.47 | 702 | 2.83 | 3.31 | 5.8 | 8.4 | 9.4 | 10.4 | 11.9 | 13.9 | 15.9 |
| 1.66 | 4.8 | 8.2 | 2113 | 9.09 | 9.95 | 1057 | 5.93 | 6.29 | 700 | 4.30 | 4.63 | – | – | 6.7 | 7.8 | 9.3 | 11.3 | 13.3 |
| 1.67 | 3.8 | 6.6 | 2096 | 6.59 | 7.57 | 1048 | 4.23 | 4.79 | 695 | 3.08 | 3.53 | 5.3 | 7.9 | 8.9 | 9.9 | 11.4 | 13.4 | 15.4 |
| 1.68 | 5.2 | 9.0 | 2082 | 9.97 | 10.83 | 1041 | 6.59 | 6.88 | 690 | 4.78 | 5.06 | – | – | – | 6.7 | 8.3 | 10.3 | 12.4 |
| 1.69 | 3.4 | 6.0 | 2074 | 5.47 | 6.55 | 1037 | 3.53 | 4.16 | 687 | 2.58 | 3.08 | 6.1 | 8.7 | 9.7 | 10.7 | 12.2 | 14.2 | 16.2 |
| 1.71 | 3.0 | 5.4 | 2047 | 4.30 | 5.49 | 1023 | 2.81 | 3.52 | 678 | 2.08 | 2.62 | 7.0 | 9.5 | 10.5 | 11.5 | 13.0 | 15.0 | 17.0 |
| 1.72 | 6.0 | 10.6 | 2034 | 11.48 | 12.47 | 1017 | 7.86 | 8.01 | 674 | 5.72 | 5.89 | – | – | – | – | – | 8.3 | 10.4 |
| | 4.6 | 8.2 | 2031 | 8.64 | 9.51 | 1016 | 5.60 | 6.01 | 673 | 4.07 | 4.42 | – | – | 6.9 | 7.9 | 9.4 | 11.5 | 13.5 |
| 1.74 | 3.4 | 6.2 | 2011 | 5.49 | 6.57 | 1005 | 3.53 | 4.17 | 666 | 2.59 | 3.09 | 5.9 | 8.5 | 9.5 | 10.5 | 12.0 | 14.0 | 16.1 |
| 1.77 | 3.8 | 7.0 | 1982 | 6.61 | 7.59 | 991 | 4.24 | 4.80 | 657 | 3.09 | 3.54 | – | 7.5 | 8.5 | 9.5 | 11.1 | 13.1 | 15.1 |
| | 3.0 | 5.6 | 1978 | 4.31 | 5.51 | 989 | 2.82 | 3.53 | 656 | 2.08 | 2.63 | 6.8 | 9.3 | 10.3 | 11.3 | 12.8 | 14.8 | 16.8 |
| 1.79 | 3.4 | 6.4 | 1951 | 5.50 | 6.58 | 976 | 3.54 | 4.17 | 647 | 2.59 | 3.09 | 5.8 | 8.3 | 9.3 | 10.3 | 11.9 | 13.9 | 15.9 |
| 1.81 | 4.8 | 9.0 | 1933 | 9.12 | 9.98 | 966 | 5.95 | 6.31 | 641 | 4.31 | 4.64 | – | – | – | 7.0 | 8.6 | 10.6 | 12.6 |
| 1.82 | 4.0 | 7.6 | 1921 | 7.15 | 8.10 | 961 | 4.59 | 5.11 | 637 | 3.34 | 3.77 | – | 6.8 | 7.8 | 8.9 | 10.4 | 12.4 | 14.4 |
| 1.83 | 3.0 | 5.8 | 1914 | 4.32 | 5.52 | 957 | 2.82 | 3.53 | 634 | 2.08 | 2.63 | 6.6 | 9.1 | 10.1 | 11.2 | 12.7 | 14.7 | 16.7 |
| 1.84 | 5.6 | 10.6 | 1906 | 10.79 | 11.70 | 953 | 7.25 | 7.46 | 632 | 5.26 | 5.49 | – | – | – | – | – | 8.6 | 10.6 |
| 1.85 | 3.4 | 6.6 | 1895 | 5.51 | 6.58 | 948 | 3.54 | 4.18 | 628 | 2.59 | 3.09 | 5.6 | 8.1 | 9.2 | 10.2 | 11.7 | 13.7 | 15.7 |
| 1.87 | 4.2 | 8.2 | 1868 | 7.68 | 8.59 | 934 | 4.94 | 5.42 | 619 | 3.59 | 3.99 | – | 6.1 | 7.1 | 8.2 | 9.7 | 11.7 | 13.8 |
| 1.88 | 4.6 | 9.0 | 1858 | 8.67 | 9.53 | 929 | 5.62 | 6.02 | 616 | 4.07 | 4.43 | – | – | – | 7.1 | 8.7 | 10.7 | 12.8 |
| 1.89 | 3.0 | 6.0 | 1854 | 4.33 | 5.53 | 927 | 2.83 | 3.54 | 615 | 2.09 | 2.63 | 6.4 | 9.0 | 10.0 | 11.0 | 12.5 | 14.5 | 16.5 |
| 1.91 | 3.8 | 7.6 | 1833 | 6.63 | 7.62 | 917 | 4.25 | 4.81 | 608 | 3.10 | 3.55 | – | 6.9 | 8.0 | 9.0 | 10.5 | 12.6 | 14.6 |
| 1.95 | 3.0 | 6.2 | 1798 | 4.34 | 5.53 | 899 | 2.83 | 3.54 | 596 | 2.09 | 2.64 | 6.2 | 8.8 | 9.8 | 10.8 | 12.3 | 14.3 | 16.3 |
| | 3.4 | 7.0 | 1793 | 5.52 | 6.60 | 896 | 3.55 | 4.18 | 594 | 2.60 | 3.10 | 5.2 | 7.8 | 8.8 | 9.8 | 11.3 | 13.4 | 15.4 |
| 1.96 | 4.0 | 8.2 | 1787 | 7.17 | 8.12 | 893 | 4.60 | 5.12 | 592 | 3.35 | 3.77 | – | 6.2 | 7.3 | 8.3 | 9.8 | 11.9 | 13.9 |
| 1.97 | 5.2 | 10.6 | 1779 | 10.01 | 10.88 | 889 | 6.61 | 6.90 | 590 | 4.80 | 5.07 | – | – | – | – | – | 8.8 | 10.9 |
| 2.00 | 6.4 | 13.2 | 1747 | 12.15 | 13.27 | 874 | 8.50 | 8.58 | 579 | 6.19 | 6.31 | – | – | – | – | – | – | – |
| 2.01 | 3.6 | 7.6 | 1746 | 6.09 | 7.12 | 873 | 3.91 | 4.50 | 579 | 2.85 | 3.33 | – | 7.1 | 8.1 | 9.1 | 10.7 | 12.7 | 14.7 |
| | 3.0 | 6.4 | 1745 | 4.34 | 5.54 | 872 | 2.83 | 3.55 | 578 | 2.09 | 2.64 | 6.0 | 8.6 | 9.6 | 10.6 | 12.2 | 14.2 | 16.2 |
| 2.04 | 5.0 | 10.6 | 1715 | 9.59 | 10.45 | 857 | 6.29 | 6.62 | 568 | 4.56 | 4.86 | – | – | – | – | – | 9.0 | 11.0 |
| 2.05 | 3.8 | 8.2 | 1705 | 6.65 | 7.63 | 853 | 4.26 | 4.82 | 565 | 3.10 | 3.55 | – | 6.3 | 7.4 | 8.4 | 10.0 | 12.0 | 14.1 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.73** | **0.78** | **0.80** | **0.81** | **0.83** | **0.86** | **0.89** |

# Selection

## Stock Drive Selection

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A48 | A51 | A53 | A55 | A60 | A64 | A66 | A68 | A71 | A75 | A78 | A80 | A85 | A90 | A96 | A105 | A112 | A120 | A128 |
| | AX48 | AX51 | AX53 | AX55 | AX60 | AX64 | AX66 | AX68 | AX71 | AX75 | AX78 | AX80 | AX85 | AX90 | AX96 | AX105 | AX112 | AX120 | AX128 |
| **1.36** | 19.0 | 20.5 | 21.5 | 22.5 | 25.0 | 27.0 | 28.0 | 29.0 | 30.5 | 32.5 | 34.0 | 35.0 | 37.5 | 40.0 | 43.0 | 47.5 | 51.0 | 55.0 | 59.0 |
| | 16.0 | 17.5 | 18.5 | 19.5 | 22.0 | 24.0 | 25.0 | 26.0 | 27.5 | 29.5 | 31.0 | 32.0 | 34.5 | 37.0 | 40.0 | 44.5 | 48.0 | 52.0 | 56.0 |
| **1.37** | 15.2 | 16.7 | 17.7 | 18.7 | 21.2 | 23.2 | 24.2 | 25.2 | 26.7 | 28.7 | 30.2 | 31.2 | 33.7 | 36.2 | 39.2 | 43.7 | 47.2 | 51.2 | 55.2 |
| **1.38** | 17.4 | 18.9 | 19.9 | 20.9 | 23.4 | 25.4 | 26.4 | 27.4 | 28.9 | 30.9 | 32.4 | 33.4 | 35.9 | 38.4 | 41.4 | 45.9 | 49.4 | 53.4 | 57.4 |
| | 12.5 | 14.0 | 15.0 | 16.0 | 18.5 | 20.5 | 21.5 | 22.5 | 24.0 | 26.0 | 27.5 | 28.5 | 31.0 | 33.5 | 36.5 | 41.0 | 44.5 | 48.5 | 52.5 |
| **1.40** | 15.8 | 17.3 | 18.3 | 19.3 | 21.8 | 23.8 | 24.8 | 25.8 | 27.3 | 29.3 | 30.8 | 31.8 | 34.3 | 36.8 | 39.8 | 44.3 | 47.8 | 51.8 | 55.8 |
| | 17.7 | 19.2 | 20.2 | 21.2 | 23.7 | 25.7 | 26.7 | 27.7 | 29.2 | 31.2 | 32.7 | 33.7 | 36.2 | 38.7 | 41.7 | 46.2 | 49.7 | 53.7 | 57.7 |
| **1.41** | 18.8 | 20.3 | 21.3 | 22.3 | 24.8 | 26.8 | 27.8 | 28.8 | 30.3 | 32.3 | 33.8 | 34.8 | 37.3 | 39.8 | 42.8 | 47.3 | 50.8 | 54.8 | 58.8 |
| **1.42** | 15.3 | 16.9 | 17.9 | 18.9 | 21.4 | 23.4 | 24.4 | 25.4 | 26.9 | 28.9 | 30.4 | 31.4 | 33.9 | 36.4 | 39.4 | 43.9 | 47.4 | 51.4 | 55.4 |
| **1.43** | 13.8 | 15.3 | 16.3 | 17.3 | 19.8 | 21.8 | 22.8 | 23.8 | 25.3 | 27.3 | 28.8 | 29.8 | 32.3 | 34.8 | 37.8 | 42.3 | 45.8 | 49.8 | 53.8 |
| **1.44** | 16.5 | 18.0 | 19.0 | 20.0 | 22.5 | 24.5 | 25.5 | 26.5 | 28.0 | 30.0 | 31.5 | 32.5 | 35.0 | 37.5 | 40.5 | 45.0 | 48.5 | 52.5 | 56.5 |
| **1.45** | 18.4 | 19.9 | 20.9 | 21.9 | 24.4 | 26.4 | 27.4 | 28.4 | 29.9 | 31.9 | 33.4 | 34.4 | 36.9 | 39.4 | 42.4 | 46.9 | 50.4 | 54.4 | 58.4 |
| **1.47** | 18.7 | 20.2 | 21.2 | 22.2 | 24.7 | 26.7 | 27.7 | 28.7 | 30.2 | 32.2 | 33.7 | 34.7 | 37.2 | 39.7 | 42.7 | 47.2 | 50.7 | 54.7 | 58.7 |
| **1.48** | 17.1 | 18.6 | 19.6 | 20.6 | 23.1 | 25.1 | 26.1 | 27.1 | 28.6 | 30.6 | 32.1 | 33.1 | 35.6 | 38.1 | 41.1 | 45.6 | 49.1 | 53.1 | 57.1 |
| | 15.5 | 17.0 | 18.0 | 19.0 | 21.5 | 23.5 | 24.5 | 25.5 | 27.0 | 29.0 | 30.5 | 31.5 | 34.0 | 36.5 | 39.5 | 44.0 | 47.5 | 51.5 | 55.5 |
| **1.50** | 16.6 | 18.1 | 19.1 | 20.1 | 22.6 | 24.6 | 25.6 | 26.6 | 28.1 | 30.1 | 31.6 | 32.6 | 35.1 | 37.6 | 40.6 | 45.1 | 48.6 | 52.6 | 56.6 |
| | 18.2 | 19.7 | 20.7 | 21.7 | 24.2 | 26.2 | 27.2 | 28.2 | 29.7 | 31.7 | 33.2 | 34.2 | 36.7 | 39.2 | 42.2 | 46.7 | 50.2 | 54.2 | 58.2 |
| **1.53** | 17.7 | 19.2 | 20.2 | 21.2 | 23.7 | 25.7 | 26.7 | 27.7 | 29.2 | 31.2 | 32.7 | 33.7 | 36.2 | 38.7 | 41.7 | 46.2 | 49.7 | 53.7 | 57.7 |
| | 18.5 | 20.0 | 21.0 | 22.0 | 24.5 | 26.5 | 27.5 | 28.5 | 30.0 | 32.0 | 33.5 | 34.5 | 37.0 | 39.5 | 42.5 | 47.0 | 50.5 | 54.5 | 58.5 |
| **1.54** | 14.1 | 15.6 | 16.6 | 17.6 | 20.1 | 22.1 | 23.1 | 24.1 | 25.6 | 27.6 | 29.1 | 30.1 | 32.6 | 35.1 | 38.1 | 42.6 | 46.1 | 50.1 | 54.1 |
| **1.55** | 16.4 | 17.9 | 18.9 | 19.9 | 22.5 | 24.5 | 25.5 | 26.5 | 28.0 | 30.0 | 31.5 | 32.5 | 35.0 | 37.5 | 40.5 | 45.0 | 48.5 | 52.5 | 56.5 |
| **1.56** | 18.0 | 19.5 | 20.5 | 21.5 | 24.0 | 26.0 | 27.0 | 28.0 | 29.5 | 31.5 | 33.0 | 34.0 | 36.5 | 39.0 | 42.0 | 46.5 | 50.0 | 54.0 | 58.0 |
| **1.57** | 13.1 | 14.6 | 15.6 | 16.6 | 19.1 | 21.1 | 22.1 | 23.1 | 24.6 | 26.6 | 28.1 | 29.1 | 31.6 | 34.1 | 37.2 | 41.7 | 45.2 | 49.2 | 53.2 |
| **1.59** | 18.3 | 19.8 | 20.8 | 21.8 | 24.3 | 26.4 | 27.4 | 28.4 | 29.9 | 31.9 | 33.4 | 34.4 | 36.9 | 39.4 | 42.4 | 46.9 | 50.4 | 54.4 | 58.4 |
| | 16.3 | 17.8 | 18.8 | 19.8 | 22.3 | 24.3 | 25.3 | 26.3 | 27.8 | 29.8 | 31.3 | 32.3 | 34.8 | 37.3 | 40.3 | 44.8 | 48.3 | 52.3 | 56.3 |
| | 14.2 | 15.7 | 16.7 | 17.7 | 20.2 | 22.2 | 23.2 | 24.2 | 25.7 | 27.7 | 29.2 | 30.2 | 32.7 | 35.3 | 38.3 | 42.8 | 46.3 | 50.3 | 54.3 |
| **1.60** | 17.1 | 18.6 | 19.6 | 20.6 | 23.1 | 25.1 | 26.1 | 27.1 | 28.6 | 30.6 | 32.1 | 33.1 | 35.6 | 38.1 | 41.1 | 45.6 | 49.1 | 53.1 | 57.1 |
| **1.61** | 15.8 | 17.3 | 18.3 | 19.3 | 21.8 | 23.8 | 24.8 | 25.8 | 27.3 | 29.3 | 30.8 | 31.8 | 34.3 | 36.8 | 39.8 | 44.3 | 47.8 | 51.8 | 55.8 |
| | 17.9 | 19.4 | 20.4 | 21.4 | 23.9 | 25.9 | 26.9 | 27.9 | 29.4 | 31.4 | 32.9 | 33.9 | 36.4 | 38.9 | 41.9 | 46.4 | 49.9 | 53.9 | 57.9 |
| **1.65** | 18.2 | 19.7 | 20.7 | 21.7 | 24.2 | 26.2 | 27.2 | 28.2 | 29.7 | 31.7 | 33.2 | 34.2 | 36.7 | 39.2 | 42.2 | 46.7 | 50.2 | 54.2 | 58.2 |
| | **0.90** | **0.91** | **0.93** | **0.94** | **0.96** | **0.97** | **0.98** | **0.99** | **1.00** | **1.02** | **1.03** | **1.04** | **1.05** | **1.07** | **1.09** | **1.11** | **1.13** | **1.15** | **1.17** |
| **1.65** | 16.9 | 18.4 | 19.4 | 20.4 | 22.9 | 24.9 | 25.9 | 26.9 | 28.4 | 30.4 | 31.9 | 32.9 | 35.4 | 37.9 | 40.9 | 45.4 | 48.9 | 52.9 | 56.9 |
| **1.66** | 14.3 | 15.9 | 16.9 | 17.9 | 20.4 | 22.4 | 23.4 | 24.4 | 25.9 | 27.9 | 29.4 | 30.4 | 32.9 | 35.4 | 38.4 | 42.9 | 46.4 | 50.4 | 54.4 |
| **1.67** | 16.4 | 17.9 | 18.9 | 19.9 | 22.4 | 24.4 | 25.4 | 26.4 | 28.0 | 30.0 | 31.5 | 32.5 | 35.0 | 37.5 | 40.5 | 45.0 | 48.5 | 52.5 | 56.5 |
| **1.68** | 13.4 | 14.9 | 15.9 | 16.9 | 19.4 | 21.4 | 22.4 | 23.4 | 24.9 | 26.9 | 28.4 | 29.4 | 31.9 | 34.5 | 37.5 | 42.0 | 45.5 | 49.5 | 53.5 |
| **1.69** | 17.2 | 18.7 | 19.7 | 20.7 | 23.2 | 25.2 | 26.2 | 27.2 | 28.7 | 30.7 | 32.2 | 33.2 | 35.7 | 38.2 | 41.3 | 45.8 | 49.3 | 53.3 | 57.3 |
| **1.71** | 18.0 | 19.5 | 20.5 | 21.5 | 24.0 | 26.0 | 27.0 | 28.0 | 29.5 | 31.5 | 33.0 | 34.0 | 36.5 | 39.0 | 42.0 | 46.5 | 50.0 | 54.0 | 58.0 |
| **1.72** | 11.4 | 12.9 | 13.9 | 14.9 | 17.5 | 19.5 | 20.5 | 21.5 | 23.0 | 25.0 | 26.5 | 27.5 | 30.0 | 32.5 | 35.5 | 40.1 | 43.6 | 47.6 | 51.6 |
| | 14.5 | 16.0 | 17.0 | 18.0 | 20.5 | 22.5 | 23.5 | 24.5 | 26.0 | 28.0 | 29.5 | 30.5 | 33.1 | 35.6 | 38.6 | 43.1 | 46.6 | 50.6 | 54.6 |
| **1.74** | 17.1 | 18.6 | 19.6 | 20.6 | 23.1 | 25.1 | 26.1 | 27.1 | 28.6 | 30.6 | 32.1 | 33.1 | 35.6 | 38.1 | 41.1 | 45.6 | 49.1 | 53.1 | 57.1 |
| **1.77** | 16.1 | 17.6 | 18.6 | 19.6 | 22.1 | 24.1 | 25.1 | 26.1 | 27.6 | 29.6 | 31.1 | 32.1 | 34.6 | 37.1 | 40.1 | 44.6 | 48.1 | 52.1 | 56.1 |
| | 17.9 | 19.4 | 20.4 | 21.4 | 23.9 | 25.9 | 26.9 | 27.9 | 29.4 | 31.4 | 32.9 | 33.9 | 36.4 | 38.9 | 41.9 | 46.4 | 49.9 | 53.9 | 57.9 |
| **1.79** | 16.9 | 18.4 | 19.4 | 20.4 | 22.9 | 24.9 | 25.9 | 26.9 | 28.4 | 30.4 | 31.9 | 32.9 | 35.4 | 37.9 | 40.9 | 45.4 | 48.9 | 52.9 | 56.9 |
| **1.81** | 13.7 | 15.2 | 16.2 | 17.2 | 19.7 | 21.7 | 22.7 | 23.7 | 25.2 | 27.2 | 28.7 | 29.7 | 32.2 | 34.8 | 37.8 | 42.3 | 45.8 | 49.8 | 53.8 |
| **1.82** | 15.4 | 16.9 | 18.0 | 19.0 | 21.5 | 23.5 | 24.5 | 25.5 | 27.0 | 29.0 | 30.5 | 31.5 | 34.0 | 36.5 | 39.5 | 44.0 | 47.5 | 51.5 | 55.5 |
| **1.83** | 17.7 | 19.2 | 20.2 | 21.2 | 23.7 | 25.7 | 26.7 | 27.7 | 29.2 | 31.2 | 32.7 | 33.7 | 36.2 | 38.7 | 41.7 | 46.2 | 49.7 | 53.7 | 57.7 |
| **1.84** | 11.7 | 13.2 | 14.2 | 15.2 | 17.8 | 19.8 | 20.8 | 21.8 | 23.3 | 25.3 | 26.8 | 27.8 | 30.3 | 32.8 | 35.8 | 40.4 | 43.9 | 47.9 | 51.9 |
| **1.85** | 16.7 | 18.2 | 19.2 | 20.2 | 22.7 | 24.7 | 25.8 | 26.8 | 28.3 | 30.3 | 31.8 | 32.8 | 35.3 | 37.8 | 40.8 | 45.3 | 48.8 | 52.8 | 56.8 |
| **1.87** | 14.8 | 16.3 | 17.3 | 18.3 | 20.8 | 22.8 | 23.8 | 24.8 | 26.3 | 28.3 | 29.8 | 30.9 | 33.4 | 35.9 | 38.9 | 43.4 | 46.9 | 50.9 | 54.9 |
| **1.88** | 13.8 | 15.3 | 16.3 | 17.3 | 19.9 | 21.9 | 22.9 | 23.9 | 25.4 | 27.4 | 28.9 | 29.9 | 32.4 | 34.9 | 37.9 | 42.4 | 45.9 | 49.9 | 53.9 |
| **1.89** | 17.5 | 19.0 | 20.0 | 21.0 | 23.5 | 25.5 | 26.5 | 27.5 | 29.0 | 31.0 | 32.6 | 33.6 | 36.1 | 38.6 | 41.6 | 46.1 | 49.6 | 53.6 | 57.6 |
| **1.91** | 15.6 | 17.1 | 18.1 | 19.1 | 21.6 | 23.6 | 24.6 | 25.6 | 27.1 | 29.1 | 30.6 | 31.6 | 34.1 | 36.7 | 39.7 | 44.2 | 47.7 | 51.7 | 55.7 |
| **1.95** | 17.4 | 18.9 | 19.9 | 20.9 | 23.4 | 25.4 | 26.4 | 27.4 | 28.9 | 30.9 | 32.4 | 33.4 | 35.9 | 38.4 | 41.4 | 45.9 | 49.4 | 53.4 | 57.4 |
| | 16.4 | 17.9 | 18.9 | 19.9 | 22.4 | 24.4 | 25.4 | 26.4 | 27.9 | 29.9 | 31.4 | 32.4 | 34.9 | 37.4 | 40.4 | 44.9 | 48.5 | 52.5 | 56.5 |
| **1.96** | 14.9 | 16.4 | 17.4 | 18.5 | 21.0 | 23.0 | 24.0 | 25.0 | 26.5 | 28.5 | 30.0 | 31.0 | 33.5 | 36.0 | 39.0 | 43.5 | 47.0 | 51.0 | 55.0 |
| **1.97** | 11.9 | 13.5 | 14.5 | 15.5 | 18.0 | 20.1 | 21.1 | 22.1 | 23.6 | 25.6 | 27.1 | 28.1 | 30.6 | 33.1 | 36.1 | 40.7 | 44.2 | 48.2 | 52.2 |
| **2.00** | --- | 10.2 | 11.3 | 12.3 | 14.9 | 16.9 | 17.9 | 19.0 | 20.5 | 22.5 | 24.0 | 25.0 | 27.6 | 30.1 | 33.1 | 37.6 | 41.1 | 45.1 | 49.1 |
| **2.01** | 15.7 | 17.2 | 18.2 | 19.3 | 21.8 | 23.8 | 24.8 | 25.8 | 27.3 | 29.3 | 30.8 | 31.8 | 34.3 | 36.8 | 39.8 | 44.3 | 47.8 | 51.8 | 55.8 |
| | 17.2 | 18.7 | 19.7 | 20.7 | 23.2 | 25.2 | 26.2 | 27.2 | 28.7 | 30.7 | 32.2 | 33.2 | 35.7 | 38.2 | 41.2 | 45.7 | 49.2 | 53.2 | 57.2 |
| **2.04** | 12.1 | 13.6 | 14.6 | 15.7 | 18.2 | 20.2 | 21.2 | 22.2 | 23.7 | 25.8 | 27.3 | 28.3 | 30.8 | 33.3 | 36.3 | 40.8 | 44.3 | 48.3 | 52.3 |
| **2.05** | 15.1 | 16.6 | 17.6 | 18.6 | 21.1 | 23.1 | 24.1 | 25.1 | 26.6 | 28.6 | 30.1 | 31.2 | 33.7 | 36.2 | 39.2 | 43.7 | 47.2 | 51.2 | 55.2 |
| | **.89** | **0.90** | **0.92** | **0.93** | **0.95** | **0.97** | **0.98** | **0.99** | **1.00** | **1.01** | **1.02** | **1.03** | **1.05** | **1.06** | **1.08** | **1.11** | **1.13** | **1.14** | **1.16** |

# Selection

## Stock Drive Selection

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | A26 | A31 | A33 | A35 | A38 | A42 | A46 |
| | Driver | Driven | RPM | A | AX | RPM | A | AX | RPM | A | AX | AX26 | AX31 | AX33 | AX35 | AX38 | AX42 | AX46 |
| 2.07 | 3.0 | 6.6 | 1695 | 4.35 | 5.55 | 847 | 2.84 | 3.55 | 562 | 2.09 | 2.64 | 5.8 | 8.4 | 9.4 | 10.5 | 12.0 | 14.0 | 16.0 |
| | 5.6 | 12.0 | 1691 | 10.82 | 11.73 | 845 | 7.26 | 7.48 | 560 | 5.27 | 5.50 | – | – | – | – | – | – | 9.3 |
| 2.11 | 3.4 | 7.6 | 1658 | 5.53 | 6.61 | 829 | 3.56 | 4.19 | 549 | 2.60 | 3.10 | – | 7.2 | 8.2 | 9.3 | 10.8 | 12.8 | 14.9 |
| 2.12 | 4.8 | 10.6 | 1651 | 9.15 | 10.01 | 826 | 5.96 | 6.33 | 547 | 4.32 | 4.65 | – | – | – | – | 7.0 | 9.1 | 11.2 |
| 2.13 | 6.0 | 13.2 | 1644 | 11.53 | 12.53 | 822 | 7.89 | 8.04 | 545 | 5.74 | 5.91 | – | – | – | – | – | – | – |
| 2.14 | 4.0 | 9.0 | 1634 | 7.19 | 8.13 | 817 | 4.61 | 5.13 | 542 | 3.35 | 3.78 | – | – | 6.5 | 7.5 | 9.1 | 11.2 | 13.2 |
| 2.16 | 3.6 | 8.2 | 1624 | 6.11 | 7.13 | 812 | 3.91 | 4.51 | 538 | 2.85 | 3.33 | – | 6.5 | 7.5 | 8.6 | 10.1 | 12.2 | 14.2 |
| 2.18 | 3.0 | 7.0 | 1603 | 4.36 | 5.55 | 801 | 2.84 | 3.55 | 531 | 2.09 | 2.64 | 5.4 | 8.1 | 9.1 | 10.1 | 11.6 | 13.7 | 15.7 |
| 2.20 | 4.6 | 10.6 | 1587 | 8.70 | 9.56 | 794 | 5.63 | 6.04 | 526 | 4.08 | 4.44 | – | – | – | – | 7.1 | 9.2 | 11.3 |
| 2.22 | 5.2 | 12.0 | 1578 | 10.03 | 10.90 | 789 | 6.62 | 6.91 | 523 | 4.80 | 5.08 | – | – | – | – | – | – | 9.5 |
| 2.23 | 3.2 | 7.6 | 1570 | 4.96 | 6.10 | 785 | 3.20 | 3.88 | 520 | 2.35 | 2.88 | – | 7.3 | 8.4 | 9.4 | 11.0 | 13.0 | 15.0 |
| 2.27 | 3.4 | 8.2 | 1542 | 5.55 | 6.62 | 771 | 3.56 | 4.20 | 511 | 2.60 | 3.11 | – | 6.6 | 7.7 | 8.7 | 10.3 | 12.3 | 14.3 |
| 2.30 | 5.0 | 12.0 | 1521 | 9.61 | 10.47 | 761 | 6.30 | 6.63 | 504 | 4.57 | 4.87 | – | – | – | – | – | – | 9.7 |
| 2.36 | 3.6 | 9.0 | 1485 | 6.12 | 7.15 | 743 | 3.92 | 4.51 | 492 | 2.86 | 3.33 | – | – | 6.7 | 7.8 | 9.4 | 11.4 | 13.5 |
| | 3.0 | 7.6 | 1482 | 4.37 | 5.56 | 741 | 2.85 | 3.56 | 491 | 2.10 | 2.65 | – | 7.5 | 8.5 | 9.6 | 11.1 | 13.1 | 15.2 |
| 2.39 | 4.8 | 12.0 | 1464 | 9.17 | 10.03 | 732 | 5.97 | 6.34 | 485 | 4.33 | 4.66 | | – | – | – | – | – | 9.8 |
| 2.40 | 3.2 | 8.2 | 1460 | 4.97 | 6.10 | 730 | 3.21 | 3.88 | 484 | 2.35 | 2.88 | – | 6.7 | 7.8 | 8.8 | 10.4 | 12.4 | 14.5 |
| | 4.2 | 10.6 | 1460 | 7.72 | 8.63 | 730 | 4.96 | 5.44 | 484 | 3.60 | 4.00 | – | – | – | – | 7.3 | 9.5 | 11.6 |
| 2.43 | 5.2 | 13.2 | 1438 | 10.05 | 10.91 | 719 | 6.63 | 6.92 | 477 | 4.81 | 5.08 | – | – | – | – | – | – | – |
| 2.48 | 3.4 | 9.0 | 1410 | 5.55 | 6.63 | 705 | 3.57 | 4.20 | 467 | 2.61 | 3.11 | – | – | 6.8 | 7.9 | 9.5 | 11.6 | 13.6 |
| 2.49 | 4.6 | 12.0 | 1408 | 8.71 | 9.58 | 704 | 5.64 | 6.04 | 467 | 4.09 | 4.44 | – | – | – | – | – | 7.7 | 9.9 |
| 2.51 | 4.0 | 10.6 | 1396 | 7.21 | 8.15 | 698 | 4.62 | 5.14 | 463 | 3.36 | 3.79 | – | – | – | – | 7.5 | 9.6 | 11.7 |
| 2.52 | 5.0 | 13.2 | 1387 | 9.62 | 10.48 | 693 | 6.30 | 6.63 | 460 | 4.57 | 4.87 | – | – | – | – | – | – | – |
| 2.54 | 3.0 | 8.2 | 1379 | 4.38 | 5.57 | 689 | 2.85 | 3.56 | 457 | 2.10 | 2.65 | – | 6.9 | 7.9 | 9.0 | 10.5 | 12.6 | 14.6 |
| 2.57 | 5.6 | 15.0 | 1361 | 10.85 | 11.75 | 680 | 7.27 | 7.49 | 451 | 5.28 | 5.50 | – | – | – | – | – | – | – |
| 2.62 | 3.2 | 9.0 | 1336 | 4.98 | 6.11 | 668 | 3.21 | 3.89 | 443 | 2.36 | 2.88 | – | 5.9 | 7.0 | 8.1 | 9.6 | 11.7 | 13.8 |
| | 4.8 | 13.2 | 1335 | 9.18 | 10.04 | 668 | 5.98 | 6.34 | 442 | 4.33 | 4.66 | – | – | – | – | – | – | 8.5 |
| 2.63 | 3.8 | 10.6 | 1332 | 6.68 | 7.66 | 666 | 4.28 | 4.83 | 442 | 3.11 | 3.56 | – | – | – | – | 7.6 | 9.8 | 11.9 |
| 2.67 | 5.6 | 15.6 | 1310 | 10.85 | 11.76 | 655 | 7.27 | 7.49 | 434 | 5.28 | 5.51 | – | – | – | – | – | – | – |
| 2.70 | 4.2 | 12.0 | 1295 | 7.73 | 8.65 | 647 | 4.97 | 5.45 | 429 | 3.60 | 4.01 | – | – | – | – | – | 8.0 | 10.2 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.70** | **0.75** | **0.76** | **0.79** | **0.80** | **0.81** | **0.84** |
| 2.71 | 6.4 | 18.0 | 1291 | 12.19 | 13.31 | 646 | 8.51 | 8.60 | 428 | 6.20 | 6.33 | – | – | – | – | – | – | – |
| 2.73 | 4.6 | 13.2 | 1284 | 8.72 | 9.59 | 642 | 5.64 | 6.05 | 425 | 4.09 | 4.45 | – | – | – | – | – | – | 8.6 |
| 2.76 | 3.6 | 10.6 | 1269 | 6.13 | 7.16 | 634 | 3.93 | 4.52 | 420 | 2.86 | 3.34 | – | – | – | – | 7.7 | 9.9 | 12.0 |
| 2.78 | 3.0 | 9.0 | 1261 | 4.38 | 5.58 | 631 | 2.85 | 3.56 | 418 | 2.10 | 2.65 | – | 6.0 | 7.1 | 8.2 | 9.8 | 11.9 | 13.9 |
| 2.83 | 4.0 | 12.0 | 1238 | 7.22 | 8.16 | 619 | 4.63 | 5.14 | 410 | 3.36 | 3.79 | – | – | – | – | – | 8.1 | 10.3 |
| 2.86 | 5.0 | 15.0 | 1224 | 9.63 | 10.49 | 612 | 6.31 | 6.64 | 406 | 4.57 | 4.88 | – | – | – | – | – | – | – |
| 2.88 | 6.0 | 18.0 | 1215 | 11.57 | 12.56 | 607 | 7.90 | 8.05 | 403 | 5.75 | 5.92 | – | – | – | – | – | – | – |
| 2.90 | 3.4 | 10.6 | 1205 | 5.57 | 6.65 | 602 | 3.57 | 4.21 | 399 | 2.61 | 3.11 | – | – | – | – | 7.8 | 10.0 | 12.1 |
| 2.96 | 3.8 | 12.0 | 1182 | 6.69 | 7.67 | 591 | 4.28 | 4.84 | 392 | 3.11 | 3.57 | – | – | – | – | – | 8.2 | 10.4 |
| 2.97 | 4.8 | 15.0 | 1179 | 9.19 | 10.05 | 589 | 5.98 | 6.34 | 391 | 4.33 | 4.66 | – | – | – | – | – | – | – |
| 3.07 | 3.2 | 10.6 | 1141 | 4.99 | 6.12 | 571 | 3.22 | 3.89 | 378 | 2.36 | 2.88 | – | – | – | 6.2 | 8.0 | 10.1 | 12.3 |
| 3.09 | 4.6 | 15.0 | 1133 | 8.72 | 9.59 | 567 | 5.65 | 6.05 | 376 | 4.09 | 4.45 | – | – | – | – | – | – | – |
| 3.10 | 4.0 | 13.2 | 1129 | 7.22 | 8.17 | 564 | 4.63 | 5.14 | 374 | 3.36 | 3.79 | – | – | – | – | – | – | 9.0 |
| 3.11 | 3.6 | 12.0 | 1125 | 6.14 | 7.17 | 563 | 3.93 | 4.52 | 373 | 2.86 | 3.34 | – | – | – | – | – | 8.3 | 10.6 |
| 3.13 | 6.0 | 19.6 | 1118 | 11.57 | 12.56 | 559 | 7.91 | 8.06 | 370 | 5.75 | 5.92 | – | – | – | – | – | – | – |
| 3.21 | 4.6 | 15.6 | 1091 | 8.73 | 9.60 | 545 | 5.65 | 6.05 | 362 | 4.10 | 4.45 | – | – | – | – | – | – | – |
| 3.25 | 3.0 | 10.6 | 1077 | 4.39 | 5.59 | 539 | 2.86 | 3.57 | 357 | 2.11 | 2.65 | – | – | – | 6.3 | 8.1 | 10.3 | 12.4 |
| | 3.8 | 13.2 | 1077 | 6.69 | 7.67 | 539 | 4.28 | 4.84 | 357 | 3.11 | 3.57 | – | – | – | – | – | – | 9.1 |
| 3.29 | 5.2 | 18.0 | 1063 | 10.07 | 10.93 | 531 | 6.64 | 6.93 | 352 | 4.81 | 5.09 | – | – | – | – | – | – | – |
| 3.36 | 4.2 | 15.0 | 1042 | 7.74 | 8.66 | 521 | 4.97 | 5.45 | 345 | 3.61 | 4.01 | – | – | – | – | – | – | – |
| 3.41 | 3.6 | 13.2 | 1026 | 6.14 | 7.17 | 513 | 3.93 | 4.53 | 340 | 2.87 | 3.34 | – | – | – | – | – | – | 9.2 |
| 3.42 | 5.0 | 18.0 | 1024 | 9.64 | 10.50 | 512 | 6.31 | 6.64 | 340 | 4.58 | 4.88 | – | – | – | – | – | – | – |
| 3.46 | 3.2 | 12.0 | 1012 | 4.99 | 6.13 | 506 | 3.22 | 3.89 | 335 | 2.36 | 2.89 | – | – | – | – | – | 8.6 | 10.8 |
| 3.49 | 4.2 | 15.6 | 1003 | 7.75 | 8.66 | 502 | 4.97 | 5.45 | 332 | 3.61 | 4.01 | – | – | – | – | – | – | – |
| 3.51 | 4.0 | 15.0 | 997 | 7.23 | 8.17 | 498 | 4.63 | 5.15 | 330 | 3.36 | 3.79 | – | – | – | – | – | – | – |
| 3.55 | 4.8 | 18.0 | 986 | 9.19 | 10.05 | 493 | 5.98 | 6.35 | 327 | 4.34 | 4.66 | – | – | – | – | – | – | – |
| 3.58 | 5.2 | 19.6 | 977 | 10.07 | 10.93 | 489 | 6.64 | 6.93 | 324 | 4.81 | 5.09 | – | – | – | – | – | – | – |
| 3.59 | 3.4 | 13.2 | 974 | 5.58 | 6.66 | 487 | 3.58 | 4.21 | 323 | 2.62 | 3.12 | – | – | – | – | – | – | 9.3 |
| 3.65 | 4.0 | 15.6 | 959 | 7.23 | 8.17 | 480 | 4.63 | 5.15 | 318 | 3.36 | 3.79 | – | – | – | – | – | – | – |
| 3.66 | 3.0 | 12.0 | 956 | 4.40 | 5.59 | 478 | 2.86 | 3.57 | 317 | 2.11 | 2.65 | – | – | – | – | – | 8.7 | 11.0 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | **0.71** | **0.73** | **0.75** | **0.77** | **0.77** | **0.81** |

# Selection

## Stock Drive Selection

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A48 | A51 | A53 | A55 | A60 | A64 | A66 | A68 | A71 | A75 | A78 | A80 | A85 | A90 | A96 | A105 | A112 | A120 | A128 |
| | AX48 | AX51 | AX53 | AX55 | AX60 | AX64 | AX66 | AX68 | AX71 | AX75 | AX78 | AX80 | AX85 | AX90 | AX96 | AX105 | AX112 | AX120 | AX128 |
| **2.07** | 17.0 | 18.5 | 19.5 | 20.5 | 23.0 | 25.0 | 26.1 | 27.1 | 28.6 | 30.6 | 32.1 | 33.1 | 35.6 | 38.1 | 41.1 | 45.6 | 49.1 | 53.1 | 57.1 |
| | 10.3 | 11.9 | 12.9 | 14.0 | 16.5 | 18.6 | 19.6 | 20.6 | 22.1 | 24.1 | 25.6 | 26.6 | 29.2 | 31.7 | 34.7 | 39.2 | 42.7 | 46.7 | 50.7 |
| **2.11** | 15.9 | 17.4 | 18.4 | 19.4 | 21.9 | 23.9 | 24.9 | 25.9 | 27.4 | 29.4 | 30.9 | 31.9 | 34.5 | 37.0 | 40.0 | 44.5 | 48.0 | 52.0 | 56.0 |
| **2.12** | 12.2 | 13.8 | 14.8 | 15.8 | 18.3 | 20.4 | 21.4 | 22.4 | 23.9 | 25.9 | 27.4 | 28.4 | 30.9 | 33.4 | 36.4 | 41.0 | 44.5 | 48.5 | 52.5 |
| **2.13** | – | 10.5 | 11.5 | 12.6 | 15.2 | 17.2 | 18.2 | 19.2 | 20.8 | 22.8 | 24.3 | 25.3 | 27.8 | 30.4 | 33.4 | 37.9 | 41.4 | 45.4 | 49.4 |
| **2.14** | 14.2 | 15.7 | 16.8 | 17.8 | 20.3 | 22.3 | 23.3 | 24.3 | 25.8 | 27.8 | 29.3 | 30.3 | 32.8 | 35.4 | 38.4 | 42.9 | 46.4 | 50.4 | 54.4 |
| **2.16** | 15.2 | 16.7 | 17.7 | 18.7 | 21.3 | 23.3 | 24.3 | 25.3 | 26.8 | 28.8 | 30.3 | 31.3 | 33.8 | 36.3 | 39.3 | 43.8 | 47.3 | 51.3 | 55.3 |
| **2.18** | 16.7 | 18.2 | 19.2 | 20.2 | 22.7 | 24.7 | 25.7 | 26.7 | 28.2 | 30.2 | 31.7 | 32.7 | 35.2 | 37.7 | 40.8 | 45.3 | 48.8 | 52.8 | 56.8 |
| **2.20** | 12.4 | 13.9 | 14.9 | 15.9 | 18.5 | 20.5 | 21.5 | 22.5 | 24.0 | 26.0 | 27.6 | 28.6 | 31.1 | 33.6 | 36.6 | 41.1 | 44.6 | 48.6 | 52.6 |
| **2.22** | 10.6 | 12.2 | 13.2 | 14.2 | 16.8 | 18.8 | 19.9 | 20.9 | 22.4 | 24.4 | 25.9 | 26.9 | 29.5 | 32.0 | 35.0 | 39.5 | 43.0 | 47.0 | 51.0 |
| **2.23** | 16.0 | 17.5 | 18.5 | 19.5 | 22.1 | 24.1 | 25.1 | 26.1 | 27.6 | 29.6 | 31.1 | 32.1 | 34.6 | 37.1 | 40.1 | 44.6 | 48.1 | 52.1 | 56.1 |
| **2.27** | 15.4 | 16.9 | 17.9 | 18.9 | 21.4 | 23.4 | 24.4 | 25.4 | 26.9 | 28.9 | 30.4 | 31.5 | 34.0 | 36.5 | 39.5 | 44.0 | 47.5 | 51.5 | 55.5 |
| **2.30** | 10.7 | 12.3 | 13.3 | 14.4 | 16.9 | 19.0 | 20.0 | 21.0 | 22.5 | 24.6 | 26.1 | 27.1 | 29.6 | 32.1 | 35.1 | 39.7 | 43.2 | 47.2 | 51.2 |
| **2.36** | 14.5 | 16.0 | 17.0 | 18.1 | 20.6 | 22.6 | 23.6 | 24.6 | 26.1 | 28.1 | 29.6 | 30.6 | 33.1 | 35.7 | 38.7 | 43.2 | 46.7 | 50.7 | 54.7 |
| | 16.2 | 17.7 | 18.7 | 19.7 | 22.2 | 24.2 | 25.2 | 26.2 | 27.7 | 29.7 | 31.2 | 32.2 | 34.8 | 37.3 | 40.3 | 44.8 | 48.3 | 52.3 | 56.3 |
| **2.39** | 10.9 | 12.4 | 13.5 | 14.5 | 17.1 | 19.1 | 20.1 | 21.2 | 22.7 | 24.7 | 26.2 | 27.2 | 29.7 | 32.3 | 35.3 | 39.8 | 43.3 | 47.3 | 51.3 |
| **2.40** | 15.5 | 17.0 | 18.0 | 19.0 | 21.6 | 23.6 | 24.6 | 25.6 | 27.1 | 29.1 | 30.6 | 31.6 | 34.1 | 36.6 | 39.6 | 44.1 | 47.6 | 51.6 | 55.6 |
| | 12.6 | 14.2 | 15.2 | 16.2 | 18.8 | 20.8 | 21.8 | 22.8 | 24.3 | 26.3 | 27.8 | 28.9 | 31.4 | 33.9 | 36.9 | 41.4 | 44.9 | 48.9 | 52.9 |
| **2.43** | 9.4 | 11.0 | 12.0 | 13.1 | 15.7 | 17.8 | 18.8 | 19.8 | 21.3 | 23.4 | 24.9 | 25.9 | 28.4 | 30.9 | 34.0 | 38.5 | 42.0 | 46.0 | 50.0 |
| **2.48** | 14.6 | 16.2 | 17.2 | 18.2 | 20.7 | 22.7 | 23.8 | 24.8 | 26.3 | 28.3 | 29.8 | 30.8 | 33.3 | 35.8 | 38.8 | 43.3 | 46.8 | 50.8 | 54.8 |
| **2.49** | 11.0 | 12.6 | 13.6 | 14.7 | 17.2 | 19.3 | 20.3 | 21.3 | 22.8 | 24.8 | 26.4 | 27.4 | 29.9 | 32.4 | 35.4 | 39.9 | 43.5 | 47.5 | 51.5 |
| **2.51** | 12.8 | 14.3 | 15.3 | 16.4 | 18.9 | 20.9 | 21.9 | 23.0 | 24.5 | 26.5 | 28.0 | 29.0 | 31.5 | 34.0 | 37.0 | 41.6 | 45.1 | 49.1 | 53.1 |
| **2.52** | 9.5 | 11.1 | 12.2 | 13.2 | 15.8 | 17.9 | 18.9 | 19.9 | 21.5 | 23.5 | 25.0 | 26.0 | 28.6 | 31.1 | 34.1 | 38.6 | 42.2 | 46.2 | 50.2 |
| **2.54** | 15.6 | 17.2 | 18.2 | 19.2 | 21.7 | 23.7 | 24.7 | 25.7 | 27.2 | 29.2 | 30.7 | 31.8 | 34.3 | 36.8 | 39.8 | 44.3 | 47.8 | 51.8 | 55.8 |
| **2.57** | – | – | 9.9 | 11.0 | 13.7 | 15.8 | 16.8 | 17.9 | 19.4 | 21.5 | 23.0 | 24.0 | 26.6 | 29.1 | 32.1 | 36.7 | 40.2 | 44.2 | 48.3 |
| **2.62** | 14.8 | 16.3 | 17.3 | 18.3 | 20.9 | 22.9 | 23.9 | 24.9 | 26.4 | 28.4 | 29.9 | 30.9 | 33.4 | 36.0 | 39.0 | 43.5 | 47.0 | 51.0 | 55.0 |
| | 9.6 | 11.2 | 12.3 | 13.4 | 16.0 | 18.0 | 19.1 | 20.1 | 21.6 | 23.6 | 25.2 | 26.2 | 28.7 | 31.2 | 34.3 | 38.8 | 42.3 | 46.3 | 50.3 |
| **2.63** | 12.9 | 14.4 | 15.5 | 16.5 | 19.0 | 21.1 | 22.1 | 23.1 | 24.6 | 26.6 | 28.1 | 29.1 | 31.7 | 34.2 | 37.2 | 41.7 | 45.2 | 49.2 | 53.2 |
| **2.67** | – | – | – | – | 13.1 | 15.2 | 16.2 | 17.3 | 18.8 | 20.9 | 22.5 | 23.5 | 26.0 | 28.6 | 31.6 | 36.2 | 39.7 | 43.7 | 47.7 |
| **2.70** | 11.3 | 12.8 | 13.9 | 14.9 | 17.5 | 19.5 | 20.6 | 21.6 | 23.1 | 25.1 | 26.6 | 27.7 | 30.2 | 32.7 | 35.7 | 40.2 | 43.8 | 47.8 | 51.8 |
| | **0.86** | **0.88** | **0.89** | **0.90** | **0.93** | **0.94** | **0.96** | **0.97** | **0.99** | **1.00** | **1.01** | **1.02** | **1.04** | **1.05** | **1.07** | **1.10** | **1.12** | **1.14** | **1.16** |
| **2.71** | – | – | – | – | – | 12.1 | 13.2 | 14.3 | 15.9 | 18.1 | 19.6 | 20.7 | 23.3 | 25.8 | 28.9 | 33.5 | 37.0 | 41.1 | 45.1 |
| **2.73** | 9.7 | 11.4 | 12.4 | 13.5 | 16.1 | 18.2 | 19.2 | 20.2 | 21.8 | 23.8 | 25.3 | 26.3 | 28.9 | 31.4 | 34.4 | 38.9 | 42.5 | 46.5 | 50.5 |
| **2.76** | 13.0 | 14.6 | 15.6 | 16.6 | 19.2 | 21.2 | 22.2 | 23.2 | 24.8 | 26.8 | 28.3 | 29.3 | 31.8 | 34.3 | 37.3 | 41.9 | 45.4 | 49.4 | 53.4 |
| **2.78** | 14.9 | 16.5 | 17.5 | 18.5 | 21.0 | 23.0 | 24.0 | 25.1 | 26.6 | 28.6 | 30.1 | 31.1 | 33.6 | 36.1 | 39.1 | 43.6 | 47.1 | 51.1 | 55.1 |
| **2.83** | 11.4 | 13.0 | 14.0 | 15.1 | 17.6 | 19.7 | 20.7 | 21.7 | 23.2 | 25.3 | 26.8 | 27.8 | 30.3 | 32.8 | 35.9 | 40.4 | 43.9 | 47.9 | 51.9 |
| **2.86** | – | – | 10.2 | 11.3 | 14.1 | 16.2 | 17.2 | 18.3 | 19.8 | 21.9 | 23.4 | 24.4 | 27.0 | 29.5 | 32.6 | 37.1 | 40.6 | 44.7 | 48.7 |
| **2.88** | – | – | – | – | – | 12.4 | 13.5 | 14.6 | 16.2 | 18.3 | 19.9 | 21.0 | 23.5 | 26.1 | 29.2 | 33.8 | 37.3 | 41.4 | 45.4 |
| **2.90** | 13.2 | 14.7 | 15.7 | 16.8 | 19.3 | 21.4 | 22.4 | 23.4 | 24.9 | 26.9 | 28.4 | 29.4 | 32.0 | 34.5 | 37.5 | 42.0 | 45.5 | 49.5 | 53.5 |
| **2.96** | 11.5 | 13.1 | 14.2 | 15.2 | 17.8 | 19.8 | 20.8 | 21.9 | 23.4 | 25.4 | 26.9 | 27.9 | 30.5 | 33.0 | 36.0 | 40.5 | 44.1 | 48.1 | 52.1 |
| **2.97** | – | 9.2 | 10.4 | 11.5 | 14.2 | 16.3 | 17.4 | 18.4 | 20.0 | 22.0 | 23.6 | 24.6 | 27.1 | 29.7 | 32.7 | 37.3 | 40.8 | 44.8 | 48.8 |
| **3.07** | 13.3 | 14.9 | 15.9 | 16.9 | 19.5 | 21.5 | 22.5 | 23.5 | 25.0 | 27.1 | 28.6 | 29.6 | 32.1 | 34.6 | 37.6 | 42.2 | 45.7 | 49.7 | 53.7 |
| **3.09** | --- | 9.3 | 10.5 | 11.6 | 14.3 | 16.4 | 17.5 | 18.5 | 20.1 | 22.2 | 23.7 | 24.7 | 27.3 | 29.8 | 32.9 | 37.4 | 40.9 | 45.0 | 49.0 |
| **3.10** | 10.1 | 11.7 | 12.8 | 13.9 | 16.5 | 18.6 | 19.6 | 20.6 | 22.2 | 24.2 | 25.7 | 26.8 | 29.3 | 31.8 | 34.8 | 39.4 | 42.9 | 46.9 | 50.9 |
| **3.11** | 11.6 | 13.2 | 14.3 | 15.3 | 17.9 | 20.0 | 21.0 | 22.0 | 23.5 | 25.6 | 27.1 | 28.1 | 30.6 | 33.1 | 36.2 | 40.7 | 44.2 | 48.2 | 52.2 |
| **3.13** | – | – | – | – | – | – | – | 12.7 | 14.5 | 16.7 | 18.3 | 19.4 | 22.0 | 24.6 | 27.7 | 32.3 | 35.9 | 40.0 | 44.0 |
| **3.21** | – | – | – | 10.9 | 13.7 | 15.8 | 16.9 | 18.0 | 19.5 | 21.6 | 23.1 | 24.2 | 26.7 | 29.3 | 32.3 | 36.9 | 40.4 | 44.5 | 48.5 |
| **3.25** | 13.4 | 15.0 | 16.0 | 17.1 | 19.6 | 21.6 | 22.7 | 23.7 | 25.2 | 27.2 | 28.7 | 29.7 | 32.3 | 34.8 | 37.8 | 42.3 | 45.8 | 49.8 | 53.8 |
| | 10.2 | 11.9 | 13.0 | 14.0 | 16.6 | 18.7 | 19.7 | 20.8 | 22.3 | 24.4 | 25.9 | 26.9 | 29.4 | 32.0 | 35.0 | 39.5 | 43.0 | 47.1 | 51.1 |
| **3.29** | – | – | – | – | 10.5 | 12.8 | 14.0 | 15.1 | 16.7 | 18.9 | 20.4 | 21.5 | 24.1 | 26.7 | 29.7 | 34.3 | 37.9 | 41.9 | 46.0 |
| **3.36** | – | 9.6 | 10.7 | 11.8 | 14.6 | 16.7 | 17.8 | 18.8 | 20.4 | 22.4 | 24.0 | 25.0 | 27.5 | 30.1 | 33.1 | 37.7 | 41.2 | 45.3 | 49.3 |
| **3.41** | 10.3 | 12.0 | 13.1 | 14.1 | 16.8 | 18.9 | 19.9 | 20.9 | 22.4 | 24.5 | 26.0 | 27.0 | 29.6 | 32.1 | 35.1 | 39.7 | 43.2 | 47.2 | 51.2 |
| **3.42** | – | – | – | – | 10.6 | 13.0 | 14.1 | 15.2 | 16.8 | 19.0 | 20.6 | 21.6 | 24.2 | 26.8 | 29.9 | 34.5 | 38.0 | 42.1 | 46.1 |
| **3.46** | 11.9 | 13.5 | 14.6 | 15.6 | 18.2 | 20.2 | 21.3 | 22.3 | 23.8 | 25.8 | 27.4 | 28.4 | 30.9 | 33.4 | 36.5 | 41.0 | 44.5 | 48.5 | 52.5 |
| **3.49** | – | – | 10.0 | 11.2 | 13.9 | 16.1 | 17.2 | 18.2 | 19.8 | 21.9 | 23.4 | 24.4 | 27.0 | 29.6 | 32.6 | 37.2 | 40.7 | 44.7 | 48.8 |
| **3.51** | – | 9.7 | 10.8 | 12.0 | 14.7 | 16.8 | 17.9 | 18.9 | 20.5 | 22.6 | 24.1 | 25.1 | 27.7 | 30.2 | 33.3 | 37.8 | 41.4 | 45.4 | 49.4 |
| **3.55** | – | – | – | – | 10.7 | 13.1 | 14.2 | 15.3 | 17.0 | 19.1 | 20.7 | 21.8 | 24.4 | 26.9 | 30.0 | 34.6 | 38.2 | 42.2 | 46.3 |
| **3.58** | – | – | – | – | – | – | 12.0 | 13.2 | 14.9 | 17.2 | 18.8 | 19.9 | 22.5 | 25.2 | 28.3 | 32.9 | 36.5 | 40.5 | 44.6 |
| **3.59** | 10.5 | 12.1 | 13.2 | 14.3 | 16.9 | 19.0 | 20.0 | 21.0 | 22.6 | 24.6 | 26.2 | 27.2 | 29.7 | 32.2 | 35.3 | 39.8 | 43.3 | 47.4 | 51.4 |
| **3.65** | – | – | 10.1 | 11.3 | 14.1 | 16.2 | 17.3 | 18.3 | 19.9 | 22.0 | 23.5 | 24.6 | 27.1 | 29.7 | 32.8 | 37.3 | 40.9 | 44.9 | 48.9 |
| **3.66** | 12.0 | 13.6 | 14.7 | 15.7 | 18.3 | 20.4 | 21.4 | 22.4 | 24.0 | 26.0 | 27.5 | 28.5 | 31.0 | 33.6 | 36.6 | 41.1 | 44.6 | 48.7 | 52.7 |
| | **0.83** | **0.86** | **0.87** | **0.88** | **0.91** | **0.92** | **0.94** | **0.96** | **0.97** | **0.99** | **1.00** | **1.01** | **1.03** | **1.04** | **1.06** | **1.09** | **1.11** | **1.13** | **1.15** |

# Selection

## Stock Drive Selection

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | A26 | A31 | A33 | A35 | A38 | A42 | A46 |
| | Driver | Driven | RPM | A | AX | RPM | A | AX | RPM | A | AX | AX26 | AX31 | AX33 | AX35 | AX38 | AX42 | AX46 |
| **3.69** | 4.6 | 18.0 | 948 | 8.73 | 9.60 | 474 | 5.65 | 6.05 | 314 | 4.10 | 4.45 | – | – | – | – | – | – | – |
| **3.71** | 5.0 | 19.6 | 942 | 9.64 | 10.50 | 471 | 6.31 | 6.64 | 312 | 4.58 | 4.88 | – | – | – | – | – | – | – |
| **3.79** | 3.2 | 13.2 | 923 | 4.99 | 6.13 | 461 | 3.22 | 3.89 | 306 | 2.36 | 2.89 | – | – | – | – | – | – | 9.5 |
| **3.82** | 3.8 | 15.6 | 916 | 6.70 | 7.68 | 458 | 4.28 | 4.84 | 303 | 3.12 | 3.57 | – | – | – | – | – | – | – |
| **3.86** | 3.6 | 15.0 | 906 | 6.15 | 7.17 | 453 | 3.93 | 4.53 | 300 | 2.87 | 3.34 | – | – | – | – | – | – | – |
| **3.92** | 6.0 | 24.6 | 894 | 11.58 | 12.57 | 447 | 7.91 | 8.06 | 296 | 5.75 | 5.92 | – | – | – | – | – | – | – |
| **4.01** | 4.2 | 18.0 | 872 | 7.75 | 8.66 | 436 | 4.98 | 5.45 | 289 | 3.61 | 4.01 | – | – | – | – | – | – | 9.6 |
| **4.02** | 3.0 | 13.2 | 871 | 4.40 | 5.59 | 436 | 2.86 | 3.57 | 289 | 2.11 | 2.66 | – | – | – | – | – | – | – |
| **4.07** | 3.4 | 15.0 | 860 | 5.58 | 6.66 | 430 | 3.58 | 4.21 | 285 | 2.62 | 3.12 | – | – | – | – | – | – | – |
| **4.20** | 4.0 | 18.0 | 834 | 7.23 | 8.18 | 417 | 4.63 | 5.15 | 276 | 3.36 | 3.79 | – | – | – | – | – | – | – |
| **4.23** | 3.4 | 15.6 | 828 | 5.58 | 6.66 | 414 | 3.58 | 4.21 | 274 | 2.62 | 3.12 | – | – | – | – | – | – | – |
| **4.30** | 3.2 | 15.0 | 815 | 5.00 | 6.13 | 407 | 3.22 | 3.90 | 270 | 2.36 | 2.89 | – | – | – | – | – | – | – |
| **4.36** | 4.2 | 19.6 | 802 | 7.75 | 8.66 | 401 | 4.98 | 5.46 | 266 | 3.61 | 4.01 | – | – | – | – | – | – | – |
| **4.40** | 3.8 | 18.0 | 796 | 6.70 | 7.68 | 398 | 4.29 | 4.84 | 264 | 3.12 | 3.57 | – | – | – | – | – | – | – |
| **4.46** | 3.2 | 15.6 | 784 | 5.00 | 6.13 | 392 | 3.22 | 3.90 | 260 | 2.36 | 2.89 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | **0.76** |
| **4.48** | 5.2 | 24.6 | 782 | 10.07 | 10.94 | 391 | 6.64 | 6.93 | 259 | 4.82 | 5.09 | – | – | – | – | – | – | – |
| **4.55** | 3.0 | 15.0 | 769 | 4.40 | 5.60 | 385 | 2.86 | 3.57 | 255 | 2.11 | 2.66 | – | – | – | – | – | – | – |
| **4.56** | 4.0 | 19.6 | 767 | 7.23 | 8.18 | 384 | 4.63 | 5.15 | 254 | 3.37 | 3.79 | – | – | – | – | – | – | – |
| **4.62** | 3.6 | 18.0 | 758 | 6.15 | 7.18 | 379 | 3.94 | 4.53 | 251 | 2.87 | 3.35 | – | – | – | – | – | – | – |
| **4.64** | 5.0 | 24.6 | 754 | 9.65 | 10.51 | 377 | 6.32 | 6.64 | 250 | 4.58 | 4.88 | – | – | – | – | – | – | – |
| **4.73** | 3.0 | 15.6 | 740 | 4.40 | 5.60 | 370 | 2.86 | 3.57 | 245 | 2.11 | 2.66 | – | – | – | – | – | – | – |
| **4.78** | 3.8 | 19.6 | 732 | 6.70 | 7.68 | 366 | 4.29 | 4.84 | 243 | 3.12 | 3.57 | – | – | – | – | – | – | – |
| **4.82** | 4.8 | 24.6 | 726 | 9.20 | 10.06 | 363 | 5.99 | 6.35 | 241 | 4.34 | 4.67 | – | – | – | – | – | – | – |
| **4.86** | 3.4 | 18.0 | 720 | 5.58 | 6.66 | 360 | 3.58 | 4.22 | 239 | 2.62 | 3.12 | – | – | – | – | – | – | – |
| **5.01** | 5.6 | 29.6 | 698 | 10.87 | 11.78 | 349 | 7.29 | 7.50 | 231 | 5.29 | 5.51 | – | – | – | – | – | – | – |
| **5.02** | 3.6 | 19.6 | 697 | 6.15 | 7.18 | 349 | 3.94 | 4.53 | 231 | 2.87 | 3.35 | – | – | – | – | – | – | – |
| **5.13** | 3.2 | 18.0 | 682 | 5.00 | 6.14 | 341 | 3.22 | 3.90 | 226 | 2.36 | 2.89 | – | – | – | – | – | – | – |
| **5.29** | 3.4 | 19.6 | 662 | 5.58 | 6.66 | 331 | 3.58 | 4.22 | 219 | 2.62 | 3.12 | – | – | – | – | – | – | – |
| **5.37** | 5.2 | 29.6 | 651 | 10.08 | 10.94 | 326 | 6.64 | 6.93 | 216 | 4.82 | 5.09 | – | – | – | – | – | – | – |
| **5.44** | 3.0 | 18.0 | 644 | 4.40 | 5.60 | 322 | 2.86 | 3.57 | 213 | 2.11 | 2.66 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – |
| **5.45** | 4.2 | 24.6 | 642 | 7.76 | 8.67 | 321 | 4.98 | 5.46 | 213 | 3.61 | 4.02 | – | – | – | – | – | – | – |
| **5.57** | 5.0 | 29.6 | 628 | 9.65 | 10.51 | 314 | 6.32 | 6.64 | 208 | 4.58 | 4.88 | – | – | – | – | – | – | – |
| **5.58** | 3.2 | 19.6 | 627 | 5.00 | 6.14 | 314 | 3.22 | 3.90 | 208 | 2.36 | 2.89 | – | – | – | – | – | – | – |
| **5.70** | 4.0 | 24.6 | 614 | 7.24 | 8.18 | 307 | 4.64 | 5.15 | 203 | 3.37 | 3.79 | – | – | – | – | – | – | – |
| **5.79** | 4.8 | 29.6 | 605 | 9.20 | 10.06 | 302 | 5.99 | 6.35 | 200 | 4.34 | 4.67 | – | – | – | – | – | – | – |
| **5.91** | 3.0 | 19.6 | 592 | 4.40 | 5.60 | 296 | 2.86 | 3.57 | 196 | 2.11 | 2.66 | – | – | – | – | – | – | – |
| **5.98** | 3.8 | 24.6 | 586 | 6.70 | 7.69 | 293 | 4.29 | 4.84 | 194 | 3.12 | 3.57 | – | – | – | – | – | – | – |
| **6.02** | 4.6 | 29.6 | 581 | 8.74 | 9.61 | 291 | 5.66 | 6.06 | 193 | 4.10 | 4.45 | – | – | – | – | – | – | – |
| **6.28** | 3.6 | 24.6 | 558 | 6.15 | 7.18 | 279 | 3.94 | 4.53 | 185 | 2.87 | 3.35 | – | – | – | – | – | – | – |
| **6.35** | 5.6 | 37.6 | 551 | 10.87 | 11.78 | 276 | 7.29 | 7.50 | 183 | 5.29 | 5.51 | – | – | – | – | – | – | – |
| **6.55** | 4.2 | 29.6 | 535 | 7.76 | 8.67 | 267 | 4.98 | 5.46 | 177 | 3.61 | 4.02 | – | – | – | – | – | – | – |
| **6.61** | 3.4 | 24.6 | 530 | 5.59 | 6.67 | 265 | 3.58 | 4.22 | 176 | 2.62 | 3.12 | – | – | – | – | – | – | – |
| **6.81** | 5.2 | 37.6 | 514 | 10.08 | 10.94 | 257 | 6.65 | 6.94 | 170 | 4.82 | 5.09 | – | – | – | – | – | – | – |
| **6.84** | 4.0 | 29.6 | 511 | 7.24 | 8.18 | 256 | 4.64 | 5.15 | 169 | 3.37 | 3.80 | – | – | – | – | – | – | – |
| **6.98** | 3.2 | 24.6 | 502 | 5.00 | 6.14 | 251 | 3.23 | 3.90 | 166 | 2.37 | 2.89 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – |
| **7.06** | 5.0 | 37.6 | 496 | 9.65 | 10.51 | 248 | 6.32 | 6.65 | 164 | 4.58 | 4.88 | – | – | – | – | – | – | – |
| **7.17** | 3.8 | 29.6 | 488 | 6.70 | 7.69 | 244 | 4.29 | 4.84 | 162 | 3.12 | 3.57 | – | – | – | – | – | – | – |
| **7.33** | 4.8 | 37.6 | 477 | 9.21 | 10.07 | 239 | 5.99 | 6.35 | 158 | 4.34 | 4.67 | – | – | – | – | – | – | – |
| **7.39** | 3.0 | 24.6 | 474 | 4.41 | 5.60 | 237 | 2.86 | 3.58 | 157 | 2.11 | 2.66 | – | – | – | – | – | – | – |
| **7.53** | 3.6 | 29.6 | 465 | 6.15 | 7.18 | 232 | 3.94 | 4.53 | 154 | 2.87 | 3.35 | – | – | – | – | – | – | – |
| **7.63** | 4.6 | 37.6 | 459 | 8.74 | 9.61 | 229 | 5.66 | 6.06 | 152 | 4.10 | 4.45 | – | – | – | – | – | – | – |
| **7.93** | 3.4 | 29.6 | 441 | 5.59 | 6.67 | 221 | 3.58 | 4.22 | 146 | 2.62 | 3.12 | – | – | – | – | – | – | – |
| **8.29** | 4.2 | 37.6 | 422 | 7.76 | 8.67 | 211 | 4.98 | 5.46 | 140 | 3.61 | 4.02 | – | – | – | – | – | – | – |
| **8.37** | 3.2 | 29.6 | 418 | 5.00 | 6.14 | 209 | 3.23 | 3.90 | 139 | 2.37 | 2.89 | – | – | – | – | – | – | – |
| **8.67** | 4.0 | 37.6 | 404 | 7.24 | 8.19 | 202 | 4.64 | 5.15 | 134 | 3.37 | 3.80 | – | – | – | – | – | – | – |
| **8.87** | 3.0 | 29.6 | 395 | 4.41 | 5.60 | 197 | 2.87 | 3.58 | 131 | 2.11 | 2.66 | – | – | – | – | – | – | – |
| **9.09** | 3.8 | 37.6 | 385 | 6.71 | 7.69 | 193 | 4.29 | 4.85 | 128 | 3.12 | 3.57 | – | – | – | – | – | – | – |
| **9.54** | 3.6 | 37.6 | 367 | 6.16 | 7.18 | 183 | 3.94 | 4.53 | 122 | 2.87 | 3.35 | – | – | – | – | – | – | – |
| **10.05** | 3.4 | 37.6 | 348 | 5.59 | 6.67 | 174 | 3.58 | 4.22 | 115 | 2.62 | 3.12 | – | – | – | – | – | – | – |
| **10.61** | 3.2 | 37.6 | 330 | 5.01 | 6.14 | 165 | 3.23 | 3.90 | 109 | 2.37 | 2.89 | – | – | – | – | – | – | – |
| **11.24** | 3.0 | 37.6 | 311 | 4.41 | 5.60 | 156 | 2.87 | 3.58 | 103 | 2.11 | 2.66 | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – |

# Selection

## Stock Drive Selection

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A48<br>AX48 | A51<br>AX51 | A53<br>AX53 | A55<br>AX55 | A60<br>AX60 | A64<br>AX64 | A66<br>AX66 | A68<br>AX68 | A71<br>AX71 | A75<br>AX75 | A78<br>AX78 | A80<br>AX80 | A85<br>AX85 | A90<br>AX90 | A96<br>AX96 | A105<br>AX105 | A112<br>AX112 | A120<br>AX120 | A128<br>AX128 |
| **3.69** | – | – | – | – | 10.8 | 13.2 | 14.3 | 15.5 | 17.1 | 19.2 | 20.8 | 21.9 | 24.5 | 27.1 | 30.2 | 34.8 | 38.3 | 42.4 | 46.4 |
| **3.71** | – | – | – | – | – | – | 12.1 | 13.3 | 15.1 | 17.3 | 18.9 | 20.0 | 22.7 | 25.3 | 28.4 | 33.0 | 36.6 | 40.7 | 44.7 |
| **3.79** | 10.6 | 12.3 | 13.3 | 14.4 | 17.0 | 19.1 | 20.2 | 21.2 | 22.7 | 24.8 | 26.3 | 27.3 | 29.9 | 32.4 | 35.4 | 40.0 | 43.5 | 47.5 | 51.5 |
| **3.82** | – | – | 10.2 | 11.4 | 14.2 | 16.4 | 17.4 | 18.5 | 20.1 | 22.1 | 23.7 | 24.7 | 27.3 | 29.8 | 32.9 | 37.5 | 41.0 | 45.0 | 49.1 |
| **3.86** | – | 9.9 | 11.1 | 12.2 | 15.0 | 17.1 | 18.2 | 19.2 | 20.8 | 22.8 | 24.4 | 25.4 | 28.0 | 30.5 | 33.6 | 38.1 | 41.7 | 45.7 | 49.7 |
| **3.92** | – | – | – | – | – | – | – | – | – | – | – | 13.4 | 16.5 | 19.4 | 22.7 | 27.6 | 31.2 | 35.4 | 39.5 |
| **4.01** | – | – | – | – | 11.1 | 13.5 | 14.6 | 15.7 | 17.4 | 19.5 | 21.1 | 22.1 | 24.8 | 27.4 | 30.4 | 35.0 | 38.6 | 42.7 | 46.7 |
| **4.02** | 10.7 | 12.4 | 13.5 | 14.5 | 17.2 | 19.3 | 20.3 | 21.3 | 22.9 | 24.9 | 26.4 | 27.5 | 30.0 | 32.5 | 35.6 | 40.1 | 43.6 | 47.7 | 51.7 |
| **4.07** | – | 10.0 | 11.2 | 12.3 | 15.1 | 17.2 | 18.3 | 19.3 | 20.9 | 23.0 | 24.5 | 25.5 | 28.1 | 30.7 | 33.7 | 38.3 | 41.8 | 45.8 | 49.9 |
| **4.20** | – | – | – | – | 11.2 | 13.6 | 14.7 | 15.8 | 17.5 | 19.6 | 21.2 | 22.3 | 24.9 | 27.5 | 30.6 | 35.2 | 38.7 | 42.8 | 46.9 |
| **4.23** | – | 9.2 | 10.5 | 11.6 | 14.4 | 16.6 | 17.7 | 18.7 | 20.3 | 22.4 | 24.0 | 25.0 | 27.6 | 30.1 | 33.2 | 37.7 | 41.3 | 45.3 | 49.4 |
| **4.30** | 8.3 | 10.1 | 11.3 | 12.5 | 15.2 | 17.4 | 18.4 | 19.5 | 21.0 | 23.1 | 24.7 | 25.7 | 28.2 | 30.8 | 33.8 | 38.4 | 41.9 | 46.0 | 50.0 |
| **4.36** | – | – | – | – | – | 11.4 | 12.6 | 13.8 | 15.6 | 17.8 | 19.4 | 20.5 | 23.2 | 25.8 | 28.9 | 33.6 | 37.2 | 41.2 | 45.3 |
| **4.40** | – | – | – | – | 11.3 | 13.7 | 14.8 | 16.0 | 17.6 | 19.8 | 21.4 | 22.4 | 25.0 | 27.6 | 30.7 | 35.3 | 38.9 | 43.0 | 47.0 |
| **4.46** | – | 9.3 | 10.6 | 11.8 | 14.6 | 16.7 | 17.8 | 18.9 | 20.5 | 22.5 | 24.1 | 25.1 | 27.7 | 30.3 | 33.3 | 37.9 | 41.4 | 45.5 | 49.5 |
| | **0.78** | **0.79** | **0.80** | **0.81** | **0.82** | **0.83** | **0.85** | **0.85** | **0.87** | **0.91** | **0.92** | **0.94** | **0.97** | **0.99** | **1.02** | **1.05** | **1.07** | **1.10** | **1.12** |
| **4.48** | – | – | – | – | – | – | – | – | – | – | 12.5 | 13.9 | 17.0 | 19.9 | 23.2 | 28.1 | 31.8 | 35.9 | 40.1 |
| **4.55** | 8.4 | 10.3 | 11.4 | 12.6 | 15.3 | 17.5 | 18.5 | 19.6 | 21.2 | 23.2 | 24.8 | 25.8 | 28.4 | 30.9 | 34.0 | 38.6 | 42.1 | 46.1 | 50.2 |
| **4.56** | – | – | – | – | – | 11.5 | 12.7 | 13.9 | 15.7 | 17.9 | 19.6 | 20.7 | 23.3 | 26.0 | 29.1 | 33.7 | 37.3 | 41.4 | 45.5 |
| **4.62** | – | – | – | – | 11.4 | 13.8 | 15.0 | 16.1 | 17.7 | 19.9 | 21.5 | 22.5 | 25.2 | 27.8 | 30.9 | 35.5 | 39.0 | 43.1 | 47.1 |
| **4.64** | – | – | – | – | – | – | – | – | – | – | 12.6 | 14.0 | 17.1 | 20.0 | 23.4 | 28.2 | 31.9 | 36.1 | 40.2 |
| **4.73** | – | 9.4 | 10.7 | 11.9 | 14.7 | 16.9 | 17.9 | 19.0 | 20.6 | 22.7 | 24.2 | 25.3 | 27.8 | 30.4 | 33.5 | 38.0 | 41.6 | 45.6 | 49.6 |
| **4.78** | – | – | – | – | – | 11.6 | 12.9 | 14.1 | 15.8 | 18.1 | 19.7 | 20.8 | 23.5 | 26.1 | 29.2 | 33.9 | 37.4 | 41.5 | 45.6 |
| **4.82** | – | – | – | – | – | – | – | – | – | – | 12.7 | 14.1 | 17.2 | 20.1 | 23.5 | 28.3 | 32.0 | 36.2 | 40.4 |
| **4.86** | – | – | – | – | 11.5 | 13.9 | 15.1 | 16.2 | 17.9 | 20.0 | 21.6 | 22.7 | 25.3 | 27.9 | 31.0 | 35.6 | 39.2 | 43.2 | 47.3 |
| **5.01** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 16.7 | 22.3 | 26.3 | 30.7 | 35.0 |
| **5.02** | – | – | – | – | – | 11.7 | 13.0 | 14.2 | 15.9 | 18.2 | 19.8 | 20.9 | 23.6 | 26.2 | 29.3 | 34.0 | 37.6 | 41.7 | 45.7 |
| **5.13** | – | – | – | – | 11.7 | 14.1 | 15.2 | 16.3 | 18.0 | 20.1 | 21.7 | 22.8 | 25.4 | 28.0 | 31.1 | 35.7 | 39.3 | 43.4 | 47.4 |
| **5.29** | – | – | – | – | – | 11.8 | 13.1 | 14.3 | 16.1 | 18.3 | 20.0 | 21.0 | 23.7 | 26.4 | 29.5 | 34.1 | 37.7 | 41.8 | 45.9 |
| **5.37** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 16.9 | 22.5 | 26.5 | 30.9 | 35.2 |
| **5.44** | – | – | – | – | 11.8 | 14.2 | 15.3 | 16.5 | 18.1 | 20.3 | 21.9 | 22.9 | 25.6 | 28.2 | 31.3 | 35.9 | 39.5 | 43.5 | 47.6 |
| | **0.78** | **0.79** | **0.80** | **0.81** | **0.82** | **0.83** | **0.85** | **0.85** | **0.87** | **0.91** | **0.92** | **0.94** | **0.97** | **0.99** | **1.02** | **1.05** | **1.07** | **1.10** | **1.12** |
| **5.45** | – | – | – | – | – | – | – | – | – | – | 13.1 | 14.4 | 17.6 | 20.5 | 23.9 | 28.7 | 32.4 | 36.6 | 40.8 |
| **5.57** | – | – | – | – | – | 11.9 | 13.2 | 14.4 | 16.2 | 18.4 | – | – | – | – | 17.1 | 22.6 | 26.7 | 31.1 | 35.3 |
| **5.58** | – | – | – | – | – | – | – | – | – | – | 20.1 | 21.2 | 23.8 | 26.5 | 29.6 | 34.3 | 37.9 | 42.0 | 46.0 |
| **5.70** | – | – | – | – | – | – | – | – | – | – | 13.2 | 14.6 | 17.7 | 20.6 | 24.0 | 28.9 | 32.6 | 36.8 | 40.9 |
| **5.79** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 17.2 | 22.8 | 26.8 | 31.2 | 35.5 |
| **5.91** | – | – | – | – | – | 12.1 | 13.3 | 14.5 | 16.3 | 18.6 | 20.2 | 21.3 | 24.0 | 26.6 | 29.8 | 34.4 | 38.0 | 42.1 | 46.2 |
| **5.98** | – | – | – | – | – | – | – | – | – | – | 13.3 | 14.7 | 17.8 | 20.7 | 24.1 | 29.0 | 32.7 | 36.9 | 41.0 |
| **6.02** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 17.3 | 22.9 | 26.9 | 31.3 | 35.6 |
| **6.28** | – | – | – | – | – | – | – | – | – | – | 13.4 | 14.8 | 17.9 | 20.9 | 24.2 | 29.1 | 32.8 | 37.0 | 41.2 |
| **6.35** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 20.5 | 25.8 |
| **6.55** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 17.5 | 23.1 | 27.1 | 31.6 | 35.9 |
| **6.61** | – | – | – | – | – | – | – | – | – | – | 13.5 | 14.9 | 18.1 | 21.0 | 24.4 | 29.2 | 33.0 | 37.2 | 41.3 |
| **6.81** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 20.7 | 26.0 |
| **6.84** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 17.6 | 23.3 | 27.3 | 31.7 | 36.0 |
| **6.98** | – | – | – | – | – | – | – | – | – | – | 13.6 | 15.0 | 18.2 | 21.1 | 24.5 | 29.4 | 33.1 | 37.3 | 41.4 |
| | – | – | – | – | – | **0.76** | **0.76** | **0.78** | **0.83** | **0.87** | **0.89** | **0.91** | **0.94** | **0.97** | **1.00** | **1.04** | **1.06** | **1.09** | **1.11** |
| **7.06** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 20.8 | 26.1 |
| **7.17** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 17.7 | 23.4 | 27.4 | 31.8 | 36.1 |
| **7.33** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 20.9 | 26.2 |
| **7.39** | – | – | – | – | – | – | – | – | – | 11.3 | 13.7 | 15.1 | 18.3 | 21.2 | 24.6 | 29.5 | 33.2 | 37.4 | 41.6 |
| **8.29** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.3 | 26.6 |
| **8.37** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 18.1 | 23.7 | 27.8 | 32.2 | 36.5 |
| **8.67** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.4 | 26.7 |
| **8.87** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 18.2 | 23.9 | 27.9 | 32.3 | 36.6 |
| **9.09** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.5 | 26.8 |
| **9.54** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.6 | 26.9 |
| **10.05** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.7 | 27.1 |
| **10.61** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 21.9 | 27.2 |
| **11.24** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 22.0 | 27.3 |
| | – | – | – | – | – | – | – | – | – | **0.75** | **0.77** | **0.80** | **0.82** | **0.88** | **0.93** | **0.99** | **1.02** | **1.05** | **1.08** |

# Selection

## Stock Drive Selection

**B** S-L CLASSIC

**BX** CLASSIC COG

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | B35 | B38 | B42 | B46 | B51 | B55 | B60 | B64 |
| | Driver | Driven | RPM | B | BX | RPM | B | BX | RPM | B | BX | BX35 | BX38 | BX42 | BX46 | BX51 | BX55 | BX60 | BX64 |
| 1.00 | 3.40 | 3.40 | 3500 | 1.41 | 7.30 | 1750 | 1.95 | 4.99 | 1160 | 1.67 | 3.74 | 13.1 | 14.6 | 16.6 | 18.6 | 21.1 | 23.1 | 25.6 | 27.6 |
| | 3.80 | 3.80 | 3500 | 3.20 | 8.67 | 1750 | 3.07 | 5.90 | 1160 | 2.47 | 4.40 | 12.4 | 13.9 | 15.9 | 17.9 | 20.4 | 22.4 | 24.9 | 26.9 |
| | 4.20 | 4.20 | 3500 | 4.88 | 9.94 | 1750 | 4.18 | 6.78 | 1160 | 3.26 | 5.05 | 11.8 | 13.3 | 15.3 | 17.3 | 19.8 | 21.8 | 24.3 | 26.3 |
| | 4.60 | 4.60 | 3500 | 6.45 | 11.11 | 1750 | 5.26 | 7.65 | 1160 | 4.03 | 5.68 | 11.2 | 12.7 | 14.7 | 16.7 | 19.2 | 21.2 | 23.7 | 25.7 |
| | 5.00 | 5.00 | 3500 | 7.90 | 12.17 | 1750 | 6.32 | 8.49 | 1160 | 4.80 | 6.31 | 10.6 | 12.1 | 14.1 | 16.1 | 18.6 | 20.6 | 23.1 | 25.1 |
| | 5.20 | 5.20 | 3500 | 8.58 | 12.66 | 1750 | 6.84 | 8.90 | 1160 | 5.18 | 6.62 | 10.2 | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |
| | 5.40 | 5.40 | 3500 | 9.23 | 13.12 | 1750 | 7.36 | 9.31 | 1160 | 5.56 | 6.92 | 9.9 | 11.4 | 13.4 | 15.4 | 17.9 | 19.9 | 22.4 | 24.4 |
| | 5.60 | 5.60 | 3500 | 9.85 | 13.55 | 1750 | 7.87 | 9.71 | 1160 | 5.94 | 7.22 | 9.6 | 11.1 | 13.1 | 15.1 | 17.6 | 19.6 | 22.1 | 24.1 |
| | 6.00 | 6.00 | 3500 | 10.97 | 14.33 | 1750 | 8.87 | 10.49 | 1160 | 6.68 | 7.82 | 9.0 | 10.5 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |
| | 6.40 | 6.40 | 3500 | 11.96 | 14.99 | 1750 | 9.85 | 11.26 | 1160 | 7.41 | 8.41 | 8.4 | 9.9 | 11.9 | 13.9 | 16.4 | 18.4 | 20.9 | 22.9 |
| | 6.80 | 6.80 | 3500 | 12.80 | 15.51 | 1750 | 10.81 | 11.99 | 1160 | 8.14 | 8.99 | 7.7 | 9.2 | 11.2 | 13.2 | 15.7 | 17.7 | 20.2 | 22.2 |
| | 7.40 | 7.40 | 3500 | – | – | 1750 | 12.19 | 13.06 | 1160 | 9.20 | 9.84 | – | 8.3 | 10.3 | 12.3 | 14.8 | 16.8 | 19.3 | 21.3 |
| | 8.60 | 8.60 | 3500 | – | – | 1750 | 14.79 | 15.03 | 1160 | 11.27 | 11.47 | – | – | – | 10.4 | 12.9 | 14.9 | 17.4 | 19.4 |
| | 9.40 | 9.40 | 3500 | – | – | 1750 | 16.38 | 16.22 | 1160 | 12.59 | 12.50 | – | – | – | – | 11.6 | 13.6 | 16.1 | 18.1 |
| 1.03 | 6.80 | 7.00 | 3405 | 13.01 | 15.72 | 1702 | 10.91 | 12.10 | 1128 | 8.20 | 9.06 | 7.6 | 9.1 | 11.1 | 13.1 | 15.6 | 17.6 | 20.1 | 22.1 |
| | 6.00 | 6.20 | 3393 | 11.21 | 14.57 | 1697 | 8.99 | 10.61 | 1125 | 6.76 | 7.90 | 8.8 | 10.3 | 12.3 | 14.3 | 16.8 | 18.8 | 21.3 | 23.3 |
| | 5.40 | 5.60 | 3383 | 9.49 | 13.38 | 1691 | 7.49 | 9.43 | 1121 | 5.65 | 7.01 | 9.8 | 11.3 | 13.3 | 15.3 | 17.8 | 19.8 | 22.3 | 24.3 |
| 1.04 | 5.20 | 5.40 | 3378 | 8.85 | 12.92 | 1689 | 6.98 | 9.03 | 1120 | 5.27 | 6.70 | 10.1 | 11.6 | 13.6 | 15.6 | 18.1 | 20.1 | 22.6 | 24.6 |
| | 4.60 | 4.80 | 3364 | 6.75 | 11.40 | 1682 | 5.41 | 7.79 | 1115 | 4.13 | 5.78 | 11.0 | 12.5 | 14.5 | 16.5 | 19.0 | 21.0 | 23.5 | 25.5 |
| | 4.20 | 4.40 | 3353 | 5.20 | 10.25 | 1676 | 4.34 | 6.94 | 1111 | 3.36 | 5.15 | 11.6 | 13.1 | 15.1 | 17.1 | 19.6 | 21.6 | 24.1 | 26.1 |
| 1.05 | 4.00 | 4.20 | 3346 | 4.38 | 9.64 | 1673 | 3.79 | 6.51 | 1109 | 2.97 | 4.83 | 12.0 | 13.5 | 15.5 | 17.5 | 20.0 | 22.0 | 24.5 | 26.5 |
| | 3.60 | 3.80 | 3332 | 2.68 | 8.36 | 1666 | 2.69 | 5.62 | 1104 | 2.19 | 4.19 | 12.6 | 14.1 | 16.1 | 18.1 | 20.6 | 22.6 | 25.1 | 27.1 |
| | 3.40 | 3.60 | 3323 | 1.79 | 7.68 | 1662 | 2.13 | 5.18 | 1101 | 1.79 | 3.87 | 12.9 | 14.4 | 16.4 | 18.4 | 20.9 | 22.9 | 25.4 | 27.4 |
| 1.06 | 6.40 | 6.80 | 3304 | 12.37 | 15.40 | 1652 | 10.06 | 11.46 | 1095 | 7.55 | 8.55 | 8.0 | 9.5 | 11.5 | 13.5 | 16.0 | 18.0 | 20.5 | 22.5 |
| | 6.00 | 6.40 | 3293 | 11.41 | 14.77 | 1646 | 9.09 | 10.71 | 1091 | 6.82 | 7.97 | 8.7 | 10.2 | 12.2 | 14.2 | 16.7 | 18.7 | 21.2 | 23.2 |
| 1.07 | 5.60 | 6.00 | 3280 | 10.30 | 14.01 | 1640 | 8.10 | 9.94 | 1087 | 6.09 | 7.38 | 9.3 | 10.8 | 12.8 | 14.8 | 17.3 | 19.3 | 21.8 | 23.8 |
| | 5.00 | 5.40 | 3257 | 8.40 | 12.67 | 1628 | 6.57 | 8.74 | 1079 | 4.97 | 6.47 | 10.2 | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |
| 1.08 | 7.40 | 8.00 | 3249 | – | – | 1624 | 12.45 | 13.32 | 1077 | 9.37 | 10.01 | – | 7.8 | 9.8 | 11.8 | 14.3 | 16.3 | 18.8 | 20.8 |
| | 4.60 | 5.00 | 3239 | 6.99 | 11.64 | 1619 | 5.53 | 7.91 | 1073 | 4.21 | 5.86 | 10.9 | 12.4 | 14.4 | 16.4 | 18.9 | 20.9 | 23.4 | 25.4 |
| 1.09 | 8.60 | 9.40 | 3213 | – | – | 1607 | 15.08 | 15.32 | 1065 | 11.46 | 11.66 | – | – | – | 9.8 | 12.3 | 14.3 | 16.8 | 18.8 |
| | 4.00 | 4.40 | 3206 | 4.65 | 9.91 | 1603 | 3.92 | 6.64 | 1063 | 3.06 | 4.92 | 11.8 | 13.3 | 15.3 | 17.3 | 19.8 | 21.8 | 24.3 | 26.3 |
| | 6.00 | 6.60 | 3198 | 11.58 | 14.94 | 1599 | 9.17 | 10.79 | 1060 | 6.88 | 8.02 | 8.5 | 10.0 | 12.0 | 14.0 | 16.5 | 18.5 | 21.0 | 23.0 |
| 1.10 | 5.60 | 6.20 | 3180 | 10.48 | 14.19 | 1590 | 8.19 | 10.03 | 1054 | 6.15 | 7.43 | 9.1 | 10.6 | 12.6 | 14.6 | 17.1 | 19.1 | 21.6 | 23.6 |
| | 3.60 | 4.00 | 3179 | 2.96 | 8.63 | 1589 | 2.83 | 5.76 | 1054 | 2.28 | 4.28 | 12.4 | 13.9 | 15.9 | 17.9 | 20.4 | 22.4 | 24.9 | 26.9 |
| 1.11 | 3.40 | 3.80 | 3163 | 2.07 | 7.96 | 1582 | 2.28 | 5.32 | 1048 | 1.89 | 3.96 | 12.7 | 14.2 | 16.2 | 18.2 | 20.7 | 22.7 | 25.2 | 27.2 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.76** | **0.78** | **0.81** | **0.83** | **0.86** | **0.88** | **0.90** | **0.92** |
| 1.11 | 5.20 | 5.80 | 3159 | 9.25 | 13.33 | 1580 | 7.18 | 9.24 | 1047 | 5.41 | 6.84 | 9.8 | 11.3 | 13.3 | 15.3 | 17.8 | 19.8 | 22.3 | 24.3 |
| 1.12 | 4.60 | 5.20 | 3122 | 7.18 | 11.84 | 1561 | 5.63 | 8.01 | 1035 | 4.28 | 5.93 | 10.7 | 12.2 | 14.2 | 16.2 | 18.7 | 20.7 | 23.2 | 25.2 |
| 1.13 | 6.00 | 6.80 | 3109 | 11.72 | 15.08 | 1554 | 9.25 | 10.87 | 1030 | 6.93 | 8.07 | 8.3 | 9.8 | 11.8 | 13.8 | 16.3 | 18.3 | 20.8 | 22.8 |
| | 4.20 | 4.80 | 3093 | 5.66 | 10.71 | 1547 | 4.57 | 7.17 | 1025 | 3.51 | 5.30 | 11.3 | 12.8 | 14.8 | 16.8 | 19.3 | 21.3 | 23.8 | 25.8 |
| | 5.60 | 6.40 | 3086 | 10.63 | 14.34 | 1543 | 8.26 | 10.10 | 1023 | 6.20 | 7.48 | 9.0 | 10.5 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |
| 1.14 | 5.40 | 6.20 | 3073 | 10.04 | 13.93 | 1537 | 7.76 | 9.71 | 1019 | 5.83 | 7.19 | 9.3 | 10.8 | 12.8 | 14.8 | 17.3 | 19.3 | 21.8 | 23.8 |
| | 3.80 | 4.40 | 3059 | 4.03 | 9.49 | 1529 | 3.49 | 6.31 | 1014 | 2.74 | 4.67 | 12.0 | 13.5 | 15.5 | 17.5 | 20.0 | 22.0 | 24.5 | 26.5 |
| 1.15 | 5.00 | 5.80 | 3045 | 8.75 | 13.01 | 1523 | 6.74 | 8.91 | 1009 | 5.08 | 6.59 | 9.9 | 11.4 | 13.4 | 15.4 | 17.9 | 19.9 | 22.4 | 24.4 |
| | 3.60 | 4.20 | 3039 | 3.17 | 8.85 | 1520 | 2.94 | 5.87 | 1007 | 2.35 | 4.36 | 12.3 | 13.8 | 15.8 | 17.8 | 20.3 | 22.3 | 24.8 | 26.8 |
| | 7.40 | 8.60 | 3031 | – | – | 1516 | 12.63 | 13.49 | 1005 | 9.49 | 10.12 | – | – | 9.3 | 11.3 | 13.8 | 15.8 | 18.3 | 20.3 |
| 1.16 | 6.00 | 7.00 | 3024 | 11.85 | 15.21 | 1512 | 9.31 | 10.93 | 1002 | 6.97 | 8.11 | 8.2 | 9.7 | 11.7 | 13.7 | 16.2 | 18.2 | 20.7 | 22.7 |
| | 3.40 | 4.00 | 3018 | 2.30 | 8.19 | 1509 | 2.39 | 5.43 | 1000 | 1.96 | 4.03 | 12.6 | 14.1 | 16.1 | 18.1 | 20.6 | 22.6 | 25.1 | 27.1 |
| | 9.40 | 11.00 | 3007 | – | – | 1504 | 16.83 | 16.67 | 997 | 12.89 | 12.80 | – | – | – | – | 10.4 | 12.4 | 14.9 | 16.9 |
| 1.17 | 6.80 | 8.00 | 2998 | 13.71 | 16.43 | 1499 | 11.26 | 12.45 | 993 | 8.44 | 9.29 | – | 8.3 | 10.3 | 12.3 | 14.8 | 16.8 | 19.3 | 21.3 |
| | 5.40 | 6.40 | 2982 | 10.17 | 14.06 | 1491 | 7.83 | 9.77 | 988 | 5.87 | 7.23 | 9.1 | 10.6 | 12.6 | 14.6 | 17.1 | 19.1 | 21.6 | 23.6 |
| 1.18 | 5.20 | 6.20 | 2966 | 9.54 | 13.61 | 1483 | 7.32 | 9.38 | 983 | 5.50 | 6.93 | 9.4 | 10.9 | 12.9 | 14.9 | 17.4 | 19.4 | 21.9 | 23.9 |
| | 4.00 | 4.80 | 2957 | 5.02 | 10.28 | 1479 | 4.11 | 6.83 | 980 | 3.18 | 5.05 | 11.5 | 13.0 | 15.0 | 17.0 | 19.5 | 21.5 | 24.0 | 26.0 |
| 1.19 | 5.00 | 6.00 | 2950 | 8.88 | 13.15 | 1475 | 6.81 | 8.98 | 978 | 5.13 | 6.63 | 9.8 | 11.3 | 13.3 | 15.3 | 17.8 | 19.8 | 22.3 | 24.3 |
| | 3.80 | 4.60 | 2935 | 4.19 | 9.66 | 1468 | 3.57 | 6.39 | 973 | 2.80 | 4.73 | 11.8 | 13.3 | 15.3 | 17.3 | 19.8 | 21.8 | 24.3 | 26.3 |
| 1.20 | 5.60 | 6.80 | 2913 | 10.87 | 14.58 | 1457 | 8.38 | 10.22 | 966 | 6.27 | 7.56 | 8.6 | 10.1 | 12.2 | 14.2 | 16.7 | 18.7 | 21.2 | 23.2 |
| | 4.60 | 5.60 | 2913 | 7.48 | 12.13 | 1456 | 5.77 | 8.16 | 965 | 4.37 | 6.02 | 10.4 | 11.9 | 13.9 | 15.9 | 18.4 | 20.4 | 22.9 | 24.9 |
| | 3.60 | 4.40 | 2912 | 3.34 | 9.02 | 1456 | 3.02 | 5.96 | 965 | 2.41 | 4.41 | 12.1 | 13.6 | 15.6 | 17.6 | 20.1 | 22.1 | 24.6 | 26.6 |
| 1.21 | 5.40 | 6.60 | 2897 | 10.27 | 14.16 | 1448 | 7.88 | 9.83 | 960 | 5.91 | 7.27 | 9.0 | 10.5 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |
| | 3.40 | 4.20 | 2886 | 2.47 | 8.36 | 1443 | 2.47 | 5.52 | 956 | 2.02 | 4.09 | 12.4 | 13.9 | 15.9 | 17.9 | 20.4 | 22.4 | 24.9 | 26.9 |
| 1.22 | 4.20 | 5.20 | 2871 | 5.96 | 11.01 | 1435 | 4.72 | 7.32 | 951 | 3.61 | 5.40 | 11.0 | 12.5 | 14.5 | 16.5 | 19.0 | 21.0 | 23.5 | 25.5 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.75** | **0.77** | **0.80** | **0.82** | **0.85** | **0.87** | **0.89** | **0.90** |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B68 | B75 | B81 | B85 | B90 | B97 | B105 | B112 | B120 | B128 | B144 | B158 | B173 | B180 | B195 | B210 | B240 | B270 |
| | BX68 | BX75 | BX81 | BX85 | BX90 | BX97 | BX105 | BX112 | BX120 | BX128 | BX144 | BX158 | BX173 | BX180 | BX195 | BX210 | BX240 | BX270 |
| | 29.6 | 33.1 | 36.1 | 38.1 | 40.6 | 44.1 | 48.1 | 51.6 | 55.6 | 59.6 | 67.6 | 74.6 | 82.1 | 85.6 | 93.1 | 100.6 | 114.8 | 129.8 |
| | 28.9 | 32.4 | 35.4 | 37.4 | 39.9 | 43.4 | 47.4 | 50.9 | 54.9 | 58.9 | 66.9 | 73.9 | 81.4 | 84.9 | 92.4 | 99.9 | 114.2 | 129.2 |
| | 28.3 | 31.8 | 34.8 | 36.8 | 39.3 | 42.8 | 46.8 | 50.3 | 54.3 | 58.3 | 66.3 | 73.3 | 80.8 | 84.3 | 91.8 | 99.3 | 113.6 | 128.6 |
| | 27.7 | 31.2 | 34.2 | 36.2 | 38.7 | 42.2 | 46.2 | 49.7 | 53.7 | 57.7 | 65.7 | 72.7 | 80.2 | 83.7 | 91.2 | 98.7 | 112.9 | 127.9 |
| | 27.1 | 30.6 | 33.5 | 35.5 | 38.0 | 41.5 | 45.5 | 49.0 | 53.0 | 57.0 | 65.0 | 72.0 | 79.5 | 83.0 | 90.5 | 98.0 | 112.3 | 127.3 |
| | 26.7 | 30.2 | 33.2 | 35.2 | 37.7 | 41.2 | 45.2 | 48.7 | 52.7 | 56.7 | 64.7 | 71.7 | 79.2 | 82.7 | 90.2 | 97.7 | 112.0 | 127.0 |
| **1.00** | 26.4 | 29.9 | 32.9 | 34.9 | 37.4 | 40.9 | 44.9 | 48.4 | 52.4 | 56.4 | 64.4 | 71.4 | 78.9 | 82.4 | 89.9 | 97.4 | 111.7 | 126.7 |
| | 26.1 | 29.6 | 32.6 | 34.6 | 37.1 | 40.6 | 44.6 | 48.1 | 52.1 | 56.1 | 64.1 | 71.1 | 78.6 | 82.1 | 89.6 | 97.1 | 111.4 | 126.4 |
| | 25.5 | 29.0 | 32.0 | 34.0 | 36.5 | 40.0 | 44.0 | 47.5 | 51.5 | 55.5 | 63.5 | 70.5 | 78.0 | 81.5 | 89.0 | 96.5 | 110.7 | 125.7 |
| | 24.9 | 28.4 | 31.4 | 33.4 | 35.9 | 39.4 | 43.4 | 46.9 | 50.9 | 54.9 | 62.9 | 69.9 | 77.4 | 80.9 | 88.4 | 95.9 | 110.1 | 125.1 |
| | 24.2 | 27.7 | 30.7 | 32.7 | 35.2 | 38.7 | 42.7 | 46.2 | 50.2 | 54.2 | 62.2 | 69.2 | 76.7 | 80.2 | 87.7 | 95.2 | 109.5 | 124.5 |
| | 23.3 | 26.8 | 29.8 | 31.8 | 34.3 | 37.8 | 41.8 | 45.3 | 49.3 | 53.3 | 61.3 | 68.3 | 75.8 | 79.3 | 86.8 | 94.3 | 108.5 | 123.5 |
| | 21.4 | 24.9 | 27.9 | 29.9 | 32.4 | 35.9 | 39.9 | 43.4 | 47.4 | 51.4 | 59.4 | 66.4 | 73.9 | 77.4 | 84.9 | 92.4 | 106.6 | 121.6 |
| | 20.1 | 23.6 | 26.6 | 28.6 | 31.1 | 34.6 | 38.6 | 42.1 | 46.1 | 50.1 | 58.1 | 65.1 | 72.6 | 76.1 | 83.6 | 91.1 | 105.4 | 120.4 |
| | 24.1 | 27.6 | 30.6 | 32.6 | 35.1 | 38.6 | 42.6 | 46.1 | 50.1 | 54.1 | 62.1 | 69.1 | 76.6 | 80.1 | 87.6 | 95.1 | 109.3 | 124.3 |
| **1.03** | 25.3 | 28.8 | 31.8 | 33.8 | 36.3 | 39.8 | 43.8 | 47.3 | 51.3 | 55.3 | 63.3 | 70.3 | 77.8 | 81.3 | 88.8 | 96.3 | 110.6 | 125.6 |
| | 26.3 | 29.8 | 32.8 | 34.8 | 37.3 | 40.8 | 44.8 | 48.3 | 52.3 | 56.3 | 64.3 | 71.3 | 78.8 | 82.3 | 89.8 | 97.3 | 111.5 | 126.5 |
| | 26.6 | 30.1 | 33.1 | 35.1 | 37.6 | 41.1 | 45.1 | 48.6 | 52.6 | 56.6 | 64.6 | 71.6 | 79.1 | 82.6 | 90.1 | 97.6 | 111.8 | 126.8 |
| **1.04** | 27.5 | 31.0 | 34.0 | 36.0 | 38.5 | 42.0 | 46.0 | 49.5 | 53.5 | 57.5 | 65.5 | 72.5 | 80.0 | 83.5 | 91.0 | 98.5 | 112.8 | 127.8 |
| | 28.1 | 31.6 | 34.6 | 36.6 | 39.1 | 42.6 | 46.6 | 50.1 | 54.1 | 58.1 | 66.1 | 73.1 | 80.6 | 84.1 | 91.6 | 99.1 | 113.4 | 128.4 |
| | 28.5 | 32.0 | 35.0 | 37.0 | 39.5 | 43.0 | 47.0 | 50.5 | 54.5 | 58.5 | 66.5 | 73.5 | 81.0 | 84.5 | 92.0 | 99.5 | 113.7 | 128.7 |
| **1.05** | 29.1 | 32.6 | 35.6 | 37.6 | 40.1 | 43.6 | 47.6 | 51.1 | 55.1 | 59.1 | 67.1 | 74.1 | 81.6 | 85.1 | 92.6 | 100.1 | 114.3 | 129.3 |
| | 29.4 | 32.9 | 35.9 | 37.9 | 40.4 | 43.9 | 47.9 | 51.4 | 55.4 | 59.4 | 67.4 | 74.4 | 81.9 | 85.4 | 92.9 | 100.4 | 114.7 | 129.7 |
| **1.06** | 24.5 | 28.0 | 31.0 | 33.0 | 35.5 | 39.0 | 43.0 | 46.5 | 50.5 | 54.5 | 62.5 | 69.5 | 77.0 | 80.5 | 88.0 | 95.5 | 109.8 | 124.8 |
| | 25.2 | 28.7 | 31.7 | 33.7 | 36.2 | 39.7 | 43.7 | 47.2 | 51.2 | 55.2 | 63.2 | 70.2 | 77.7 | 81.2 | 88.7 | 96.2 | 110.4 | 125.4 |
| **1.07** | 25.8 | 29.3 | 32.3 | 34.3 | 36.8 | 40.3 | 44.3 | 47.8 | 51.8 | 55.8 | 63.8 | 70.8 | 78.3 | 81.8 | 89.3 | 96.8 | 111.0 | 126.0 |
| | 26.7 | 30.2 | 33.2 | 35.2 | 37.7 | 41.2 | 45.2 | 48.7 | 52.7 | 56.7 | 64.7 | 71.7 | 79.2 | 82.7 | 90.2 | 97.7 | 112.0 | 127.0 |
| **1.08** | 22.8 | 26.3 | 29.3 | 31.3 | 33.8 | 37.3 | 41.3 | 44.8 | 48.8 | 52.8 | 60.8 | 67.8 | 75.3 | 78.8 | 86.3 | 93.8 | 108.1 | 123.1 |
| | 27.4 | 30.9 | 33.9 | 35.9 | 38.4 | 41.9 | 45.9 | 49.4 | 53.4 | 57.4 | 65.4 | 72.4 | 79.9 | 83.4 | 90.9 | 98.4 | 112.6 | 127.6 |
| | 20.8 | 24.3 | 27.3 | 29.3 | 31.8 | 35.3 | 39.3 | 42.8 | 46.8 | 50.8 | 58.8 | 65.8 | 73.3 | 76.8 | 84.3 | 91.8 | 106.0 | 121.0 |
| **1.09** | 28.3 | 31.8 | 34.8 | 36.8 | 39.3 | 42.8 | 46.8 | 50.3 | 54.3 | 58.3 | 66.3 | 73.3 | 80.8 | 84.3 | 91.8 | 99.3 | 113.6 | 128.6 |
| | 25.0 | 28.5 | 31.5 | 33.5 | 36.0 | 39.5 | 43.5 | 47.0 | 51.0 | 55.0 | 63.0 | 70.0 | 77.5 | 81.0 | 88.5 | 96.0 | 110.3 | 125.3 |
| **1.10** | 25.6 | 29.1 | 32.1 | 34.1 | 36.6 | 40.1 | 44.1 | 47.6 | 51.6 | 55.6 | 63.6 | 70.6 | 78.1 | 81.6 | 89.1 | 96.6 | 110.9 | 125.9 |
| | 28.9 | 32.4 | 35.4 | 37.4 | 39.9 | 43.4 | 47.4 | 50.9 | 54.9 | 58.9 | 66.9 | 73.9 | 81.4 | 84.9 | 92.4 | 99.9 | 114.2 | 129.2 |
| **1.11** | 29.2 | 32.7 | 35.7 | 37.7 | 40.2 | 43.7 | 47.7 | 51.2 | 55.2 | 59.2 | 67.2 | 74.2 | 81.7 | 85.2 | 92.7 | 100.2 | 114.5 | 129.5 |
| | **0.93** | **0.95** | **0.97** | **0.98** | **1.00** | **1.02** | **1.04** | **1.05** | **1.07** | **1.09** | **1.12** | **1.14** | **1.16** | **1.17** | **1.19** | **1.21** | **1.24** | **1.27** |
| **1.11** | 26.3 | 29.8 | 32.8 | 34.8 | 37.3 | 40.8 | 44.8 | 48.3 | 52.3 | 56.3 | 64.3 | 71.3 | 78.8 | 82.3 | 89.8 | 97.3 | 111.5 | 126.5 |
| **1.12** | 27.2 | 30.7 | 33.7 | 35.7 | 38.2 | 41.7 | 45.7 | 49.2 | 53.2 | 57.2 | 65.2 | 72.2 | 79.7 | 83.2 | 90.7 | 98.2 | 112.5 | 127.5 |
| | 24.8 | 28.3 | 31.3 | 33.3 | 35.8 | 39.3 | 43.4 | 46.9 | 50.9 | 54.9 | 62.9 | 69.9 | 77.4 | 80.9 | 88.4 | 95.9 | 110.1 | 125.1 |
| **1.13** | 27.8 | 31.3 | 34.3 | 36.3 | 38.8 | 42.3 | 46.3 | 49.8 | 53.8 | 57.8 | 65.8 | 72.8 | 80.3 | 83.8 | 91.3 | 98.8 | 113.1 | 128.1 |
| | 25.5 | 29.0 | 32.0 | 34.0 | 36.5 | 40.0 | 44.0 | 47.5 | 51.5 | 55.5 | 63.5 | 70.5 | 78.0 | 81.5 | 89.0 | 96.5 | 110.7 | 125.7 |
| **1.14** | 25.8 | 29.3 | 32.3 | 34.3 | 36.8 | 40.3 | 44.3 | 47.8 | 51.8 | 55.8 | 63.8 | 70.8 | 78.3 | 81.8 | 89.3 | 96.8 | 111.0 | 126.0 |
| | 28.5 | 32.0 | 35.0 | 37.0 | 39.5 | 43.0 | 47.0 | 50.5 | 54.5 | 58.5 | 66.5 | 73.5 | 81.0 | 84.5 | 92.0 | 99.5 | 113.7 | 128.7 |
| | 26.4 | 29.9 | 32.9 | 34.9 | 37.4 | 40.9 | 44.9 | 48.4 | 52.4 | 56.4 | 64.4 | 71.4 | 78.9 | 82.4 | 89.9 | 97.4 | 111.7 | 126.7 |
| **1.15** | 28.8 | 32.3 | 35.3 | 37.3 | 39.8 | 43.3 | 47.3 | 50.8 | 54.8 | 58.8 | 66.8 | 73.8 | 81.3 | 84.8 | 92.3 | 99.8 | 114.0 | 129.0 |
| | 22.3 | 25.8 | 28.8 | 30.8 | 33.3 | 36.8 | 40.8 | 44.3 | 48.3 | 52.3 | 60.3 | 67.3 | 74.8 | 78.3 | 85.8 | 93.3 | 107.6 | 122.6 |
| | 24.7 | 28.2 | 31.2 | 33.2 | 35.7 | 39.2 | 43.2 | 46.7 | 50.7 | 54.7 | 62.7 | 69.7 | 77.2 | 80.7 | 88.2 | 95.7 | 109.9 | 124.9 |
| **1.16** | 29.1 | 32.6 | 35.6 | 37.6 | 40.1 | 43.6 | 47.6 | 51.1 | 55.1 | 59.1 | 67.1 | 74.1 | 81.6 | 85.1 | 92.6 | 100.1 | 114.3 | 129.3 |
| | 18.9 | 22.4 | 25.4 | 27.4 | 29.9 | 33.4 | 37.4 | 40.9 | 44.9 | 48.9 | 56.9 | 63.9 | 71.4 | 74.9 | 82.4 | 89.9 | 104.1 | 119.1 |
| **1.17** | 23.3 | 26.8 | 29.8 | 31.8 | 34.3 | 37.8 | 41.8 | 45.3 | 49.3 | 53.3 | 61.3 | 68.3 | 75.8 | 79.3 | 86.8 | 94.3 | 108.5 | 123.5 |
| | 25.6 | 29.1 | 32.1 | 34.1 | 36.6 | 40.1 | 44.1 | 47.6 | 51.6 | 55.6 | 63.6 | 70.6 | 78.1 | 81.6 | 89.1 | 96.6 | 110.9 | 125.9 |
| **1.18** | 25.9 | 29.4 | 32.4 | 34.4 | 36.9 | 40.4 | 44.4 | 47.9 | 51.9 | 55.9 | 63.9 | 70.9 | 78.4 | 81.9 | 89.4 | 96.9 | 111.2 | 126.2 |
| | 28.0 | 31.5 | 34.5 | 36.5 | 39.0 | 42.5 | 46.5 | 50.0 | 54.0 | 58.0 | 66.0 | 73.0 | 80.5 | 84.0 | 91.5 | 99.0 | 113.2 | 128.2 |
| **1.19** | 26.3 | 29.8 | 32.8 | 34.8 | 37.3 | 40.8 | 44.8 | 48.3 | 52.3 | 56.3 | 64.3 | 71.3 | 78.8 | 82.3 | 89.8 | 97.3 | 111.5 | 126.5 |
| | 28.3 | 31.8 | 34.8 | 36.8 | 39.3 | 42.8 | 46.8 | 50.3 | 54.3 | 58.3 | 66.3 | 73.3 | 80.8 | 84.3 | 91.8 | 99.3 | 113.6 | 128.6 |
| | 25.2 | 28.7 | 31.7 | 33.7 | 36.2 | 39.7 | 43.7 | 47.2 | 51.2 | 55.2 | 63.2 | 70.2 | 77.7 | 81.2 | 88.7 | 96.2 | 110.4 | 125.4 |
| **1.20** | 26.9 | 30.4 | 33.4 | 35.4 | 37.9 | 41.4 | 45.4 | 48.9 | 52.9 | 56.9 | 64.9 | 71.9 | 79.4 | 82.9 | 90.4 | 97.9 | 112.1 | 127.1 |
| | 28.6 | 32.1 | 35.1 | 37.1 | 39.6 | 43.1 | 47.1 | 50.6 | 54.6 | 58.6 | 66.6 | 73.6 | 81.1 | 84.6 | 92.1 | 99.6 | 113.9 | 128.9 |
| **1.21** | 25.5 | 29.0 | 32.0 | 34.0 | 36.5 | 40.0 | 44.0 | 47.5 | 51.5 | 55.5 | 63.5 | 70.5 | 78.0 | 81.5 | 89.0 | 96.5 | 110.7 | 125.7 |
| | 28.9 | 32.4 | 35.4 | 37.4 | 39.9 | 43.4 | 47.4 | 50.9 | 54.9 | 58.9 | 66.9 | 73.9 | 81.4 | 84.9 | 92.4 | 99.9 | 114.2 | 129.2 |
| **1.22** | 27.5 | 31.0 | 34.0 | 36.0 | 38.5 | 42.0 | 46.0 | 49.5 | 53.5 | 57.5 | 65.5 | 72.5 | 80.0 | 83.5 | 91.0 | 98.5 | 112.8 | 127.8 |
| | **0.92** | **0.95** | **0.97** | **0.98** | **0.99** | **1.01** | **1.03** | **1.05** | **1.07** | **1.08** | **1.11** | **1.14** | **1.16** | **1.17** | **1.19** | **1.21** | **1.24** | **1.27** |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | B35 | B38 | B42 | B46 | B51 | B55 | B60 | B64 |
| | Driver | Driven | RPM | B | BX | RPM | B | BX | RPM | B | BX | BX35 | BX38 | BX42 | BX46 | BX51 | BX55 | BX60 | BX64 |
| 1.22 | 6.00 | 7.40 | 2869 | 12.05 | 15.41 | 1434 | 9.41 | 11.03 | 951 | 7.04 | 8.18 | 7.8 | 9.4 | 11.4 | 13.4 | 15.9 | 17.9 | 20.4 | 22.4 |
| | 5.00 | 6.20 | 2860 | 8.99 | 13.26 | 1430 | 6.86 | 9.03 | 948 | 5.16 | 6.67 | 9.6 | 11.1 | 13.1 | 15.1 | 17.6 | 19.6 | 22.1 | 24.1 |
| 1.23 | 4.00 | 5.00 | 2847 | 5.16 | 10.42 | 1424 | 4.18 | 6.89 | 944 | 3.23 | 5.09 | 11.3 | 12.8 | 14.8 | 16.8 | 19.3 | 21.3 | 23.8 | 25.8 |
| | 5.60 | 7.00 | 2834 | 10.96 | 14.67 | 1417 | 8.43 | 10.27 | 939 | 6.31 | 7.59 | 8.5 | 10.0 | 12.0 | 14.0 | 16.5 | 18.5 | 21.0 | 23.0 |
| 1.24 | 6.40 | 8.00 | 2830 | 13.08 | 16.11 | 1415 | 10.41 | 11.81 | 938 | 7.78 | 8.78 | – | 8.6 | 10.6 | 12.6 | 15.1 | 17.1 | 19.6 | 21.6 |
| | 3.80 | 4.80 | 2822 | 4.33 | 9.80 | 1411 | 3.64 | 6.46 | 935 | 2.84 | 4.77 | 11.6 | 13.1 | 15.1 | 17.1 | 19.6 | 21.6 | 24.1 | 26.1 |
| | 4.60 | 5.80 | 2818 | 7.59 | 12.24 | 1409 | 5.83 | 8.21 | 934 | 4.41 | 6.06 | 10.2 | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |
| | 5.40 | 6.80 | 2816 | 10.37 | 14.26 | 1408 | 7.93 | 9.87 | 933 | 5.94 | 7.30 | 8.8 | 10.3 | 12.3 | 14.3 | 16.8 | 18.8 | 21.3 | 23.3 |
| 1.25 | 6.80 | 8.60 | 2797 | 13.95 | 16.67 | 1398 | 11.38 | 12.57 | 927 | 8.52 | 9.37 | – | 7.8 | 9.8 | 11.8 | 14.3 | 16.3 | 18.8 | 20.8 |
| | 5.20 | 6.60 | 2796 | 9.74 | 13.82 | 1398 | 7.42 | 9.48 | 927 | 5.57 | 7.00 | 9.1 | 10.6 | 12.6 | 14.6 | 17.1 | 19.1 | 21.6 | 23.6 |
| | 3.60 | 4.60 | 2794 | 3.48 | 9.16 | 1397 | 3.09 | 6.02 | 926 | 2.45 | 4.46 | 12.0 | 13.5 | 15.5 | 17.5 | 20.0 | 22.0 | 24.5 | 26.5 |
| 1.26 | 7.40 | 9.40 | 2783 | – | – | 1391 | 12.78 | 13.65 | 922 | 9.59 | 10.22 | – | – | 8.7 | 10.7 | 13.2 | 15.2 | 17.7 | 19.7 |
| | 5.00 | 6.40 | 2775 | 9.08 | 13.35 | 1388 | 6.91 | 9.08 | 920 | 5.19 | 6.70 | 9.4 | 10.9 | 12.9 | 14.9 | 17.4 | 19.4 | 21.9 | 23.9 |
| | 4.20 | 5.40 | 2771 | 6.07 | 11.12 | 1385 | 4.77 | 7.38 | 918 | 3.65 | 5.44 | 10.8 | 12.3 | 14.4 | 16.4 | 18.9 | 20.9 | 23.4 | 25.4 |
| 1.27 | 8.60 | 11.00 | 2761 | – | – | 1380 | 15.39 | 15.63 | 915 | 11.66 | 11.86 | – | – | – | – | 10.9 | 13.0 | 15.5 | 17.5 |
| 1.28 | 4.60 | 6.00 | 2730 | 7.68 | 12.33 | 1365 | 5.87 | 8.26 | 905 | 4.44 | 6.09 | 10.1 | 11.6 | 13.6 | 15.6 | 18.1 | 20.1 | 22.6 | 24.6 |
| 1.29 | 5.20 | 6.80 | 2718 | 9.82 | 13.89 | 1359 | 7.46 | 9.52 | 901 | 5.59 | 7.03 | 8.9 | 10.4 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |
| 1.29 | 3.80 | 5.00 | 2716 | 4.44 | 9.91 | 1358 | 3.69 | 6.52 | 900 | 2.88 | 4.81 | 11.5 | 13.0 | 15.0 | 17.0 | 19.5 | 21.5 | 24.0 | 26.0 |
| 1.30 | 5.60 | 7.40 | 2688 | 11.11 | 14.82 | 1344 | 8.50 | 10.34 | 891 | 6.35 | 7.64 | 8.1 | 9.7 | 11.7 | 13.7 | 16.2 | 18.2 | 20.7 | 22.7 |
| 1.31 | 4.20 | 5.60 | 2678 | 6.15 | 11.21 | 1339 | 4.81 | 7.42 | 888 | 3.68 | 5.47 | 10.7 | 12.2 | 14.2 | 16.2 | 18.7 | 20.7 | 23.2 | 25.2 |
| | 9.40 | 12.40 | 2677 | – | – | 1339 | 17.02 | 16.86 | 887 | 13.01 | 12.93 | – | – | – | – | – | 11.2 | 13.7 | 15.7 |
| | 6.00 | 8.00 | 2663 | 12.26 | 15.62 | 1331 | 9.52 | 11.14 | 882 | 7.11 | 8.25 | 7.3 | 8.9 | 10.9 | 12.9 | 15.4 | 17.4 | 19.9 | 21.9 |
| 1.32 | 3.40 | 4.60 | 2653 | 2.71 | 8.60 | 1327 | 2.59 | 5.64 | 879 | 2.10 | 4.17 | 12.1 | 13.6 | 15.6 | 17.6 | 20.1 | 22.1 | 24.6 | 26.6 |
| 1.32 | 4.60 | 6.20 | 2646 | 7.75 | 12.41 | 1323 | 5.91 | 8.30 | 877 | 4.47 | 6.11 | 9.9 | 11.4 | 13.4 | 15.4 | 17.9 | 19.9 | 22.4 | 24.4 |
| 1.33 | 6.40 | 8.60 | 2641 | 13.27 | 16.29 | 1320 | 10.50 | 11.91 | 875 | 7.84 | 8.84 | – | 8.0 | 10.1 | 12.1 | 14.6 | 16.6 | 19.1 | 21.1 |
| 1.34 | 5.00 | 6.80 | 2620 | 9.23 | 13.49 | 1310 | 6.98 | 9.15 | 868 | 5.24 | 6.75 | 9.1 | 10.6 | 12.6 | 14.6 | 17.1 | 19.1 | 21.6 | 23.6 |
| 1.35 | 5.40 | 7.40 | 2598 | 10.57 | 14.46 | 1299 | 8.03 | 9.98 | 861 | 6.01 | 7.37 | 8.3 | 9.8 | 11.8 | 13.8 | 16.3 | 18.3 | 20.8 | 22.8 |
| | 4.20 | 5.80 | 2591 | 6.23 | 11.28 | 1295 | 4.85 | 7.46 | 859 | 3.70 | 5.49 | 10.5 | 12.0 | 14.0 | 16.0 | 18.5 | 20.5 | 23.0 | 25.0 |
| 1.36 | 4.60 | 6.40 | 2568 | 7.82 | 12.47 | 1284 | 5.94 | 8.33 | 851 | 4.49 | 6.14 | 9.7 | 11.2 | 13.2 | 15.2 | 17.7 | 19.7 | 22.2 | 24.2 |
| | 6.80 | 9.40 | 2568 | 14.16 | 16.88 | 1284 | 11.49 | 12.68 | 851 | 8.59 | 9.44 | – | – | 9.1 | 11.1 | 13.6 | 15.6 | 18.1 | 20.1 |
| 1.37 | 3.40 | 4.80 | 2550 | 2.79 | 8.68 | 1275 | 2.63 | 5.68 | 845 | 2.12 | 4.20 | 11.9 | 13.4 | 15.4 | 17.4 | 20.0 | 22.0 | 24.5 | 26.5 |
| | 5.00 | 7.00 | 2549 | 9.28 | 13.55 | 1274 | 7.01 | 9.18 | 845 | 5.26 | 6.76 | 8.9 | 10.4 | 12.4 | 14.4 | 17.0 | 19.0 | 21.5 | 23.5 |
| 1.39 | 4.20 | 6.00 | 2509 | 6.29 | 11.35 | 1255 | 4.88 | 7.49 | 832 | 3.72 | 5.51 | 10.4 | 11.9 | 13.9 | 15.9 | 18.4 | 20.4 | 22.9 | 24.9 |
| 1.40 | 5.60 | 8.00 | 2495 | 11.26 | 14.97 | 1248 | 8.58 | 10.42 | 827 | 6.41 | 7.69 | 7.6 | 9.1 | 11.2 | 13.2 | 15.7 | 17.7 | 20.2 | 22.2 |
| | 4.60 | 6.60 | 2494 | 7.87 | 12.52 | 1247 | 5.97 | 8.36 | 827 | 4.51 | 6.15 | 9.6 | 11.1 | 13.1 | 15.1 | 17.6 | 19.6 | 22.1 | 24.1 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.75** | **0.77** | **0.80** | **0.82** | **0.85** | **0.87** | **0.89** | **0.90** |
| 1.40 | 3.60 | 5.20 | 2493 | 3.74 | 9.42 | 1246 | 3.22 | 6.16 | 826 | 2.54 | 4.54 | 11.5 | 13.0 | 15.0 | 17.0 | 19.5 | 21.5 | 24.0 | 26.0 |
| 1.41 | 6.00 | 8.60 | 2484 | 12.40 | 15.76 | 1242 | 9.59 | 11.21 | 823 | 7.15 | 8.29 | – | 8.3 | 10.4 | 12.4 | 14.9 | 16.9 | 19.4 | 21.4 |
| 1.42 | 8.60 | 12.40 | 2458 | – | – | 1229 | 15.51 | 15.75 | 815 | 11.75 | 11.94 | – | – | – | – | – | 11.8 | 14.3 | 16.3 |
| 1.43 | 3.40 | 5.00 | 2455 | 2.86 | 8.75 | 1228 | 2.67 | 5.71 | 814 | 2.15 | 4.22 | 11.8 | 13.3 | 15.3 | 17.3 | 19.8 | 21.8 | 24.3 | 26.3 |
| | 9.40 | 13.60 | 2447 | – | – | 1223 | 17.11 | 16.95 | 811 | 13.07 | 12.98 | – | – | – | – | – | – | 12.7 | 14.7 |
| 1.44 | 6.40 | 9.40 | 2424 | 13.43 | 16.45 | 1212 | 10.58 | 11.99 | 803 | 7.90 | 8.90 | – | – | 9.4 | 11.4 | 13.9 | 15.9 | 18.4 | 20.4 |
| 1.45 | 5.40 | 8.00 | 2411 | 10.70 | 14.59 | 1206 | 8.10 | 10.04 | 799 | 6.05 | 7.41 | 7.8 | 9.3 | 11.3 | 13.3 | 15.8 | 17.8 | 20.3 | 22.3 |
| 1.46 | 4.00 | 6.00 | 2399 | 5.54 | 10.80 | 1200 | 4.37 | 7.08 | 795 | 3.35 | 5.22 | 10.5 | 12.0 | 14.0 | 16.0 | 18.5 | 20.5 | 23.0 | 25.0 |
| | 7.40 | 11.00 | 2391 | – | – | 1195 | 12.94 | 13.80 | 792 | 9.69 | 10.33 | – | – | – | 9.3 | 11.8 | 13.8 | 16.4 | 18.4 |
| 1.48 | 3.40 | 5.20 | 2367 | 2.91 | 8.80 | 1183 | 2.70 | 5.74 | 784 | 2.16 | 4.24 | 11.6 | 13.1 | 15.1 | 17.1 | 19.6 | 21.6 | 24.1 | 26.1 |
| | 4.20 | 6.40 | 2361 | 6.39 | 11.44 | 1180 | 4.93 | 7.54 | 782 | 3.75 | 5.55 | 10.0 | 11.5 | 13.5 | 15.5 | 18.0 | 20.0 | 22.6 | 24.6 |
| 1.50 | 5.60 | 8.60 | 2328 | 11.37 | 15.08 | 1164 | 8.63 | 10.47 | 772 | 6.44 | 7.73 | – | 8.6 | 10.6 | 12.7 | 15.7 | 17.2 | 19.7 | 21.7 |
| 1.51 | 3.60 | 5.60 | 2326 | 3.84 | 9.52 | 1163 | 3.27 | 6.21 | 771 | 2.57 | 4.58 | 11.1 | 12.6 | 14.6 | 16.6 | 19.2 | 21.2 | 23.7 | 25.7 |
| 1.53 | 4.20 | 6.60 | 2293 | 6.42 | 11.48 | 1147 | 4.95 | 7.55 | 760 | 3.77 | 5.56 | 9.8 | 11.4 | 13.4 | 15.4 | 17.9 | 19.9 | 22.4 | 24.4 |
| | 6.00 | 9.40 | 2281 | 12.52 | 15.88 | 1140 | 9.65 | 11.27 | 756 | 7.19 | 8.33 | – | – | 9.7 | 11.7 | 14.2 | 16.2 | 18.7 | 20.7 |
| 1.55 | 4.00 | 6.40 | 2257 | 5.61 | 10.87 | 1129 | 4.41 | 7.12 | 748 | 3.38 | 5.24 | 10.2 | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |
| 1.56 | 3.60 | 5.80 | 2250 | 3.88 | 9.56 | 1125 | 3.29 | 6.23 | 746 | 2.59 | 4.59 | 11.0 | 12.5 | 14.5 | 16.5 | 19.0 | 21.0 | 23.5 | 25.5 |
| | 8.60 | 13.60 | 2246 | – | – | 1123 | 15.57 | 15.81 | 745 | 11.79 | 11.98 | – | – | – | – | – | – | 13.2 | 15.3 |
| | 4.60 | 7.40 | 2237 | 8.02 | 12.67 | 1119 | 6.05 | 8.43 | 741 | 4.55 | 6.20 | 8.9 | 10.4 | 12.4 | 14.4 | 16.9 | 18.9 | 21.4 | 23.4 |
| 1.57 | 4.20 | 6.80 | 2229 | 6.45 | 11.51 | 1115 | 4.96 | 7.57 | 739 | 3.78 | 5.57 | 9.7 | 11.2 | 13.2 | 15.2 | 17.7 | 19.7 | 22.2 | 24.2 |
| 1.59 | 3.40 | 5.60 | 2208 | 2.99 | 8.88 | 1104 | 2.74 | 5.78 | 732 | 2.19 | 4.27 | 11.3 | 12.8 | 14.8 | 16.8 | 19.3 | 21.3 | 23.8 | 25.8 |
| | 6.80 | 11.00 | 2206 | 14.38 | 17.10 | 1103 | 11.60 | 12.79 | 731 | 8.66 | 9.51 | – | – | – | 9.7 | 12.2 | 14.3 | 16.8 | 18.8 |
| 1.60 | 4.00 | 6.60 | 2193 | 5.64 | 10.90 | 1096 | 4.42 | 7.14 | 727 | 3.39 | 5.25 | 10.0 | 11.5 | 13.5 | 15.5 | 18.0 | 20.0 | 22.5 | 24.5 |
| 1.61 | 3.60 | 6.00 | 2179 | 3.91 | 9.59 | 1090 | 3.31 | 6.24 | 722 | 2.60 | 4.60 | 10.8 | 12.3 | 14.3 | 16.3 | 18.8 | 20.8 | 23.3 | 25.3 |
| | 5.20 | 8.60 | 2172 | 10.18 | 14.26 | 1086 | 7.64 | 9.70 | 720 | 5.71 | 7.15 | 7.4 | 8.9 | 10.9 | 13.0 | 15.5 | 17.5 | 20.0 | 22.0 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.74** | **0.76** | **0.79** | **0.81** | **0.84** | **0.86** | **0.88** | **0.90** |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B68 | B75 | B81 | B85 | B90 | B97 | B105 | B112 | B120 | B128 | B144 | B158 | B173 | B180 | B195 | B210 | B240 | B270 |
| | BX68 | BX75 | BX81 | BX85 | BX90 | BX97 | BX105 | BX112 | BX120 | BX128 | BX144 | BX158 | BX173 | BX180 | BX195 | BX210 | BX240 | BX270 |
| 1.22 | 24.4 | 27.9 | 30.9 | 32.9 | 35.4 | 38.9 | 42.9 | 46.4 | 50.4 | 54.4 | 62.4 | 69.4 | 76.9 | 80.4 | 87.9 | 95.4 | 109.6 | 124.6 |
| | 26.1 | 29.6 | 32.6 | 34.6 | 37.1 | 40.6 | 44.6 | 48.1 | 52.1 | 56.1 | 64.1 | 71.1 | 78.6 | 82.1 | 89.6 | 97.1 | 111.4 | 126.4 |
| 1.23 | 27.8 | 31.3 | 34.3 | 36.3 | 38.8 | 42.3 | 46.3 | 49.8 | 53.8 | 57.8 | 65.8 | 72.8 | 80.3 | 83.8 | 91.3 | 98.8 | 113.1 | 128.1 |
| | 25.0 | 28.5 | 31.5 | 33.5 | 36.0 | 39.5 | 43.5 | 47.0 | 51.0 | 55.0 | 63.0 | 70.0 | 77.5 | 81.0 | 88.5 | 96.0 | 110.3 | 125.3 |
| 1.24 | 23.6 | 27.1 | 30.1 | 32.1 | 34.6 | 38.1 | 42.1 | 45.6 | 49.6 | 53.6 | 61.6 | 68.6 | 76.1 | 79.6 | 87.1 | 94.6 | 108.8 | 123.8 |
| | 28.1 | 31.6 | 34.6 | 36.6 | 39.1 | 42.6 | 46.6 | 50.1 | 54.1 | 58.1 | 66.1 | 73.1 | 80.6 | 84.1 | 91.6 | 99.1 | 113.4 | 128.4 |
| | 26.7 | 30.2 | 33.2 | 35.2 | 37.7 | 41.2 | 45.2 | 48.7 | 52.7 | 56.7 | 64.7 | 71.7 | 79.2 | 82.7 | 90.2 | 97.7 | 112.0 | 127.0 |
| | 25.3 | 28.8 | 31.8 | 33.8 | 36.3 | 39.8 | 43.8 | 47.3 | 51.3 | 55.3 | 63.3 | 70.3 | 77.8 | 81.3 | 88.8 | 96.3 | 110.6 | 125.6 |
| 1.25 | 22.8 | 26.3 | 29.3 | 31.3 | 33.8 | 37.3 | 41.3 | 44.8 | 48.8 | 52.8 | 60.8 | 67.8 | 75.3 | 78.8 | 86.3 | 93.8 | 108.1 | 123.1 |
| | 25.6 | 29.1 | 32.1 | 34.1 | 36.6 | 40.1 | 44.1 | 47.6 | 51.6 | 55.6 | 63.6 | 70.6 | 78.1 | 81.6 | 89.1 | 96.6 | 110.9 | 125.9 |
| | 28.5 | 32.0 | 35.0 | 37.0 | 39.5 | 43.0 | 47.0 | 50.5 | 54.5 | 58.5 | 66.5 | 73.5 | 81.0 | 84.5 | 92.0 | 99.5 | 113.7 | 128.7 |
| 1.26 | 21.7 | 25.2 | 28.2 | 30.2 | 32.7 | 36.2 | 40.2 | 43.7 | 47.7 | 51.7 | 59.7 | 66.7 | 74.2 | 77.7 | 85.2 | 92.7 | 107.0 | 122.0 |
| | 25.9 | 29.4 | 32.4 | 34.4 | 36.9 | 40.4 | 44.4 | 47.9 | 51.9 | 55.9 | 63.9 | 70.9 | 78.4 | 81.9 | 89.4 | 96.9 | 111.2 | 126.2 |
| | 27.4 | 30.9 | 33.9 | 35.9 | 38.4 | 41.9 | 45.9 | 49.4 | 53.4 | 57.4 | 65.4 | 72.4 | 79.9 | 83.4 | 90.9 | 98.4 | 112.6 | 127.6 |
| 1.27 | 19.5 | 23.0 | 26.0 | 28.0 | 30.5 | 34.0 | 38.0 | 41.5 | 45.5 | 49.5 | 57.5 | 64.5 | 72.0 | 75.5 | 83.0 | 90.5 | 104.8 | 119.8 |
| 1.28 | 26.6 | 30.1 | 33.1 | 35.1 | 37.6 | 41.1 | 45.1 | 48.6 | 52.6 | 56.6 | 64.6 | 71.6 | 79.1 | 82.6 | 90.1 | 97.6 | 111.8 | 126.8 |
| 1.29 | 25.5 | 29.0 | 32.0 | 34.0 | 36.5 | 40.0 | 44.0 | 47.5 | 51.5 | 55.5 | 63.5 | 70.5 | 78.0 | 81.5 | 89.0 | 96.5 | 110.7 | 125.7 |
| | 28.0 | 31.5 | 34.5 | 36.5 | 39.0 | 42.5 | 46.5 | 50.0 | 54.0 | 58.0 | 66.0 | 73.0 | 80.5 | 84.0 | 91.5 | 99.0 | 113.2 | 128.2 |
| 1.30 | 24.7 | 28.2 | 31.2 | 33.2 | 35.7 | 39.2 | 43.2 | 46.7 | 50.7 | 54.7 | 62.7 | 69.7 | 77.2 | 80.7 | 88.2 | 95.7 | 109.9 | 124.9 |
| 1.31 | 27.2 | 30.7 | 33.7 | 35.7 | 38.2 | 41.7 | 45.7 | 49.2 | 53.2 | 57.2 | 65.2 | 72.2 | 79.7 | 83.2 | 90.7 | 98.2 | 112.5 | 127.5 |
| | 17.7 | 21.2 | 24.2 | 26.2 | 28.7 | 32.3 | 36.3 | 39.8 | 43.8 | 47.8 | 55.8 | 62.8 | 70.3 | 73.8 | 81.3 | 88.8 | 103.0 | 118.0 |
| | 23.9 | 27.4 | 30.4 | 32.4 | 34.9 | 38.4 | 42.4 | 45.9 | 49.9 | 53.9 | 61.9 | 68.9 | 76.4 | 79.9 | 87.4 | 94.9 | 109.2 | 124.2 |
| 1.32 | 28.6 | 32.1 | 35.1 | 37.1 | 39.6 | 43.1 | 47.1 | 50.6 | 54.6 | 58.6 | 66.6 | 73.6 | 81.1 | 84.6 | 92.1 | 99.6 | 113.9 | 128.9 |
| | 26.4 | 29.9 | 32.9 | 34.9 | 37.4 | 40.9 | 44.9 | 48.4 | 52.4 | 56.4 | 64.4 | 71.4 | 78.9 | 82.4 | 89.9 | 97.4 | 111.7 | 126.7 |
| 1.33 | 23.1 | 26.6 | 29.6 | 31.6 | 34.1 | 37.6 | 41.6 | 45.1 | 49.1 | 53.1 | 61.1 | 68.1 | 75.6 | 79.1 | 86.6 | 94.1 | 108.4 | 123.4 |
| 1.34 | 25.6 | 29.1 | 32.1 | 34.1 | 36.6 | 40.1 | 44.1 | 47.6 | 51.6 | 55.6 | 63.6 | 70.6 | 78.1 | 81.6 | 89.1 | 96.6 | 110.9 | 125.9 |
| 1.35 | 24.8 | 28.3 | 31.3 | 33.3 | 35.8 | 39.3 | 43.3 | 46.8 | 50.8 | 54.8 | 62.8 | 69.8 | 77.3 | 80.8 | 88.3 | 95.8 | 110.1 | 125.1 |
| | 27.0 | 30.5 | 33.5 | 35.5 | 38.0 | 41.5 | 45.5 | 49.0 | 53.0 | 57.0 | 65.0 | 72.0 | 79.5 | 83.0 | 90.5 | 98.0 | 112.3 | 127.3 |
| 1.36 | 26.2 | 29.8 | 32.8 | 34.8 | 37.3 | 40.8 | 44.8 | 48.3 | 52.3 | 56.3 | 64.3 | 71.3 | 78.8 | 82.3 | 89.8 | 97.3 | 111.5 | 126.5 |
| | 22.1 | 25.7 | 28.7 | 30.7 | 33.2 | 36.7 | 40.7 | 44.2 | 48.2 | 52.2 | 60.2 | 67.2 | 74.7 | 78.2 | 85.7 | 93.2 | 107.4 | 122.4 |
| 1.37 | 28.5 | 32.0 | 35.0 | 37.0 | 39.5 | 43.0 | 47.0 | 50.5 | 54.5 | 58.5 | 66.5 | 73.5 | 81.0 | 84.5 | 92.0 | 99.5 | 113.7 | 128.7 |
| | 25.5 | 29.0 | 32.0 | 34.0 | 36.5 | 40.0 | 44.0 | 47.5 | 51.5 | 55.5 | 63.5 | 70.5 | 78.0 | 81.5 | 89.0 | 96.5 | 110.7 | 125.7 |
| 1.39 | 26.9 | 30.4 | 33.4 | 35.4 | 37.9 | 41.4 | 45.4 | 48.9 | 52.9 | 56.9 | 64.9 | 71.9 | 79.4 | 82.9 | 90.4 | 97.9 | 112.1 | 127.1 |
| 1.40 | 24.2 | 27.7 | 30.7 | 32.7 | 35.2 | 38.7 | 42.7 | 46.2 | 50.2 | 54.2 | 62.2 | 69.2 | 76.7 | 80.2 | 87.7 | 95.2 | 109.5 | 124.5 |
| | 26.1 | 29.6 | 32.6 | 34.6 | 37.1 | 40.6 | 44.6 | 48.1 | 52.1 | 56.1 | 64.1 | 71.1 | 78.6 | 82.1 | 89.6 | 97.1 | 111.4 | 126.4 |
| | **0.92** | **0.95** | **0.97** | **0.98** | **0.99** | **1.01** | **1.03** | **1.05** | **1.07** | **1.08** | **1.11** | **1.14** | **1.16** | **1.17** | **1.19** | **1.21** | **1.24** | **1.27** |
| 1.40 | 28.0 | 31.5 | 34.5 | 36.5 | 39.0 | 42.5 | 46.5 | 50.0 | 54.0 | 58.0 | 66.0 | 73.0 | 80.5 | 84.0 | 91.5 | 99.0 | 113.2 | 128.2 |
| 1.41 | 23.4 | 26.9 | 29.9 | 31.9 | 34.4 | 37.9 | 41.9 | 45.4 | 49.4 | 53.4 | 61.4 | 68.4 | 75.9 | 79.4 | 86.9 | 94.4 | 108.7 | 123.7 |
| 1.42 | 18.3 | 21.8 | 24.8 | 26.8 | 29.4 | 32.9 | 36.9 | 40.4 | 44.4 | 48.4 | 56.4 | 63.4 | 70.9 | 74.4 | 81.9 | 89.4 | 103.6 | 118.6 |
| 1.43 | 28.3 | 31.8 | 34.8 | 36.8 | 39.3 | 42.8 | 46.8 | 50.3 | 54.3 | 58.3 | 66.3 | 73.3 | 80.8 | 84.3 | 91.8 | 99.3 | 113.6 | 128.6 |
| | 16.7 | 20.2 | 23.3 | 25.3 | 27.8 | 31.3 | 35.3 | 38.8 | 42.8 | 46.8 | 54.8 | 61.8 | 69.3 | 72.8 | 80.3 | 87.8 | 102.1 | 117.1 |
| 1.44 | 22.4 | 26.0 | 29.0 | 31.0 | 33.5 | 37.0 | 41.0 | 44.5 | 48.5 | 52.5 | 60.5 | 67.5 | 75.0 | 78.5 | 86.0 | 93.5 | 107.7 | 122.7 |
| 1.45 | 24.3 | 27.9 | 30.9 | 32.9 | 35.4 | 38.9 | 42.9 | 46.4 | 50.4 | 54.4 | 62.4 | 69.4 | 76.9 | 80.4 | 87.9 | 95.4 | 109.6 | 124.6 |
| 1.46 | 27.0 | 30.5 | 33.5 | 35.5 | 38.0 | 41.5 | 45.5 | 49.0 | 53.0 | 57.0 | 65.0 | 72.0 | 79.5 | 83.0 | 90.5 | 98.0 | 112.3 | 127.3 |
| | 20.4 | 23.9 | 26.9 | 28.9 | 31.4 | 34.9 | 38.9 | 42.4 | 46.4 | 50.4 | 58.4 | 65.4 | 72.9 | 76.4 | 83.9 | 91.4 | 105.7 | 120.7 |
| 1.48 | 28.1 | 31.6 | 34.6 | 36.6 | 39.1 | 42.6 | 46.6 | 50.1 | 54.1 | 58.1 | 66.1 | 73.1 | 80.6 | 84.1 | 91.6 | 99.1 | 113.4 | 128.4 |
| | 26.6 | 30.1 | 33.1 | 35.1 | 37.6 | 41.1 | 45.1 | 48.6 | 52.6 | 56.6 | 64.6 | 71.6 | 79.1 | 82.6 | 90.1 | 97.6 | 111.8 | 126.8 |
| 1.50 | 23.7 | 27.2 | 30.2 | 32.2 | 34.7 | 38.2 | 42.2 | 45.7 | 49.7 | 53.7 | 61.7 | 68.7 | 76.2 | 79.7 | 87.2 | 94.7 | 109.0 | 124.0 |
| 1.51 | 27.7 | 31.2 | 34.2 | 36.2 | 38.7 | 42.2 | 46.2 | 49.7 | 53.7 | 57.7 | 65.7 | 72.7 | 80.2 | 83.7 | 91.2 | 98.7 | 112.9 | 127.9 |
| 1.53 | 26.4 | 29.9 | 32.9 | 34.9 | 37.4 | 40.9 | 44.9 | 48.4 | 52.4 | 56.4 | 64.4 | 71.4 | 78.9 | 82.4 | 89.9 | 97.4 | 111.7 | 126.7 |
| | 22.7 | 26.3 | 29.3 | 31.3 | 33.8 | 37.3 | 41.3 | 44.8 | 48.8 | 52.8 | 60.8 | 67.8 | 75.3 | 78.8 | 86.3 | 93.8 | 108.0 | 123.0 |
| 1.55 | 26.7 | 30.2 | 33.2 | 35.2 | 37.7 | 41.2 | 45.2 | 48.7 | 52.7 | 56.7 | 64.7 | 71.7 | 79.2 | 82.7 | 90.2 | 97.7 | 112.0 | 127.0 |
| 1.56 | 27.5 | 31.0 | 34.0 | 36.0 | 38.5 | 42.0 | 46.0 | 49.5 | 53.5 | 57.5 | 65.5 | 72.5 | 80.0 | 83.5 | 91.0 | 98.5 | 112.8 | 127.8 |
| | 17.3 | 20.8 | 23.8 | 25.9 | 28.4 | 31.9 | 35.9 | 39.4 | 43.4 | 47.4 | 55.4 | 62.4 | 69.9 | 73.4 | 80.9 | 88.4 | 102.7 | 117.7 |
| | 25.4 | 28.9 | 31.9 | 34.0 | 36.5 | 40.0 | 44.0 | 47.5 | 51.5 | 55.5 | 63.5 | 70.5 | 78.0 | 81.5 | 89.0 | 96.5 | 110.7 | 125.7 |
| 1.57 | 26.2 | 29.7 | 32.7 | 34.7 | 37.2 | 40.7 | 44.7 | 48.2 | 52.2 | 56.2 | 64.3 | 71.3 | 78.8 | 82.3 | 89.8 | 97.3 | 111.5 | 126.5 |
| 1.59 | 27.8 | 31.3 | 34.3 | 36.3 | 38.8 | 42.3 | 46.3 | 49.8 | 53.8 | 57.8 | 65.8 | 72.8 | 80.3 | 83.8 | 91.3 | 98.8 | 113.1 | 128.1 |
| | 20.8 | 24.3 | 27.3 | 29.4 | 31.9 | 35.4 | 39.4 | 42.9 | 46.9 | 50.9 | 58.9 | 65.9 | 73.4 | 76.9 | 84.4 | 91.9 | 106.2 | 121.2 |
| 1.60 | 26.5 | 30.1 | 33.1 | 35.1 | 37.6 | 41.1 | 45.1 | 48.6 | 52.6 | 56.6 | 64.6 | 71.6 | 79.1 | 82.6 | 90.1 | 97.6 | 111.8 | 126.8 |
| 1.61 | 27.3 | 30.8 | 33.8 | 35.8 | 38.3 | 41.8 | 45.8 | 49.3 | 53.4 | 57.4 | 65.4 | 72.4 | 79.9 | 83.4 | 90.9 | 98.4 | 112.6 | 127.6 |
| | 24.0 | 27.5 | 30.5 | 32.5 | 35.0 | 38.5 | 42.5 | 46.0 | 50.0 | 54.0 | 62.0 | 69.0 | 76.5 | 80.0 | 87.6 | 95.1 | 109.3 | 124.3 |
| | **0.92** | **0.94** | **0.96** | **0.98** | **0.99** | **1.01** | **1.03** | **1.05** | **1.06** | **1.08** | **1.11** | **1.13** | **1.16** | **1.17** | **1.19** | **1.21** | **1.24** | **1.27** |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | B35 | B38 | B42 | B46 | B51 | B55 | B60 | B64 |
| | Driver | Driven | RPM | B | BX | RPM | B | BX | RPM | B | BX | BX35 | BX38 | BX42 | BX46 | BX51 | BX55 | BX60 | BX64 |
| **1.61** | 9.40 | 15.40 | 2168 | – | – | 1084 | 17.18 | 17.02 | 718 | 13.12 | 13.03 | – | – | – | – | – | – | – | 13.1 |
| **1.64** | 5.60 | 9.40 | 2137 | 11.46 | 15.17 | 1069 | 8.68 | 10.51 | 708 | 6.47 | 7.76 | – | 7.9 | 9.9 | 12.0 | 14.5 | 16.5 | 19.0 | 21.0 |
| | 3.40 | 5.80 | 2136 | 3.02 | 8.91 | 1068 | 2.75 | 5.79 | 708 | 2.20 | 4.28 | 11.1 | 12.6 | 14.6 | 16.6 | 19.1 | 21.1 | 23.6 | 25.6 |
| | 7.40 | 12.40 | 2129 | – | – | 1064 | 13.00 | 13.87 | 705 | 9.74 | 10.37 | – | – | – | – | 10.6 | 12.6 | 15.2 | 17.2 |
| **1.67** | 5.00 | 8.60 | 2094 | 9.53 | 13.80 | 1047 | 7.14 | 9.30 | 694 | 5.34 | 6.85 | 7.5 | 9.0 | 11.1 | 13.1 | 15.6 | 17.6 | 20.1 | 22.2 |
| | 3.80 | 6.60 | 2092 | 4.83 | 10.30 | 1046 | 3.89 | 6.71 | 693 | 3.01 | 4.94 | 10.1 | 11.7 | 13.7 | 15.7 | 18.2 | 20.2 | 22.7 | 24.7 |
| **1.68** | 9.40 | 16.00 | 2088 | – | – | 1044 | 17.20 | 17.04 | 692 | 13.13 | 13.04 | – | – | – | – | – | – | – | – |
| | 6.40 | 11.00 | 2083 | 13.59 | 16.62 | 1041 | 10.67 | 12.07 | 690 | 7.95 | 8.95 | – | – | – | 10.0 | 12.5 | 14.6 | 17.1 | 19.1 |
| **1.69** | 4.60 | 8.00 | 2077 | 8.09 | 12.74 | 1038 | 6.08 | 8.46 | 688 | 4.58 | 6.23 | 8.3 | 9.9 | 11.9 | 13.9 | 16.4 | 18.4 | 20.9 | 22.9 |
| | 3.40 | 6.00 | 2069 | 3.05 | 8.94 | 1035 | 2.76 | 5.81 | 686 | 2.21 | 4.28 | 10.9 | 12.5 | 14.5 | 16.5 | 19.0 | 21.0 | 23.5 | 25.5 |
| | 5.40 | 9.40 | 2066 | 10.87 | 14.76 | 1033 | 8.18 | 10.13 | 685 | 6.10 | 7.46 | – | 8.0 | 10.1 | 12.1 | 14.6 | 16.7 | 19.2 | 21.2 |
| **1.70** | 4.20 | 7.40 | 2057 | 6.53 | 11.58 | 1028 | 5.00 | 7.60 | 682 | 3.80 | 5.59 | 9.2 | 10.7 | 12.7 | 14.7 | 17.2 | 19.2 | 21.7 | 23.7 |
| **1.72** | 3.80 | 6.80 | 2034 | 4.85 | 10.32 | 1017 | 3.90 | 6.72 | 674 | 3.01 | 4.95 | 10.0 | 11.5 | 13.5 | 15.5 | 18.0 | 20.0 | 22.5 | 24.5 |
| **1.74** | 3.40 | 6.20 | 2006 | 3.07 | 8.96 | 1003 | 2.78 | 5.82 | 665 | 2.22 | 4.29 | 10.8 | 12.3 | 14.3 | 16.3 | 18.8 | 20.8 | 23.3 | 25.3 |
| **1.76** | 5.20 | 9.40 | 1994 | 10.25 | 14.32 | 997 | 7.68 | 9.73 | 661 | 5.73 | 7.17 | – | 8.2 | 10.2 | 12.3 | 14.8 | 16.8 | 19.3 | 21.3 |
| | 8.60 | 15.40 | 1990 | – | – | 995 | 15.62 | 15.86 | 659 | 11.82 | 12.02 | – | – | – | – | – | – | – | 13.6 |
| **1.77** | 3.80 | 7.00 | 1978 | 4.87 | 10.34 | 989 | 3.91 | 6.73 | 656 | 3.02 | 4.95 | 9.8 | 11.3 | 13.3 | 15.3 | 17.9 | 19.9 | 22.4 | 24.4 |
| **1.78** | 4.00 | 7.40 | 1966 | 5.73 | 10.99 | 983 | 4.47 | 7.18 | 652 | 3.42 | 5.28 | 9.3 | 10.8 | 12.8 | 14.9 | 17.4 | 19.4 | 21.9 | 23.9 |
| | 6.80 | 12.40 | 1964 | 14.47 | 17.19 | 982 | 11.64 | 12.83 | 651 | 8.69 | 9.54 | – | – | – | – | 11.0 | 13.0 | 15.6 | 17.6 |
| **1.79** | 6.00 | 11.00 | 1960 | 12.65 | 16.01 | 980 | 9.71 | 11.33 | 649 | 7.23 | 8.38 | – | – | – | 10.3 | 12.8 | 14.8 | 17.4 | 19.4 |
| **1.80** | 3.40 | 6.40 | 1947 | 3.09 | 8.98 | 973 | 2.79 | 5.83 | 645 | 2.22 | 4.30 | 10.6 | 12.1 | 14.1 | 16.1 | 18.6 | 20.7 | 23.2 | 25.2 |
| | 7.40 | 13.60 | 1946 | – | – | 973 | 13.03 | 13.90 | 645 | 9.76 | 10.39 | – | – | – | – | – | 11.5 | 14.1 | 16.1 |
| **1.81** | 4.60 | 8.60 | 1937 | 8.13 | 12.79 | 969 | 6.10 | 8.49 | 642 | 4.59 | 6.24 | 7.8 | 9.3 | 11.4 | 13.4 | 15.9 | 17.9 | 20.4 | 22.4 |
| **1.83** | 8.60 | 16.00 | 1917 | – | – | 958 | 15.63 | 15.87 | 635 | 11.83 | 12.03 | – | – | – | – | – | – | – | 13.1 |
| | 4.20 | 8.00 | 1909 | 6.57 | 11.63 | 955 | 5.02 | 7.63 | 633 | 3.82 | 5.61 | 8.6 | 10.1 | 12.2 | 14.2 | 16.7 | 18.7 | 21.2 | 23.2 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.74** | **0.76** | **0.79** | **0.81** | **0.84** | **0.86** | **0.88** | **0.90** |
| **1.85** | 3.40 | 6.60 | 1891 | 3.11 | 9.00 | 945 | 2.79 | 5.84 | 627 | 2.23 | 4.30 | 10.4 | 11.9 | 14.0 | 16.0 | 18.5 | 20.5 | 23.0 | 25.0 |
| **1.87** | 3.80 | 7.40 | 1876 | 4.90 | 10.37 | 938 | 3.92 | 6.75 | 622 | 3.03 | 4.96 | 9.4 | 11.0 | 13.0 | 15.0 | 17.5 | 19.5 | 22.0 | 24.0 |
| **1.89** | 6.40 | 12.40 | 1854 | 13.67 | 16.69 | 927 | 10.70 | 12.11 | 615 | 7.98 | 8.98 | – | – | – | – | 11.2 | 13.3 | 15.9 | 17.9 |
| **1.90** | 3.40 | 6.80 | 1838 | 3.12 | 9.01 | 919 | 2.80 | 5.84 | 609 | 2.23 | 4.31 | 10.3 | 11.8 | 13.8 | 15.8 | 18.3 | 20.3 | 22.8 | 24.8 |
| **1.91** | 5.60 | 11.00 | 1836 | 11.56 | 15.26 | 918 | 8.72 | 10.56 | 609 | 6.50 | 7.79 | – | – | 8.4 | 10.5 | 13.1 | 15.1 | 17.7 | 19.7 |
| **1.92** | 4.00 | 8.00 | 1825 | 5.77 | 11.03 | 913 | 4.48 | 7.20 | 605 | 3.43 | 5.29 | 8.8 | 10.3 | 12.3 | 14.3 | 16.9 | 18.9 | 21.4 | 23.4 |
| | 9.40 | 18.40 | 1821 | – | – | 910 | 17.24 | 17.08 | 603 | 13.16 | 13.07 | – | – | – | – | – | – | – | – |
| **1.95** | 6.80 | 13.60 | 1795 | 14.52 | 17.23 | 898 | 11.67 | 12.85 | 595 | 8.71 | 9.56 | – | – | – | – | – | 11.9 | 14.5 | 16.5 |
| **1.96** | 3.40 | 7.00 | 1788 | 3.13 | 9.02 | 894 | 2.81 | 5.85 | 593 | 2.24 | 4.31 | 10.1 | 11.6 | 13.6 | 15.6 | 18.1 | 20.2 | 22.7 | 24.7 |
| | 4.20 | 8.60 | 1781 | 6.61 | 11.66 | 891 | 5.04 | 7.64 | 590 | 3.83 | 5.62 | 8.1 | 9.6 | 11.6 | 13.7 | 16.2 | 18.2 | 20.7 | 22.7 |
| **1.97** | 4.60 | 9.40 | 1779 | 8.18 | 12.83 | 889 | 6.12 | 8.51 | 590 | 4.61 | 6.25 | – | 8.6 | 10.6 | 12.7 | 15.2 | 17.2 | 19.8 | 21.8 |
| | 5.40 | 11.00 | 1775 | 10.96 | 14.85 | 887 | 8.22 | 10.17 | 588 | 6.13 | 7.49 | – | – | 8.6 | 10.7 | 13.2 | 15.3 | 17.8 | 19.8 |
| **2.01** | 6.00 | 12.40 | 1745 | 12.71 | 16.06 | 872 | 9.74 | 11.36 | 578 | 7.25 | 8.40 | – | – | – | – | 11.5 | 13.6 | 16.1 | 18.2 |
| | 3.80 | 8.00 | 1742 | 4.93 | 10.40 | 871 | 3.94 | 6.76 | 577 | 3.04 | 4.97 | 8.9 | 10.4 | 12.5 | 14.5 | 17.0 | 19.0 | 21.5 | 23.5 |
| **2.03** | 7.40 | 15.40 | 1723 | – | – | 862 | 13.06 | 13.93 | 571 | 9.78 | 10.41 | – | – | – | – | – | – | 12.4 | 14.4 |
| **2.04** | 5.20 | 11.00 | 1713 | 10.32 | 14.40 | 857 | 7.71 | 9.77 | 568 | 5.76 | 7.19 | – | – | 8.7 | 10.8 | 13.4 | 15.4 | 17.9 | 20.0 |
| **2.06** | 4.00 | 8.60 | 1703 | 5.79 | 11.06 | 852 | 4.50 | 7.21 | 564 | 3.44 | 5.30 | 8.2 | 9.7 | 11.8 | 13.8 | 16.3 | 18.4 | 20.9 | 22.9 |
| **2.07** | 6.40 | 13.60 | 1695 | 13.70 | 16.73 | 847 | 10.72 | 12.13 | 562 | 7.99 | 8.99 | – | – | – | – | 10.1 | 12.2 | 14.8 | 16.8 |
| **2.09** | 8.60 | 18.40 | 1672 | – | – | 836 | 15.66 | 15.90 | 554 | 11.85 | 12.04 | – | – | – | – | – | – | – | – |
| **2.11** | 7.40 | 16.00 | 1660 | – | – | 830 | 13.07 | 13.93 | 550 | 9.78 | 10.42 | – | – | – | – | – | – | 11.7 | 13.9 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.72** | **0.75** | **0.77** | **0.80** | **0.83** | **0.85** | **0.88** | **0.89** |
| **2.11** | 3.60 | 8.00 | 1658 | 4.07 | 9.75 | 829 | 3.39 | 6.32 | 549 | 2.65 | 4.65 | 9.0 | 10.6 | 12.6 | 14.6 | 17.2 | 19.2 | 21.7 | 23.7 |
| **2.12** | 5.00 | 11.00 | 1651 | 9.65 | 13.92 | 826 | 7.20 | 9.36 | 547 | 5.38 | 6.89 | – | – | 8.8 | 10.9 | 13.5 | 15.6 | 18.1 | 20.1 |
| **2.14** | 4.20 | 9.40 | 1635 | 6.64 | 11.69 | 818 | 5.05 | 7.66 | 542 | 3.84 | 5.63 | 7.3 | 8.8 | 10.9 | 13.0 | 15.5 | 17.5 | 20.1 | 22.1 |
| | 5.60 | 12.40 | 1635 | 11.60 | 15.31 | 817 | 8.75 | 10.58 | 542 | 6.52 | 7.81 | – | – | – | 9.1 | 11.8 | 13.9 | 16.4 | 18.5 |
| **2.19** | 6.00 | 13.60 | 1595 | 12.73 | 16.09 | 797 | 9.75 | 11.37 | 528 | 7.26 | 8.41 | – | – | – | – | 10.3 | 12.4 | 15.0 | 17.1 |
| **2.20** | 6.80 | 15.40 | 1590 | 14.56 | 17.28 | 795 | 11.69 | 12.87 | 527 | 8.72 | 9.57 | – | – | – | – | – | – | 12.7 | 14.9 |
| **2.22** | 5.40 | 12.40 | 1580 | 10.99 | 14.88 | 790 | 8.24 | 10.19 | 524 | 6.14 | 7.51 | – | – | – | 9.3 | 11.9 | 14.0 | 16.6 | 18.6 |
| | 3.40 | 8.00 | 1574 | 3.17 | 9.06 | 787 | 2.83 | 5.87 | 522 | 2.25 | 4.33 | 9.2 | 10.7 | 12.7 | 14.8 | 17.3 | 19.3 | 21.8 | 23.8 |
| **2.24** | 4.00 | 9.40 | 1564 | 5.82 | 11.08 | 782 | 4.51 | 7.23 | 518 | 3.45 | 5.31 | 7.4 | 9.0 | 11.1 | 13.1 | 15.6 | 17.7 | 20.2 | 22.2 |
| **2.27** | 8.60 | 20.00 | 1540 | – | – | 770 | 15.67 | 15.92 | 510 | 11.85 | 12.05 | – | – | – | – | – | – | – | – |
| **2.28** | 6.80 | 16.00 | 1532 | 14.57 | 17.28 | 766 | 11.69 | 12.88 | 508 | 8.72 | 9.57 | – | – | – | – | – | – | 12.1 | 14.3 |
| **2.29** | 4.60 | 11.00 | 1528 | 8.22 | 12.88 | 764 | 6.15 | 8.53 | 506 | 4.62 | 6.27 | – | – | 9.1 | 11.2 | 13.8 | 15.8 | 18.4 | 20.4 |
| | 5.20 | 12.40 | 1525 | 10.35 | 14.43 | 763 | 7.73 | 9.79 | 505 | 5.77 | 7.20 | – | – | – | 9.4 | 12.0 | 14.1 | 16.7 | 18.7 |
| **2.33** | 6.40 | 15.40 | 1501 | 13.74 | 16.76 | 751 | 10.74 | 12.14 | 498 | 8.00 | 9.00 | – | – | – | – | – | – | 13.0 | 15.1 |
| **2.34** | 5.60 | 13.60 | 1494 | 11.62 | 15.33 | 747 | 8.76 | 10.60 | 495 | 6.52 | 7.81 | – | – | – | – | 10.6 | 12.7 | 15.3 | 17.4 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.71** | **0.73** | **0.75** | **0.76** | **0.80** | **0.82** | **0.85** | **0.87** |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC | BX | CLASSIC COG |
|---|---|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B68 | B75 | B81 | B85 | B90 | B97 | B105 | B112 | B120 | B128 | B144 | B158 | B173 | B180 | B195 | B210 | B240 | B270 |
| | BX68 | BX75 | BX81 | BX85 | BX90 | BX97 | BX105 | BX112 | BX120 | BX128 | BX144 | BX158 | BX173 | BX180 | BX195 | BX210 | BX240 | BX270 |
| **1.61** | 15.1 | 18.7 | 21.7 | 23.7 | 26.3 | 29.8 | 33.8 | 37.3 | 41.3 | 45.3 | 53.3 | 60.4 | 67.9 | 71.4 | 78.9 | 86.4 | 100.6 | 115.6 |
| | 23.0 | 26.6 | 29.6 | 31.6 | 34.1 | 37.6 | 41.6 | 45.1 | 49.1 | 53.1 | 61.1 | 68.1 | 75.6 | 79.1 | 86.6 | 94.1 | 108.4 | 123.4 |
| **1.64** | 27.7 | 31.2 | 34.2 | 36.2 | 38.7 | 42.2 | 46.2 | 49.7 | 53.7 | 57.7 | 65.7 | 72.7 | 80.2 | 83.7 | 91.2 | 98.7 | 112.9 | 127.9 |
| | 19.2 | 22.7 | 25.7 | 27.7 | 30.3 | 33.8 | 37.8 | 41.3 | 45.3 | 49.3 | 57.3 | 64.3 | 71.8 | 75.3 | 82.8 | 90.3 | 104.6 | 119.6 |
| **1.67** | 24.2 | 27.7 | 30.7 | 32.7 | 35.2 | 38.7 | 42.7 | 46.2 | 50.2 | 54.2 | 62.2 | 69.2 | 76.7 | 80.2 | 87.7 | 95.2 | 109.5 | 124.5 |
| | 26.7 | 30.2 | 33.2 | 35.2 | 37.7 | 41.2 | 45.2 | 48.7 | 52.7 | 56.7 | 64.7 | 71.7 | 79.2 | 82.7 | 90.2 | 97.7 | 112.0 | 127.0 |
| **1.68** | 14.6 | 18.2 | 21.2 | 23.2 | 25.7 | 29.3 | 33.3 | 36.8 | 40.8 | 44.8 | 52.9 | 59.9 | 67.4 | 70.9 | 78.4 | 85.9 | 100.2 | 115.2 |
| | 21.1 | 24.6 | 27.6 | 29.7 | 32.2 | 35.7 | 39.7 | 43.2 | 47.2 | 51.2 | 59.2 | 66.2 | 73.7 | 77.2 | 84.7 | 92.2 | 106.5 | 121.5 |
| | 25.0 | 28.5 | 31.5 | 33.5 | 36.0 | 39.5 | 43.5 | 47.0 | 51.0 | 55.0 | 63.0 | 70.0 | 77.5 | 81.0 | 88.5 | 96.0 | 110.2 | 125.2 |
| **1.69** | 27.5 | 31.0 | 34.0 | 36.0 | 38.5 | 42.0 | 46.0 | 49.5 | 53.5 | 57.5 | 65.5 | 72.5 | 80.0 | 83.5 | 91.0 | 98.5 | 112.8 | 127.8 |
| | 23.2 | 26.7 | 29.7 | 31.7 | 34.2 | 37.7 | 41.7 | 45.2 | 49.2 | 53.2 | 61.2 | 68.3 | 75.8 | 79.3 | 86.8 | 94.3 | 108.5 | 123.5 |
| **1.70** | 25.7 | 29.3 | 32.3 | 34.3 | 36.8 | 40.3 | 44.3 | 47.8 | 51.8 | 55.8 | 63.8 | 70.8 | 78.3 | 81.8 | 89.3 | 96.8 | 111.0 | 126.0 |
| **1.72** | 26.5 | 30.0 | 33.0 | 35.0 | 37.5 | 41.1 | 45.1 | 48.6 | 52.6 | 56.6 | 64.6 | 71.6 | 79.1 | 82.6 | 90.1 | 97.6 | 111.8 | 126.8 |
| **1.74** | 27.3 | 30.8 | 33.8 | 35.8 | 38.3 | 41.8 | 45.8 | 49.3 | 53.3 | 57.3 | 65.3 | 72.4 | 79.9 | 83.4 | 90.9 | 98.4 | 112.6 | 127.6 |
| **1.76** | 23.3 | 26.9 | 29.9 | 31.9 | 34.4 | 37.9 | 41.9 | 45.4 | 49.4 | 53.4 | 61.4 | 68.4 | 75.9 | 79.4 | 86.9 | 94.4 | 108.7 | 123.7 |
| | 15.7 | 19.3 | 22.3 | 24.3 | 26.8 | 30.4 | 34.4 | 37.9 | 41.9 | 45.9 | 54.0 | 61.0 | 68.5 | 72.0 | 79.5 | 87.0 | 101.3 | 116.3 |
| **1.77** | 26.4 | 29.9 | 32.9 | 34.9 | 37.4 | 40.9 | 44.9 | 48.4 | 52.4 | 56.4 | 64.4 | 71.4 | 78.9 | 82.4 | 89.9 | 97.4 | 111.7 | 126.7 |
| **1.78** | 25.9 | 29.4 | 32.4 | 34.4 | 36.9 | 40.4 | 44.4 | 47.9 | 51.9 | 55.9 | 63.9 | 70.9 | 78.4 | 81.9 | 89.4 | 96.9 | 111.2 | 126.2 |
| | 19.6 | 23.2 | 26.2 | 28.2 | 30.7 | 34.2 | 38.2 | 41.7 | 45.7 | 49.7 | 57.8 | 64.8 | 72.3 | 75.8 | 83.3 | 90.8 | 105.0 | 120.0 |
| **1.79** | 21.4 | 24.9 | 27.9 | 30.0 | 32.5 | 36.0 | 40.0 | 43.5 | 47.5 | 51.5 | 59.5 | 66.5 | 74.0 | 77.5 | 85.0 | 92.5 | 106.8 | 121.8 |
| **1.80** | 27.2 | 30.7 | 33.7 | 35.7 | 38.2 | 41.7 | 45.7 | 49.2 | 53.2 | 57.2 | 65.2 | 72.2 | 79.7 | 83.2 | 90.7 | 98.2 | 112.4 | 127.4 |
| | 18.2 | 21.7 | 24.7 | 26.7 | 29.3 | 32.8 | 36.8 | 40.3 | 44.3 | 48.3 | 56.3 | 63.3 | 70.8 | 74.4 | 81.9 | 89.4 | 103.6 | 118.6 |
| **1.81** | 24.5 | 28.0 | 31.0 | 33.0 | 35.5 | 39.0 | 43.0 | 46.5 | 50.5 | 54.5 | 62.5 | 69.5 | 77.0 | 80.5 | 88.0 | 95.5 | 109.8 | 124.8 |
| **1.83** | 15.1 | 18.7 | 21.8 | 23.8 | 26.3 | 29.9 | 33.9 | 37.4 | 41.4 | 45.4 | 53.5 | 60.5 | 68.0 | 71.5 | 79.0 | 86.5 | 100.8 | 115.8 |
| | 25.3 | 28.8 | 31.8 | 33.8 | 36.3 | 39.8 | 43.8 | 47.3 | 51.3 | 55.3 | 63.3 | 70.3 | 77.8 | 81.3 | 88.8 | 96.3 | 110.6 | 125.6 |
| | **0.92** | **0.94** | **0.96** | **0.98** | **0.99** | **1.01** | **1.03** | **1.05** | **1.06** | **1.08** | **1.11** | **1.13** | **1.16** | **1.17** | **1.19** | **1.21** | **1.24** | **1.27** |
| **1.85** | 27.0 | 30.5 | 33.5 | 35.5 | 38.0 | 41.5 | 45.5 | 49.0 | 53.0 | 57.0 | 65.0 | 72.0 | 79.5 | 83.0 | 90.5 | 98.0 | 112.3 | 127.3 |
| **1.87** | 26.0 | 29.6 | 32.6 | 34.6 | 37.1 | 40.6 | 44.6 | 48.1 | 52.1 | 56.1 | 64.1 | 71.1 | 78.6 | 82.1 | 89.6 | 97.1 | 111.3 | 126.3 |
| **1.89** | 19.9 | 23.5 | 26.5 | 28.5 | 31.0 | 34.5 | 38.5 | 42.0 | 46.0 | 50.1 | 58.1 | 65.1 | 72.6 | 76.1 | 83.6 | 91.1 | 105.3 | 120.4 |
| **1.90** | 26.8 | 30.3 | 33.3 | 35.4 | 37.9 | 41.4 | 45.4 | 48.9 | 52.9 | 56.9 | 64.9 | 71.9 | 79.4 | 82.9 | 90.4 | 97.9 | 112.1 | 127.1 |
| **1.91** | 21.7 | 25.2 | 28.2 | 30.2 | 32.8 | 36.3 | 40.3 | 43.8 | 47.8 | 51.8 | 59.8 | 66.8 | 74.3 | 77.8 | 85.3 | 92.8 | 107.1 | 122.1 |
| **1.92** | 25.4 | 28.9 | 31.9 | 33.9 | 36.4 | 39.9 | 43.9 | 47.4 | 51.4 | 55.4 | 63.4 | 70.5 | 78.0 | 81.5 | 89.0 | 96.5 | 110.7 | 125.7 |
| | --- | 15.9 | 19.0 | 21.1 | 23.6 | 27.2 | 31.3 | 34.8 | 38.8 | 42.8 | 50.9 | 57.9 | 65.4 | 68.9 | 76.4 | 84.0 | 98.2 | 113.2 |
| **1.95** | 18.6 | 22.1 | 25.2 | 27.2 | 29.7 | 33.2 | 37.2 | 40.7 | 44.8 | 48.8 | 56.8 | 63.8 | 71.3 | 74.8 | 82.3 | 89.8 | 104.1 | 119.1 |
| **1.96** | 26.7 | 30.2 | 33.2 | 35.2 | 37.7 | 41.2 | 45.2 | 48.7 | 52.7 | 56.7 | 64.7 | 71.7 | 79.2 | 82.7 | 90.2 | 97.7 | 112.0 | 127.0 |
| | 24.8 | 28.3 | 31.3 | 33.3 | 35.8 | 39.3 | 43.3 | 46.8 | 50.8 | 54.8 | 62.8 | 69.8 | 77.3 | 80.8 | 88.3 | 95.8 | 110.1 | 125.1 |
| **1.97** | 23.8 | 27.3 | 30.3 | 32.3 | 34.8 | 38.3 | 42.3 | 45.8 | 49.9 | 53.9 | 61.9 | 68.9 | 76.4 | 79.9 | 87.4 | 94.9 | 109.1 | 124.1 |
| | 21.8 | 25.4 | 28.4 | 30.4 | 32.9 | 36.4 | 40.4 | 43.9 | 47.9 | 52.0 | 60.0 | 67.0 | 74.5 | 78.0 | 85.5 | 93.0 | 107.2 | 122.2 |
| **2.01** | 20.2 | 23.7 | 26.8 | 28.8 | 31.3 | 34.8 | 38.8 | 42.3 | 46.3 | 50.4 | 58.4 | 65.4 | 72.9 | 76.4 | 83.9 | 91.4 | 105.7 | 120.7 |
| | 25.6 | 29.1 | 32.1 | 34.1 | 36.6 | 40.1 | 44.1 | 47.6 | 51.6 | 55.6 | 63.6 | 70.6 | 78.1 | 81.6 | 89.1 | 96.6 | 110.9 | 125.9 |
| **2.03** | 16.5 | 20.1 | 23.2 | 25.2 | 27.7 | 31.2 | 35.3 | 38.8 | 42.8 | 46.8 | 54.9 | 61.9 | 69.4 | 72.9 | 80.4 | 87.9 | 102.2 | 117.2 |
| **2.04** | 22.0 | 25.5 | 28.5 | 30.5 | 33.1 | 36.6 | 40.6 | 44.1 | 48.1 | 52.1 | 60.1 | 67.1 | 74.6 | 78.1 | 85.6 | 93.1 | 107.4 | 122.4 |
| **2.06** | 24.9 | 28.4 | 31.4 | 33.4 | 35.9 | 39.4 | 43.4 | 47.0 | 51.0 | 55.0 | 63.0 | 70.0 | 77.5 | 81.0 | 88.5 | 96.0 | 110.2 | 125.2 |
| **2.07** | 18.9 | 22.4 | 25.4 | 27.5 | 30.0 | 33.5 | 37.5 | 41.0 | 45.1 | 49.1 | 57.1 | 64.1 | 71.6 | 75.1 | 82.6 | 90.1 | 104.4 | 119.4 |
| **2.09** | --- | 16.5 | 19.6 | 21.7 | 24.2 | 27.8 | 31.8 | 35.4 | 39.4 | 43.4 | 51.5 | 58.5 | 66.0 | 69.5 | 77.0 | 84.6 | 98.8 | 113.8 |
| **2.11** | 16.0 | 19.6 | 22.6 | 24.7 | 27.2 | 30.7 | 34.8 | 38.3 | 42.3 | 46.3 | 54.4 | 61.4 | 68.9 | 72.4 | 79.9 | 87.4 | 101.7 | 116.7 |
| | **0.91** | **0.94** | **0.96** | **0.97** | **0.98** | **1.00** | **1.02** | **1.04** | **1.06** | **1.08** | **1.11** | **1.13** | **1.15** | **1.17** | **1.19** | **1.21** | **1.24** | **1.27** |
| **2.11** | 25.7 | 29.2 | 32.2 | 34.2 | 36.7 | 40.2 | 44.2 | 47.7 | 51.7 | 55.8 | 63.8 | 70.8 | 78.3 | 81.8 | 89.3 | 96.8 | 111.0 | 126.0 |
| **2.12** | 22.1 | 25.7 | 28.7 | 30.7 | 33.2 | 36.7 | 40.7 | 44.2 | 48.2 | 52.3 | 60.3 | 67.3 | 74.8 | 78.3 | 85.8 | 93.3 | 107.5 | 122.6 |
| **2.14** | 24.1 | 27.6 | 30.6 | 32.6 | 35.1 | 38.6 | 42.6 | 46.2 | 50.2 | 54.2 | 62.2 | 69.2 | 76.7 | 80.2 | 87.7 | 95.2 | 109.4 | 124.4 |
| | 20.5 | 24.0 | 27.1 | 29.1 | 31.6 | 35.1 | 39.1 | 42.6 | 46.6 | 50.7 | 58.7 | 65.7 | 73.2 | 76.7 | 84.2 | 91.7 | 106.0 | 121.0 |
| **2.19** | 19.1 | 22.7 | 25.7 | 27.8 | 30.3 | 33.8 | 37.8 | 41.3 | 45.4 | 49.4 | 57.4 | 64.4 | 71.9 | 75.4 | 82.9 | 90.4 | 104.7 | 119.7 |
| **2.20** | 16.9 | 20.5 | 23.6 | 25.6 | 28.1 | 31.7 | 35.7 | 39.2 | 43.3 | 47.3 | 55.3 | 62.3 | 69.8 | 73.3 | 80.9 | 88.4 | 102.6 | 117.6 |
| **2.22** | 20.6 | 24.2 | 27.2 | 29.2 | 31.7 | 35.3 | 39.3 | 42.8 | 46.8 | 50.8 | 58.8 | 65.8 | 73.3 | 76.8 | 84.4 | 91.9 | 106.1 | 121.1 |
| | 25.8 | 29.4 | 32.4 | 34.4 | 36.9 | 40.4 | 44.4 | 47.9 | 51.9 | 55.9 | 63.9 | 70.9 | 78.4 | 81.9 | 89.4 | 96.9 | 111.2 | 126.2 |
| **2.24** | 24.2 | 27.7 | 30.8 | 32.8 | 35.3 | 38.8 | 42.8 | 46.3 | 50.3 | 54.3 | 62.3 | 69.3 | 76.8 | 80.3 | 87.8 | 95.3 | 109.6 | 124.6 |
| **2.27** | --- | 14.9 | 18.0 | 20.1 | 22.7 | 26.3 | 30.4 | 34.0 | 38.0 | 42.1 | 50.1 | 57.2 | 64.7 | 68.2 | 75.7 | 83.3 | 97.5 | 112.6 |
| **2.28** | 16.4 | 20.0 | 23.0 | 25.1 | 27.6 | 31.2 | 35.2 | 38.7 | 42.8 | 46.8 | 54.8 | 61.8 | 69.3 | 72.9 | 80.4 | 87.9 | 102.1 | 117.2 |
| **2.29** | 22.4 | 26.0 | 29.0 | 31.0 | 33.5 | 37.0 | 41.0 | 44.5 | 48.5 | 52.6 | 60.6 | 67.6 | 75.1 | 78.6 | 86.1 | 93.6 | 107.9 | 122.9 |
| | 20.8 | 24.3 | 27.3 | 29.4 | 31.9 | 35.4 | 39.4 | 42.9 | 46.9 | 51.0 | 59.0 | 66.0 | 73.5 | 77.0 | 84.5 | 92.0 | 106.3 | 121.3 |
| **2.33** | 17.2 | 20.8 | 23.9 | 25.9 | 28.4 | 32.0 | 36.0 | 39.5 | 43.6 | 47.6 | 55.6 | 62.6 | 70.1 | 73.6 | 81.2 | 88.7 | 102.9 | 118.0 |
| **2.34** | 19.4 | 23.0 | 26.0 | 28.0 | 30.6 | 34.1 | 38.1 | 41.6 | 45.7 | 49.7 | 57.7 | 64.7 | 72.2 | 75.7 | 83.2 | 90.7 | 105.0 | 120.0 |
| | **0.89** | **0.92** | **0.94** | **0.96** | **0.97** | **.99** | **1.01** | **1.03** | **1.05** | **1.07** | **1.10** | **1.12** | **1.15** | **1.16** | **1.18** | **1.20** | **1.23** | **1.26** |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | B35 | B38 | B42 | B46 | B51 | B55 | B60 | B64 |
| | Driver | Driven | RPM | B | BX | RPM | B | BX | RPM | B | BX | BX35 | BX38 | BX42 | BX46 | BX51 | BX55 | BX60 | BX64 |
| **2.35** | 3.80 | 9.40 | 1492 | 4.98 | 10.44 | 746 | 3.96 | 6.79 | 494 | 3.06 | 4.99 | 7.5 | 9.1 | 11.2 | 13.2 | 15.8 | 17.8 | 20.3 | 22.4 |
| **2.38** | 5.00 | 12.40 | 1470 | 9.68 | 13.95 | 735 | 7.21 | 9.38 | 487 | 5.39 | 6.90 | – | – | – | 9.5 | 12.2 | 14.3 | 16.8 | 18.9 |
| | 3.40 | 8.60 | 1469 | 3.19 | 9.08 | 734 | 2.84 | 5.88 | 487 | 2.26 | 4.33 | 8.6 | 10.1 | 12.2 | 14.2 | 16.8 | 18.8 | 21.3 | 23.3 |
| **2.42** | 7.40 | 18.40 | 1448 | – | – | 724 | 13.08 | 13.95 | 480 | 9.79 | 10.43 | – | – | – | – | – | – | – | – |
| | 5.40 | 13.60 | 1444 | 11.01 | 14.90 | 722 | 8.25 | 10.20 | 479 | 6.15 | 7.51 | – | – | – | – | 10.7 | 12.8 | 15.4 | 17.5 |
| **2.46** | 3.60 | 9.40 | 1420 | 4.10 | 9.78 | 710 | 3.41 | 6.34 | 471 | 2.66 | 4.66 | 7.6 | 9.2 | 11.3 | 13.4 | 15.9 | 18.0 | 20.5 | 22.5 |
| **2.48** | 6.00 | 15.40 | 1412 | 12.76 | 16.12 | 706 | 9.77 | 11.39 | 468 | 7.27 | 8.41 | – | – | – | – | – | – | 13.3 | 15.4 |
| **2.49** | 4.20 | 11.00 | 1405 | 6.67 | 11.73 | 702 | 5.07 | 7.68 | 466 | 3.85 | 5.64 | – | – | 9.3 | 11.5 | 14.1 | 16.1 | 18.7 | 20.7 |
| **2.51** | 5.20 | 13.60 | 1394 | 10.37 | 14.45 | 697 | 7.74 | 9.79 | 462 | 5.78 | 7.21 | – | – | – | – | 10.8 | 13.0 | 15.6 | 17.6 |
| **2.57** | 6.00 | 16.00 | 1361 | 12.77 | 16.13 | 680 | 9.77 | 11.39 | 451 | 7.27 | 8.42 | – | – | – | – | – | – | 12.6 | 14.8 |
| | 4.60 | 12.40 | 1361 | 8.25 | 12.90 | 680 | 6.16 | 8.54 | 451 | 4.63 | 6.28 | – | – | – | 9.8 | 12.4 | 14.5 | 17.1 | 19.2 |
| **2.60** | 3.40 | 9.40 | 1348 | 3.21 | 9.10 | 674 | 2.84 | 5.88 | 447 | 2.26 | 4.34 | 7.8 | 9.4 | 11.5 | 13.5 | 16.1 | 18.1 | 20.6 | 22.7 |
| | 9.40 | 25.00 | 1347 | – | – | 674 | 17.28 | 17.12 | 446 | 13.19 | 13.10 | – | – | – | – | – | – | – | – |
| **2.61** | 4.00 | 11.00 | 1343 | 5.85 | 11.11 | 672 | 4.53 | 7.24 | 445 | 3.46 | 5.32 | – | – | 9.5 | 11.6 | 14.2 | 16.2 | 18.8 | 20.8 |
| **2.62** | 6.80 | 18.40 | 1336 | 14.59 | 17.31 | 668 | 11.70 | 12.89 | 443 | 8.73 | 9.58 | – | – | – | – | – | – | – | – |
| | 7.40 | 20.00 | 1334 | – | – | 667 | 13.09 | 13.96 | 442 | 9.80 | 10.43 | – | – | – | – | – | – | – | – |
| **2.64** | 5.60 | 15.40 | 1324 | 11.64 | 15.35 | 662 | 8.77 | 10.61 | 439 | 6.53 | 7.82 | – | – | – | – | – | 10.8 | 13.5 | 15.6 |
| **2.73** | 3.80 | 11.00 | 1282 | 5.00 | 10.47 | 641 | 3.97 | 6.80 | 425 | 3.06 | 5.00 | – | 7.4 | 9.6 | 11.7 | 14.3 | 16.4 | 18.9 | 21.0 |
| **2.74** | 5.40 | 15.40 | 1279 | 11.03 | 14.92 | 640 | 8.26 | 10.21 | 424 | 6.16 | 7.52 | – | – | – | – | – | 10.9 | 13.7 | 15.8 |
| **2.78** | 6.40 | 18.40 | 1261 | 13.76 | 16.79 | 631 | 10.75 | 12.16 | 418 | 8.01 | 9.01 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.71** | **0.73** | **0.75** | **0.76** | **0.80** | **0.82** | **0.85** | **0.87** |
| **2.80** | 4.20 | 12.40 | 1251 | 6.69 | 11.74 | 625 | 5.08 | 7.69 | 415 | 3.85 | 5.65 | – | – | – | 10.0 | 12.7 | 14.8 | 17.4 | 19.4 |
| **2.81** | 4.60 | 13.60 | 1244 | 8.26 | 12.91 | 622 | 6.16 | 8.55 | 412 | 4.63 | 6.28 | – | – | – | – | 11.2 | 13.4 | 16.0 | 18.1 |
| **2.83** | 5.20 | 15.40 | 1235 | 10.39 | 14.46 | 617 | 7.75 | 9.80 | 409 | 5.78 | 7.21 | – | – | – | – | – | 11.1 | 13.8 | 15.9 |
| **2.84** | 5.40 | 16.00 | 1232 | 11.04 | 14.93 | 616 | 8.26 | 10.21 | 408 | 6.16 | 7.52 | – | – | – | – | – | – | 13.0 | 15.2 |
| | 6.80 | 20.00 | 1231 | 14.60 | 17.32 | 615 | 11.71 | 12.90 | 408 | 8.73 | 9.59 | – | – | – | – | – | – | – | – |
| **2.87** | 3.60 | 11.00 | 1220 | 4.13 | 9.80 | 610 | 3.42 | 6.35 | 404 | 2.67 | 4.67 | – | 7.5 | 9.7 | 11.9 | 14.5 | 16.5 | 19.1 | 21.1 |
| **2.93** | 4.00 | 12.40 | 1196 | 5.86 | 11.12 | 598 | 4.53 | 7.25 | 396 | 3.46 | 5.33 | – | – | – | 10.2 | 12.8 | 14.9 | 17.5 | 19.6 |
| **2.94** | 5.00 | 15.40 | 1190 | 9.71 | 13.98 | 595 | 7.23 | 9.39 | 395 | 5.40 | 6.91 | – | – | – | – | – | 11.2 | 13.9 | 16.0 |
| **2.95** | 6.00 | 18.40 | 1187 | 12.78 | 16.14 | 593 | 9.78 | 11.40 | 393 | 7.28 | 8.42 | – | – | – | – | – | – | – | – |
| **3.01** | 6.40 | 20.00 | 1162 | 13.77 | 16.80 | 581 | 10.76 | 12.16 | 385 | 8.01 | 9.01 | – | – | – | – | – | – | – | – |
| **3.02** | 3.40 | 11.00 | 1158 | 3.22 | 9.11 | 579 | 2.85 | 5.89 | 384 | 2.27 | 4.34 | – | 7.7 | 9.9 | 12.0 | 14.6 | 16.7 | 19.2 | 21.3 |
| **3.05** | 5.00 | 16.00 | 1147 | 9.72 | 13.98 | 573 | 7.23 | 9.39 | 380 | 5.40 | 6.91 | – | – | – | – | – | – | 13.3 | 15.4 |
| **3.06** | 4.20 | 13.60 | 1143 | 6.70 | 11.75 | 572 | 5.09 | 7.69 | 379 | 3.86 | 5.65 | – | – | – | – | 11.5 | 13.6 | 16.2 | 18.3 |
| **3.07** | 3.80 | 12.40 | 1141 | 5.01 | 10.48 | 571 | 3.98 | 6.80 | 378 | 3.07 | 5.00 | – | – | – | 10.3 | 13.0 | 15.1 | 17.7 | 19.7 |
| **3.11** | 9.40 | 30.00 | 1125 | – | – | 563 | 17.29 | 17.13 | 373 | 13.19 | 13.11 | – | – | – | – | – | – | – | – |
| **3.15** | 5.60 | 18.40 | 1112 | 11.66 | 15.37 | 556 | 8.78 | 10.62 | 369 | 6.54 | 7.83 | – | – | – | – | – | – | – | 12.4 |
| **3.18** | 4.60 | 15.40 | 1102 | 8.27 | 12.92 | 551 | 6.17 | 8.56 | 365 | 4.64 | 6.29 | – | – | – | – | – | 11.4 | 14.2 | 16.3 |
| **3.20** | 6.00 | 20.00 | 1093 | 12.79 | 16.15 | 547 | 9.78 | 11.40 | 362 | 7.28 | 8.42 | – | – | – | – | – | – | – | – |
| | 4.00 | 13.60 | 1093 | 5.87 | 11.13 | 547 | 4.54 | 7.25 | 362 | 3.47 | 5.33 | – | – | – | – | 11.6 | 13.7 | 16.4 | 18.5 |
| **3.22** | 3.60 | 12.40 | 1086 | 4.14 | 9.82 | 543 | 3.42 | 6.35 | 360 | 2.67 | 4.67 | – | – | 8.2 | 10.4 | 13.1 | 15.2 | 17.8 | 19.9 |
| **3.26** | 5.40 | 18.40 | 1075 | 11.05 | 14.94 | 537 | 8.27 | 10.22 | 356 | 6.16 | 7.52 | – | – | – | – | – | – | – | 12.5 |
| **3.27** | 7.40 | 25.00 | 1071 | – | – | 535 | 13.10 | 13.97 | 355 | 9.80 | 10.44 | – | – | – | – | – | – | – | – |
| **3.30** | 4.60 | 16.00 | 1061 | 8.27 | 12.93 | 531 | 6.17 | 8.56 | 352 | 4.64 | 6.29 | – | – | – | – | – | 10.7 | 13.5 | 15.7 |
| **3.36** | 3.80 | 13.60 | 1043 | 5.02 | 10.49 | 521 | 3.98 | 6.81 | 346 | 3.07 | 5.00 | – | – | – | 8.9 | 11.7 | 13.9 | 16.5 | 18.6 |
| **3.37** | 5.20 | 18.40 | 1037 | 10.41 | 14.48 | 519 | 7.75 | 9.81 | 344 | 5.79 | 7.22 | – | – | – | – | – | – | – | 12.7 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | **0.70** | **0.72** | **0.74** | **0.77** | **0.80** | **0.83** | **0.86** |
| **3.39** | 3.40 | 12.40 | 1031 | 3.23 | 9.12 | 516 | 2.86 | 5.90 | 342 | 2.27 | 4.34 | – | – | 8.3 | 10.5 | 13.2 | 15.3 | 17.9 | 20.0 |
| **3.42** | 5.60 | 20.00 | 1025 | 11.67 | 15.38 | 512 | 8.78 | 10.62 | 340 | 6.54 | 7.83 | – | – | – | – | – | – | – | – |
| **3.46** | 4.20 | 15.40 | 1013 | 6.71 | 11.76 | 506 | 5.09 | 7.70 | 336 | 3.86 | 5.65 | – | – | – | – | – | 11.7 | 14.4 | 16.6 |
| **3.50** | 5.00 | 18.40 | 1000 | 9.73 | 13.99 | 500 | 7.23 | 9.40 | 331 | 5.41 | 6.91 | – | – | – | – | – | – | – | 12.8 |
| **3.53** | 3.60 | 13.60 | 993 | 4.14 | 9.82 | 496 | 3.42 | 6.36 | 329 | 2.67 | 4.68 | – | – | – | 9.0 | 11.8 | 14.0 | 16.6 | 18.7 |
| | 5.40 | 20.00 | 990 | 11.06 | 14.95 | 495 | 8.27 | 10.22 | 328 | 6.17 | 7.53 | – | – | – | – | – | – | – | – |
| **3.54** | 6.80 | 25.00 | 988 | 14.62 | 17.34 | 494 | 11.72 | 12.91 | 328 | 8.74 | 9.59 | – | – | – | – | – | – | – | – |
| **3.61** | 4.00 | 15.40 | 968 | 5.88 | 11.14 | 484 | 4.54 | 7.26 | 321 | 3.47 | 5.33 | – | – | – | – | – | 11.8 | 14.6 | 16.7 |
| **3.66** | 5.20 | 20.00 | 956 | 10.41 | 14.49 | 478 | 7.76 | 9.81 | 317 | 5.79 | 7.22 | – | – | – | – | – | – | – | – |
| **3.71** | 3.40 | 13.60 | 943 | 3.24 | 9.13 | 471 | 2.86 | 5.90 | 312 | 2.27 | 4.35 | – | – | – | 9.1 | 12.0 | 14.1 | 16.8 | 18.9 |
| **3.75** | 6.40 | 25.00 | 933 | 13.79 | 16.82 | 466 | 10.77 | 12.17 | 309 | 8.02 | 9.02 | – | – | – | – | – | – | – | – |
| | 4.00 | 16.00 | 933 | 5.88 | 11.14 | 466 | 4.54 | 7.26 | 309 | 3.47 | 5.33 | – | – | – | – | – | 11.1 | 13.9 | 16.1 |
| **3.78** | 4.60 | 18.40 | 925 | 8.28 | 12.93 | 463 | 6.18 | 8.56 | 307 | 4.64 | 6.29 | – | – | – | – | – | – | – | 13.0 |
| **3.79** | 3.80 | 15.40 | 924 | 5.03 | 10.50 | 462 | 3.99 | 6.81 | 306 | 3.07 | 5.01 | – | – | – | – | – | 11.9 | 14.7 | 16.8 |
| **3.80** | 5.00 | 20.00 | 921 | 9.73 | 14.00 | 461 | 7.24 | 9.40 | 305 | 5.41 | 6.91 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | **0.70** | **0.72** | **0.75** | **0.78** | **0.81** | **0.83** |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B68 | B75 | B81 | B85 | B90 | B97 | B105 | B112 | B120 | B128 | B144 | B158 | B173 | B180 | B195 | B210 | B240 | B270 |
| | BX68 | BX75 | BX81 | BX85 | BX90 | BX97 | BX105 | BX112 | BX120 | BX128 | BX144 | BX158 | BX173 | BX180 | BX195 | BX210 | BX240 | BX270 |
| **2.35** | 24.4 | 27.9 | 30.9 | 32.9 | 35.4 | 38.9 | 42.9 | 46.5 | 50.5 | 54.5 | 62.5 | 69.5 | 77.0 | 80.5 | 88.0 | 95.5 | 109.8 | 124.8 |
| **2.38** | 20.9 | 24.5 | 27.5 | 29.5 | 32.0 | 35.5 | 39.6 | 43.1 | 47.1 | 51.1 | 59.1 | 66.1 | 73.6 | 77.2 | 84.7 | 92.2 | 106.4 | 121.4 |
| | 25.3 | 28.9 | 31.9 | 33.9 | 36.4 | 39.9 | 43.9 | 47.4 | 51.4 | 55.4 | 63.4 | 70.4 | 77.9 | 81.4 | 88.9 | 96.4 | 110.7 | 125.7 |
| **2.42** | 13.5 | 17.3 | 20.4 | 22.5 | 25.0 | 28.6 | 32.7 | 36.2 | 40.3 | 44.3 | 52.4 | 59.4 | 66.9 | 70.4 | 78.0 | 85.5 | 99.7 | 114.8 |
| | 19.6 | 23.1 | 26.2 | 28.2 | 30.7 | 34.2 | 38.3 | 41.8 | 45.8 | 49.8 | 57.8 | 64.9 | 72.4 | 75.9 | 83.4 | 90.9 | 105.2 | 120.2 |
| **2.46** | 24.5 | 28.0 | 31.1 | 33.1 | 35.6 | 39.1 | 43.1 | 46.6 | 50.6 | 54.6 | 62.6 | 69.6 | 77.1 | 80.6 | 88.1 | 95.7 | 109.9 | 124.9 |
| **2.48** | 17.5 | 21.1 | 24.1 | 26.2 | 28.7 | 32.3 | 36.3 | 39.8 | 43.8 | 47.9 | 55.9 | 62.9 | 70.4 | 74.0 | 81.5 | 89.0 | 103.2 | 118.3 |
| **2.49** | 22.7 | 26.2 | 29.3 | 31.3 | 33.8 | 37.3 | 41.3 | 44.8 | 48.8 | 52.9 | 60.9 | 67.9 | 75.4 | 78.9 | 86.4 | 93.9 | 108.2 | 123.2 |
| **2.51** | 19.7 | 23.3 | 26.3 | 28.3 | 30.9 | 34.4 | 38.4 | 41.9 | 46.0 | 50.0 | 58.0 | 65.0 | 72.5 | 76.0 | 83.5 | 91.0 | 105.3 | 120.3 |
| **2.57** | 16.9 | 20.5 | 23.6 | 25.6 | 28.2 | 31.7 | 35.8 | 39.3 | 43.3 | 47.4 | 55.4 | 62.4 | 70.0 | 73.5 | 81.0 | 88.5 | 102.8 | 117.8 |
| | 21.2 | 24.7 | 27.8 | 29.8 | 32.3 | 35.8 | 39.9 | 43.4 | 47.4 | 51.4 | 59.4 | 66.4 | 74.0 | 77.5 | 85.0 | 92.5 | 106.7 | 121.7 |
| **2.60** | 24.7 | 28.2 | 31.2 | 33.2 | 35.7 | 39.2 | 43.2 | 46.8 | 50.8 | 54.8 | 62.8 | 69.8 | 77.3 | 80.8 | 88.3 | 95.8 | 110.1 | 125.1 |
| | – | – | – | – | – | 20.9 | 25.2 | 28.8 | 33.0 | 37.1 | 45.2 | 52.3 | 59.9 | 63.4 | 71.0 | 78.5 | 92.8 | 107.9 |
| **2.61** | 22.9 | 26.4 | 29.4 | 31.4 | 33.9 | 37.5 | 41.5 | 45.0 | 49.0 | 53.0 | 61.0 | 68.0 | 75.5 | 79.0 | 86.6 | 94.1 | 108.3 | 123.3 |
| **2.62** | 13.9 | 17.7 | 20.8 | 22.9 | 25.5 | 29.0 | 33.1 | 36.7 | 40.7 | 44.7 | 52.8 | 59.8 | 67.4 | 70.9 | 78.4 | 85.9 | 100.2 | 115.2 |
| | – | 15.6 | 18.8 | 20.9 | 23.5 | 27.2 | 31.3 | 34.8 | 38.9 | 42.9 | 51.0 | 58.0 | 65.6 | 69.1 | 76.6 | 84.2 | 98.4 | 113.5 |
| **2.64** | 17.7 | 21.4 | 24.4 | 26.5 | 29.0 | 32.5 | 36.6 | 40.1 | 44.1 | 48.2 | 56.2 | 63.2 | 70.7 | 74.3 | 81.8 | 89.3 | 103.5 | 118.6 |
| **2.73** | 23.0 | 26.5 | 29.6 | 31.6 | 34.1 | 37.6 | 41.6 | 45.1 | 49.2 | 53.2 | 61.2 | 68.2 | 75.7 | 79.2 | 86.7 | 94.2 | 108.5 | 123.5 |
| **2.74** | 17.9 | 21.5 | 24.6 | 26.6 | 29.1 | 32.7 | 36.7 | 40.3 | 44.3 | 48.3 | 56.4 | 63.4 | 70.9 | 74.4 | 81.9 | 89.4 | 103.7 | 118.7 |
| **2.78** | 14.2 | 17.9 | 21.1 | 23.2 | 25.7 | 29.3 | 33.4 | 36.9 | 41.0 | 45.0 | 53.1 | 60.1 | 67.7 | 71.2 | 78.7 | 86.2 | 100.5 | 115.5 |
| | **0.89** | **0.92** | **0.94** | **0.96** | **0.97** | **0.99** | **1.01** | **1.03** | **1.05** | **1.07** | **1.10** | **1.12** | **1.15** | **1.16** | **1.18** | **1.20** | **1.23** | **1.26** |
| **2.80** | 21.5 | 25.0 | 28.1 | 30.1 | 32.6 | 36.1 | 40.2 | 43.7 | 47.7 | 51.7 | 59.7 | 66.1 | 74.3 | 77.8 | 85.3 | 92.8 | 107.0 | 122.1 |
| **2.81** | 20.1 | 23.7 | 26.7 | 28.8 | 31.3 | 34.8 | 38.9 | 42.4 | 46.4 | 50.4 | 58.4 | 65.5 | 73.0 | 76.5 | 84.0 | 91.5 | 105.8 | 120.8 |
| **2.83** | 18.0 | 21.6 | 24.7 | 26.7 | 29.3 | 32.8 | 36.9 | 40.4 | 44.4 | 48.5 | 56.5 | 63.5 | 71.0 | 74.6 | 82.1 | 89.6 | 103.9 | 118.9 |
| **2.84** | 17.3 | 20.9 | 24.0 | 26.1 | 28.6 | 32.2 | 36.2 | 39.7 | 43.8 | 47.8 | 55.8 | 62.9 | 70.4 | 73.9 | 81.4 | 88.9 | 103.2 | 118.2 |
| | – | 16.0 | 19.2 | 21.3 | 24.0 | 27.6 | 31.7 | 35.2 | 39.3 | 43.4 | 51.4 | 58.5 | 66.0 | 69.5 | 77.1 | 84.6 | 98.9 | 113.9 |
| **2.87** | 23.1 | 26.7 | 29.7 | 31.7 | 34.2 | 37.8 | 41.8 | 45.3 | 49.3 | 53.3 | 61.3 | 68.3 | 75.8 | 79.4 | 86.9 | 94.4 | 108.6 | 123.6 |
| **2.93** | 21.6 | 25.2 | 28.2 | 30.2 | 32.8 | 36.3 | 40.3 | 43.8 | 47.8 | 51.9 | 59.9 | 66.9 | 74.4 | 77.9 | 85.4 | 92.9 | 107.2 | 122.2 |
| **2.94** | 18.1 | 21.8 | 24.8 | 26.9 | 29.4 | 33.0 | 37.0 | 40.6 | 44.6 | 48.6 | 56.6 | 63.7 | 71.2 | 74.7 | 82.2 | 89.7 | 104.0 | 119.0 |
| **2.95** | 14.4 | 18.2 | 21.3 | 23.4 | 26.0 | 29.6 | 33.7 | 37.2 | 41.3 | 45.3 | 53.4 | 60.4 | 68.0 | 71.5 | 79.0 | 86.5 | 100.8 | 115.8 |
| **3.01** | --- | 16.3 | 19.5 | 21.6 | 24.2 | 27.8 | 32.0 | 35.5 | 39.6 | 43.6 | 51.7 | 58.8 | 66.3 | 69.8 | 77.4 | 84.9 | 99.2 | 114.2 |
| **3.02** | 23.3 | 26.8 | 29.9 | 31.9 | 34.4 | 37.9 | 41.9 | 45.4 | 49.4 | 53.5 | 61.5 | 68.5 | 76.0 | 79.5 | 87.0 | 94.5 | 108.8 | 123.8 |
| **3.05** | 17.6 | 21.2 | 24.3 | 26.3 | 28.9 | 32.4 | 36.5 | 40.0 | 44.1 | 48.1 | 56.1 | 63.2 | 70.7 | 74.2 | 81.7 | 89.2 | 103.5 | 118.5 |
| **3.06** | 20.4 | 24.0 | 27.0 | 29.0 | 31.6 | 35.1 | 39.1 | 42.7 | 46.7 | 50.7 | 58.7 | 65.8 | 73.3 | 76.8 | 84.3 | 91.8 | 106.1 | 121.1 |
| **3.07** | 21.8 | 25.3 | 28.4 | 30.4 | 32.9 | 36.4 | 40.5 | 44.0 | 48.0 | 52.0 | 60.0 | 67.0 | 74.6 | 78.1 | 85.6 | 93.1 | 107.3 | 122.4 |
| **3.11** | – | – | – | – | – | – | 19.8 | 23.7 | 28.1 | 32.3 | 40.7 | 47.9 | 55.5 | 59.1 | 66.7 | 74.3 | 88.6 | 103.7 |
| **3.15** | 14.7 | 18.4 | 21.6 | 23.7 | 26.3 | 29.9 | 34.0 | 37.5 | 41.6 | 45.6 | 53.7 | 60.7 | 68.3 | 71.8 | 79.3 | 86.8 | 101.1 | 116.1 |
| **3.18** | 18.4 | 22.0 | 25.1 | 27.2 | 29.7 | 33.3 | 37.3 | 40.8 | 44.9 | 48.9 | 56.9 | 64.0 | 71.5 | 75.0 | 82.5 | 90.0 | 104.3 | 119.3 |
| **3.20** | – | 16.5 | 19.7 | 21.9 | 24.5 | 28.1 | 32.2 | 35.8 | 39.9 | 43.9 | 52.0 | 59.1 | 66.6 | 70.1 | 77.7 | 85.2 | 99.5 | 114.5 |
| | 20.5 | 24.1 | 27.2 | 29.2 | 31.7 | 35.3 | 39.3 | 42.8 | 46.8 | 50.9 | 58.9 | 65.9 | 73.4 | 76.9 | 84.4 | 92.0 | 106.2 | 121.2 |
| **3.22** | 21.9 | 25.5 | 28.5 | 30.5 | 33.0 | 36.6 | 40.6 | 44.1 | 48.1 | 52.2 | 60.2 | 67.2 | 74.7 | 78.2 | 85.7 | 93.2 | 107.5 | 122.5 |
| **3.26** | 14.8 | 18.6 | 21.7 | 23.8 | 26.4 | 30.0 | 34.1 | 37.7 | 41.7 | 45.8 | 53.8 | 60.9 | 68.4 | 71.9 | 79.5 | 87.0 | 101.3 | 116.3 |
| **3.27** | – | – | – | – | 18.4 | 22.2 | 26.5 | 30.2 | 34.3 | 38.5 | 46.6 | 53.7 | 61.3 | 64.9 | 72.4 | 80.0 | 94.3 | 109.4 |
| **3.30** | 17.8 | 21.5 | 24.6 | 26.6 | 29.2 | 32.7 | 36.8 | 40.3 | 44.4 | 48.4 | 56.4 | 63.5 | 71.0 | 74.5 | 82.0 | 89.5 | 103.8 | 118.8 |
| **3.36** | 20.7 | 24.2 | 27.3 | 29.3 | 31.9 | 35.4 | 39.4 | 43.0 | 47.0 | 51.0 | 59.0 | 66.1 | 73.6 | 77.1 | 84.6 | 92.1 | 106.4 | 121.4 |
| **3.37** | 14.9 | 18.7 | 21.9 | 24.0 | 26.6 | 30.2 | 34.2 | 37.8 | 41.9 | 45.9 | 54.0 | 61.0 | 68.6 | 72.1 | 79.6 | 87.1 | 101.4 | 116.4 |
| | **0.88** | **0.90** | **0.93** | **0.95** | **0.97** | **0.99** | **1.01** | **1.03** | **1.05** | **1.07** | **1.10** | **1.12** | **1.15** | **1.16** | **1.18** | **1.20** | **1.23** | **1.26** |
| **3.39** | 22.0 | 25.6 | 28.6 | 30.7 | 33.2 | 36.7 | 40.7 | 44.3 | 48.3 | 52.3 | 60.3 | 67.3 | 74.9 | 78.4 | 85.9 | 93.4 | 107.7 | 122.7 |
| **3.42** | – | 16.8 | 20.0 | 22.1 | 24.8 | 28.4 | 32.5 | 36.1 | 40.2 | 44.2 | 52.3 | 59.4 | 66.9 | 70.4 | 78.0 | 85.5 | 99.8 | 114.8 |
| **3.46** | 18.7 | 22.3 | 25.4 | 27.4 | 30.0 | 33.5 | 37.6 | 41.1 | 45.2 | 49.2 | 57.2 | 64.3 | 71.8 | 75.3 | 82.8 | 90.3 | 104.6 | 119.6 |
| **3.50** | 15.0 | 18.8 | 22.0 | 24.1 | 26.7 | 30.3 | 34.4 | 37.9 | 42.0 | 46.0 | 54.1 | 61.2 | 68.7 | 72.2 | 79.7 | 87.3 | 101.6 | 116.6 |
| **3.53** | 20.8 | 24.4 | 27.4 | 29.5 | 32.0 | 35.5 | 39.6 | 43.1 | 47.1 | 51.2 | 59.2 | 66.2 | 73.7 | 77.2 | 84.8 | 92.3 | 106.5 | 121.5 |
| | 12.9 | 16.9 | 20.1 | 22.3 | 24.9 | 28.5 | 32.6 | 36.2 | 40.3 | 44.4 | 52.5 | 59.5 | 67.1 | 70.6 | 78.1 | 85.6 | 99.9 | 115.0 |
| **3.54** | – | – | – | – | 18.7 | 22.6 | 26.9 | 30.6 | 34.7 | 38.9 | 47.1 | 54.2 | 61.8 | 65.3 | 72.9 | 80.4 | 94.8 | 109.8 |
| **3.61** | 18.8 | 22.4 | 25.5 | 27.6 | 30.1 | 33.7 | 37.7 | 41.3 | 45.3 | 49.3 | 57.4 | 64.4 | 71.9 | 75.5 | 83.0 | 90.5 | 104.8 | 119.8 |
| **3.66** | 13.0 | 17.0 | 20.3 | 22.4 | 25.0 | 28.7 | 32.8 | 36.4 | 40.4 | 44.5 | 52.6 | 59.7 | 67.2 | 70.7 | 78.3 | 85.8 | 100.1 | 115.1 |
| **3.71** | 20.9 | 24.5 | 27.6 | 29.6 | 32.2 | 35.7 | 39.7 | 43.3 | 47.3 | 51.3 | 59.3 | 66.4 | 73.9 | 77.4 | 84.9 | 92.4 | 106.7 | 121.7 |
| **3.75** | – | – | – | 16.1 | 19.0 | 22.9 | 27.2 | 30.8 | 35.0 | 39.1 | 47.3 | 54.5 | 62.1 | 65.6 | 73.2 | 80.7 | 95.0 | 110.1 |
| | 18.2 | 21.9 | 25.0 | 27.0 | 29.6 | 33.2 | 37.2 | 40.8 | 44.8 | 48.8 | 56.9 | 63.9 | 71.4 | 75.0 | 82.5 | 90.0 | 104.3 | 119.3 |
| **3.78** | 15.3 | 19.1 | 22.3 | 24.4 | 27.0 | 30.6 | 34.7 | 38.2 | 42.3 | 46.3 | 54.4 | 61.5 | 69.0 | 72.5 | 80.0 | 87.6 | 101.9 | 116.9 |
| **3.79** | 18.9 | 22.6 | 25.7 | 27.7 | 30.3 | 33.8 | 37.9 | 41.4 | 45.5 | 49.5 | 57.5 | 64.6 | 72.1 | 75.6 | 83.1 | 90.6 | 104.9 | 119.9 |
| **3.80** | 13.1 | 17.1 | 20.4 | 22.5 | 25.2 | 28.8 | 32.9 | 36.5 | 40.6 | 44.6 | 52.7 | 59.8 | 67.4 | 70.9 | 78.4 | 85.9 | 100.2 | 115.3 |
| | **0.85** | **0.88** | **0.92** | **0.93** | **0.95** | **0.97** | **0.99** | **1.00** | **1.02** | **1.04** | **1.08** | **1.10** | **1.13** | **1.14** | **1.16** | **1.18** | **1.22** | **1.25** |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 3500 RPM Driver | | | 1750 RPM Driver | | | 1160 RPM Driver | | | Belt Size/Center Distance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | B35 | B38 | B42 | B46 | B51 | B55 | B60 | B64 |
| | Driver | Driven | RPM | B | BX | RPM | B | BX | RPM | B | BX | BX35 | BX38 | BX42 | BX46 | BX51 | BX55 | BX60 | BX64 |
| **3.91** | 7.40 | 30.00 | 895 | – | – | 447 | 13.11 | 13.98 | 296 | 9.81 | 10.44 | – | – | – | – | – | – | – | – |
| **3.93** | 3.80 | 16.00 | 890 | 5.03 | 10.50 | 445 | 3.99 | 6.81 | 295 | 3.07 | 5.01 | – | – | – | – | – | 11.2 | 14.0 | 16.2 |
| **3.98** | 3.60 | 15.40 | 879 | 4.15 | 9.83 | 440 | 3.43 | 6.36 | 291 | 2.68 | 4.68 | – | – | – | – | 9.7 | 12.0 | 14.8 | 17.0 |
| **3.99** | 6.00 | 25.00 | 878 | 12.81 | 16.16 | 439 | 9.79 | 11.41 | 291 | 7.29 | 8.43 | – | – | – | – | – | – | – | – |
| **4.10** | 4.60 | 20.00 | 853 | 8.28 | 12.94 | 426 | 6.18 | 8.56 | 283 | 4.64 | 6.29 | – | – | – | – | – | – | – | – |
| **4.11** | 4.20 | 18.40 | 851 | 6.71 | 11.77 | 425 | 5.09 | 7.70 | 282 | 3.86 | 5.65 | – | – | – | – | – | – | – | 13.3 |
| **4.13** | 3.60 | 16.00 | 847 | 4.15 | 9.83 | 424 | 3.43 | 6.36 | 281 | 2.68 | 4.68 | – | – | – | – | – | 11.3 | 14.2 | 16.3 |
| **4.19** | 3.40 | 15.40 | 835 | 3.24 | 9.13 | 418 | 2.86 | 5.90 | 277 | 2.27 | 4.35 | – | – | – | – | 9.8 | 12.2 | 14.9 | 17.1 |
| **4.24** | 6.80 | 30.00 | 825 | 14.63 | 17.35 | 413 | 11.72 | 12.91 | 274 | 8.74 | 9.60 | – | – | – | – | – | – | – | – |
| **4.26** | 5.60 | 25.00 | 823 | 11.68 | 15.39 | 411 | 8.79 | 10.62 | 273 | 6.54 | 7.83 | – | – | – | – | – | – | – | – |
| **4.28** | 8.60 | 38.00 | 818 | – | – | 409 | 15.71 | 15.95 | 271 | 11.87 | 12.07 | – | – | – | – | – | – | – | – |
| **4.30** | 4.00 | 18.40 | 813 | 5.89 | 11.15 | 407 | 4.55 | 7.26 | 270 | 3.47 | 5.33 | – | – | – | – | – | – | – | 13.4 |
| **4.35** | 3.40 | 16.00 | 804 | 3.25 | 9.14 | 402 | 2.86 | 5.91 | 267 | 2.28 | 4.35 | – | – | – | – | – | 11.4 | 14.3 | 16.5 |
| **4.40** | 5.40 | 25.00 | 795 | 11.07 | 14.96 | 397 | 8.28 | 10.22 | 263 | 6.17 | 7.53 | – | – | – | – | – | – | – | – |
| **4.46** | 4.20 | 20.00 | 784 | 6.72 | 11.77 | 392 | 5.10 | 7.70 | 260 | 3.86 | 5.66 | – | – | – | – | – | – | – | – |
| **4.49** | 6.40 | 30.00 | 779 | 13.80 | 16.82 | 390 | 10.77 | 12.17 | 258 | 8.02 | 9.02 | – | – | – | – | – | – | – | – |
| **4.51** | 3.80 | 18.40 | 776 | 5.04 | 10.50 | 388 | 3.99 | 6.82 | 257 | 3.08 | 5.01 | – | – | – | – | – | – | – | 13.5 |
| **4.56** | 5.20 | 25.00 | 767 | 10.42 | 14.50 | 384 | 7.76 | 9.82 | 254 | 5.79 | 7.22 | – | – | – | – | – | – | – | – |
| **4.67** | 4.00 | 20.00 | 750 | 5.89 | 11.15 | 375 | 4.55 | 7.26 | 248 | 3.47 | 5.33 | – | – | – | – | – | – | – | – |
| **4.73** | 5.00 | 25.00 | 740 | 9.74 | 14.01 | 370 | 7.24 | 9.41 | 245 | 5.41 | 6.92 | – | – | – | – | – | – | – | – |
| **4.74** | 3.60 | 18.40 | 739 | 4.16 | 9.83 | 369 | 3.43 | 6.36 | 245 | 2.68 | 4.68 | – | – | – | – | – | – | 11.2 | 13.6 |
| **4.77** | 6.00 | 30.00 | 733 | 12.81 | 16.17 | 367 | 9.79 | 11.41 | 243 | 7.29 | 8.43 | – | – | – | – | – | – | – | – |
| **4.89** | 3.80 | 20.00 | 715 | 5.04 | 10.51 | 358 | 3.99 | 6.82 | 237 | 3.08 | 5.01 | – | – | – | – | – | – | – | – |
| **4.94** | 7.40 | 38.00 | 708 | – | – | 354 | 13.11 | 13.98 | 235 | 9.81 | 10.45 | – | – | – | – | – | – | – | – |
| **4.99** | 3.40 | 18.40 | 701 | 3.25 | 9.14 | 351 | 2.87 | 5.91 | 232 | 2.28 | 4.35 | – | – | – | – | – | – | 11.3 | 13.7 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | **0.75** | **0.77** | **0.80** | **0.82** |
| **5.09** | 5.60 | 30.00 | 687 | 11.69 | 15.39 | 344 | 8.79 | 10.63 | 228 | 6.55 | 7.83 | – | – | – | – | – | – | – | – |
| **5.11** | 4.60 | 25.00 | 685 | 8.29 | 12.95 | 342 | 6.18 | 8.57 | 227 | 4.64 | 6.29 | – | – | – | – | – | – | – | – |
| **5.14** | 3.60 | 20.00 | 681 | 4.16 | 9.84 | 340 | 3.43 | 6.37 | 226 | 2.68 | 4.68 | – | – | – | – | – | – | – | – |
| **5.27** | 5.40 | 30.00 | 664 | 11.07 | 14.96 | 332 | 8.28 | 10.23 | 220 | 6.17 | 7.53 | – | – | – | – | – | – | – | – |
| **5.36** | 6.80 | 38.00 | 653 | 14.64 | 17.35 | 327 | 11.73 | 12.91 | 217 | 8.75 | 9.60 | – | – | – | – | – | – | – | – |
| **5.41** | 3.40 | 20.00 | 646 | 3.25 | 9.14 | 323 | 2.87 | 5.91 | 214 | 2.28 | 4.35 | – | – | – | – | – | – | – | – |
| **5.46** | 5.20 | 30.00 | 641 | 10.42 | 14.50 | 320 | 7.76 | 9.82 | 212 | 5.79 | 7.23 | – | – | – | – | – | – | – | – |
| **5.56** | 4.20 | 25.00 | 629 | 6.72 | 11.78 | 315 | 5.10 | 7.70 | 209 | 3.87 | 5.66 | – | – | – | – | – | – | – | – |
| **5.66** | 5.00 | 30.00 | 618 | 9.75 | 14.01 | 309 | 7.24 | 9.41 | 205 | 5.41 | 6.92 | – | – | – | – | – | – | – | – |
| **5.67** | 6.40 | 38.00 | 617 | 13.80 | 16.83 | 308 | 10.77 | 12.18 | 204 | 8.02 | 9.02 | | | | | | | | |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – | – |
| **5.82** | 4.00 | 25.00 | 602 | 5.90 | 11.16 | 301 | 4.55 | 7.26 | 199 | 3.47 | 5.34 | – | – | – | – | – | – | – | – |
| **6.03** | 6.00 | 38.00 | 580 | 12.82 | 16.18 | 290 | 9.79 | 11.41 | 192 | 7.29 | 8.43 | – | – | – | – | – | – | – | – |
| **6.10** | 3.80 | 25.00 | 574 | 5.04 | 10.51 | 287 | 3.99 | 6.82 | 190 | 3.08 | 5.01 | – | – | – | – | – | – | – | – |
| **6.12** | 4.60 | 30.00 | 572 | 8.30 | 12.95 | 286 | 6.18 | 8.57 | 190 | 4.65 | 6.29 | – | – | – | – | – | – | – | – |
| **6.40** | 3.60 | 25.00 | 547 | 4.16 | 9.84 | 273 | 3.43 | 6.37 | 181 | 2.68 | 4.68 | – | – | – | – | – | – | – | – |
| **6.44** | 5.60 | 38.00 | 544 | 11.69 | 15.40 | 272 | 8.79 | 10.63 | 180 | 6.55 | 7.84 | – | – | – | – | – | – | – | – |
| **6.66** | 4.20 | 30.00 | 526 | 6.73 | 11.78 | 263 | 5.10 | 7.71 | 174 | 3.87 | 5.66 | – | – | – | – | – | – | – | – |
| **6.74** | 3.40 | 25.00 | 519 | 3.26 | 9.15 | 259 | 2.87 | 5.91 | 172 | 2.28 | 4.35 | – | – | – | – | – | – | – | – |
| **6.90** | 5.20 | 38.00 | 507 | 10.43 | 14.50 | 254 | 7.77 | 9.82 | 168 | 5.79 | 7.23 | – | – | – | – | – | – | – | – |
| **6.96** | 4.00 | 30.00 | 503 | 5.90 | 11.16 | 251 | 4.55 | 7.27 | 167 | 3.47 | 5.34 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – | – |
| **7.16** | 5.00 | 38.00 | 489 | 9.75 | 14.01 | 245 | 7.24 | 9.41 | 162 | 5.41 | 6.92 | – | – | – | – | – | – | – | – |
| **7.30** | 3.80 | 30.00 | 480 | 5.05 | 10.51 | 240 | 4.00 | 6.82 | 159 | 3.08 | 5.01 | – | – | – | – | – | – | – | – |
| **7.67** | 3.60 | 30.00 | 457 | 4.17 | 9.84 | 228 | 3.44 | 6.37 | 151 | 2.68 | 4.68 | – | – | – | – | – | – | – | – |
| **7.73** | 4.60 | 38.00 | 453 | 8.30 | 12.95 | 226 | 6.18 | 8.57 | 150 | 4.65 | 6.30 | – | – | – | – | – | – | – | – |
| **8.07** | 3.40 | 30.00 | 433 | 3.26 | 9.15 | 217 | 2.87 | 5.91 | 144 | 2.28 | 4.35 | – | – | – | – | – | – | – | – |
| **8.41** | 4.20 | 38.00 | 416 | 6.73 | 11.79 | 208 | 5.10 | 7.71 | 138 | 3.87 | 5.66 | – | – | – | – | – | – | – | – |
| **8.80** | 4.00 | 38.00 | 398 | 5.90 | 11.16 | 199 | 4.55 | 7.27 | 132 | 3.48 | 5.34 | – | – | – | – | – | – | – | – |
| **9.22** | 3.80 | 38.00 | 380 | 5.05 | 10.52 | 190 | 4.00 | 6.82 | 126 | 3.08 | 5.01 | – | – | – | – | – | – | – | – |
| **9.69** | 3.60 | 38.00 | 361 | 4.17 | 9.85 | 181 | 3.44 | 6.37 | 120 | 2.68 | 4.68 | – | – | – | – | – | – | – | – |
| **10.20** | 3.40 | 38.00 | 343 | 3.26 | 9.15 | 172 | 2.87 | 5.91 | 114 | 2.28 | 4.35 | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – | – |

# Selection

## Stock Drive Selection

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B68 | B75 | B81 | B85 | B90 | B97 | B105 | B112 | B120 | B128 | B144 | B158 | B173 | B180 | B195 | B210 | B240 | B270 |
| | BX68 | BX75 | BX81 | BX85 | BX90 | BX97 | BX105 | BX112 | BX120 | BX128 | BX144 | BX158 | BX173 | BX180 | BX195 | BX210 | BX240 | BX270 |
| **3.91** | – | – | – | – | – | – | 21.0 | 25.0 | 29.4 | 33.6 | 42.0 | 49.2 | 56.9 | 60.5 | 68.1 | 75.7 | 90.1 | 105.2 |
| **3.93** | 18.3 | 22.0 | 25.1 | 27.2 | 29.7 | 33.3 | 37.4 | 40.9 | 44.9 | 49.0 | 57.0 | 64.1 | 71.6 | 75.1 | 82.6 | 90.2 | 104.4 | 119.5 |
| **3.98** | 19.1 | 22.7 | 25.8 | 27.9 | 30.4 | 34.0 | 38.0 | 41.6 | 45.6 | 49.6 | 57.7 | 64.7 | 72.2 | 75.8 | 83.3 | 90.8 | 105.1 | 120.1 |
| **3.99** | --- | --- | --- | 16.3 | 19.2 | 23.1 | 27.4 | 31.1 | 35.3 | 39.4 | 47.6 | 54.7 | 62.3 | 65.9 | 73.5 | 81.0 | 95.3 | 110.4 |
| **4.10** | 13.4 | 17.4 | 20.7 | 22.8 | 25.4 | 29.1 | 33.2 | 36.8 | 40.9 | 44.9 | 53.0 | 60.1 | 67.7 | 71.2 | 78.7 | 86.2 | 100.5 | 115.6 |
| **4.11** | 15.5 | 19.4 | 22.5 | 24.6 | 27.2 | 30.8 | 34.9 | 38.5 | 42.6 | 46.6 | 54.7 | 61.8 | 69.3 | 72.8 | 80.3 | 87.9 | 102.2 | 117.2 |
| **4.13** | 18.5 | 22.1 | 25.3 | 27.3 | 29.9 | 33.4 | 37.5 | 41.0 | 45.1 | 49.1 | 57.2 | 64.2 | 71.7 | 75.3 | 82.8 | 90.3 | 104.6 | 119.6 |
| **4.19** | 19.2 | 22.9 | 25.9 | 28.0 | 30.6 | 34.1 | 38.2 | 41.7 | 45.7 | 49.8 | 57.8 | 64.9 | 72.4 | 75.9 | 83.4 | 90.9 | 105.2 | 120.2 |
| **4.24** | – | – | – | – | – | – | 21.4 | 25.4 | 29.8 | 34.0 | 42.4 | 49.7 | 57.3 | 60.9 | 68.5 | 76.1 | 90.5 | 105.6 |
| **4.26** | – | – | – | 16.5 | 19.5 | 23.4 | 27.7 | 31.4 | 35.6 | 39.7 | 47.9 | 55.0 | 62.6 | 66.2 | 73.7 | 81.3 | 95.6 | 110.7 |
| **4.28** | – | – | – | – | – | – | – | – | – | 23.8 | 33.0 | 40.7 | 48.6 | 52.3 | 60.0 | 67.7 | 82.3 | 97.5 |
| **4.30** | 15.7 | 19.5 | 22.7 | 24.8 | 27.4 | 31.0 | 35.1 | 38.6 | 42.7 | 46.8 | 54.8 | 61.9 | 69.4 | 73.0 | 80.5 | 88.0 | 102.3 | 117.3 |
| **4.35** | 18.6 | 22.3 | 25.4 | 27.4 | 30.0 | 33.6 | 37.6 | 41.2 | 45.2 | 49.3 | 57.3 | 64.4 | 71.9 | 75.4 | 82.9 | 90.5 | 104.7 | 119.8 |
| **4.40** | – | – | – | 16.7 | 19.6 | 23.5 | 27.8 | 31.5 | 35.7 | 39.8 | 48.0 | 55.2 | 62.8 | 66.3 | 73.9 | 81.4 | 95.8 | 110.9 |
| **4.46** | 13.6 | 17.6 | 20.9 | 23.0 | 25.7 | 29.3 | 33.5 | 37.1 | 41.1 | 45.2 | 53.3 | 60.4 | 67.9 | 71.5 | 79.0 | 86.5 | 100.8 | 115.9 |
| **4.49** | – | – | – | – | – | – | 21.6 | 25.6 | 30.0 | 34.3 | 42.7 | 49.9 | 57.6 | 61.2 | 68.8 | 76.4 | 90.8 | 105.9 |
| **4.51** | 15.8 | 19.6 | 22.8 | 24.9 | 27.5 | 31.1 | 35.2 | 38.8 | 42.9 | 46.9 | 55.0 | 62.0 | 69.6 | 73.1 | 80.6 | 88.2 | 102.5 | 117.5 |
| **4.56** | – | – | – | 16.8 | 19.7 | 23.6 | 27.9 | 31.6 | 35.8 | 40.0 | 48.2 | 55.3 | 62.9 | 66.5 | 74.0 | 81.6 | 95.9 | 111.0 |
| **4.67** | 13.7 | 17.8 | 21.0 | 23.2 | 25.8 | 29.5 | 33.6 | 37.2 | 41.3 | 45.4 | 53.5 | 60.5 | 68.1 | 71.6 | 79.2 | 86.7 | 101.0 | 116.0 |
| **4.73** | – | – | – | 16.9 | 19.8 | 23.7 | 28.1 | 31.8 | 36.0 | 40.1 | 48.3 | 55.4 | 63.1 | 66.6 | 74.2 | 81.7 | 96.1 | 111.2 |
| **4.74** | 15.9 | 19.7 | 22.9 | 25.0 | 27.6 | 31.3 | 35.4 | 38.9 | 43.0 | 47.0 | 55.1 | 62.2 | 69.7 | 73.3 | 80.8 | 88.3 | 102.6 | 117.6 |
| **4.77** | – | – | – | – | – | – | 21.8 | 25.9 | 30.3 | 34.6 | 43.0 | 50.2 | 57.9 | 61.5 | 69.1 | 76.7 | 91.1 | 106.2 |
| **4.89** | 13.8 | 17.9 | 21.2 | 23.3 | 26.0 | 29.6 | 33.7 | 37.3 | 41.4 | 45.5 | 53.6 | 60.7 | 68.2 | 71.8 | 79.3 | 86.8 | 101.1 | 116.2 |
| **4.94** | – | – | – | – | – | – | – | – | – | 24.5 | 33.8 | 41.4 | 49.4 | 53.1 | 60.8 | 68.6 | 83.1 | 98.3 |
| **4.99** | 16.0 | 19.9 | 23.1 | 25.2 | 27.8 | 31.4 | 35.5 | 39.1 | 43.1 | 47.2 | 55.3 | 62.3 | 69.9 | 73.4 | 80.9 | 88.5 | 102.8 | 117.8 |
| | **0.85** | **0.88** | **0.89** | **0.90** | **0.92** | **0.95** | **0.98** | **1.00** | **1.02** | **1.04** | **1.08** | **1.10** | **1.13** | **1.14** | **1.16** | **1.18** | **1.22** | **1.25** |
| **5.09** | – | – | – | – | – | – | 22.1 | 26.1 | 30.5 | 34.8 | 43.2 | 50.5 | 58.2 | 61.7 | 69.4 | 77.0 | 91.4 | 106.5 |
| **5.11** | 14.0 | 18.0 | 21.3 | 17.1 | 20.1 | 24.0 | 28.3 | 32.0 | 36.2 | 40.4 | 48.6 | 55.7 | 63.3 | 66.9 | 74.5 | 82.0 | 96.4 | 111.4 |
| **5.14** | – | – | – | 23.4 | 26.1 | 29.7 | 33.9 | 37.5 | 41.6 | 45.6 | 53.7 | 60.8 | 68.4 | 71.9 | 79.5 | 87.0 | 101.3 | 116.3 |
| **5.27** | – | – | – | – | – | – | 22.2 | 26.2 | 30.6 | 34.9 | 43.4 | 50.6 | 58.3 | 61.9 | 69.5 | 77.1 | 91.5 | 106.7 |
| **5.36** | – | – | – | – | – | – | – | – | – | 24.8 | 34.2 | 41.8 | 49.8 | 53.5 | 61.2 | 69.0 | 83.5 | 98.7 |
| **5.41** | 14.1 | 18.1 | 21.4 | 23.6 | 26.2 | 29.9 | 34.0 | 37.6 | 41.7 | 45.8 | 53.9 | 61.0 | 68.5 | 72.1 | 79.6 | 87.1 | 101.4 | 116.5 |
| **5.46** | – | – | – | – | – | – | 22.3 | 26.4 | 30.8 | 35.1 | 43.5 | 50.8 | 58.5 | 62.0 | 69.7 | 77.3 | 91.7 | 106.8 |
| **5.56** | – | – | 14.8 | 17.4 | 20.3 | 24.2 | 28.6 | 32.3 | 36.5 | 40.6 | 48.9 | 56.0 | 63.6 | 67.2 | 74.8 | 82.3 | 96.7 | 111.7 |
| **5.66** | – | – | – | – | – | – | 22.4 | 26.5 | 30.9 | 35.2 | 43.6 | 50.9 | 58.6 | 62.2 | 69.8 | 77.4 | 91.8 | 106.9 |
| **5.67** | – | – | – | – | – | – | – | – | – | 25.1 | 34.4 | 42.1 | 50.1 | 53.7 | 61.5 | 69.2 | 83.8 | 99.0 |
| | **0.78** | **0.81** | **0.84** | **0.88** | **0.90** | **0.93** | **0.96** | **0.99** | **1.01** | **1.03** | **1.07** | **1.10** | **1.12** | **1.14** | **1.16** | **1.18** | **1.22** | **1.25** |
| **5.82** | – | – | 14.9 | 17.5 | 20.4 | 24.4 | 28.7 | 32.4 | 36.6 | 40.8 | 49.0 | 56.2 | 63.8 | 67.3 | 74.9 | 82.5 | 96.8 | 111.9 |
| **6.03** | – | – | – | – | – | – | – | – | – | 25.3 | 34.7 | 42.3 | 50.3 | 54.0 | 61.8 | 69.5 | 84.1 | 99.3 |
| **6.10** | – | – | 15.1 | 17.6 | 20.6 | 24.5 | 28.8 | 32.6 | 36.8 | 40.9 | 49.1 | 56.3 | 63.9 | 67.5 | 75.0 | 82.6 | 97.0 | 112.0 |
| **6.12** | – | – | – | – | – | 17.7 | 22.7 | 26.7 | 31.2 | 35.5 | 43.9 | 51.2 | 58.9 | 62.4 | 70.1 | 77.7 | 92.1 | 107.2 |
| **6.40** | – | – | 15.2 | 17.7 | 20.7 | 24.6 | 29.0 | 32.7 | 36.9 | 41.1 | 49.3 | 56.4 | 64.1 | 67.6 | 75.2 | 82.8 | 97.1 | 112.2 |
| **6.44** | – | – | – | – | – | – | – | – | – | 25.5 | 34.9 | 42.6 | 50.6 | 54.3 | 62.1 | 69.8 | 84.4 | 99.6 |
| **6.66** | – | – | – | – | – | 17.9 | 22.9 | 27.0 | 31.4 | 35.7 | 44.2 | 51.4 | 59.1 | 62.7 | 70.4 | 78.0 | 92.4 | 107.5 |
| **6.74** | – | – | 15.3 | 17.8 | 20.8 | 24.7 | 29.1 | 32.8 | 37.0 | 41.2 | 49.4 | 56.6 | 64.2 | 67.7 | 75.3 | 82.9 | 97.3 | 112.3 |
| **6.90** | – | – | – | – | – | – | – | – | – | 25.8 | 35.2 | 42.8 | 50.8 | 54.5 | 62.3 | 70.1 | 84.6 | 99.9 |
| **6.96** | – | – | – | – | – | 18.0 | 23.0 | 27.1 | 31.5 | 35.9 | 44.3 | 51.6 | 59.3 | 62.9 | 70.5 | 78.1 | 92.5 | 107.7 |
| | – | – | **0.70** | **0.75** | **0.81** | **0.87** | **0.91** | **0.95** | **0.98** | **1.00** | **1.05** | **1.08** | **1.11** | **1.12** | **1.15** | **1.17** | **1.21** | **1.24** |
| **7.16** | – | – | – | – | – | – | – | – | – | 25.9 | 35.3 | 43.0 | 51.0 | 54.7 | 62.5 | 70.2 | 84.8 | 100.0 |
| **7.30** | – | – | – | – | – | 18.1 | 23.2 | 27.2 | 31.7 | 36.0 | 44.4 | 51.7 | 59.4 | 63.0 | 70.7 | 78.3 | 92.7 | 107.8 |
| **7.67** | – | – | – | – | – | 18.3 | 23.3 | 27.3 | 31.8 | 36.1 | 44.6 | 51.8 | 59.6 | 63.1 | 70.8 | 78.4 | 92.8 | 108.0 |
| **7.73** | – | – | – | – | – | – | – | – | – | 26.1 | 35.5 | 43.2 | 51.2 | 54.9 | 62.7 | 70.5 | 85.1 | 100.3 |
| **8.07** | – | – | – | – | – | 18.4 | 23.4 | 27.5 | 31.9 | 36.2 | 44.7 | 52.0 | 59.7 | 63.3 | 70.9 | 78.6 | 93.0 | 108.1 |
| **8.41** | – | – | – | – | – | – | – | – | – | 26.4 | 35.8 | 43.5 | 51.5 | 55.2 | 63.0 | 70.8 | 85.3 | 100.6 |
| **8.80** | – | – | – | – | – | – | – | – | 21.1 | 26.5 | 35.9 | 43.6 | 51.6 | 55.3 | 63.1 | 70.9 | 85.5 | 100.7 |
| **9.22** | – | – | – | – | – | – | – | – | 21.2 | 26.6 | 36.0 | 43.7 | 51.8 | 55.5 | 63.3 | 71.0 | 85.6 | 100.9 |
| **9.69** | – | – | – | – | – | – | – | – | 21.3 | 26.7 | 36.2 | 43.9 | 51.9 | 55.6 | 63.4 | 71.2 | 85.8 | 101.0 |
| **10.20** | – | – | – | – | – | – | – | – | 21.4 | 26.8 | 36.3 | 44.0 | 52.0 | 55.7 | 63.5 | 71.3 | 85.9 | 101.2 |
| | – | – | – | – | – | **0.77** | **0.82** | **0.88** | **0.92** | **0.96** | **1.02** | **1.05** | **1.09** | **1.10** | **1.13** | **1.15** | **1.19** | **1.23** |

# Selection

## Stock Drive Selection

| C | S-L CLASSIC |
|---|---|

| CX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Size/Center Distance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | C51 | C60 | C68 | C75 | C81 | C85 | C90 | C96 | C105 |
| | Driver | Driven | RPM | C | CX | RPM | C | CX | RPM | C | CX | CX51 | CX60 | CX68 | CX75 | CX81 | CX85 | CX90 | CX96 | CX105 |
| | 7.0 | 7.0 | 1750 | 12.09 | 18.97 | 1160 | 9.69 | 14.22 | 870 | 7.98 | 11.39 | 16.0 | 20.5 | 24.5 | 28.0 | 31.0 | 33.0 | 35.5 | 38.5 | 43.0 |
| | 7.5 | 7.5 | 1750 | 14.00 | 20.59 | 1160 | 11.17 | 15.48 | 870 | 9.16 | 12.40 | 15.2 | 19.7 | 23.7 | 27.2 | 30.2 | 32.2 | 34.7 | 37.7 | 42.2 |
| | 8.0 | 8.0 | 1750 | 15.84 | 22.15 | 1160 | 12.62 | 16.71 | 870 | 10.33 | 13.40 | 14.4 | 18.9 | 22.9 | 26.4 | 29.4 | 31.4 | 33.9 | 36.9 | 41.4 |
| | 8.5 | 8.5 | 1750 | 17.62 | 23.65 | 1160 | 14.05 | 17.93 | 870 | 11.48 | 14.39 | 13.6 | 18.1 | 22.1 | 25.6 | 28.6 | 30.6 | 33.1 | 36.1 | 40.6 |
| | 9.0 | 9.0 | 1750 | 19.32 | 25.09 | 1160 | 15.45 | 19.11 | 870 | 12.62 | 15.36 | 12.8 | 17.3 | 21.3 | 24.8 | 27.8 | 29.8 | 32.3 | 35.3 | 39.8 |
| | 9.5 | 9.5 | 1750 | 20.94 | 26.47 | 1160 | 16.82 | 20.28 | 870 | 13.74 | 16.32 | 12.0 | 16.5 | 20.5 | 24.0 | 27.0 | 29.0 | 31.5 | 34.5 | 39.0 |
| 1.00 | 10.0 | 10.0 | 1750 | 22.49 | 27.78 | 1160 | 18.17 | 21.42 | 870 | 14.85 | 17.26 | 11.3 | 15.8 | 19.7 | 23.3 | 26.3 | 28.3 | 30.8 | 33.8 | 38.3 |
| | 10.5 | 10.5 | 1750 | 23.96 | 29.02 | 1160 | 19.49 | 22.54 | 870 | 15.95 | 18.20 | – | 15.0 | 19.0 | 22.5 | 25.5 | 27.5 | 30.0 | 33.0 | 37.5 |
| | 11.0 | 11.0 | 1750 | 25.35 | 30.20 | 1160 | 20.78 | 23.63 | 870 | 17.03 | 19.12 | – | 14.2 | 18.2 | 21.7 | 24.7 | 26.7 | 29.2 | 32.2 | 36.7 |
| | 12.0 | 12.0 | 1750 | 27.86 | 32.34 | 1160 | 23.27 | 25.74 | 870 | 19.15 | 20.92 | – | 12.6 | 16.6 | 20.1 | 23.1 | 25.1 | 27.6 | 30.6 | 35.1 |
| | 13.0 | 13.0 | 1750 | 30.00 | 34.18 | 1160 | 25.64 | 27.75 | 870 | 21.21 | 22.66 | – | – | 15.0 | 18.5 | 21.5 | 23.5 | 26.0 | 29.0 | 33.5 |
| | 14.0 | 14.0 | 1750 | 31.76 | 35.70 | 1160 | 27.88 | 29.64 | 870 | 23.20 | 24.36 | – | – | – | 17.0 | 20.0 | 22.0 | 24.5 | 27.5 | 32.0 |
| | 16.0 | 16.0 | 1750 | – | – | 1160 | 31.96 | 33.10 | 870 | 27.00 | 27.57 | – | – | – | – | 16.8 | 18.8 | 21.3 | 24.3 | 28.8 |
| | 10.5 | 11.0 | 1673 | 24.35 | 29.41 | 1109 | 19.74 | 22.79 | 832 | 16.14 | 18.39 | – | 14.6 | 18.6 | 22.1 | 25.1 | 27.1 | 29.6 | 32.6 | 37.1 |
| 1.05 | 10.0 | 10.5 | 1670 | 22.89 | 28.18 | 1107 | 18.44 | 21.69 | 830 | 15.05 | 17.45 | 10.9 | 15.4 | 19.4 | 22.9 | 25.9 | 27.9 | 30.4 | 33.4 | 37.9 |
| | 9.5 | 10.0 | 1666 | 21.36 | 26.88 | 1104 | 17.10 | 20.56 | 828 | 13.95 | 16.53 | 11.6 | 16.1 | 20.1 | 23.6 | 26.6 | 28.6 | 31.1 | 34.1 | 38.6 |
| | 9.0 | 9.5 | 1662 | 19.75 | 25.53 | 1101 | 15.74 | 19.40 | 826 | 12.83 | 15.58 | 12.4 | 16.9 | 20.9 | 24.4 | 27.4 | 29.4 | 31.9 | 34.9 | 39.4 |
| | 8.5 | 9.0 | 1657 | 18.07 | 24.11 | 1098 | 14.36 | 18.23 | 824 | 11.71 | 14.61 | 13.2 | 17.7 | 21.7 | 25.2 | 28.2 | 30.2 | 32.7 | 35.7 | 40.2 |
| 1.06 | 8.0 | 8.5 | 1652 | 16.32 | 22.63 | 1095 | 12.94 | 17.03 | 821 | 10.57 | 13.64 | 14.0 | 18.5 | 22.5 | 26.0 | 29.0 | 31.0 | 33.5 | 36.5 | 41.0 |
| | 7.5 | 8.0 | 1646 | 14.51 | 21.10 | 1091 | 11.51 | 15.81 | 818 | 9.41 | 12.65 | 14.8 | 19.3 | 23.3 | 26.8 | 29.8 | 31.8 | 34.3 | 37.3 | 41.8 |
| 1.07 | 7.0 | 7.5 | 1639 | 12.62 | 19.51 | 1087 | 10.05 | 14.57 | 815 | 8.24 | 11.65 | 15.6 | 20.1 | 24.1 | 27.6 | 30.6 | 32.6 | 35.1 | 38.1 | 42.6 |
| | 13.0 | 14.0 | 1628 | 30.50 | 34.76 | 1079 | 26.03 | 28.13 | 810 | 21.50 | 22.95 | – | – | 14.2 | 17.7 | 20.7 | 22.7 | 25.3 | 28.3 | 32.8 |
| 1.08 | 12.0 | 13.0 | 1619 | 28.48 | 32.96 | 1073 | 23.68 | 26.15 | 805 | 19.46 | 21.23 | – | – | 15.8 | 19.3 | 22.3 | 24.3 | 26.8 | 29.8 | 34.3 |
| 1.09 | 11.0 | 12.0 | 1609 | 26.01 | 30.86 | 1066 | 21.22 | 24.07 | 800 | 17.36 | 19.45 | – | 13.4 | 17.4 | 20.9 | 23.9 | 25.9 | 28.4 | 31.4 | 35.9 |
| 1.10 | 10.0 | 11.0 | 1596 | 23.21 | 28.49 | 1058 | 18.65 | 21.90 | 794 | 15.21 | 17.62 | – | 15.0 | 19.0 | 22.5 | 25.5 | 27.5 | 30.0 | 33.0 | 37.5 |
| ARC-LENGTH CORRECTION FACTOR —> | | | | | | | | | | | | 0.77 | 0.81 | 0.83 | 0.85 | 0.87 | 0.88 | 0.89 | 0.91 | 0.93 |
| 1.10 | 9.5 | 10.5 | 1589 | 21.69 | 27.21 | 1054 | 17.32 | 20.77 | 790 | 14.11 | 16.69 | 11.2 | 15.7 | 19.7 | 23.2 | 26.2 | 28.2 | 30.7 | 33.7 | 38.2 |
| 1.11 | 9.0 | 10.0 | 1582 | 20.09 | 25.86 | 1048 | 15.96 | 19.63 | 786 | 13.00 | 15.74 | 12.0 | 16.5 | 20.5 | 24.0 | 27.0 | 29.0 | 31.5 | 34.5 | 39.0 |
| | 8.5 | 9.5 | 1573 | 18.42 | 24.46 | 1043 | 14.58 | 18.46 | 782 | 11.88 | 14.79 | 12.8 | 17.3 | 21.3 | 24.8 | 27.8 | 29.8 | 32.3 | 35.3 | 39.8 |
| 1.12 | 8.0 | 9.0 | 1564 | 16.66 | 22.99 | 1037 | 13.18 | 17.27 | 777 | 10.74 | 13.82 | 13.6 | 18.1 | 22.1 | 25.6 | 28.6 | 30.6 | 33.1 | 36.1 | 40.6 |
| | 16.0 | 18.0 | 1560 | – | – | 1034 | 32.53 | 33.67 | 775 | 27.43 | 28.00 | – | – | – | – | – | 17.2 | 19.7 | 22.7 | 27.2 |
| 1.13 | 7.5 | 8.5 | 1553 | 14.86 | 21.47 | 1030 | 11.75 | 16.06 | 772 | 9.59 | 12.84 | 14.4 | 18.9 | 22.9 | 26.4 | 29.4 | 31.4 | 33.9 | 36.9 | 41.4 |
| 1.14 | 7.0 | 8.0 | 1542 | 13.01 | 19.89 | 1022 | 10.30 | 14.83 | 766 | 8.43 | 11.84 | 15.2 | 19.7 | 23.7 | 27.2 | 30.2 | 32.2 | 34.7 | 37.7 | 42.2 |
| | 10.5 | 12.0 | 1538 | 24.89 | 29.96 | 1020 | 20.11 | 23.16 | 765 | 16.41 | 18.66 | – | 13.8 | 17.8 | 21.3 | 24.3 | 26.3 | 28.8 | 31.8 | 36.3 |
| | 14.0 | 16.0 | 1537 | 32.70 | 36.64 | 1019 | 28.51 | 30.26 | 764 | 23.67 | 24.82 | – | – | – | 15.4 | 18.4 | 20.4 | 22.9 | 25.9 | 30.4 |
| 1.15 | 9.5 | 11.0 | 1520 | 21.94 | 27.46 | 1007 | 17.49 | 20.94 | 756 | 14.24 | 16.81 | 10.8 | 15.3 | 19.3 | 22.8 | 25.8 | 27.8 | 30.3 | 33.3 | 37.9 |
| 1.16 | 9.0 | 10.5 | 1509 | 20.35 | 26.12 | 1000 | 16.13 | 19.80 | 750 | 13.13 | 15.87 | 11.6 | 16.1 | 20.1 | 23.6 | 26.6 | 28.6 | 31.1 | 34.1 | 38.6 |
| | 12.0 | 14.0 | 1507 | 28.90 | 33.38 | 999 | 23.96 | 26.43 | 749 | 19.66 | 21.43 | – | – | 15.0 | 18.5 | 21.5 | 23.5 | 26.0 | 29.0 | 33.5 |
| 1.17 | 8.5 | 10.0 | 1498 | 18.68 | 24.72 | 993 | 14.76 | 18.63 | 745 | 12.01 | 14.92 | 12.4 | 16.9 | 20.9 | 24.4 | 27.4 | 29.4 | 31.9 | 34.9 | 39.4 |
| 1.18 | 11.0 | 13.0 | 1489 | 26.44 | 31.30 | 987 | 21.51 | 24.36 | 740 | 17.57 | 19.66 | – | 12.6 | 16.6 | 20.1 | 23.1 | 25.1 | 27.6 | 30.6 | 35.1 |
| | 8.0 | 9.5 | 1486 | 16.95 | 23.26 | 984 | 13.36 | 17.45 | 738 | 10.88 | 13.95 | 13.2 | 17.7 | 21.7 | 25.2 | 28.2 | 30.2 | 32.7 | 35.7 | 40.2 |
| 1.19 | 7.5 | 9.0 | 1471 | 15.15 | 21.74 | 975 | 11.93 | 16.24 | 731 | 9.73 | 12.97 | 14.0 | 18.5 | 22.5 | 26.0 | 29.0 | 31.0 | 33.5 | 36.5 | 41.0 |
| | 10.0 | 12.0 | 1468 | 23.65 | 28.94 | 973 | 18.94 | 22.19 | 730 | 15.43 | 17.84 | – | 14.1 | 18.2 | 21.7 | 24.7 | 26.7 | 29.2 | 32.2 | 36.7 |
| 1.20 | 7.0 | 8.5 | 1455 | 13.28 | 20.17 | 964 | 10.49 | 15.01 | 723 | 8.57 | 11.98 | 14.8 | 19.3 | 23.3 | 26.8 | 29.8 | 31.8 | 34.3 | 37.3 | 41.8 |
| 1.21 | 9.0 | 11.0 | 1443 | 20.65 | 26.32 | 956 | 16.27 | 19.93 | 717 | 13.23 | 15.97 | 11.2 | 15.7 | 19.7 | 23.2 | 26.2 | 28.2 | 30.7 | 33.7 | 38.2 |
| 1.22 | 13.0 | 16.0 | 1430 | 31.27 | 35.45 | 948 | 26.48 | 28.58 | 711 | 21.84 | 23.29 | – | – | – | 16.1 | 19.1 | 21.1 | 23.6 | 26.6 | 31.1 |
| | 8.5 | 10.5 | 1429 | 18.89 | 24.92 | 947 | 14.89 | 18.77 | 710 | 12.11 | 15.02 | 12.0 | 16.5 | 20.5 | 24.0 | 27.0 | 29.0 | 31.5 | 34.5 | 39.0 |
| 1.23 | 10.5 | 13.0 | 1424 | 25.24 | 30.31 | 944 | 20.34 | 23.39 | 708 | 16.59 | 18.84 | --- | 12.9 | 17.0 | 20.5 | 23.5 | 25.5 | 28.0 | 31.0 | 35.5 |
| 1.24 | 8.0 | 10.0 | 1413 | 17.15 | 23.48 | 937 | 13.49 | 17.58 | 703 | 10.98 | 14.05 | 12.8 | 17.3 | 21.3 | 24.8 | 27.8 | 29.8 | 32.3 | 35.3 | 39.8 |
| | 16.0 | 20.0 | 1407 | – | – | 933 | 32.84 | 33.98 | 699 | 27.66 | 28.23 | – | – | – | – | – | – | 18.1 | 21.1 | 25.6 |
| 1.25 | 9.5 | 12.0 | 1397 | 22.29 | 27.82 | 926 | 17.72 | 21.18 | 695 | 14.41 | 16.99 | – | 14.5 | 18.5 | 22.0 | 25.0 | 27.0 | 29.5 | 32.5 | 37.1 |
| | 7.5 | 9.5 | 1396 | 15.35 | 21.94 | 926 | 12.07 | 16.37 | 694 | 9.83 | 13.07 | 13.6 | 18.1 | 22.1 | 25.6 | 28.6 | 30.6 | 33.1 | 36.1 | 40.6 |
| 1.26 | 11.0 | 14.0 | 1385 | 26.73 | 31.58 | 918 | 21.69 | 24.55 | 689 | 17.72 | 19.80 | – | – | 15.8 | 19.3 | 22.3 | 24.3 | 26.8 | 29.8 | 34.3 |
| 1.27 | 7.0 | 9.0 | 1378 | 13.48 | 20.37 | 913 | 10.62 | 15.14 | 665 | 8.67 | 12.08 | 14.4 | 18.9 | 22.9 | 26.4 | 29.4 | 31.4 | 33.9 | 36.9 | 41.4 |
| 1.28 | 14.0 | 18.0 | 1370 | 33.18 | 37.12 | 908 | 28.82 | 30.58 | 681 | 23.91 | 25.06 | – | – | – | – | 16.7 | 18.7 | 21.2 | 24.2 | 28.8 |
| | 8.5 | 11.0 | 1366 | 19.04 | 25.07 | 906 | 14.99 | 18.87 | 679 | 12.19 | 15.09 | 11.6 | 16.1 | 20.1 | 23.6 | 26.6 | 28.6 | 31.1 | 34.1 | 38.6 |
| 1.29 | 10.0 | 13.0 | 1358 | 23.93 | 29.22 | 900 | 19.13 | 22.38 | 675 | 15.57 | 17.98 | – | 13.3 | 17.3 | 20.8 | 23.8 | 25.9 | 28.4 | 31.4 | 35.9 |
| 1.30 | 8.0 | 10.5 | 1349 | 17.31 | 23.61 | 894 | 13.59 | 17.68 | 670 | 11.05 | 14.13 | 12.4 | 16.9 | 20.9 | 24.4 | 27.4 | 29.4 | 31.9 | 34.9 | 39.4 |
| 1.32 | 7.5 | 10.0 | 1329 | 15.50 | 22.09 | 881 | 12.17 | 16.47 | 661 | 9.91 | 13.15 | 13.2 | 17.7 | 21.7 | 25.2 | 28.2 | 30.2 | 32.7 | 35.7 | 40.2 |
| | 9.0 | 12.0 | 1327 | 20.83 | 26.60 | 879 | 16.45 | 20.12 | 660 | 13.37 | 16.11 | – | 14.9 | 18.9 | 22.4 | 25.4 | 27.4 | 29.9 | 32.9 | 37.4 |
| | 10.5 | 14.0 | 1325 | 25.47 | 30.54 | 878 | 20.49 | 23.54 | 659 | 16.70 | 18.95 | – | – | 16.1 | 19.6 | 22.6 | 24.7 | 27.2 | 30.2 | 34.7 |
| | 12.0 | 16.0 | 1323 | 29.37 | 33.85 | 877 | 24.28 | 26.74 | 658 | 19.90 | 21.67 | – | – | – | 16.9 | 19.9 | 21.9 | 24.4 | 27.4 | 31.9 |
| 1.34 | 7.0 | 9.5 | 1308 | 13.63 | 20.52 | 867 | 10.72 | 15.24 | 650 | 8.74 | 12.15 | 13.9 | 18.5 | 22.5 | 26.0 | 29.0 | 31.0 | 33.5 | 36.5 | 41.0 |
| 1.35 | 9.5 | 13.0 | 1293 | 22.52 | 28.04 | 857 | 17.87 | 21.32 | 643 | 14.52 | 17.10 | – | 13.7 | 17.7 | 21.2 | 24.2 | 26.2 | 28.7 | 31.7 | 36.2 |
| 1.36 | 8.0 | 11.0 | 1289 | 17.42 | 23.73 | 855 | 13.67 | 17.76 | 641 | 11.11 | 14.19 | 11.9 | 16.5 | 20.5 | 24.0 | 27.0 | 29.0 | 31.5 | 34.5 | 39.0 |
| 1.37 | 13.0 | 18.0 | 1274 | 31.61 | 35.79 | 845 | 26.71 | 28.81 | 634 | 22.01 | 23.46 | – | – | – | – | 17.4 | 19.5 | 22.0 | 25.0 | 29.5 |
| 1.38 | 7.5 | 10.5 | 1268 | 15.62 | 22.21 | 841 | 12.24 | 16.65 | 631 | 9.96 | 13.20 | 12.7 | 17.3 | 21.3 | 24.8 | 27.8 | 29.8 | 32.3 | 35.3 | 39.8 |
| ARC-LENGTH CORRECTION FACTOR —> | | | | | | | | | | | | 0.75 | 0.79 | 0.82 | 0.84 | 0.86 | 0.87 | 0.89 | 0.90 | 0.92 |

# Selection

## Stock Drive Selection

| C | S-L CLASSIC |
|---|---|

| CX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C112 | C120 | C128 | C136 | C144 | C158 | C162 | C173 | C180 | C195 | C210 | C240 | C270 | C300 | C330 | C360 | C390 | C420 |
| | CX112 | CX120 | CX128 | CX136 | CX144 | CX158 | CX162 | CX173 | CX180 | CX195 | CX210 | CX240 | CX270 | CX300 | CX330 | CX360 | CX390 | CX420 |
| 1.00 | 46.5 | 50.5 | 54.5 | 58.5 | 62.5 | 69.5 | 71.5 | 77.0 | 80.5 | 88.0 | 95.5 | 109.5 | 124.5 | 139.5 | 154.5 | 169.5 | 184.5 | 199.5 |
| | 45.7 | 49.7 | 53.7 | 57.7 | 61.7 | 68.7 | 70.7 | 76.2 | 79.7 | 87.2 | 94.7 | 108.7 | 123.7 | 138.7 | 153.7 | 168.7 | 183.7 | 198.7 |
| | 44.9 | 48.9 | 52.9 | 56.9 | 60.9 | 67.9 | 69.9 | 75.4 | 78.9 | 86.4 | 93.9 | 107.9 | 122.9 | 137.9 | 152.9 | 167.9 | 182.9 | 197.9 |
| | 44.1 | 48.1 | 52.1 | 56.1 | 60.1 | 67.1 | 69.1 | 74.6 | 78.1 | 85.6 | 93.1 | 107.1 | 122.1 | 137.1 | 152.1 | 167.1 | 182.1 | 197.1 |
| | 43.3 | 47.3 | 51.3 | 55.3 | 59.3 | 66.3 | 68.3 | 73.8 | 77.3 | 84.8 | 92.3 | 106.3 | 121.3 | 136.3 | 151.3 | 166.3 | 181.3 | 196.3 |
| | 42.5 | 46.5 | 50.5 | 54.5 | 58.5 | 65.5 | 67.5 | 73.0 | 76.5 | 84.0 | 91.5 | 105.5 | 120.5 | 135.5 | 150.5 | 165.5 | 180.5 | 195.5 |
| | 41.8 | 45.8 | 49.7 | 53.7 | 57.7 | 64.8 | 66.8 | 72.3 | 75.8 | 83.3 | 90.8 | 104.8 | 119.7 | 134.8 | 149.7 | 164.8 | 179.8 | 194.7 |
| | 41.0 | 45.0 | 49.0 | 53.0 | 57.0 | 64.0 | 66.0 | 71.5 | 75.0 | 82.5 | 90.0 | 104.0 | 119.0 | 134.0 | 149.0 | 164.0 | 179.0 | 194.0 |
| | 40.2 | 44.2 | 48.2 | 52.2 | 56.2 | 63.2 | 65.2 | 70.7 | 74.2 | 81.7 | 89.2 | 103.2 | 118.2 | 133.2 | 148.2 | 163.2 | 178.2 | 193.2 |
| | 38.6 | 42.6 | 46.6 | 50.6 | 54.6 | 61.6 | 63.6 | 69.1 | 72.6 | 80.1 | 87.6 | 101.6 | 116.6 | 131.6 | 146.6 | 161.6 | 176.6 | 191.6 |
| | 37.0 | 41.0 | 45.0 | 49.0 | 53.0 | 60.0 | 62.0 | 67.5 | 71.0 | 78.5 | 86.0 | 100.0 | 115.0 | 130.0 | 145.0 | 160.0 | 175.0 | 190.0 |
| | 35.5 | 39.5 | 43.5 | 47.5 | 51.5 | 58.5 | 60.5 | 66.0 | 69.5 | 77.0 | 84.5 | 98.5 | 113.5 | 128.5 | 143.5 | 158.5 | 173.5 | 188.5 |
| | 32.3 | 35.3 | 40.3 | 44.3 | 48.3 | 55.3 | 57.3 | 62.8 | 66.3 | 73.8 | 81.3 | 95.3 | 110.3 | 125.3 | 140.3 | 155.3 | 170.3 | 185.3 |
| 1.05 | 40.6 | 44.6 | 48.6 | 52.6 | 56.6 | 63.6 | 65.6 | 71.1 | 74.6 | 82.1 | 89.6 | 103.6 | 118.6 | 133.6 | 148.6 | 163.6 | 178.6 | 193.6 |
| | 41.4 | 45.4 | 49.4 | 53.4 | 57.4 | 64.4 | 66.4 | 71.9 | 75.4 | 82.9 | 90.4 | 104.4 | 119.4 | 134.4 | 149.4 | 164.4 | 179.4 | 194.4 |
| | 42.1 | 48.1 | 50.1 | 54.1 | 58.1 | 65.1 | 67.1 | 72.6 | 76.1 | 83.6 | 91.1 | 105.1 | 120.1 | 135.1 | 150.1 | 165.1 | 180.1 | 195.1 |
| | 42.9 | 46.9 | 50.9 | 54.9 | 58.9 | 65.9 | 67.9 | 73.4 | 76.9 | 84.4 | 91.9 | 105.9 | 120.9 | 135.9 | 150.9 | 165.9 | 180.9 | 195.9 |
| 1.06 | 43.7 | 47.7 | 51.7 | 55.7 | 59.7 | 66.7 | 68.7 | 74.2 | 77.7 | 85.2 | 92.7 | 106.7 | 121.7 | 136.7 | 151.7 | 166.7 | 181.7 | 196.7 |
| | 44.5 | 48.5 | 52.5 | 56.5 | 60.5 | 67.5 | 69.5 | 75.0 | 78.5 | 86.0 | 93.5 | 107.5 | 122.5 | 137.5 | 152.5 | 167.5 | 182.5 | 197.5 |
| | 45.3 | 49.3 | 53.3 | 57.3 | 61.3 | 68.3 | 70.3 | 75.8 | 79.3 | 86.8 | 94.3 | 108.3 | 123.3 | 138.3 | 153.3 | 168.3 | 183.3 | 198.3 |
| 1.07 | 48.1 | 50.1 | 54.1 | 58.1 | 62.1 | 69.1 | 71.1 | 76.6 | 80.1 | 87.6 | 95.1 | 109.1 | 124.1 | 139.1 | 154.1 | 169.1 | 184.1 | 199.1 |
| | 36.3 | 40.3 | 44.3 | 48.3 | 52.3 | 59.3 | 61.3 | 66.8 | 70.3 | 77.8 | 85.3 | 99.3 | 114.3 | 129.3 | 144.3 | 159.3 | 174.3 | 189.3 |
| 1.08 | 37.8 | 41.8 | 45.8 | 49.8 | 53.8 | 60.8 | 62.8 | 68.3 | 71.8 | 79.3 | 86.8 | 100.8 | 115.8 | 130.8 | 145.8 | 160.8 | 175.8 | 190.8 |
| 1.09 | 39.4 | 43.4 | 47.4 | 51.4 | 55.4 | 62.4 | 64.4 | 69.9 | 73.4 | 80.9 | 88.4 | 102.4 | 117.4 | 132.4 | 147.4 | 162.4 | 177.4 | 192.4 |
| 1.10 | 41.0 | 45.0 | 49.0 | 53.0 | 57.0 | 64.0 | 66.0 | 71.5 | 75.0 | 82.5 | 90.0 | 104.0 | 119.0 | 134.0 | 149.0 | 164.0 | 179.0 | 194.0 |
| | **0.94** | **0.96** | **0.97** | **0.99** | **1.00** | **1.02** | **1.03** | **1.04** | **1.05** | **1.07** | **1.08** | **1.11** | **1.14** | **1.16** | **1.18** | **1.20** | **1.22** | **1.24** |
| 1.10 | 41.7 | 45.7 | 49.7 | 53.7 | 57.7 | 64.7 | 66.7 | 72.2 | 75.7 | 83.2 | 90.7 | 104.7 | 119.7 | 134.7 | 149.7 | 164.7 | 179.7 | 194.7 |
| 1.11 | 42.5 | 46.5 | 50.5 | 54.5 | 58.5 | 65.5 | 67.5 | 73.0 | 76.5 | 84.0 | 91.5 | 105.5 | 120.5 | 135.5 | 150.5 | 165.5 | 180.5 | 195.5 |
| | 43.3 | 47.3 | 51.3 | 55.3 | 59.3 | 66.3 | 68.3 | 73.8 | 77.3 | 84.8 | 92.3 | 106.3 | 121.3 | 136.3 | 151.3 | 166.3 | 181.3 | 196.3 |
| 1.12 | 44.1 | 48.1 | 52.1 | 56.1 | 60.1 | 67.1 | 69.1 | 74.6 | 78.1 | 85.6 | 93.1 | 107.1 | 122.1 | 137.1 | 152.1 | 167.1 | 182.1 | 197.1 |
| | 30.7 | 34.7 | 38.7 | 42.7 | 46.7 | 53.8 | 55.8 | 61.3 | 64.8 | 72.3 | 79.8 | 93.8 | 108.8 | 123.8 | 138.8 | 153.8 | 168.8 | 183.8 |
| 1.13 | 44.9 | 48.9 | 52.9 | 56.9 | 60.9 | 67.9 | 69.9 | 75.4 | 78.9 | 86.4 | 93.9 | 107.9 | 122.9 | 137.9 | 152.9 | 167.9 | 182.9 | 197.9 |
| 1.14 | 45.7 | 49.7 | 53.7 | 57.7 | 61.7 | 68.7 | 70.7 | 76.2 | 79.7 | 87.2 | 94.7 | 108.7 | 123.7 | 138.7 | 153.7 | 168.7 | 183.7 | 198.7 |
| | 39.8 | 43.8 | 47.8 | 51.8 | 55.8 | 62.8 | 64.8 | 70.3 | 73.8 | 81.3 | 88.8 | 102.8 | 117.8 | 132.8 | 147.8 | 162.8 | 177.8 | 192.8 |
| | 33.9 | 37.9 | 41.9 | 45.9 | 49.9 | 56.9 | 58.9 | 64.4 | 67.9 | 75.4 | 82.9 | 96.9 | 111.9 | 126.9 | 141.9 | 156.9 | 171.9 | 186.9 |
| 1.15 | 41.4 | 45.4 | 49.4 | 53.4 | 57.4 | 64.4 | 66.4 | 71.9 | 75.4 | 82.9 | 90.4 | 104.4 | 119.4 | 134.4 | 149.4 | 164.4 | 179.4 | 194.4 |
| 1.16 | 42.1 | 46.1 | 50.1 | 54.1 | 58.1 | 65.1 | 67.1 | 72.6 | 76.1 | 83.6 | 91.1 | 105.1 | 120.1 | 135.1 | 150.1 | 165.1 | 180.1 | 195.1 |
| | 37.0 | 41.0 | 45.0 | 49.0 | 53.0 | 60.0 | 62.0 | 67.5 | 71.0 | 78.5 | 86.0 | 100.0 | 115.0 | 130.0 | 145.0 | 160.0 | 175.0 | 190.0 |
| 1.17 | 42.9 | 46.9 | 50.9 | 54.9 | 58.9 | 65.9 | 67.9 | 73.4 | 76.9 | 84.4 | 91.9 | 105.9 | 120.9 | 135.9 | 150.9 | 165.9 | 180.9 | 195.9 |
| 1.18 | 38.6 | 42.6 | 48.6 | 50.6 | 54.6 | 61.6 | 63.6 | 69.1 | 72.6 | 80.1 | 87.6 | 101.6 | 116.6 | 131.6 | 146.6 | 161.6 | 176.6 | 191.6 |
| | 43.7 | 47.7 | 51.7 | 55.7 | 59.7 | 66.7 | 68.7 | 74.2 | 77.7 | 85.2 | 92.7 | 106.7 | 121.7 | 136.7 | 151.7 | 166.7 | 181.7 | 196.7 |
| 1.19 | 44.5 | 48.5 | 52.5 | 56.5 | 60.5 | 67.5 | 69.5 | 75.0 | 78.5 | 86.0 | 93.5 | 107.5 | 122.5 | 137.5 | 152.5 | 167.5 | 182.5 | 197.5 |
| | 40.2 | 44.2 | 48.2 | 52.2 | 56.2 | 63.2 | 65.2 | 70.7 | 74.2 | 81.7 | 89.2 | 103.2 | 118.2 | 133.2 | 148.2 | 163.2 | 178.2 | 193.2 |
| 1.20 | 45.3 | 49.3 | 53.3 | 57.3 | 61.3 | 68.3 | 70.3 | 75.8 | 79.3 | 86.8 | 94.3 | 108.3 | 123.3 | 138.3 | 153.3 | 168.3 | 183.3 | 198.3 |
| 1.21 | 41.7 | 45.7 | 49.7 | 53.7 | 57.7 | 64.7 | 66.7 | 72.2 | 75.7 | 83.2 | 90.7 | 104.7 | 119.7 | 134.7 | 149.7 | 164.7 | 179.7 | 194.7 |
| 1.22 | 34.7 | 38.7 | 42.7 | 46.7 | 50.7 | 57.7 | 59.7 | 65.2 | 68.7 | 76.2 | 83.7 | 97.7 | 112.7 | 127.7 | 142.7 | 157.7 | 172.7 | 187.7 |
| | 42.5 | 46.5 | 50.5 | 54.5 | 58.5 | 65.5 | 67.5 | 73.0 | 76.5 | 84.0 | 91.5 | 105.5 | 120.5 | 135.5 | 150.5 | 165.5 | 180.5 | 195.5 |
| 1.23 | 39.0 | 43.0 | 47.0 | 51.0 | 55.0 | 62.0 | 64.0 | 69.5 | 73.0 | 80.5 | 88.0 | 102.0 | 117.0 | 132.0 | 147.0 | 162.0 | 177.0 | 192.0 |
| 1.24 | 43.3 | 47.3 | 51.3 | 55.3 | 59.3 | 66.3 | 68.3 | 73.8 | 77.3 | 84.8 | 92.3 | 106.3 | 121.3 | 136.3 | 151.3 | 166.3 | 181.3 | 196.3 |
| | 29.1 | 33.1 | 37.1 | 41.1 | 45.1 | 52.2 | 54.2 | 59.7 | 63.2 | 70.7 | 78.2 | 92.2 | 107.2 | 122.2 | 137.2 | 152.2 | 167.2 | 182.2 |
| 1.25 | 40.6 | 44.6 | 48.6 | 52.6 | 56.6 | 63.6 | 65.6 | 71.1 | 74.6 | 82.1 | 89.6 | 103.6 | 118.6 | 133.6 | 148.6 | 163.6 | 178.6 | 193.6 |
| | 44.1 | 48.1 | 52.1 | 56.1 | 60.1 | 67.1 | 69.1 | 74.6 | 78.1 | 85.6 | 93.1 | 107.1 | 122.1 | 137.1 | 152.1 | 167.1 | 182.1 | 197.1 |
| 1.26 | 37.8 | 41.8 | 45.8 | 49.8 | 53.8 | 60.8 | 62.8 | 68.3 | 71.8 | 79.3 | 86.8 | 100.8 | 115.8 | 130.8 | 145.8 | 160.8 | 175.8 | 190.8 |
| 1.27 | 44.9 | 48.9 | 52.9 | 56.9 | 60.9 | 67.9 | 69.9 | 75.4 | 78.9 | 86.4 | 93.9 | 107.9 | 122.9 | 137.9 | 152.9 | 167.9 | 182.9 | 197.9 |
| 1.28 | 32.3 | 36.3 | 40.3 | 44.3 | 48.3 | 55.3 | 57.3 | 62.8 | 66.3 | 73.8 | 81.3 | 95.3 | 110.3 | 125.3 | 140.3 | 155.3 | 170.3 | 185.3 |
| | 42.1 | 46.1 | 50.1 | 54.1 | 58.1 | 65.1 | 67.1 | 72.6 | 76.1 | 83.6 | 91.1 | 105.1 | 120.1 | 135.1 | 150.1 | 165.1 | 180.1 | 195.1 |
| 1.29 | 39.4 | 43.4 | 47.4 | 51.4 | 55.4 | 62.4 | 64.4 | 69.9 | 73.4 | 80.9 | 88.4 | 102.4 | 117.4 | 132.4 | 147.4 | 162.4 | 177.4 | 192.4 |
| 1.30 | 42.9 | 46.9 | 50.9 | 54.9 | 58.9 | 65.9 | 67.9 | 73.4 | 76.9 | 84.4 | 91.9 | 105.9 | 120.9 | 135.9 | 150.9 | 165.9 | 180.9 | 195.9 |
| 1.32 | 43.7 | 47.7 | 51.7 | 55.7 | 59.7 | 66.7 | 68.7 | 74.2 | 77.7 | 85.2 | 92.7 | 106.7 | 121.7 | 136.7 | 151.7 | 166.7 | 181.7 | 196.7 |
| | 40.9 | 44.9 | 48.9 | 52.9 | 56.9 | 63.9 | 65.9 | 71.4 | 74.9 | 82.5 | 90.0 | 104.0 | 119.0 | 134.0 | 149.0 | 164.0 | 179.0 | 194.0 |
| | 38.2 | 42.2 | 46.2 | 50.2 | 54.2 | 61.2 | 63.2 | 68.7 | 72.2 | 79.7 | 87.2 | 101.2 | 116.2 | 131.2 | 146.2 | 161.2 | 176.2 | 191.2 |
| | 35.4 | 39.4 | 43.4 | 47.4 | 51.4 | 58.4 | 60.4 | 65.9 | 69.4 | 76.9 | 84.4 | 98.4 | 113.5 | 128.5 | 143.5 | 158.5 | 173.5 | 188.5 |
| 1.34 | 44.5 | 48.5 | 52.5 | 56.5 | 60.5 | 67.5 | 69.5 | 75.0 | 78.5 | 86.0 | 93.5 | 107.5 | 122.5 | 137.5 | 152.5 | 167.5 | 182.5 | 197.5 |
| 1.35 | 39.7 | 43.8 | 47.8 | 51.8 | 55.8 | 62.8 | 64.8 | 70.3 | 73.8 | 81.3 | 88.8 | 102.8 | 117.8 | 132.8 | 147.8 | 162.8 | 177.8 | 192.8 |
| 1.36 | 42.5 | 46.5 | 50.5 | 54.5 | 58.5 | 65.5 | 67.5 | 73.0 | 76.5 | 84.0 | 91.5 | 105.5 | 120.5 | 135.5 | 150.5 | 165.5 | 180.5 | 195.5 |
| 1.37 | 33.0 | 37.0 | 41.0 | 45.0 | 49.1 | 56.1 | 58.1 | 63.6 | 67.1 | 74.6 | 82.1 | 96.1 | 111.1 | 126.1 | 141.1 | 156.1 | 171.1 | 186.1 |
| 1.38 | 43.3 | 47.3 | 51.3 | 55.3 | 59.3 | 66.3 | 68.3 | 73.8 | 77.3 | 84.8 | 92.3 | 106.3 | 121.3 | 136.3 | 151.3 | 166.3 | 181.3 | 196.3 |
| | **0.94** | **0.95** | **0.97** | **0.98** | **0.99** | **1.02** | **1.03** | **1.04** | **1.05** | **1.06** | **1.08** | **1.11** | **1.14** | **1.16** | **1.18** | **1.20** | **1.22** | **1.24** |

# Selection

## Stock Drive Selection

| C | S-L CLASSIC |
|---|---|

| CX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Size/Center Distance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | C51 | C60 | C68 | C75 | C81 | C85 | C90 | C96 | C105 |
| | Driver | Driven | RPM | C | CX | RPM | C | CX | RPM | C | CX | CX51 | CX60 | CX68 | CX75 | CX81 | CX85 | CX90 | CX96 | CX105 |
| **1.38** | 10.0 | 14.0 | 1264 | 24.12 | 29.40 | 838 | 19.25 | 22.50 | 628 | 15.66 | 18.07 | – | 12.4 | 16.5 | 20.0 | 23.0 | 25.0 | 27.5 | 30.5 | 35.1 |
| **1.39** | 8.5 | 12.0 | 1256 | 19.26 | 25.29 | 833 | 15.14 | 19.01 | 624 | 12.29 | 15.20 | 10.7 | 15.3 | 19.3 | 22.8 | 25.8 | 27.8 | 30.3 | 33.3 | 37.8 |
| **1.41** | 7.0 | 10.0 | 1245 | 13.74 | 20.63 | 825 | 10.79 | 15.31 | 619 | 8.80 | 12.21 | 13.5 | 18.0 | 22.1 | 25.6 | 28.6 | 30.6 | 33.1 | 36.1 | 40.6 |
| **1.42** | 14.0 | 20.0 | 1235 | 33.44 | 37.38 | 819 | 28.99 | 30.75 | 614 | 24.03 | 25.19 | – | – | – | – | – | – | 19.5 | 22.6 | 27.1 |
| **1.43** | 9.0 | 13.0 | 1228 | 21.00 | 26.77 | 814 | 16.57 | 20.23 | 610 | 13.46 | 16.20 | – | 14.0 | 18.1 | 21.6 | 24.6 | 26.6 | 29.1 | 32.1 | 36.6 |
| **1.44** | 11.0 | 16.0 | 1216 | 27.05 | 31.90 | 806 | 21.91 | 24.76 | 605 | 17.88 | 19.96 | – | – | 14.0 | 17.6 | 20.6 | 22.6 | 25.1 | 28.1 | 32.7 |
| | 7.5 | 11.0 | 1213 | 15.71 | 22.30 | 804 | 12.30 | 16.61 | 603 | 10.01 | 13.25 | 12.3 | 16.8 | 20.9 | 24.4 | 27.4 | 29.4 | 31.9 | 34.9 | 39.4 |
| **1.45** | 9.5 | 14.0 | 1203 | 22.67 | 28.19 | 797 | 17.97 | 21.42 | 598 | 14.60 | 17.17 | – | 12.8 | 16.9 | 20.4 | 23.4 | 25.4 | 27.9 | 30.9 | 35.4 |
| **1.47** | 7.0 | 10.5 | 1188 | 13.83 | 20.71 | 788 | 10.85 | 15.37 | 591 | 8.84 | 12.25 | 13.1 | 17.6 | 21.6 | 25.2 | 28.2 | 30.2 | 32.7 | 35.7 | 40.2 |
| **1.48** | 8.0 | 12.0 | 1185 | 17.59 | 23.90 | 786 | 13.78 | 17.87 | 589 | 11.19 | 14.27 | 11.1 | 15.6 | 19.6 | 23.2 | 26.2 | 28.2 | 30.7 | 33.7 | 38.2 |
| | 12.0 | 18.0 | 1179 | 29.61 | 34.09 | 782 | 24.43 | 26.90 | 596 | 20.02 | 21.79 | – | – | – | 15.1 | 18.2 | 20.2 | 22.7 | 25.7 | 30.3 |
| **1.49** | 16.0 | 24.0 | 1176 | – | – | 780 | 33.13 | 34.26 | 585 | 27.88 | 28.45 | – | – | – | – | – | – | – | – | 22.2 |
| **1.50** | 10.5 | 16.0 | 1163 | 25.74 | 30.80 | 771 | 20.67 | 23.72 | 578 | 16.83 | 19.08 | – | – | 14.4 | 17.9 | 21.0 | 23.0 | 25.5 | 28.5 | 33.0 |
| **1.51** | 8.5 | 13.0 | 1162 | 19.39 | 25.43 | 770 | 15.23 | 19.10 | 578 | 12.36 | 15.27 | – | 14.4 | 18.4 | 22.0 | 25.0 | 27.0 | 29.5 | 32.5 | 37.0 |
| **1.52** | 13.0 | 20.0 | 1150 | 31.80 | 35.97 | 762 | 26.83 | 28.93 | 571 | 22.10 | 23.55 | – | – | – | – | – | 17.7 | 20.2 | 23.3 | 27.8 |
| **1.53** | 9.0 | 14.0 | 1142 | 21.12 | 26.89 | 757 | 16.65 | 20.31 | 568 | 13.51 | 16.25 | – | 13.2 | 17.2 | 20.7 | 23.8 | 25.8 | 28.3 | 31.3 | 35.8 |
| **1.54** | 7.0 | 11.0 | 1136 | 13.90 | 20.78 | 753 | 10.89 | 15.41 | 565 | 8.87 | 12.28 | 12.7 | 17.2 | 21.2 | 24.7 | 27.7 | 29.8 | 32.3 | 35.3 | 39.8 |
| **1.57** | 7.5 | 12.0 | 1115 | 15.83 | 22.42 | 739 | 12.39 | 16.69 | 554 | 10.07 | 13.31 | 11.4 | 16.0 | 20.0 | 23.5 | 26.5 | 28.6 | 31.1 | 34.1 | 38.6 |
| **1.58** | 10.0 | 16.0 | 1110 | 24.33 | 29.62 | 735 | 19.39 | 22.64 | 552 | 15.77 | 18.18 | – | – | 14.7 | 18.3 | 21.3 | 23.3 | 25.9 | 28.9 | 33.4 |
| **1.60** | 8.0 | 13.0 | 1097 | 17.69 | 24.00 | 727 | 13.85 | 17.94 | 545 | 11.25 | 14.32 | – | 14.8 | 18.8 | 22.3 | 25.3 | 27.4 | 29.9 | 32.9 | 37.4 |
| **1.61** | 11.0 | 18.0 | 1084 | 27.21 | 32.06 | 719 | 22.01 | 24.87 | 539 | 17.96 | 20.04 | – | – | – | 15.8 | 18.9 | 20.9 | 23.4 | 26.5 | 31.0 |
| **1.62** | 8.5 | 14.0 | 1082 | 19.48 | 25.52 | 717 | 15.29 | 19.16 | 538 | 12.41 | 15.31 | – | 13.5 | 17.6 | 21.1 | 24.1 | 26.1 | 28.7 | 31.7 | 36.2 |
| **1.65** | 12.0 | 20.0 | 1064 | 29.74 | 34.22 | 705 | 24.52 | 26.99 | 529 | 20.08 | 21.85 | – | – | – | – | 16.3 | 18.4 | 20.9 | 24.0 | 28.5 |
| **1.66** | 9.5 | 16.0 | 1056 | 22.83 | 28.36 | 700 | 18.08 | 21.53 | 525 | 14.68 | 17.26 | – | – | 15.1 | 18.6 | 21.7 | 23.7 | 26.2 | 29.3 | 33.8 |
| **1.67** | 16.0 | 27.0 | 1047 | – | – | 694 | 33.22 | 34.36 | 521 | 27.95 | 28.52 | – | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.75** | **0.79** | **0.82** | **0.84** | **0.86** | **0.87** | **0.88** | **0.90** | **0.92** |
| **1.68** | 7.0 | 12.0 | 1044 | 13.99 | 20.87 | 692 | 10.95 | 15.48 | 519 | 8.92 | 12.33 | 11.8 | 16.3 | 20.4 | 23.9 | 26.9 | 28.9 | 31.4 | 34.4 | 39.0 |
| **1.69** | 10.5 | 18.0 | 1037 | 25.87 | 30.93 | 687 | 20.75 | 23.80 | 515 | 16.90 | 19.15 | – | – | – | 16.1 | 19.2 | 21.2 | 23.8 | 26.8 | 31.4 |
| | 14.0 | 24.0 | 1033 | 33.67 | 37.62 | 685 | 29.15 | 30.91 | 513 | 24.15 | 25.31 | – | – | – | – | – | – | – | – | 23.6 |
| **1.70** | 7.5 | 13.0 | 1032 | 15.91 | 22.50 | 684 | 12.44 | 16.74 | 513 | 10.11 | 13.35 | 10.5 | 15.1 | 19.2 | 22.7 | 25.7 | 27.7 | 30.2 | 33.2 | 37.8 |
| **1.71** | 8.0 | 14.0 | 1021 | 17.76 | 24.07 | 677 | 13.90 | 17.99 | 507 | 11.28 | 14.35 | – | 13.9 | 17.9 | 21.5 | 24.5 | 26.5 | 29.0 | 32.0 | 36.6 |
| **1.74** | 9.0 | 16.0 | 1003 | 21.25 | 27.02 | 665 | 16.73 | 20.40 | 499 | 13.56 | 16.32 | – | – | 15.4 | 19.0 | 22.0 | 24.1 | 26.6 | 29.6 | 34.1 |
| **1.77** | 10.0 | 18.0 | 989 | 24.44 | 29.72 | 656 | 19.46 | 22.71 | 492 | 15.82 | 18.23 | – | – | – | 16.5 | 19.6 | 21.6 | 24.1 | 27.2 | 31.7 |
| **1.79** | 11.0 | 20.0 | 978 | 27.30 | 32.15 | 648 | 22.07 | 24.93 | 486 | 18.00 | 20.09 | – | – | – | – | 17.0 | 19.1 | 21.6 | 24.7 | 29.3 |
| **1.81** | 7.0 | 13.0 | 966 | 14.05 | 20.93 | 641 | 10.99 | 15.52 | 480 | 8.95 | 12.36 | 10.8 | 15.5 | 19.5 | 23.1 | 26.1 | 28.1 | 30.6 | 33.6 | 38.1 |
| **1.82** | 13.0 | 24.0 | 961 | 31.97 | 36.15 | 637 | 26.94 | 29.05 | 478 | 22.18 | 23.64 | – | – | – | – | – | – | – | 19.6 | 24.3 |
| | 7.5 | 14.0 | 960 | 15.97 | 22.56 | 636 | 12.47 | 16.78 | 477 | 10.14 | 13.38 | – | 14.2 | 18.3 | 21.8 | 24.9 | 26.9 | 29.4 | 32.4 | 36.9 |
| **1.84** | 8.5 | 16.0 | 950 | 19.59 | 25.62 | 630 | 15.36 | 19.23 | 472 | 12.46 | 15.37 | – | – | 15.8 | 19.4 | 22.4 | 24.4 | 27.0 | 30.0 | 34.5 |
| **1.85** | 16.0 | 30.0 | 944 | – | – | 626 | 33.27 | 34.41 | 469 | 27.98 | 28.56 | – | – | – | – | – | – | – | – | – |
| **1.86** | 9.5 | 18.0 | 942 | 22.92 | 28.44 | 624 | 18.14 | 21.59 | 468 | 14.73 | 17.30 | – | – | – | 16.8 | 19.9 | 22.0 | 24.5 | 27.5 | 32.1 |
| **1.87** | 10.5 | 20.0 | 935 | 25.94 | 31.01 | 620 | 20.80 | 23.85 | 465 | 16.93 | 19.18 | – | – | – | – | 17.4 | 19.4 | 22.0 | 25.1 | 29.6 |
| **1.90** | 14.0 | 27.0 | 920 | 33.75 | 37.70 | 610 | 29.20 | 30.96 | 457 | 24.19 | 25.35 | – | – | – | – | – | – | – | – | 20.7 |
| **1.95** | 7.0 | 14.0 | 899 | 14.09 | 20.97 | 596 | 11.02 | 15.54 | 447 | 8.97 | 12.38 | – | 14.5 | 18.6 | 22.2 | 25.2 | 27.2 | 29.8 | 32.8 | 37.3 |
| | 8.0 | 16.0 | 896 | 17.85 | 24.15 | 594 | 13.95 | 18.04 | 446 | 11.32 | 14.40 | – | – | 16.1 | 19.7 | 22.8 | 24.8 | 27.3 | 30.3 | 34.9 |
| **1.96** | 9.0 | 18.0 | 894 | 21.32 | 27.10 | 593 | 16.78 | 20.44 | 444 | 13.61 | 16.36 | – | – | 13.5 | 17.2 | 20.3 | 22.3 | 24.8 | 27.9 | 32.4 |
| | 10.0 | 20.0 | 892 | 24.60 | 29.79 | 591 | 19.50 | 22.75 | 444 | 15.85 | 18.26 | – | – | – | – | 17.7 | 19.8 | 22.3 | 25.4 | 30.0 |
| **1.97** | 12.0 | 24.0 | 889 | 29.87 | 34.35 | 590 | 24.60 | 27.07 | 442 | 20.15 | 21.92 | – | – | – | – | – | – | – | 20.3 | 25.0 |
| **2.04** | 13.0 | 27.0 | 856 | 32.03 | 36.21 | 567 | 26.98 | 29.09 | 425 | 22.21 | 23.67 | – | – | – | – | – | – | – | – | 21.4 |
| **2.06** | 9.5 | 20.0 | 849 | 22.97 | 28.50 | 563 | 18.17 | 21.63 | 422 | 14.75 | 17.33 | – | – | – | 14.9 | 18.0 | 20.1 | 22.7 | 25.8 | 30.3 |
| **2.07** | 8.5 | 18.0 | 846 | 19.65 | 25.68 | 561 | 15.40 | 19.27 | 421 | 12.49 | 15.39 | – | – | 13.8 | 17.5 | 20.6 | 22.6 | 25.2 | 28.2 | 32.8 |
| **2.08** | 7.5 | 16.0 | 843 | 16.03 | 22.62 | 559 | 12.52 | 16.82 | 419 | 10.17 | 13.41 | – | 12.3 | 16.5 | 20.1 | 23.1 | 25.1 | 27.7 | 30.7 | 35.2 |
| **2.11** | 14.0 | 30.0 | 829 | 33.80 | 37.74 | 549 | 29.24 | 30.99 | 412 | 24.22 | 25.37 | – | – | – | – | – | – | – | – | – |
| **2.14** | 11.0 | 24.0 | 818 | 27.39 | 32.24 | 542 | 22.13 | 24.99 | 406 | 18.05 | 20.13 | – | – | – | – | – | – | 17.8 | 21.0 | 25.7 |
| **2.17** | 9.0 | 20.0 | 806 | 21.37 | 27.14 | 535 | 16.81 | 20.47 | 401 | 13.64 | 16.38 | – | – | – | 15.2 | 18.4 | 20.4 | 23.0 | 26.1 | 30.7 |
| **2.19** | 8.0 | 18.0 | 799 | 17.89 | 24.20 | 530 | 13.98 | 18.07 | 397 | 11.34 | 14.42 | – | – | 14.2 | 17.8 | 20.9 | 23.0 | 25.6 | 28.6 | 33.2 |
| **2.21** | 12.0 | 27.0 | 792 | 29.91 | 34.39 | 525 | 24.63 | 27.10 | 394 | 20.17 | 21.94 | – | – | – | – | – | – | – | – | 22.1 |
| **2.22** | 7.0 | 16.0 | 790 | 14.14 | 21.03 | 523 | 11.05 | 15.58 | 393 | 9.00 | 12.41 | – | 12.6 | 16.8 | 20.4 | 23.5 | 25.5 | 28.0 | 31.1 | 35.6 |
| | 16.0 | 36.0 | 788 | – | – | 523 | 33.33 | 34.46 | 392 | 28.02 | 28.59 | – | – | – | – | – | – | – | – | – |
| **2.24** | 10.5 | 24.0 | 782 | 26.02 | 31.08 | 518 | 20.85 | 23.90 | 389 | 16.97 | 19.22 | – | – | – | – | – | – | 18.1 | 21.3 | 26.0 |
| **2.27** | 13.0 | 30.0 | 771 | 32.07 | 36.24 | 511 | 27.01 | 29.11 | 383 | 2223 | 23.69 | – | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | **0.74** | **0.78** | **0.81** | **0.83** | **0.85** | **0.86** | **0.88** | **0.89** | **0.91** |

# Selection

## Stock Drive Selection

| C | S-L CLASSIC |
|---|---|

| CX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C112 | C120 | C128 | C136 | C144 | C158 | C162 | C173 | C180 | C195 | C210 | C240 | C270 | C300 | C330 | C360 | C390 | C420 |
| | CX112 | CX120 | CX128 | CX136 | CX144 | CX158 | CX162 | CX173 | CX180 | CX195 | CX210 | CX240 | CX270 | CX300 | CX330 | CX360 | CX390 | CX420 |
| **1.38** | 38.6 | 42.6 | 46.6 | 50.6 | 54.6 | 61.6 | 63.6 | 69.1 | 72.6 | 80.1 | 87.6 | 101.6 | 116.6 | 131.6 | 146.6 | 161.6 | 176.6 | 191.6 |
| **1.39** | 41.3 | 45.3 | 49.3 | 53.3 | 57.3 | 64.3 | 66.3 | 71.8 | 75.3 | 82.8 | 90.3 | 104.3 | 119.3 | 134.3 | 149.3 | 164.3 | 179.3 | 194.3 |
| **1.41** | 44.1 | 48.1 | 52.1 | 56.1 | 60.1 | 67.1 | 69.1 | 74.6 | 78.1 | 85.6 | 93.1 | 107.1 | 122.1 | 137.1 | 152.1 | 167.1 | 182.1 | 197.1 |
| **1.42** | 30.6 | 34.6 | 38.6 | 42.7 | 46.7 | 53.7 | 55.7 | 61.2 | 64.7 | 72.2 | 79.7 | 93.7 | 108.7 | 123.7 | 138.7 | 153.7 | 168.7 | 183.7 |
| **1.43** | 40.1 | 44.1 | 48.1 | 52.1 | 56.1 | 63.1 | 65.1 | 70.7 | 74.2 | 81.7 | 89.2 | 103.2 | 118.2 | 133.2 | 148.2 | 163.2 | 178.2 | 193.2 |
| **1.44** | 36.2 | 40.2 | 44.2 | 48.2 | 52.2 | 59.2 | 61.2 | 66.7 | 70.2 | 77.7 | 85.2 | 99.2 | 114.2 | 129.2 | 144.2 | 159.2 | 174.2 | 189.2 |
| | 42.9 | 46.9 | 50.9 | 54.9 | 58.9 | 65.9 | 67.9 | 73.4 | 76.9 | 84.4 | 91.9 | 105.9 | 120.9 | 135.9 | 150.9 | 165.9 | 180.9 | 195.9 |
| **1.45** | 38.9 | 42.9 | 46.9 | 51.0 | 55.0 | 62.0 | 64.0 | 69.5 | 73.0 | 80.5 | 88.0 | 102.0 | 117.0 | 132.0 | 147.0 | 162.0 | 177.0 | 192.0 |
| **1.47** | 43.7 | 47.7 | 51.7 | 56.7 | 59.7 | 66.7 | 68.7 | 74.2 | 77.7 | 85.2 | 92.7 | 106.7 | 121.7 | 136.7 | 151.7 | 166.7 | 181.7 | 196.7 |
| **1.48** | 41.7 | 45.7 | 49.7 | 53.7 | 57.7 | 64.7 | 66.7 | 72.2 | 75.7 | 83.2 | 90.7 | 104.7 | 119.7 | 134.7 | 149.7 | 164.7 | 179.7 | 194.7 |
| | 33.8 | 37.8 | 41.8 | 45.8 | 49.8 | 56.8 | 58.8 | 64.3 | 67.8 | 75.3 | 82.8 | 96.9 | 111.9 | 126.9 | 141.9 | 156.9 | 171.9 | 185.9 |
| **1.49** | 25.7 | 29.8 | 33.8 | 37.8 | 41.9 | 48.9 | 50.9 | 56.4 | 59.9 | 67.4 | 74.9 | 89.0 | 104.0 | 119.0 | 134.0 | 149.0 | 164.0 | 179.0 |
| **1.50** | 36.5 | 40.6 | 44.6 | 48.6 | 52.6 | 59.6 | 61.6 | 67.1 | 70.6 | 78.1 | 85.6 | 99.6 | 114.6 | 129.6 | 144.6 | 159.6 | 174.6 | 189.6 |
| **1.51** | 40.5 | 44.5 | 48.5 | 52.5 | 56.5 | 63.5 | 65.5 | 71.0 | 74.5 | 82.0 | 89.5 | 103.5 | 118.6 | 133.6 | 148.6 | 163.6 | 178.6 | 193.6 |
| **1.52** | 31.3 | 35.4 | 39.4 | 43.4 | 47.4 | 54.4 | 56.4 | 61.9 | 65.5 | 73.0 | 80.5 | 94.5 | 109.5 | 124.5 | 139.5 | 154.5 | 169.5 | 184.5 |
| **1.53** | 39.3 | 43.3 | 47.3 | 51.3 | 55.3 | 62.3 | 64.3 | 69.9 | 73.4 | 80.9 | 88.4 | 102.4 | 117.4 | 132.4 | 147.4 | 162.4 | 177.4 | 192.4 |
| **1.54** | 43.3 | 47.3 | 51.3 | 58.3 | 59.3 | 56.3 | 68.3 | 73.8 | 77.3 | 84.8 | 92.3 | 106.3 | 121.3 | 136.3 | 151.3 | 166.3 | 181.3 | 196.3 |
| **1.57** | 42.1 | 46.1 | 50.1 | 54.1 | 58.1 | 65.1 | 67.1 | 72.6 | 76.1 | 83.6 | 91.1 | 105.1 | 120.1 | 135.1 | 150.1 | 165.1 | 180.1 | 195.1 |
| **1.58** | 36.9 | 40.9 | 44.9 | 48.9 | 53.0 | 60.0 | 62.0 | 67.5 | 71.0 | 78.5 | 86.0 | 100.0 | 115.0 | 130.0 | 145.0 | 160.0 | 175.0 | 190.0 |
| **1.60** | 40.9 | 44.9 | 48.9 | 52.9 | 56.9 | 63.9 | 65.9 | 71.4 | 74.9 | 82.4 | 89.9 | 103.9 | 118.9 | 133.9 | 148.9 | 163.9 | 178.9 | 193.9 |
| **1.61** | 34.5 | 38.5 | 42.5 | 46.6 | 50.6 | 57.6 | 59.6 | 65.1 | 68.6 | 76.1 | 83.6 | 97.6 | 112.6 | 127.6 | 142.6 | 157.6 | 172.6 | 187.7 |
| **1.62** | 39.7 | 43.7 | 47.7 | 51.7 | 55.7 | 62.7 | 64.7 | 70.2 | 73.7 | 81.2 | 88.7 | 102.8 | 117.8 | 132.8 | 147.8 | 162.8 | 177.8 | 192.8 |
| **1.65** | 32.1 | 36.1 | 40.1 | 44.1 | 48.2 | 55.2 | 57.2 | 62.7 | 66.2 | 73.7 | 81.2 | 95.2 | 110.3 | 125.3 | 140.3 | 155.3 | 170.3 | 185.3 |
| **1.66** | 37.3 | 41.3 | 45.3 | 49.3 | 53.3 | 60.3 | 62.3 | 67.9 | 71.4 | 78.9 | 86.4 | 100.4 | 115.4 | 130.4 | 145.4 | 160.4 | 175.4 | 190.4 |
| **1.67** | 23.0 | 27.1 | 31.2 | 35.3 | 39.3 | 46.4 | 48.4 | 53.9 | 57.4 | 65.0 | 72.5 | 86.5 | 101.5 | 116.6 | 131.6 | 146.6 | 161.6 | 176.6 |
| | **0.94** | **0.95** | **0.97** | **0.98** | **0.99** | **1.01** | **1.02** | **1.03** | **1.04** | **1.06** | **1.08** | **1.11** | **1.03** | **1.16** | **1.18** | **1.20** | **1.22** | **1.24** |
| **1.66** | 42.5 | 46.5 | 50.5 | 54.5 | 58.5 | 65.5 | 67.5 | 73.0 | 76.5 | 84.0 | 91.5 | 105.5 | 120.5 | 135.5 | 150.5 | 165.5 | 180.5 | 195.5 |
| **1.69** | 34.9 | 38.9 | 42.9 | 46.9 | 50.9 | 58.0 | 60.0 | 65.5 | 69.0 | 76.5 | 84.0 | 98.0 | 113.0 | 128.0 | 143.0 | 158.0 | 173.0 | 188.0 |
| | 27.2 | 31.2 | 35.3 | 39.3 | 43.3 | 50.4 | 52.4 | 57.9 | 61.4 | 68.9 | 76.5 | 90.5 | 105.5 | 120.5 | 135.5 | 150.5 | 165.5 | 180.6 |
| **1.70** | 41.3 | 45.3 | 49.3 | 53.3 | 57.3 | 64.3 | 66.3 | 71.8 | 75.3 | 82.8 | 90.3 | 104.3 | 119.3 | 134.3 | 149.3 | 164.3 | 179.3 | 194.3 |
| **1.71** | 40.1 | 44.1 | 48.1 | 52.1 | 56.1 | 63.1 | 65.1 | 70.6 | 74.1 | 81.6 | 89.1 | 103.1 | 118.1 | 133.1 | 148.1 | 163.2 | 178.2 | 193.2 |
| **1.74** | 37.7 | 41.7 | 45.7 | 49.7 | 53.7 | 60.7 | 62.7 | 68.2 | 71.7 | 79.2 | 86.8 | 100.8 | 115.8 | 130.8 | 145.8 | 160.8 | 175.8 | 190.8 |
| **1.77** | 35.2 | 39.3 | 43.3 | 47.3 | 51.3 | 58.3 | 60.3 | 65.8 | 69.4 | 76.9 | 84.4 | 98.4 | 113.4 | 128.4 | 143.4 | 158.4 | 173.4 | 188.4 |
| **1.79** | 32.8 | 36.8 | 40.9 | 44.9 | 48.9 | 55.9 | 57.9 | 63.5 | 67.0 | 74.5 | 82.0 | 96.0 | 111.0 | 126.0 | 141.0 | 156.1 | 171.1 | 186.1 |
| **1.81** | 41.6 | 45.7 | 49.7 | 53.7 | 57.7 | 64.7 | 66.7 | 72.2 | 75.7 | 83.2 | 90.7 | 104.7 | 119.7 | 134.7 | 149.7 | 164.7 | 179.7 | 194.7 |
| **1.82** | 27.9 | 31.9 | 36.0 | 40.0 | 44.1 | 51.1 | 53.1 | 58.6 | 62.2 | 69.7 | 77.2 | 91.2 | 106.3 | 121.3 | 136.3 | 151.3 | 166.3 | 181.3 |
| | 40.4 | 44.5 | 48.5 | 52.5 | 56.5 | 63.5 | 65.5 | 71.0 | 74.5 | 82.0 | 89.5 | 103.5 | 118.5 | 133.5 | 148.5 | 163.5 | 178.5 | 193.5 |
| **1.84** | 38.0 | 42.1 | 46.1 | 50.1 | 54.1 | 61.1 | 63.1 | 58.6 | 72.1 | 79.6 | 87.1 | 101.1 | 116.2 | 131.2 | 146.2 | 161.2 | 176.2 | 191.2 |
| **1.85** | --- | 24.3 | 28.5 | 32.6 | 36.7 | 43.8 | 45.8 | 51.4 | 54.9 | 62.4 | 70.0 | 84.0 | 99.1 | 114.1 | 129.2 | 144.2 | 159.2 | 174.2 |
| **1.86** | 35.6 | 39.6 | 43.7 | 47.7 | 51.7 | 58.7 | 60.7 | 56.2 | 69.7 | 77.2 | 84.8 | 98.8 | 113.8 | 128.8 | 143.8 | 158.8 | 173.8 | 188.8 |
| **1.87** | 33.2 | 37.2 | 41.2 | 45.3 | 49.3 | 56.3 | 58.3 | 63.8 | 67.3 | 74.9 | 82.4 | 96.4 | 111.4 | 126.4 | 141.4 | 156.4 | 171.4 | 186.4 |
| **1.90** | 24.4 | 28.5 | 32.6 | 36.7 | 40.7 | 47.8 | 49.8 | 55.4 | 58.9 | 66.4 | 74.0 | 88.0 | 103.1 | 118.1 | 133.1 | 148.1 | 163.1 | 178.1 |
| **1.95** | 40.8 | 44.8 | 48.8 | 52.8 | 56.9 | 63.9 | 65.9 | 71.4 | 74.9 | 82.4 | 89.9 | 103.9 | 118.9 | 133.9 | 148.9 | 163.9 | 178.9 | 193.9 |
| | 38.4 | 42.4 | 46.4 | 50.5 | 54.5 | 61.5 | 63.5 | 69.0 | 72.5 | 80.0 | 87.5 | 101.5 | 116.5 | 131.5 | 146.6 | 161.6 | 176.6 | 191.6 |
| **1.96** | 36.0 | 40.0 | 44.0 | 48.0 | 52.1 | 59.1 | 61.1 | 66.6 | 70.1 | 77.6 | 85.1 | 99.2 | 114.2 | 129.2 | 144.2 | 159.2 | 174.2 | 189.2 |
| | 33.5 | 37.6 | 41.6 | 45.6 | 49.6 | 56.7 | 58.7 | 64.2 | 67.7 | 75.2 | 82.7 | 96.8 | 111.8 | 126.8 | 141.8 | 156.8 | 171.8 | 186.8 |
| **1.97** | 28.6 | 32.6 | 36.7 | 40.7 | 44.8 | 51.8 | 53.9 | 59.4 | 62.9 | 70.4 | 78.0 | 92.0 | 107.0 | 122.0 | 137.1 | 152.1 | 167.1 | 182.1 |
| **2.04** | 25.1 | 29.2 | 33.3 | 37.4 | 41.5 | 48.5 | 50.6 | 56.1 | 59.6 | 67.2 | 74.7 | 88.8 | 103.8 | 118.8 | 133.9 | 148.9 | 163.9 | 178.9 |
| **2.06** | 32.9 | 37.9 | 42.0 | 46.0 | 50.0 | 57.1 | 59.1 | 64.6 | 68.1 | 75.6 | 83.1 | 97.2 | 112.2 | 127.2 | 142.2 | 157.2 | 172.2 | 187.2 |
| **2.07** | 36.3 | 40.4 | 44.4 | 48.4 | 52.4 | 59.5 | 61.5 | 67.0 | 70.5 | 78.0 | 85.5 | 99.5 | 114.5 | 129.6 | 144.6 | 159.6 | 174.6 | 189.6 |
| **2.06** | 38.8 | 42.8 | 46.8 | 50.8 | 54.8 | 61.9 | 63.9 | 69.4 | 72.9 | 80.4 | 87.9 | 101.9 | 116.9 | 131.9 | 146.9 | 161.9 | 177.0 | 192.0 |
| **2.11** | --- | 25.7 | 29.8 | 34.0 | 38.1 | 45.2 | 47.2 | 52.8 | 56.3 | 63.9 | 71.5 | 85.5 | 100.6 | 115.6 | 130.7 | 145.7 | 160.7 | 175.7 |
| **2.14** | 29.3 | 33.3 | 37.4 | 41.5 | 45.5 | 52.6 | 54.6 | 60.1 | 63.6 | 71.2 | 78.7 | 92.7 | 107.8 | 122.8 | 137.8 | 152.8 | 167.8 | 182.9 |
| **2.17** | 34.2 | 38.3 | 42.3 | 46.4 | 50.4 | 57.4 | 59.4 | 65.0 | 68.5 | 76.0 | 83.5 | 97.5 | 112.6 | 127.6 | 142.6 | 157.6 | 172.6 | 187.6 |
| **2.19** | 36.7 | 40.7 | 44.8 | 48.8 | 52.8 | 59.8 | 61.8 | 67.4 | 70.9 | 78.4 | 85.9 | 99.9 | 114.9 | 129.9 | 145.0 | 160.0 | 175.0 | 190.0 |
| **2.21** | 25.7 | 29.9 | 34.0 | 38.1 | 42.2 | 49.3 | 51.3 | 56.8 | 60.4 | 67.9 | 75.5 | 89.5 | 104.6 | 119.6 | 134.6 | 149.6 | 164.7 | 179.7 |
| **2.22** | 39.1 | 43.2 | 47.2 | 51.2 | 55.2 | 62.2 | 64.2 | 69.7 | 73.3 | 80.8 | 88.3 | 102.3 | 117.3 | 132.3 | 147.3 | 162.3 | 177.3 | 192.3 |
| | – | – | – | 26.8 | 31.0 | 38.3 | 40.4 | 46.0 | 49.6 | 57.3 | 64.9 | 79.0 | 94.1 | 109.2 | 124.2 | 139.3 | 154.3 | 169.3 |
| **2.24** | 29.6 | 33.7 | 37.8 | 41.8 | 45.9 | 52.9 | 56.0 | 60.5 | 64.0 | 71.5 | 79.1 | 93.1 | 108.2 | 123.2 | 138.2 | 153.2 | 168.2 | 183.2 |
| **2.27** | 22.1 | 26.3 | 30.5 | 34.7 | 38.8 | 45.9 | 47.9 | 53.5 | 57.1 | 64.6 | 72.2 | 86.3 | 101.3 | 116.4 | 131.4 | 146.4 | 161.5 | 176.5 |
| | **0.93** | **0.95** | **0.96** | **0.97** | **0.99** | **1.01** | **1.02** | **1.03** | **1.04** | **1.06** | **1.08** | **1.10** | **1.13** | **1.16** | **1.18** | **1.20** | **1.22** | **1.23** |

# Selection

## Stock Drive Selection

| C | S-L CLASSIC |
|---|---|

| CX | CLASSIC COG |
|---|---|

| Ratio | Stock Shv. Datum Diam. | | 1750 RPM Driver | | | 1160 RPM Driver | | | 870 RPM Driver | | | Belt Size/Center Distance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Driven | HP Per Belt | | Driven | HP Per Belt | | Driven | HP Per Belt | | C51 | C60 | C68 | C75 | C81 | C85 | C90 | C96 | C105 |
| | Driver | Driven | RPM | C | CX | RPM | C | CX | RPM | C | CX | CX51 | CX60 | CX68 | CX75 | CX81 | CX85 | CX90 | CX96 | CX105 |
| **2.29** | 8.5 | 20.0 | 763 | 19.68 | 25.71 | 506 | 15.42 | 19.29 | 380 | 12.50 | 15.41 | – | – | – | 15.5 | 18.7 | 20.8 | 23.4 | 26.5 | 31.0 |
| **2.33** | 7.5 | 18.0 | 751 | 16.07 | 22.66 | 498 | 12.54 | 16.85 | 374 | 10.19 | 13.43 | – | – | 14.5 | 18.2 | 21.3 | 23.3 | 25.9 | 29.0 | 33.5 |
| **2.35** | 10.0 | 24.0 | 746 | 24.56 | 29.85 | 494 | 19.54 | 22.79 | 371 | 15.88 | 18.29 | – | – | – | – | – | – | 18.4 | 21.6 | 26.3 |
| **2.40** | 11.0 | 27.0 | 728 | 27.42 | 32.28 | 483 | 22.16 | 25.01 | 362 | 18.06 | 20.15 | – | – | – | – | – | – | – | – | 22.7 |
| **2.43** | 8.0 | 20.0 | 721 | 17.92 | 24.23 | 478 | 14.00 | 18.09 | 358 | 11.36 | 14.43 | – | – | – | 15.8 | 19.0 | 21.1 | 23.7 | 26.8 | 31.4 |
| **2.45** | 12.0 | 30.0 | 714 | 29.94 | 34.42 | 473 | 24.65 | 27.12 | 355 | 20.18 | 21.95 | – | – | – | – | – | – | – | – | – |
| **2.48** | 9.5 | 24.0 | 710 | 23.03 | 28.55 | 471 | 18.20 | 21.66 | 353 | 14.78 | 17.35 | – | – | – | – | – | – | 18.8 | 22.0 | 26.7 |
| **2.49** | 7.0 | 18.0 | 704 | 14.17 | 21.05 | 467 | 11.07 | 15.60 | 350 | 9.01 | 12.42 | – | – | 14.8 | 18.5 | 21.6 | 23.7 | 26.2 | 29.3 | 33.9 |
| **2.51** | 10.5 | 27.0 | 696 | 26.05 | 31.11 | 461 | 20.87 | 23.92 | 346 | 16.99 | 19.23 | – | – | – | – | – | – | – | – | 23.0 |
| **2.53** | 14.0 | 36.0 | 692 | 33.85 | 37.79 | 459 | 29.27 | 31.03 | 344 | 24.24 | 25.39 | – | – | – | – | – | – | – | – | – |
| **2.58** | 7.5 | 20.0 | 678 | 16.09 | 22.68 | 449 | 12.56 | 16.86 | 337 | 10.20 | 13.44 | – | – | – | 16.2 | 19.4 | 21.5 | 24.1 | 27.1 | 31.7 |
| **2.60** | 9.0 | 24.0 | 674 | 21.41 | 27.18 | 447 | 16.84 | 20.50 | 335 | 13.66 | 16.40 | – | – | – | – | – | – | 19.1 | 22.3 | 27.0 |
| **2.63** | 10.0 | 27.0 | 664 | 24.59 | 29.87 | 440 | 19.56 | 22.81 | 330 | 15.89 | 18.31 | – | – | – | – | – | – | – | – | 23.4 |
| **2.67** | 11.0 | 30.0 | 656 | 27.44 | 32.30 | 435 | 22.17 | 25.02 | 326 | 18.07 | 20.16 | – | – | – | – | – | – | – | – | – |
| **2.71** | 16.0 | 44.0 | 646 | – | – | 428 | 33.36 | 34.49 | 321 | 28.05 | 28.62 | – | – | – | – | – | – | – | – | – |
| **2.72** | 13.0 | 36.0 | 644 | 32.10 | 36.28 | 427 | 27.03 | 29.14 | 320 | 22.25 | 23.71 | – | – | – | – | – | – | – | – | – |
| **2.74** | 8.5 | 24.0 | 638 | 19.72 | 25.75 | 423 | 15.44 | 19.32 | 317 | 12.52 | 15.43 | – | – | – | – | – | 16.6 | 19.4 | 22.6 | 27.3 |
| **2.76** | 7.0 | 20.0 | 635 | 14.19 | 21.07 | 421 | 11.09 | 15.61 | 316 | 9.02 | 12.43 | – | – | – | 16.5 | 19.7 | 21.8 | 24.4 | 27.5 | 32.1 |
| **2.77** | 9.5 | 27.0 | 632 | 23.05 | 28.57 | 419 | 18.22 | 21.67 | 314 | 14.79 | 17.36 | – | – | – | – | – | – | – | 18.8 | 23.7 |
| **2.79** | 10.5 | 30.0 | 627 | 26.06 | 31.13 | 416 | 20.88 | 23.93 | 312 | 16.99 | 19.24 | – | – | – | – | – | – | – | – | – |
| **2.90** | 8.0 | 24.0 | 602 | 17.95 | 24.26 | 399 | 14.02 | 18.11 | 300 | 11.37 | 14.45 | – | – | – | – | – | 16.9 | 19.7 | 22.9 | 27.7 |
| **2.91** | 9.0 | 27.0 | 600 | 21.43 | 27.20 | 398 | 16.85 | 20.51 | 298 | 13.67 | 16.41 | – | – | – | – | – | – | – | 19.1 | 24.0 |
| **2.92** | 10.0 | 30.0 | 599 | 24.60 | 29.89 | 397 | 19.57 | 22.82 | 298 | 15.90 | 18.31 | – | – | – | – | – | – | – | – | 20.1 |
| **2.94** | 12.0 | 36.0 | 596 | 29.97 | 34.45 | 395 | 24.67 | 27.14 | 296 | 20.20 | 21.97 | – | – | – | – | – | – | – | – | – |
| **3.07** | 9.5 | 30.0 | 570 | 23.06 | 28.58 | 378 | 18.23 | 21.68 | 283 | 14.79 | 17.37 | – | – | – | – | – | – | – | – | 20.4 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | **0.76** | **0.79** | **0.82** | **0.83** | **0.85** | **0.87** | **0.89** |
| **3.08** | 8.5 | 27.0 | 568 | 19.73 | 25.77 | 377 | 15.45 | 19.33 | 283 | 12.53 | 15.44 | – | – | – | – | – | – | – | 19.4 | 24.3 |
| **3.08** | 14.0 | 44.0 | 568 | 33.88 | 37.82 | 376 | 29.29 | 31.05 | 282 | 24.25 | 25.41 | – | – | – | – | – | – | – | – | – |
| **3.09** | 7.5 | 24.0 | 567 | 16.11 | 22.70 | 376 | 12.57 | 16.88 | 282 | 10.21 | 13.45 | – | – | – | – | – | 17.2 | 20.0 | 23.3 | 28.0 |
| **3.19** | 11.0 | 36.0 | 648 | 27.47 | 32.32 | 363 | 22.18 | 25.04 | 272 | 18.08 | 20.17 | – | – | – | – | – | – | – | – | – |
| **3.23** | 9.0 | 30.0 | 541 | 21.44 | 27.21 | 359 | 16.86 | 20.52 | 269 | 13.67 | 16.41 | – | – | – | – | – | – | – | – | 20.7 |
| **3.26** | 8.0 | 27.0 | 536 | 17.96 | 24.27 | 356 | 14.03 | 18.12 | 267 | 11.38 | 14.45 | – | – | – | – | – | – | – | 19.7 | 24.6 |
| **3.30** | 7.0 | 24.0 | 531 | 14.21 | 21.09 | 352 | 11.10 | 15.62 | 264 | 9.03 | 12.44 | – | – | – | – | – | 17.6 | 20.3 | 23.6 | 28.3 |
| **3.31** | 13.0 | 44.0 | 528 | 32.13 | 36.30 | 350 | 27.05 | 29.15 | 263 | 22.26 | 23.72 | – | – | – | – | – | – | – | – | – |
| **3.34** | 10.5 | 36.0 | 524 | 26.08 | 31.15 | 347 | 20.90 | 23.95 | 261 | 17.00 | 19.25 | – | – | – | – | – | – | – | – | – |
| **3.42** | 8.5 | 30.0 | 512 | 19.74 | 25.77 | 340 | 15.46 | 19.33 | 255 | 12.53 | 15.44 | – | – | – | – | – | – | – | – | 21.0 |
| **3.47** | 7.5 | 27.0 | 505 | 16.12 | 22.71 | 334 | 12.58 | 16.88 | 251 | 10.21 | 13.46 | – | – | – | – | – | – | – | 20.0 | 25.0 |
| **3.50** | 10.0 | 36.0 | 500 | 24.62 | 29.90 | 331 | 19.58 | 22.83 | 249 | 15.91 | 18.32 | – | – | – | – | – | – | – | – | – |
| **3.58** | 12.0 | 44.0 | 489 | 29.99 | 34.47 | 324 | 24.68 | 27.15 | 243 | 20.21 | 21.98 | – | – | – | – | – | – | – | – | – |
| **3.62** | 8.0 | 30.0 | 484 | 17.97 | 24.28 | 321 | 14.04 | 18.12 | 240 | 11.38 | 14.46 | – | – | – | – | – | – | – | – | 21.3 |
| **3.68** | 9.5 | 36.0 | 476 | 23.07 | 28.60 | 315 | 18.24 | 21.69 | 237 | 14.80 | 17.38 | – | – | – | – | – | – | – | – | – |
| **3.70** | 7.0 | 27.0 | 473 | 14.22 | 21.10 | 313 | 11.10 | 15.63 | 235 | 9.04 | 12.44 | – | – | – | – | – | – | – | 20.3 | 25.3 |
| **3.85** | 7.5 | 30.0 | 455 | 16.13 | 22.72 | 301 | 12.58 | 16.89 | 226 | 10.22 | 13.46 | – | – | – | – | – | – | – | – | 21.6 |
| **3.87** | 9.0 | 36.0 | 452 | 21.45 | 27.22 | 300 | 16.87 | 20.53 | 225 | 13.68 | 16.42 | – | – | – | – | – | – | – | – | – |
| **3.89** | 11.0 | 44.0 | 449 | 27.48 | 32.33 | 298 | 22.19 | 25.05 | 223 | 18.09 | 20.18 | – | – | – | – | – | – | – | – | – |
| **4.07** | 10.5 | 44.0 | 430 | 26.10 | 31.16 | 285 | 20.91 | 23.95 | 214 | 17.01 | 19.26 | – | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | **0.74** | **0.77** | **0.80** | **0.84** |
| **4.09** | 8.5 | 36.0 | 428 | 19.75 | 25.79 | 284 | 15.47 | 19.34 | 213 | 12.54 | 15.45 | – | – | – | – | – | – | – | – | – |
| **4.11** | 7.0 | 30.0 | 426 | 14.22 | 21.11 | 282 | 11.11 | 15.63 | 212 | 9.04 | 12.45 | – | – | – | – | – | – | – | – | 21.9 |
| **4.27** | 10.0 | 44.0 | 410 | 24.63 | 29.92 | 272 | 19.59 | 22.84 | 204 | 15.92 | 18.33 | – | – | – | – | – | – | – | – | – |
| **4.33** | 8.0 | 36.0 | 404 | 17.98 | 24.29 | 268 | 14.04 | 18.13 | 201 | 11.39 | 14.46 | – | – | – | – | – | – | – | – | – |
| **4.48** | 9.5 | 44.0 | 390 | 23.08 | 28.61 | 259 | 18.24 | 21.70 | 194 | 14.81 | 17.38 | – | – | – | – | – | – | – | – | – |
| **4.61** | 7.5 | 36.0 | 380 | 16.14 | 22.73 | 252 | 12.59 | 16.90 | 189 | 10.22 | 13.46 | – | – | – | – | – | – | – | – | – |
| **4.72** | 9.0 | 44.0 | 370 | 21.46 | 27.23 | 246 | 16.87 | 20.53 | 184 | 13.68 | 16.42 | – | – | – | – | – | – | – | – | – |
| **4.92** | 7.0 | 36.0 | 356 | 14.23 | 21.11 | 236 | 11.11 | 15.64 | 177 | 9.04 | 12.45 | – | – | – | – | – | – | – | – | – |
| **4.99** | 8.5 | 44.0 | 351 | 19.76 | 25.79 | 233 | 15.47 | 19.35 | 174 | 12.54 | 15.45 | – | – | – | – | – | – | – | – | – |
| **5.29** | 8.0 | 44.0 | 331 | 17.99 | 24.29 | 219 | 14.05 | 18.13 | 165 | 11.39 | 14.47 | – | – | – | – | – | – | – | – | – |
| **5.62** | 7.5 | 44.0 | 311 | 16.15 | 22.74 | 206 | 12.59 | 16.90 | 155 | 10.23 | 13.47 | – | – | – | – | – | – | – | – | – |
| **6.00** | 7.0 | 44.0 | 292 | 14.24 | 21.12 | 193 | 11.12 | 15.64 | 145 | 9.04 | 12.45 | – | – | – | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | | | | – | – | – | – | – | – | – | – | **0.79** |

# Selection

## Stock Drive Selection

| C | S-L CLASSIC |
|---|---|

| CX | CLASSIC COG |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | C112 | C120 | C128 | C136 | C144 | C158 | C162 | C173 | C180 | C195 | C210 | C240 | C270 | C300 | C330 | C360 | C390 | C420 |
| | CX112 | CX120 | CX128 | CX136 | CX144 | CX158 | CX162 | CX173 | CX180 | CX195 | CX210 | CX240 | CX270 | CX300 | CX330 | CX360 | CX390 | CX420 |
| **2.29** | 34.6 | 38.6 | 42.7 | 46.7 | 50.8 | 57.8 | 59.8 | 65.3 | 68.8 | 76.4 | 83.9 | 97.9 | 112.9 | 127.9 | 143.0 | 158.0 | 173.0 | 188.0 |
| **2.33** | 37.1 | 41.1 | 45.1 | 49.2 | 53.2 | 60.2 | 62.2 | 67.7 | 71.2 | 78.8 | 86.3 | 100.3 | 115.3 | 130.3 | 145.3 | 160.3 | 175.4 | 190.4 |
| **2.35** | 29.9 | 34.0 | 38.1 | 42.2 | 46.2 | 53.3 | 55.3 | 60.9 | 64.4 | 71.9 | 79.5 | 93.5 | 108.5 | 123.6 | 138.6 | 153.6 | 168.6 | 183.6 |
| **2.40** | 26.4 | 30.6 | 34.7 | 38.8 | 42.9 | 50.0 | 52.0 | 57.6 | 61.1 | 68.7 | 76.2 | 90.3 | 105.3 | 120.4 | 135.4 | 150.4 | 165.4 | 180.4 |
| **2.43** | 35.0 | 39.0 | 43.1 | 47.1 | 51.1 | 58.2 | 60.2 | 65.7 | 69.2 | 76.7 | 84.3 | 98.3 | 113.3 | 128.3 | 143.3 | 158.4 | 173.4 | 188.4 |
| **2.45** | 22.7 | 27.0 | 31.2 | 35.3 | 39.5 | 46.6 | 48.6 | 54.2 | 57.8 | 65.4 | 72.9 | 87.0 | 102.1 | 117.1 | 132.2 | 147.2 | 162.2 | 177.3 |
| **2.48** | 30.3 | 34.4 | 38.5 | 42.5 | 46.6 | 53.7 | 55.7 | 61.2 | 64.7 | 72.3 | 79.8 | 93.9 | 108.9 | 123.9 | 139.0 | 154.0 | 169.0 | 184.0 |
| **2.49** | 37.4 | 41.5 | 45.5 | 49.5 | 53.5 | 60.6 | 62.6 | 68.1 | 71.6 | 79.1 | 86.7 | 100.7 | 115.7 | 130.7 | 145.7 | 160.7 | 175.7 | 190.7 |
| **2.51** | 26.7 | 30.9 | 35.0 | 39.1 | 43.2 | 50.3 | 52.4 | 57.9 | 61.5 | 69.0 | 76.6 | 90.6 | 105.7 | 120.7 | 135.8 | 150.8 | 165.8 | 180.8 |
| **2.53** | – | – | – | 28.0 | 32.3 | 39.7 | 41.8 | 47.4 | 51.0 | 58.7 | 66.3 | 80.4 | 95.6 | 110.7 | 125.7 | 140.8 | 155.8 | 170.8 |
| **2.58** | 35.3 | 39.4 | 43.4 | 47.5 | 51.5 | 58.5 | 60.5 | 66.1 | 69.6 | 77.1 | 84.6 | 98.7 | 113.7 | 128.7 | 143.7 | 158.7 | 173.8 | 188.8 |
| **2.60** | 30.6 | 34.7 | 38.8 | 42.9 | 46.9 | 54.0 | 56.0 | 61.6 | 65.1 | 72.7 | 80.2 | 94.2 | 109.3 | 124.3 | 139.3 | 154.4 | 169.4 | 184.4 |
| **2.63** | 27.1 | 31.2 | 35.4 | 39.5 | 43.6 | 50.7 | 52.7 | 58.3 | 61.8 | 69.4 | 76.9 | 91.0 | 106.1 | 121.1 | 136.1 | 151.2 | 166.2 | 181.2 |
| **2.67** | 23.3 | 27.6 | 31.8 | 36.0 | 40.1 | 47.3 | 49.4 | 54.9 | 58.5 | 66.1 | 73.7 | 87.8 | 102.8 | 117.9 | 132.9 | 148.0 | 163.0 | 178.0 |
| **2.71** | – | – | – | – | – | 30.1 | 32.3 | 38.3 | 42.0 | 49.9 | 57.7 | 72.0 | 87.2 | 102.4 | 117.5 | 132.6 | 147.7 | 162.7 |
| **2.72** | – | – | – | 28.7 | 33.0 | 40.3 | 42.4 | 48.1 | 51.7 | 59.4 | 67.0 | 81.2 | 96.3 | 111.4 | 126.5 | 141.5 | 156.6 | 171.6 |
| **2.74** | 31.0 | 35.1 | 39.2 | 43.2 | 47.3 | 54.4 | 56.4 | 62.0 | 65.5 | 73.0 | 80.6 | 94.6 | 109.7 | 124.7 | 139.7 | 154.7 | 169.8 | 184.8 |
| **2.76** | 35.7 | 39.7 | 43.8 | 47.8 | 51.8 | 58.9 | 60.9 | 66.4 | 70.0 | 77.5 | 85.0 | 99.0 | 114.1 | 129.1 | 144.1 | 159.1 | 174.1 | 189.1 |
| **2.77** | 27.4 | 31.6 | 35.7 | 39.8 | 43.9 | 51.0 | 53.1 | 58.6 | 62.2 | 69.7 | 77.3 | 91.4 | 106.4 | 121.5 | 136.5 | 151.5 | 166.6 | 181.6 |
| **2.79** | 23.6 | 28.0 | 32.2 | 36.3 | 40.5 | 47.7 | 49.7 | 55.3 | 58.8 | 66.4 | 74.0 | 88.1 | 103.2 | 118.3 | 133.3 | 148.3 | 163.4 | 178.4 |
| **2.90** | 31.3 | 35.4 | 39.5 | 43.6 | 47.7 | 54.7 | 56.8 | 62.3 | 65.8 | 73.4 | 80.9 | 95.0 | 110.0 | 125.1 | 140.1 | 155.1 | 170.1 | 185.2 |
| **2.91** | 27.7 | 31.9 | 36.1 | 40.2 | 44.3 | 51.4 | 53.4 | 59.0 | 62.5 | 70.1 | 77.7 | 91.7 | 106.8 | 121.9 | 136.9 | 151.9 | 166.9 | 182.0 |
| **2.92** | 24.0 | 28.3 | 32.5 | 36.7 | 40.8 | 48.0 | 50.1 | 55.7 | 59.2 | 66.8 | 74.4 | 88.5 | 103.6 | 118.6 | 133.7 | 148.7 | 163.7 | 178.8 |
| **2.94** | – | – | 24.9 | 29.3 | 33.6 | 41.0 | 43.1 | 48.8 | 52.4 | 60.1 | 67.7 | 81.9 | 97.0 | 112.1 | 127.2 | 142.3 | 157.3 | 172.4 |
| **3.07** | 24.3 | 28.6 | 32.8 | 37.0 | 41.2 | 48.4 | 50.4 | 56.0 | 59.6 | 67.2 | 74.7 | 88.9 | 103.9 | 119.0 | 134.1 | 149.1 | 164.1 | 179.1 |
| | **0.91** | **0.93** | **0.94** | **0.95** | **0.97** | **1.00** | **1.01** | **1.02** | **1.03** | **1.05** | **1.07** | **1.10** | **1.12** | **1.15** | **1.17** | **1.19** | **1.21** | **1.23** |
| **3.08** | 28.1 | 32.3 | 36.4 | 40.5 | 44.6 | 51.8 | 53.8 | 59.4 | 62.9 | 70.5 | 78.0 | 92.1 | 107.2 | 122.2 | 137.3 | 152.3 | 167.3 | 182.3 |
| | – | – | – | – | – | 31.3 | 33.6 | 39.6 | 43.3 | 51.2 | 59.0 | 73.4 | 88.7 | 103.8 | 119.0 | 134.1 | 149.2 | 164.2 |
| **3.09** | 31.6 | 35.8 | 39.9 | 43.9 | 48.0 | 55.1 | 57.1 | 62.7 | 66.2 | 73.8 | 81.3 | 95.4 | 110.4 | 125.5 | 140.5 | 155.5 | 170.5 | 185.5 |
| **3.19** | – | – | 25.5 | 29.9 | 34.3 | 41.7 | 43.8 | 49.5 | 53.1 | 60.8 | 68.4 | 82.6 | 97.8 | 112.9 | 127.9 | 143.0 | 158.1 | 173.1 |
| **3.23** | 24.6 | 28.9 | 33.2 | 37.4 | 41.5 | 48.7 | 50.7 | 56.4 | 59.9 | 67.5 | 75.1 | 89.2 | 104.3 | 119.4 | 134.4 | 149.5 | 164.5 | 179.5 |
| **3.26** | 28.4 | 32.6 | 36.7 | 40.9 | 45.0 | 52.1 | 54.1 | 59.7 | 63.3 | 70.8 | 78.4 | 92.5 | 107.6 | 122.6 | 137.6 | 152.7 | 167.7 | 182.7 |
| **3.30** | 32.0 | 36.1 | 40.2 | 44.3 | 48.4 | 55.5 | 57.5 | 63.0 | 66.6 | 74.1 | 81.7 | 95.7 | 110.8 | 125.8 | 140.9 | 155.9 | 170.9 | 185.9 |
| **3.31** | – | – | – | – | – | 31.9 | 34.2 | 40.2 | 44.0 | 51.9 | 59.7 | 74.1 | 89.4 | 104.6 | 119.7 | 134.8 | 149.9 | 165.0 |
| **3.34** | – | – | 25.8 | 30.3 | 34.6 | 42.0 | 44.1 | 49.8 | 53.4 | 61.1 | 68.8 | 83.0 | 98.1 | 113.2 | 128.3 | 143.4 | 158.4 | 173.5 |
| **3.42** | 24.9 | 29.3 | 33.5 | 37.7 | 41.8 | 49.0 | 51.1 | 56.7 | 60.3 | 67.9 | 75.5 | 89.6 | 104.7 | 119.7 | 134.8 | 149.8 | 164.9 | 179.9 |
| **3.47** | 28.7 | 32.9 | 37.1 | 41.2 | 45.3 | 52.5 | 54.5 | 60.1 | 63.6 | 71.2 | 78.8 | 92.9 | 107.9 | 123.0 | 138.0 | 153.1 | 168.1 | 183.1 |
| **3.50** | – | – | 26.1 | 30.6 | 34.9 | 42.3 | 44.4 | 50.2 | 53.8 | 61.5 | 69.1 | 83.3 | 98.5 | 113.6 | 128.7 | 143.8 | 158.8 | 173.9 |
| **3.58** | – | – | – | – | – | 32.6 | 34.8 | 40.9 | 44.6 | 52.6 | 60.4 | 74.8 | 90.1 | 105.3 | 120.4 | 135.5 | 150.6 | 165.7 |
| **3.62** | 25.2 | 29.6 | 33.8 | 38.0 | 42.2 | 49.4 | 51.4 | 57.1 | 60.6 | 68.2 | 75.8 | 89.9 | 105.0 | 120.1 | 135.2 | 150.2 | 165.3 | 180.3 |
| **3.68** | – | – | 26.4 | 30.9 | 35.2 | 42.7 | 44.8 | 50.5 | 54.1 | 61.8 | 69.5 | 83.7 | 98.8 | 114.0 | 129.1 | 144.1 | 159.2 | 174.2 |
| **3.70** | 29.0 | 33.3 | 37.4 | 41.6 | 45.7 | 52.8 | 54.8 | 60.4 | 64.0 | 71.6 | 79.1 | 93.2 | 108.3 | 123.4 | 138.4 | 153.4 | 168.5 | 183.5 |
| **3.85** | 25.5 | 29.9 | 34.2 | 38.4 | 42.5 | 49.7 | 51.8 | 57.4 | 61.0 | 68.6 | 76.2 | 90.3 | 105.4 | 120.5 | 135.5 | 150.6 | 165.6 | 180.7 |
| **3.87** | – | – | 26.7 | 31.2 | 35.6 | 43.0 | 45.1 | 50.8 | 54.5 | 62.2 | 69.8 | 84.0 | 99.2 | 114.3 | 129.4 | 144.5 | 159.6 | 174.6 |
| **3.89** | – | – | – | – | – | 33.2 | 35.4 | 41.5 | 45.3 | 53.2 | 61.0 | 75.5 | 90.8 | 106.0 | 121.2 | 136.3 | 151.4 | 166.5 |
| **4.07** | – | – | – | – | – | 33.5 | 35.7 | 41.8 | 45.6 | 53.5 | 61.4 | 75.8 | 91.1 | 106.3 | 121.5 | 136.6 | 151.7 | 166.8 |
| | **0.86** | **0.89** | **0.91** | **0.93** | **0.95** | **0.97** | **0.98** | **1.00** | **1.01** | **1.03** | **1.05** | **1.08** | **1.11** | **1.14** | **1.16** | **1.19** | **1.20** | **1.22** |
| **4.09** | – | 22.3 | 27.0 | 31.5 | 35.9 | 43.3 | 45.4 | 51.2 | 54.8 | 62.5 | 70.2 | 84.4 | 99.6 | 114.7 | 129.8 | 144.9 | 159.9 | 175.0 |
| **4.11** | 25.8 | 30.2 | 34.5 | 38.7 | 42.9 | 50.1 | 52.1 | 57.8 | 61.3 | 68.9 | 76.5 | 90.7 | 105.8 | 120.9 | 135.9 | 151.0 | 166.0 | 181.0 |
| **4.27** | – | – | – | – | – | 33.8 | 36.1 | 42.1 | 45.9 | 53.9 | 61.7 | 76.2 | 91.5 | 106.7 | 121.9 | 137.0 | 152.1 | 167.2 |
| **4.33** | – | 22.6 | 27.3 | 31.8 | 36.2 | 43.7 | 45.8 | 51.5 | 55.1 | 62.9 | 70.5 | 84.8 | 99.9 | 115.1 | 130.2 | 145.2 | 160.3 | 175.4 |
| **4.48** | – | – | – | – | – | 34.1 | 36.4 | 42.4 | 46.2 | 54.2 | 62.1 | 76.5 | 91.8 | 107.1 | 122.2 | 137.4 | 152.5 | 167.6 |
| **4.61** | – | 22.9 | 27.6 | 32.1 | 36.5 | 44.0 | 46.1 | 51.8 | 55.5 | 63.2 | 70.9 | 85.1 | 100.3 | 115.4 | 130.5 | 145.6 | 160.7 | 175.7 |
| **4.72** | – | – | – | – | – | 34.4 | 36.7 | 42.8 | 46.6 | 54.5 | 62.4 | 76.9 | 92.2 | 107.4 | 122.6 | 137.7 | 152.8 | 167.9 |
| **4.92** | – | 23.2 | 27.9 | 32.5 | 36.8 | 44.3 | 46.4 | 52.2 | 55.8 | 63.5 | 71.2 | 85.5 | 100.7 | 115.8 | 130.9 | 146.0 | 161.0 | 176.1 |
| **4.99** | – | – | – | – | – | 34.7 | 37.0 | 43.1 | 46.9 | 54.9 | 62.7 | 77.2 | 92.5 | 107.8 | 123.0 | 138.1 | 153.2 | 168.3 |
| **5.29** | – | – | – | – | 26.5 | 35.0 | 37.3 | 43.4 | 47.2 | 55.2 | 63.1 | 77.5 | 92.9 | 108.1 | 123.3 | 138.5 | 153.6 | 168.7 |
| **5.62** | – | – | – | – | 26.8 | 35.3 | 37.6 | 43.7 | 47.5 | 55.5 | 63.4 | 77.9 | 93.2 | 108.5 | 123.7 | 138.8 | 153.9 | 169.0 |
| **6.00** | – | – | – | – | 27.1 | 35.6 | 37.9 | 44.0 | 47.8 | 55.9 | 63.7 | 78.2 | 93.6 | 108.8 | 124.0 | 139.2 | 154.3 | 169.4 |
| | **0.82** | **0.85** | **0.87** | **0.89** | **0.91** | **0.95** | **0.96** | **0.98** | **0.99** | **1.01** | **1.04** | **1.07** | **1.10** | **1.13** | **1.16** | **1.18** | **1.20** | **1.22** |

# Selection

## Stock Drive Selection



### D S-L CLASSIC

| Ratio | Stock Shv. Datum Diam. | | 1160 RPM Driver | | 870 RPM Driver | | 690 RPM Driver | | Belt Size/Center Distance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt D | Driven RPM | HP/Belt D | Driven RPM | HP/Belt D | D120 | D128 | D144 | D158 | D162 | D173 |
| 1.00 | 12.00 | 12.00 | 1160 | 28.43 | 870 | 24.56 | 690 | 21.13 | 42.8 | 46.8 | 54.8 | 61.8 | 63.8 | 69.3 |
| | 13.00 | 13.00 | 1160 | 32.81 | 870 | 28.39 | 690 | 24.40 | 41.2 | 45.2 | 53.2 | 60.2 | 62.2 | 67.7 |
| | 13.50 | 13.50 | 1160 | 34.92 | 870 | 30.26 | 690 | 26.02 | 40.5 | 44.5 | 52.5 | 59.5 | 61.5 | 67.0 |
| | 14.00 | 14.00 | 1160 | 36.96 | 870 | 32.10 | 690 | 27.61 | 39.7 | 43.7 | 51.7 | 58.7 | 60.7 | 66.2 |
| | 14.50 | 14.50 | 1160 | 38.93 | 870 | 33.92 | 690 | 29.19 | 38.9 | 42.9 | 50.9 | 57.9 | 59.9 | 65.4 |
| | 15.00 | 15.00 | 1160 | 40.84 | 870 | 35.70 | 690 | 30.75 | 38.1 | 42.1 | 50.1 | 57.1 | 59.1 | 64.6 |
| | 15.50 | 15.50 | 1160 | 42.68 | 870 | 37.45 | 690 | 32.30 | 37.3 | 41.3 | 49.3 | 56.3 | 58.3 | 63.8 |
| | 16.00 | 16.00 | 1160 | 44.46 | 870 | 39.16 | 690 | 33.82 | 36.5 | 40.5 | 48.5 | 55.5 | 57.5 | 63.0 |
| | 18.00 | 18.00 | 1160 | 50.84 | 870 | 45.70 | 690 | 39.74 | 33.4 | 37.4 | 45.4 | 52.4 | 54.4 | 59.9 |
| | 22.00 | 22.00 | 1160 | – | 870 | 57.07 | 690 | 50.64 | 27.1 | 31.1 | 39.1 | 46.1 | 48.1 | 53.6 |
| 1.03 | 15.50 | 16.00 | 1125 | 43.34 | 844 | 37.94 | 669 | 32.69 | 36.9 | 40.9 | 48.9 | 55.9 | 57.9 | 63.4 |
| | 15.00 | 15.50 | 1124 | 41.52 | 843 | 36.20 | 669 | 31.16 | 37.7 | 41.7 | 49.7 | 56.7 | 58.7 | 64.2 |
| | 14.50 | 15.00 | 1123 | 39.63 | 842 | 34.44 | 668 | 29.61 | 38.5 | 42.5 | 50.5 | 57.5 | 59.5 | 65.0 |
| | 14.00 | 14.50 | 1122 | 37.67 | 841 | 32.64 | 667 | 28.04 | 39.3 | 43.3 | 51.3 | 58.3 | 60.3 | 65.8 |
| 1.04 | 13.50 | 14.00 | 1120 | 35.66 | 840 | 30.82 | 666 | 26.46 | 40.1 | 44.1 | 52.1 | 59.1 | 61.1 | 66.6 |
| | 13.00 | 13.50 | 1119 | 33.58 | 839 | 28.96 | 666 | 24.86 | 40.8 | 44.8 | 52.8 | 59.8 | 61.8 | 67.3 |
| 1.06 | 15.00 | 16.00 | 1090 | 42.09 | 818 | 36.64 | 648 | 31.50 | 37.3 | 41.3 | 49.3 | 46.3 | 58.3 | 63.8 |
| 1.07 | 14.50 | 15.50 | 1088 | 40.22 | 816 | 34.88 | 647 | 29.96 | 38.1 | 42.1 | 50.1 | 57.1 | 59.1 | 64.6 |
| | 14.00 | 15.00 | 1086 | 38.28 | 814 | 33.10 | 646 | 28.40 | 38.9 | 42.9 | 50.9 | 57.9 | 59.9 | 65.4 |
| | 13.50 | 14.50 | 1083 | 36.28 | 812 | 31.28 | 644 | 26.83 | 39.7 | 43.7 | 51.7 | 58.7 | 60.7 | 66.2 |
| | 13.00 | 14.00 | 1081 | 34.22 | 810 | 29.44 | 643 | 25.24 | 40.5 | 44.5 | 52.5 | 59.5 | 61.5 | 67.0 |
| 1.08 | 12.00 | 13.00 | 1075 | 29.93 | 806 | 25.68 | 639 | 22.02 | 42.0 | 46.0 | 54.0 | 61.0 | 63.0 | 68.5 |
| 1.10 | 14.50 | 16.00 | 1055 | 40.72 | 791 | 35.26 | 628 | 30.26 | 37.7 | 41.7 | 49.7 | 56.7 | 58.7 | 64.2 |
| | 14.00 | 15.50 | 1052 | 38.79 | 789 | 33.48 | 626 | 28.70 | 38.5 | 42.5 | 50.5 | 57.5 | 59.5 | 65.0 |
| 1.11 | 13.50 | 15.00 | 1048 | 36.80 | 786 | 31.67 | 624 | 27.14 | 39.3 | 43.3 | 51.3 | 58.3 | 60.3 | 65.8 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **0.86** | **0.87** | **0.90** | **0.92** | **0.92** | **0.93** |
| 1.11 | 18.00 | 20.00 | 1047 | 52.74 | 786 | 47.13 | 623 | 40.87 | 31.8 | 35.8 | 43.8 | 50.8 | 52.8 | 58.3 |
| | 13.00 | 14.50 | 1045 | 34.85 | 784 | 29.84 | 621 | 25.55 | 40.1 | 44.1 | 52.1 | 59.1 | 61.1 | 66.6 |
| 1.12 | 12.00 | 13.50 | 1037 | 30.48 | 777 | 26.09 | 617 | 22.34 | 41.6 | 45.6 | 53.6 | 60.6 | 62.6 | 68.1 |
| | 16.00 | 18.00 | 1035 | 46.53 | 776 | 40.71 | 616 | 35.05 | 34.9 | 38.9 | 46.9 | 54.0 | 56.0 | 61.5 |
| 1.14 | 14.00 | 16.00 | 1020 | 39.22 | 765 | 33.80 | 607 | 28.96 | 38.1 | 42.1 | 50.1 | 57.1 | 59.1 | 64.6 |
| | 13.50 | 15.50 | 1016 | 37.24 | 762 | 32.00 | 604 | 27.40 | 38.9 | 42.9 | 50.9 | 57.1 | 59.9 | 65.4 |
| 1.15 | 13.00 | 15.00 | 1011 | 35.19 | 758 | 30.17 | 602 | 25.82 | 39.7 | 43.7 | 51.7 | 58.7 | 60.7 | 66.2 |
| 1.16 | 15.50 | 18.00 | 1004 | 45.15 | 753 | 39.30 | 597 | 33.76 | 35.3 | 39.3 | 47.3 | 54.3 | 56.3 | 61.2 |
| | 12.00 | 14.00 | 1001 | 30.93 | 751 | 26.44 | 595 | 22.61 | 41.2 | 45.2 | 53.2 | 60.2 | 62.2 | 67.7 |
| 1.18 | 13.50 | 16.00 | 985 | 37.60 | 739 | 32.28 | 586 | 27.62 | 38.5 | 42.5 | 0.5 | 57.5 | 59.5 | 65.0 |
| | 13.00 | 15.50 | 980 | 35.56 | 735 | 30.45 | 583 | 26.04 | 39.3 | 43.3 | 51.3 | 58.3 | 60.3 | 65.8 |
| 1.19 | 15.00 | 18.00 | 973 | 43.67 | 730 | 37.82 | 579 | 32.43 | 35.7 | 39.7 | 47.7 | 54.7 | 56.7 | 62.2 |
| 1.20 | 12.00 | 14.50 | 968 | 31.31 | 726 | 26.72 | 576 | 22.84 | 40.8 | 44.8 | 52.8 | 59.8 | 61.8 | 67.3 |
| 1.22 | 18.00 | 22.00 | 955 | 53.86 | 716 | 47.97 | 568 | 41.53 | 30.2 | 34.2 | 42.2 | 49.2 | 51.2 | 56.7 |
| | 13.00 | 16.00 | 950 | 35.87 | 713 | 30.68 | 565 | 26.22 | 38.9 | 42.9 | 50.9 | 57.9 | 59.9 | 65.4 |
| | 22.00 | 27.00 | 950 | – | 712 | 59.37 | 565 | 52.46 | – | 27.1 | 35.1 | 42.1 | 44.1 | 49.6 |
| 1.23 | 14.50 | 18.00 | 942 | 42.08 | 706 | 36.27 | 560 | 31.06 | 36.1 | 40.1 | 48.1 | 55.1 | 57.1 | 62.6 |
| 1.24 | 12.00 | 15.00 | 937 | 31.62 | 703 | 26.95 | 557 | 23.02 | 40.4 | 44.4 | 52.4 | 59.4 | 61.4 | 66.9 |
| | 16.00 | 20.00 | 935 | 47.67 | 701 | 41.57 | 556 | 35.73 | 33.3 | 37.3 | 45.3 | 52.4 | 54.4 | 59.9 |
| 1.27 | 14.00 | 18.00 | 911 | 40.38 | 683 | 34.67 | 542 | 29.65 | 36.5 | 40.5 | 48.5 | 55.5 | 57.5 | 63.0 |
| 1.28 | 12.00 | 15.50 | 908 | 31.88 | 681 | 27.15 | 540 | 23.18 | 40.0 | 44.0 | 52.0 | 59.0 | 61.0 | 66.5 |
| | 15.50 | 20.00 | 907 | 46.14 | 680 | 40.04 | 539 | 34.36 | 33.7 | 37.7 | 45.7 | 52.7 | 54.7 | 60.2 |
| 1.32 | 12.00 | 16.00 | 880 | 32.10 | 660 | 27.31 | 524 | 23.31 | 39.6 | 43.6 | 51.6 | 58.6 | 60.6 | 66.1 |
| | 13.50 | 18.00 | 879 | 38.59 | 660 | 33.02 | 523 | 28.20 | 36.9 | 40.9 | 48.9 | 55.9 | 57.9 | 63.4 |
| | 15.00 | 20.00 | 878 | 44.52 | 659 | 38.46 | 523 | 32.94 | 34.1 | 38.1 | 46.1 | 53.1 | 55.1 | 60.6 |
| 1.36 | 16.00 | 22.00 | 852 | 48.33 | 639 | 42.07 | 507 | 36.12 | 31.7 | 35.7 | 43.7 | 50.7 | 52.7 | 58.2 |
| | 14.50 | 20.00 | 850 | 42.81 | 638 | 36.83 | 506 | 31.50 | 34.5 | 38.5 | 46.5 | 53.5 | 55.5 | 61.0 |
| 1.37 | 13.00 | 18.00 | 848 | 36.71 | 636 | 31.31 | 505 | 26.72 | 37.2 | 41.2 | 49.3 | 56.3 | 58.3 | 63.8 |
| 1.40 | 15.50 | 22.00 | 826 | 46.72 | 620 | 40.47 | 492 | 34.69 | 32.0 | 36.1 | 44.1 | 51.1 | 53.1 | 58.6 |
| 1.41 | 14.00 | 20.00 | 822 | 41.01 | 617 | 35.15 | 489 | 30.03 | 34.8 | 38.8 | 46.9 | 53.9 | 55.9 | 61.4 |
| 1.45 | 15.00 | 22.00 | 801 | 45.02 | 601 | 38.83 | 476 | 33.24 | 32.4 | 36.4 | 44.5 | 51.5 | 53.5 | 59.0 |
| 1.46 | 13.50 | 20.00 | 794 | 39.13 | 595 | 33.42 | 472 | 28.52 | 35.2 | 39.2 | 47.2 | 54.3 | 56.3 | 61.8 |
| 1.48 | 12.00 | 18.00 | 786 | 32.68 | 589 | 27.75 | 467 | 23.66 | 38.0 | 42.0 | 50.0 | 57.0 | 59.0 | 64.5 |
| | 18.00 | 27.00 | 782 | 55.12 | 586 | 48.91 | 465 | 42.28 | 25.9 | 30.0 | 38.1 | 45.1 | 47.1 | 52.6 |
| 1.49 | 22.00 | 33.00 | 780 | – | 585 | 60.28 | 464 | 53.18 | – | – | 30.0 | 37.1 | 39.1 | 44.6 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **0.84** | **0.86** | **0.88** | **0.90** | **0.91** | **0.92** |

# Selection

## Stock Drive Selection

| D | S-L CLASSIC |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | D180 | D195 | D210 | D225 | D240 | D255 | D270 | D300 | D315 | D330 | D360 | D390 | D420 | D480 | D540 | D600 | D660 |
| 1.00 | 72.8 | 80.3 | 87.8 | 94.1 | 101.6 | 109.1 | 116.6 | 131.6 | 139.1 | 146.6 | 161.6 | 176.6 | 191.6 | 221.6 | 251.6 | 281.6 | 311.6 |
| | 71.2 | 78.7 | 86.2 | 92.5 | 100.0 | 107.5 | 115.0 | 130.0 | 137.5 | 145.0 | 160.0 | 175.0 | 190.0 | 220.0 | 250.0 | 280.0 | 310.0 |
| | 70.5 | 78.0 | 85.5 | 91.7 | 99.2 | 106.7 | 114.2 | 129.2 | 136.7 | 144.2 | 159.2 | 174.2 | 189.2 | 219.2 | 249.2 | 279.2 | 309.2 |
| | 69.7 | 77.2 | 84.7 | 90.9 | 98.4 | 105.9 | 113.4 | 128.4 | 135.9 | 143.4 | 158.4 | 173.4 | 188.4 | 218.4 | 248.4 | 278.4 | 308.4 |
| | 68.9 | 76.4 | 83.4 | 90.1 | 97.6 | 105.1 | 112.6 | 127.6 | 135.1 | 142.6 | 157.6 | 172.6 | 187.6 | 217.6 | 247.6 | 277.6 | 307.6 |
| | 68.1 | 75.6 | 83.1 | 89.4 | 96.8 | 104.4 | 111.9 | 126.9 | 134.4 | 141.8 | 156.8 | 171.8 | 186.9 | 216.9 | 246.8 | 276.9 | 306.9 |
| | 67.3 | 74.8 | 82.3 | 88.6 | 96.1 | 103.6 | 111.1 | 126.1 | 133.6 | 141.1 | 156.1 | 171.1 | 186.1 | 216.1 | 246.1 | 276.1 | 306.1 |
| | 66.5 | 74.0 | 81.5 | 87.8 | 95.3 | 102.8 | 110.3 | 125.3 | 132.8 | 140.3 | 155.3 | 170.3 | 185.3 | 215.3 | 245.3 | 275.3 | 305.3 |
| | 63.4 | 70.9 | 78.4 | 84.6 | 92.1 | 99.6 | 107.1 | 122.1 | 129.6 | 137.1 | 152.1 | 167.1 | 182.1 | 212.1 | 242.1 | 272.1 | 302.1 |
| | 57.1 | 64.6 | 72.1 | 78.4 | 85.9 | 93.4 | 100.9 | 115.9 | 123.4 | 130.9 | 145.9 | 160.9 | 175.9 | 205.9 | 235.9 | 265.9 | 295.9 |
| 1.03 | 66.9 | 74.4 | 81.9 | 88.2 | 95.7 | 103.2 | 110.7 | 125.7 | 133.2 | 140.7 | 155.7 | 170.7 | 185.7 | 215.7 | 245.7 | 275.7 | 305.7 |
| | 67.7 | 75.2 | 82.7 | 89.0 | 96.5 | 104.0 | 111.5 | 126.5 | 134.0 | 141.5 | 156.5 | 171.5 | 186.5 | 216.5 | 246.5 | 276.5 | 306.5 |
| | 68.5 | 76.0 | 83.5 | 89.7 | 97.2 | 104.7 | 112.2 | 127.2 | 134.7 | 142.2 | 157.2 | 172.2 | 187.2 | 217.2 | 247.2 | 277.2 | 307.2 |
| | 69.3 | 76.8 | 84.3 | 90.5 | 98.0 | 105.5 | 113.0 | 128.0 | 135.5 | 143.0 | 158.0 | 173.0 | 188.0 | 218.0 | 248.0 | 278.0 | 308.0 |
| 1.04 | 70.1 | 77.6 | 85.1 | 91.3 | 98.8 | 106.3 | 113.8 | 128.8 | 136.3 | 143.8 | 158.8 | 173.8 | 188.8 | 218.8 | 248.8 | 278.8 | 308.8 |
| | 70.8 | 78.3 | 85.8 | 92.1 | 99.6 | 107.1 | 114.6 | 129.6 | 137.1 | 144.6 | 159.6 | 174.6 | 189.6 | 219.6 | 249.6 | 279.6 | 309.6 |
| 1.06 | 67.3 | 74.8 | 82.3 | 88.6 | 96.1 | 103.6 | 111.1 | 126.1 | 133.6 | 141.1 | 156.1 | 171.1 | 186.1 | 216.1 | 246.1 | 276.1 | 306.1 |
| 1.07 | 68.1 | 75.6 | 83.1 | 89.3 | 96.8 | 104.3 | 111.8 | 126.8 | 134.3 | 141.8 | 156.8 | 171.8 | 186.8 | 216.8 | 246.8 | 276.8 | 306.8 |
| | 68.9 | 76.4 | 83.9 | 90.1 | 97.6 | 105.1 | 112.6 | 127.6 | 135.1 | 142.6 | 157.6 | 172.6 | 187.6 | 217.6 | 247.6 | 277.6 | 307.6 |
| | 69.7 | 77.2 | 84.7 | 90.9 | 98.4 | 105.9 | 113.4 | 128.4 | 135.9 | 143.4 | 158.4 | 173.4 | 188.4 | 218.4 | 248.4 | 278.4 | 308.4 |
| | 70.5 | 78.0 | 85.5 | 91.5 | 99.2 | 106.7 | – | 129.2 | 136.7 | 144.2 | 159.2 | 174.2 | 189.2 | 219.2 | 249.2 | 279.2 | 309.2 |
| 1.08 | 72.0 | 79.5 | 87.0 | 93.3 | 100.8 | 108.3 | 115.8 | 130.8 | 138.3 | 145.8 | 160.8 | 175.8 | 190.8 | 220.8 | 250.8 | 280.8 | 310.8 |
| 1.10 | 67.7 | 75.2 | 82.7 | 89.0 | 96.5 | 104.0 | 111.5 | 126.5 | 134.0 | 141.5 | 165.5 | 171.5 | 186.5 | 216.5 | 246.5 | 276.5 | 306.5 |
| | 68.5 | 76.0 | 83.5 | 89.7 | 97.2 | 104.7 | 112.2 | 127.2 | 134.7 | 142.2 | 157.2 | 172.2 | 187.2 | 217.2 | 247.2 | 277.2 | 307.2 |
| 1.11 | 69.3 | 76.8 | 84.3 | 90.5 | 98.0 | 105.5 | 113.0 | 128.0 | 135.5 | 143.0 | 158.0 | 173.0 | 188.0 | 218.0 | 248.0 | 278.0 | 308.0 |
| | **0.94** | **0.96** | **0.97** | **0.99** | **1.00** | **1.01** | **1.02** | **1.04** | **1.05** | **1.05** | **1.08** | **1.10** | **1.11** | **1.14** | **1.16** | **1.19** | **1.20** |
| 1.11 | 61.8 | 69.3 | 76.8 | 83.1 | 90.6 | 98.1 | 105.6 | 120.6 | 128.1 | 135.6 | 150.6 | 165.6 | 180.6 | 210.6 | 240.6 | 270.6 | 300.6 |
| | 70.1 | 77.6 | 85.1 | 91.3 | 98.8 | 106.3 | 113.8 | 128.8 | 136.3 | 143.8 | 158.8 | 173.8 | 188.8 | 218.8 | 248.8 | 278.8 | 308.8 |
| 1.12 | 71.6 | 79.1 | 86.6 | 92.9 | 100.4 | 107.9 | 115.4 | 130.4 | 137.9 | 145.4 | 160.4 | 175.4 | 190.4 | 220.4 | 250.4 | 280.4 | 310.4 |
| | 65.0 | 72.5 | 80.0 | 86.2 | 93.7 | 101.2 | 108.7 | 123.7 | 131.2 | 138.7 | 153.7 | 168.7 | 183.7 | 213.7 | 243.7 | 273.7 | 303.7 |
| 1.14 | 68.1 | 75.6 | 83.1 | 89.3 | 96.8 | 104.3 | 111.8 | 126.8 | 134.3 | 141.8 | 156.8 | 171.8 | 186.8 | 216.8 | 246.8 | 246.8 | 306.8 |
| | 68.9 | 76.4 | 83.9 | 90.1 | 97.6 | 105.1 | 112.6 | 127.6 | 135.1 | 142.6 | 157.6 | 172.6 | 187.6 | 217.6 | 247.6 | 277.6 | 307.6 |
| 1.15 | 69.7 | 77.2 | 84.7 | 90.9 | 98.4 | 105.9 | 113.4 | 128.4 | 135.9 | 143.4 | 158.4 | 173.4 | 188.4 | 218.4 | 248.4 | 278.4 | 308.4 |
| 1.16 | 65.3 | 72.8 | 80.3 | 86.6 | 94.1 | 101.6 | 109.1 | 124.1 | 131.6 | 139.1 | 154.1 | 169.1 | 184.1 | 214.1 | 244.1 | 274.1 | 304.1 |
| | 71.2 | 78.7 | 86.2 | 92.5 | 100.0 | 107.5 | 115.0 | 130.0 | 137.5 | 145.0 | 160.0 | 175.0 | 190.0 | 220.0 | 250.0 | 280.0 | 310.0 |
| 1.18 | 68.5 | 76.0 | 83.5 | 89.7 | 97.2 | 104.7 | 112.2 | 127.2 | 134.7 | 142.2 | 157.2 | 172.2 | 187.2 | 217.2 | 247.2 | 277.2 | 307.2 |
| | 69.3 | 76.8 | 84.3 | 90.5 | 98.0 | 105.5 | 113.0 | 128.0 | 135.5 | 143.0 | 158.0 | 173.0 | 188.0 | 218.0 | 248.0 | 278.0 | 308.0 |
| 1.19 | 65.7 | 73.2 | 80.7 | 87.0 | 94.5 | 102.0 | 109.5 | 124.5 | 132.0 | 139.5 | 154.5 | 169.5 | 184.5 | 214.5 | 244.5 | 274.5 | 304.5 |
| 1.20 | 70.8 | 78.3 | 85.8 | 92.1 | 99.6 | 107.1 | 114.6 | 129.6 | 137.1 | 144.6 | 159.6 | 174.6 | 189.6 | 219.6 | 249.6 | 279.6 | 309.6 |
| 1.22 | 60.2 | 67.7 | 75.2 | 81.5 | 89.0 | 96.5 | 104.0 | 119.0 | 126.5 | 134.0 | 149.0 | 164.0 | 179.0 | 209.0 | 239.0 | 269.0 | 299.0 |
| | 68.9 | 76.4 | 83.9 | 90.1 | 97.6 | 105.1 | 112.6 | 127.6 | 135.1 | 142.6 | 157.6 | 172.6 | 187.6 | 217.6 | 247.6 | 277.6 | 307.6 |
| | 53.1 | 60.6 | 68.1 | 74.4 | 81.9 | 89.4 | 96.9 | 111.9 | 119.4 | 126.9 | 141.9 | 156.9 | 171.9 | 201.9 | 231.9 | 261.9 | 291.9 |
| 1.23 | 66.1 | 73.6 | 81.1 | 87.4 | 94.9 | 102.4 | 109.9 | 124.9 | 132.4 | 139.9 | 154.9 | 169.9 | 184.9 | 214.9 | 244.9 | 274.9 | 304.9 |
| 1.24 | 70.4 | 77.9 | 85.4 | 91.7 | 99.2 | 106.7 | 114.2 | 129.2 | 136.7 | 144.2 | 159.2 | 174.2 | 189.2 | 219.2 | 249.2 | 279.2 | 309.2 |
| | 63.4 | 70.9 | 78.4 | 84.6 | 92.1 | 99.6 | 107.1 | 122.1 | 129.6 | 137.1 | 152.1 | 167.1 | 182.1 | 212.1 | 242.1 | 272.1 | 302.1 |
| 1.27 | 66.5 | 74.0 | 81.5 | 87.8 | 95.3 | 102.8 | 110.3 | 125.3 | 132.8 | 140.3 | 155.3 | 170.3 | 185.3 | 215.3 | 245.3 | 275.3 | 305.3 |
| 1.28 | 70.0 | 77.5 | 85.0 | 91.3 | 98.8 | 106.3 | 113.8 | 128.8 | 136.3 | 143.8 | 158.8 | 173.8 | 188.8 | 218.8 | 248.8 | 278.8 | 308.8 |
| | 63.7 | 71.2 | 78.8 | 85.0 | 92.5 | 100.0 | 107.5 | 122.5 | 130.0 | 137.5 | 152.5 | 167.5 | 182.5 | 212.5 | 242.5 | 272.5 | 302.5 |
| 1.32 | 69.6 | 77.1 | 84.6 | 90.9 | 98.4 | 105.9 | 113.4 | 128.4 | 135.9 | 143.4 | 158.4 | 173.4 | 188.4 | 218.4 | 248.4 | 278.4 | 308.4 |
| | 66.9 | 74.4 | 81.9 | 88.1 | 95.6 | 103.1 | 110.6 | 125.7 | 133.2 | 140.7 | 155.7 | 170.7 | 185.7 | 215.7 | 245.7 | 275.7 | 305.7 |
| | 64.1 | 71.6 | 79.1 | 85.4 | 92.9 | 100.4 | 107.9 | 122.9 | 130.4 | 137.9 | 152.9 | 167.9 | 182.9 | 212.9 | 242.9 | 272.9 | 302.9 |
| 1.36 | 61.7 | 69.3 | 76.8 | 83.0 | 90.5 | 98.0 | 105.5 | 120.5 | 128.0 | 135.5 | 150.5 | 165.5 | 180.5 | 210.5 | 240.6 | 270.6 | 300.6 |
| | 64.5 | 72.0 | 79.5 | 85.8 | 93.3 | 100.8 | 108.3 | 123.3 | 130.8 | 138.3 | 153.3 | 168.3 | 183.3 | 213.3 | 243.3 | 273.3 | 303.3 |
| 1.37 | 67.3 | 74.8 | 82.3 | 88.5 | 96.0 | 103.5 | 111.0 | 126.0 | 133.5 | 141.0 | 156.0 | 171.0 | 186.0 | 216.1 | 246.1 | 276.1 | 306.1 |
| 1.40 | 62.1 | 69.6 | 77.1 | 83.4 | 90.9 | 98.4 | 105.9 | 120.9 | 128.4 | 135.9 | 150.9 | 165.9 | 180.9 | 210.9 | 240.9 | 270.9 | 300.9 |
| 1.41 | 64.9 | 72.4 | 79.9 | 86.2 | 93.7 | 101.2 | 108.7 | 123.7 | 131.2 | 138.7 | 153.7 | 168.7 | 183.7 | 213.7 | 243.7 | 273.7 | 303.7 |
| 1.45 | 62.5 | 70.0 | 77.5 | 83.8 | 91.3 | 98.8 | 106.3 | 121.3 | 128.8 | 136.3 | 151.3 | 166.3 | 181.3 | 211.3 | 241.3 | 271.3 | 301.3 |
| 1.46 | 65.3 | 72.8 | 80.3 | 86.5 | 94.0 | 101.6 | 109.1 | 124.1 | 131.6 | 139.1 | 154.1 | 169.1 | 184.1 | 214.1 | 244.1 | 274.1 | 304.1 |
| 1.48 | 68.0 | 75.5 | 83.0 | 89.3 | 96.8 | 104.3 | 111.8 | 126.8 | 134.3 | 141.8 | 156.8 | 171.8 | 186.8 | 216.8 | 246.8 | 276.8 | 306.8 |
| | 56.1 | 63.7 | 71.2 | 77.4 | 85.0 | 92.5 | 100.0 | 115.0 | 122.5 | 130.0 | 145.0 | 160.0 | 175.0 | 205.0 | 235.0 | 265.0 | 295.0 |
| 1.49 | 48.2 | 55.7 | 63.2 | 69.5 | 77.0 | 84.5 | 92.1 | 107.1 | 114.6 | 122.1 | 137.1 | 152.1 | 167.1 | 197.1 | 227.2 | 257.2 | 287.2 |
| | **0.93** | **0.95** | **0.97** | **0.98** | **0.99** | **1.00** | **1.02** | **1.04** | **1.05** | **1.06** | **1.08** | **1.09** | **1.11** | **1.14** | **1.16** | **1.18** | **1.19** |

# Selection

## Stock Drive Selection

**D** | **S-L CLASSIC**

| Ratio | Stock Shv. Datum Diam. | | 1160 RPM Driver | | 870 RPM Driver | | 690 RPM Driver | | Belt Size/Center Distance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Driver | Driven | Driven RPM | HP/Belt D | Driven RPM | HP/Belt D | Driven RPM | HP/Belt D | D120 | D128 | D144 | D158 | D162 | D173 |
| **1.50** | 14.50 | 22.00 | 775 | 43.24 | 581 | 37.14 | 461 | 31.75 | 32.8 | 36.8 | 44.8 | 51.9 | 53.9 | 59.4 |
| **1.51** | 13.00 | 20.00 | 766 | 37.16 | 574 | 31.65 | 456 | 26.99 | 35.6 | 39.6 | 47.6 | 54.6 | 56.6 | 62.1 |
| **1.55** | 14.00 | 22.00 | 749 | 41.38 | 562 | 35.42 | 446 | 30.24 | 33.1 | 37.2 | 45.2 | 52.2 | 54.2 | 59.8 |
| **1.60** | 13.50 | 22.00 | 724 | 39.44 | 543 | 33.65 | 430 | 28.71 | 33.5 | 37.5 | 45.6 | 52.6 | 54.6 | 60.1 |
| **1.63** | 12.00 | 20.00 | 710 | 33.00 | 532 | 27.99 | 422 | 23.85 | 36.3 | 40.3 | 48.4 | 55.4 | 57.4 | 62.9 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **0.84** | **0.85** | **0.88** | **0.90** | **0.91** | **0.92** |
| **1.66** | 13.00 | 22.00 | 698 | 37.43 | 524 | 31.85 | 415 | 27.15 | 33.9 | 37.9 | 46.0 | 53.0 | 55.0 | 60.5 |
| | 16.00 | 27.00 | 698 | 49.07 | 523 | 42.62 | 415 | 36.57 | 27.3 | 31.4 | 39.5 | 46.6 | 48.6 | 54.1 |
| **1.71** | 15.50 | 27.00 | 677 | 47.37 | 507 | 40.96 | 403 | 35.08 | 27.7 | 31.8 | 39.9 | 46.9 | 48.9 | 54.5 |
| **1.77** | 15.00 | 27.00 | 656 | 45.58 | 492 | 39.25 | 390 | 33.57 | 28.0 | 32.1 | 40.2 | 47.3 | 49.3 | 54.9 |
| **1.79** | 12.00 | 22.00 | 647 | 33.19 | 485 | 28.13 | 385 | 23.96 | 34.6 | 38.6 | 46.7 | 53.7 | 55.7 | 61.3 |
| **1.80** | 22.00 | 40.00 | 646 | – | 484 | 60.65 | 384 | 53.47 | – | – | – | – | 32.7 | 38.4 |
| **1.81** | 18.00 | 33.00 | 642 | 55.62 | 482 | 49.29 | 382 | 42.58 | – | – | 32.8 | 39.9 | 41.9 | 47.5 |
| **1.83** | 14.50 | 27.00 | 635 | 43.73 | 476 | 37.51 | 378 | 32.04 | 28.4 | 32.5 | 40.6 | 47.7 | 49.7 | 55.2 |
| **1.89** | 14.00 | 27.00 | 614 | 41.80 | 460 | 35.74 | 365 | 30.49 | 28.7 | 32.8 | 40.9 | 48.0 | 50.0 | 55.6 |
| **1.96** | 13.50 | 27.00 | 593 | 39.80 | 444 | 33.93 | 353 | 28.92 | 29.1 | 33.2 | 41.3 | 48.4 | 50.4 | 56.0 |
| **2.02** | 16.00 | 33.00 | 573 | 49.38 | 430 | 42.86 | 341 | 36.75 | – | 25.8 | 34.1 | 41.3 | 43.4 | 48.9 |
| **2.03** | 13.00 | 27.00 | 572 | 37.74 | 429 | 32.09 | 340 | 27.34 | 29.4 | 33.5 | 41.7 | 48.7 | 50.8 | 56.3 |
| **2.09** | 15.50 | 33.00 | 556 | 47.64 | 417 | 41.16 | | 35.24 | – | 26.1 | 34.5 | 41.7 | 43.7 | 49.3 |
| **2.15** | 22.00 | 48.00 | 539 | – | 405 | 60.81 | 321 | 53.60 | – | – | – | – | – | – |
| | 15.00 | 33.00 | 539 | 45.82 | 404 | 39.43 | 320 | 33.72 | – | 26.4 | 34.8 | 42.0 | 44.1 | 49.7 |
| **2.18** | 18.00 | 40.00 | 531 | 55.84 | 399 | 49.45 | 316 | 42.71 | – | – | – | 33.3 | 35.4 | 41.1 |
| **2.19** | 12.00 | 27.00 | 530 | 33.43 | 397 | 28.31 | 315 | 24.10 | 30.1 | 34.2 | 42.4 | 49.5 | 51.5 | 57.0 |
| **2.23** | 14.50 | 33.00 | 521 | 43.94 | 391 | 37.67 | 310 | 32.17 | – | 26.8 | 35.1 | 42.4 | 44.4 | 50.0 |
| **2.30** | 14.00 | 33.00 | 504 | 41.99 | 378 | 35.88 | 300 | 30.61 | – | 27.1 | 35.5 | 42.7 | 44.7 | 50.4 |
| **2.38** | 13.50 | 33.00 | 487 | 39.97 | 365 | 34.05 | 290 | 29.02 | – | 27.4 | 35.8 | 43.0 | 45.1 | 50.7 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **0.80** | **0.82** | **0.86** | **0.88** | **0.89** | **0.90** |
| **2.45** | 16.00 | 40.00 | 474 | 49.53 | 356 | 42.96 | 282 | 36.84 | – | – | – | 34.6 | 36.7 | 42.5 |
| **2.47** | 13.00 | 33.00 | 470 | 37.89 | 352 | 32.19 | 279 | 27.42 | 23.4 | 27.7 | 36.2 | 43.4 | 45.4 | 51.1 |
| **2.52** | 15.50 | 40.00 | 460 | 47.77 | 345 | 41.26 | 274 | 35.32 | – | – | – | 34.9 | 37.1 | 42.8 |
| **2.59** | 22.00 | 58.00 | 447 | – | 336 | 60.89 | 266 | 53.67 | – | – | – | – | – | – |
| **2.60** | 15.00 | 40.00 | 446 | 45.94 | 334 | 39.52 | 265 | 33.78 | – | – | 27.6 | 35.3 | 37.4 | 43.2 |
| **2.61** | 18.00 | 48.00 | 444 | 55.94 | 333 | 49.53 | 264 | 42.77 | – | – | – | – | – | – |
| **2.67** | 12.00 | 33.00 | 435 | 33.54 | 326 | 28.39 | 259 | 24.16 | 24.0 | 28.4 | 36.8 | 44.1 | 46.1 | 51.8 |
| **2.69** | 14.50 | 40.00 | 431 | 44.04 | 324 | 37.75 | 257 | 32.23 | – | – | 28.0 | 35.6 | 37.7 | 43.5 |
| **2.78** | 14.00 | 40.00 | 417 | 42.08 | 313 | 35.95 | 248 | 30.66 | – | – | 28.3 | 35.9 | 38.0 | 43.8 |
| **2.88** | 13.50 | 40.00 | 403 | 40.05 | 302 | 34.11 | 240 | 29.07 | – | – | 28.6 | 36.2 | 38.4 | 44.2 |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | **0.79** | **0.82** | **0.86** | **0.88** | **0.89** | **0.90** |
| **2.93** | 16.00 | 48.00 | 396 | 49.60 | 297 | 43.02 | 236 | 36.88 | – | – | – | – | – | 34.2 |
| **2.99** | 13.00 | 40.00 | 389 | 37.96 | 291 | 32.25 | 231 | 27.46 | – | – | 28.9 | 36.6 | 38.7 | 44.5 |
| **3.02** | 15.50 | 48.00 | 384 | 47.83 | 288 | 41.31 | 229 | 35.36 | – | – | – | – | – | 34.5 |
| **3.12** | 15.00 | 48.00 | 372 | 46.00 | 279 | 39.56 | 221 | 33.82 | – | – | – | – | – | 34.8 |
| **3.15** | 18.00 | 58.00 | 368 | 56.00 | 276 | 49.57 | 219 | 42.81 | – | – | – | – | – | – |
| **3.22** | 14.50 | 48.00 | 360 | 44.09 | 270 | 37.79 | 214 | 32.26 | – | – | – | – | – | 35.1 |
| **3.22** | 12.00 | 40.00 | 360 | 33.59 | 270 | 28.43 | 214 | 24.20 | – | – | 29.5 | 37.2 | 39.3 | 45.2 |
| **3.33** | 14.00 | 48.00 | 348 | 42.13 | 261 | 35.98 | 207 | 30.69 | – | – | – | – | – | 35.4 |
| **3.45** | 13.50 | 48.00 | 337 | 40.09 | 252 | 34.14 | 200 | 29.10 | – | – | – | – | – | 35.7 |
| **3.53** | 16.00 | 58.00 | 329 | 49.64 | 246 | 43.05 | 195 | 36.90 | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | – | **0.75** | **0.81** | **0.82** | **0.85** |
| **3.57** | 13.00 | 48.00 | 325 | 38.00 | 243 | 32.28 | 193 | 27.49 | – | – | – | – | – | 36.0 |
| **3.64** | 15.50 | 58.00 | 319 | 47.87 | 239 | 41.34 | 190 | 35.38 | – | – | – | – | – | – |
| **3.76** | 15.00 | 58.00 | 309 | 46.03 | 232 | 39.59 | 184 | 33.84 | – | – | – | – | – | – |
| **3.86** | 12.00 | 48.00 | 301 | 33.63 | 226 | 28.45 | 179 | 24.22 | – | – | – | – | 30.2 | 36.6 |
| **3.88** | 14.50 | 58.00 | 299 | 44.13 | 224 | 37.81 | 178 | 32.28 | – | – | – | – | – | – |
| **4.01** | 14.00 | 58.00 | 289 | 42.16 | 217 | 36.00 | 172 | 30.71 | – | – | – | – | – | – |
| **4.16** | 13.50 | 58.00 | 279 | 40.12 | 209 | 34.17 | 166 | 29.11 | – | – | – | – | – | – |
| **4.31** | 13.00 | 58.00 | 269 | 38.02 | 202 | 32.30 | 160 | 27.50 | – | – | – | – | – | – |
| **4.65** | 12.00 | 58.00 | 249 | 33.65 | 187 | 28.47 | 148 | 24.23 | – | – | – | – | – | – |
| **ARC-LENGTH CORRECTION FACTOR —>** | | | | | | | | | – | – | – | – | **0.74** | **0.77** |

# Selection

## Stock Drive Selection

| D | S-L CLASSIC |
|---|---|

| Ratio | Belt Size/Center Distance | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | D180 | D195 | D210 | D225 | D240 | D255 | D270 | D300 | D315 | D330 | D360 | D390 | D420 | D480 | D540 | D600 | D660 |
| 1.50 | 62.9 | 70.4 | 77.9 | 84.9 | 91.7 | 99.2 | 106.7 | 121.7 | 129.2 | 136.7 | 151.7 | 166.7 | 181.7 | 211.7 | 241.7 | 271.7 | 301.7 |
| 1.51 | 65.7 | 73.2 | 80.7 | 86.9 | 94.4 | 101.9 | 109.4 | 124.4 | 131.9 | 139.5 | 154.5 | 169.5 | 184.5 | 214.5 | 244.5 | 274.5 | 304.5 |
| 1.55 | 63.3 | 70.8 | 78.3 | 84.5 | 92.1 | 99.6 | 107.1 | 122.1 | 129.6 | 137.1 | 152.1 | 167.1 | 182.1 | 212.1 | 242.1 | 272.1 | 302.1 |
| 1.60 | 63.6 | 71.2 | 78.7 | 84.9 | 92.4 | 99.9 | 107.4 | 122.5 | 130.0 | 137.5 | 152.5 | 167.5 | 182.5 | 212.5 | 242.5 | 272.5 | 302.5 |
| 1.63 | 66.4 | 73.9 | 81.4 | 87.7 | 95.2 | 102.7 | 110.2 | 125.2 | 132.7 | 140.2 | 155.2 | 170.2 | 185.2 | 215.2 | 245.2 | 275.3 | 305.3 |
| | 0.93 | 0.95 | 0.96 | 0.98 | 0.99 | 1.00 | 1.02 | 1.04 | 1.05 | 1.06 | 1.08 | 1.09 | 1.11 | 1.14 | 1.16 | 1.18 | 1.19 |
| 1.66 | 64.0 | 71.5 | 79.0 | 85.3 | 92.8 | 100.3 | 107.8 | 122.8 | 130.3 | 137.9 | 152.9 | 167.9 | 182.9 | 212.9 | 242.9 | 272.9 | 302.9 |
| | 57.6 | 65.2 | 72.7 | 79.0 | 86.5 | 94.0 | 101.5 | 116.5 | 124.0 | 131.5 | 146.5 | 161.6 | 176.6 | 206.6 | 236.6 | 266.6 | 296.6 |
| 1.71 | 58.0 | 65.5 | 73.1 | 79.3 | 86.8 | 94.4 | 101.9 | 116.9 | 124.4 | 131.9 | 146.9 | 161.9 | 176.9 | 207.0 | 237.0 | 267.0 | 297.0 |
| 1.77 | 58.4 | 65.9 | 73.4 | 79.7 | 87.2 | 94.7 | 102.3 | 117.3 | 124.8 | 132.3 | 147.3 | 162.3 | 177.3 | 207.3 | 237.4 | 267.4 | 297.4 |
| 1.79 | 64.8 | 72.3 | 79.8 | 86.1 | 93.6 | 101.1 | 108.6 | 123.6 | 131.1 | 138.6 | 153.6 | 168.6 | 183.6 | 213.7 | 243.7 | 273.7 | 303.7 |
| 1.80 | 42.0 | 49.7 | 57.3 | 63.6 | 71.2 | 78.7 | 86.3 | 101.3 | 108.9 | 116.4 | 131.4 | 146.5 | 161.5 | 191.5 | 221.5 | 251.6 | 281.6 |
| 1.81 | 51.1 | 58.6 | 66.2 | 72.5 | 80.0 | 87.5 | 95.1 | 110.1 | 117.6 | 125.1 | 140.2 | 155.2 | 170.2 | 200.2 | 230.2 | 260.3 | 290.3 |
| 1.83 | 58.7 | 66.3 | 73.8 | 80.1 | 87.6 | 95.1 | 102.6 | 117.7 | 125.2 | 132.7 | 147.7 | 162.7 | 177.7 | 207.7 | 237.7 | 267.7 | 297.8 |
| 1.89 | 59.1 | 66.6 | 74.2 | 80.5 | 88.0 | 95.5 | 103.0 | 118.0 | 125.5 | 133.1 | 148.1 | 163.1 | 178.1 | 208.1 | 238.1 | 268.1 | 298.1 |
| 1.96 | 59.5 | 67.0 | 74.6 | 80.8 | 88.3 | 95.9 | 103.4 | 118.4 | 125.9 | 133.4 | 148.5 | 163.5 | 178.5 | 208.5 | 238.5 | 268.5 | 298.5 |
| 2.02 | 52.5 | 60.1 | 67.7 | 73.9 | 81.5 | 89.0 | 96.6 | 111.6 | 119.1 | 126.6 | 141.7 | 156.7 | 171.7 | 201.8 | 231.8 | 261.8 | 291.8 |
| 2.03 | 59.8 | 67.4 | 74.9 | 81.2 | 88.7 | 96.2 | 103.8 | 118.8 | 126.3 | 133.8 | 148.8 | 163.9 | 178.9 | 208.9 | 238.9 | 268.9 | 298.9 |
| 2.09 | 52.9 | 60.4 | 68.0 | 74.3 | 81.9 | 89.4 | 96.9 | 112.0 | 119.5 | 127.0 | 142.1 | 157.1 | 172.1 | 202.1 | 232.2 | 262.2 | 292.2 |
| 2.15 | – | 42.2 | 50.0 | 56.5 | 64.1 | 71.8 | 79.4 | 94.6 | 102.1 | 109.7 | 124.8 | 139.8 | 154.9 | 185.0 | 215.1 | 245.1 | 275.1 |
| | 53.2 | 60.8 | 68.4 | 74.7 | 82.2 | 89.8 | 97.3 | 112.4 | 119.9 | 127.4 | 142.4 | 157.5 | 172.5 | 202.5 | 232.5 | 262.6 | 292.6 |
| 2.18 | 44.8 | 52.5 | 60.1 | 66.5 | 74.1 | 81.6 | 89.2 | 104.3 | 111.8 | 119.4 | 134.4 | 149.5 | 164.5 | 194.6 | 224.6 | 254.6 | 284.7 |
| 2.19 | 60.6 | 68.1 | 75.7 | 81.9 | 89.5 | 97.0 | 104.5 | 119.5 | 127.1 | 134.6 | 149.6 | 164.6 | 179.6 | 209.7 | 239.7 | 269.7 | 299.7 |
| 2.23 | 53.6 | 61.2 | 68.7 | 75.0 | 82.6 | 90.1 | 97.7 | 112.7 | 120.3 | 127.8 | 142.8 | 157.8 | 172.9 | 202.9 | 232.9 | 262.9 | 293.0 |
| 2.30 | 53.9 | 61.5 | 69.1 | 75.4 | 83.0 | 90.5 | 98.0 | 113.1 | 120.6 | 128.2 | 143.2 | 158.2 | 173.2 | 203.3 | 233.3 | 263.3 | 293.4 |
| 2.38 | 54.3 | 61.9 | 69.5 | 75.8 | 83.3 | 90.9 | 98.4 | 113.5 | 121.0 | 128.5 | 143.6 | 158.6 | 173.6 | 203.7 | 233.7 | 263.7 | 293.7 |
| | 0.91 | 0.93 | 0.95 | 0.96 | 0.98 | 0.99 | 1.00 | 1.03 | 1.04 | 1.05 | 1.07 | 1.09 | 1.10 | 1.13 | 1.16 | 1.18 | 1.19 |
| 2.45 | 46.1 | 53.9 | 61.5 | 67.9 | 75.5 | 83.1 | 90.6 | 105.8 | 113.3 | 120.8 | 135.9 | 151.0 | 166.0 | 196.1 | 226.1 | 256.2 | 286.2 |
| 2.47 | 54.6 | 62.2 | 69.8 | 76.1 | 83.7 | 91.2 | 98.8 | 113.9 | 121.4 | 128.9 | 143.9 | 159.0 | 174.0 | 204.0 | 234.1 | 264.1 | 294.1 |
| 2.52 | 46.5 | 54.2 | 61.9 | 68.2 | 75.8 | 83.4 | 91.0 | 106.1 | 113.7 | 121.2 | 136.3 | 151.3 | 166.4 | 196.5 | 226.5 | 256.5 | 286.6 |
| 2.59 | – | – | – | 46.6 | 54.6 | 62.5 | 70.3 | 85.7 | 93.4 | 101.0 | 116.2 | 131.4 | 146.5 | 176.7 | 206.8 | 236.9 | 267.0 |
| 2.60 | 46.8 | 54.5 | 62.2 | 68.6 | 76.2 | 83.8 | 91.4 | 106.5 | 114.0 | 121.6 | 136.7 | 151.7 | 166.8 | 196.8 | 226.9 | 256.9 | 287.0 |
| 2.61 | 36.8 | 44.8 | 52.7 | 59.2 | 66.9 | 74.6 | 82.2 | 97.4 | 105.0 | 112.6 | 127.7 | 142.8 | 157.9 | 188.0 | 218.1 | 248.1 | 278.2 |
| 2.67 | 55.3 | 62.9 | 70.5 | 76.9 | 84.4 | 92.0 | 99.5 | 114.6 | 122.1 | 129.6 | 144.7 | 159.7 | 174.8 | 204.8 | 234.8 | 264.9 | 294.9 |
| 2.69 | 47.1 | 54.9 | 62.6 | 68.9 | 76.6 | 84.2 | 91.7 | 106.9 | 114.4 | 122.0 | 137.0 | 152.1 | 167.1 | 197.2 | 227.3 | 257.3 | 287.3 |
| 2.78 | 47.5 | 55.2 | 62.9 | 69.3 | 76.9 | 84.5 | 92.1 | 107.2 | 114.8 | 122.3 | 137.4 | 152.5 | 167.5 | 197.6 | 227.6 | 257.7 | 287.7 |
| 2.88 | 47.8 | 55.6 | 63.3 | 69.6 | 77.3 | 84.9 | 92.5 | 107.6 | 115.1 | 122.7 | 137.8 | 152.8 | 167.9 | 198.0 | 228.0 | 258.1 | 288.1 |
| | 0.91 | 0.93 | 0.95 | 0.96 | 0.98 | 0.99 | 1.00 | 1.03 | 1.04 | 1.05 | 1.07 | 1.09 | 1.10 | 1.13 | 1.16 | 1.18 | 1.19 |
| 2.93 | 38.0 | 46.1 | 54.0 | 60.5 | 68.3 | 76.0 | 83.6 | 98.9 | 106.5 | 114.0 | 129.2 | 144.3 | 159.4 | 189.5 | 219.6 | 249.6 | 279.7 |
| 2.99 | 48.2 | 55.9 | 63.6 | 70.0 | 77.6 | 85.2 | 92.8 | 108.0 | 115.5 | 123.1 | 138.1 | 153.2 | 168.3 | 198.3 | 228.4 | 258.4 | 288.5 |
| 3.02 | 38.4 | 46.5 | 54.4 | 60.9 | 68.6 | 76.3 | 84.0 | 99.2 | 106.8 | 114.4 | 129.5 | 144.6 | 159.7 | 189.9 | 220.0 | 250.0 | 280.1 |
| 3.12 | 38.7 | 46.8 | 54.7 | 61.2 | 69.0 | 76.7 | 84.3 | 99.6 | 107.2 | 114.8 | 129.9 | 145.0 | 160.1 | 190.2 | 220.3 | 250.4 | 280.5 |
| 3.15 | – | – | 42.3 | 49.2 | 57.2 | 65.2 | 73.0 | 88.5 | 96.2 | 103.8 | 119.1 | 134.3 | 149.4 | 179.6 | 209.8 | 239.9 | 270.0 |
| 3.22 | 39.0 | 47.1 | 55.0 | 61.6 | 69.3 | 77.0 | 84.7 | 99.9 | 107.5 | 115.1 | 130.3 | 145.4 | 160.5 | 190.6 | 220.7 | 250.8 | 280.8 |
| | 48.8 | 56.6 | 64.3 | 70.7 | 78.3 | 85.9 | 93.5 | 108.7 | 116.2 | 123.8 | 138.9 | 153.9 | 169.0 | 199.1 | 229.2 | 259.2 | 289.2 |
| 3.33 | 39.3 | 47.4 | 55.4 | 61.9 | 69.7 | 77.4 | 85.0 | 100.3 | 107.9 | 115.5 | 130.6 | 145.7 | 160.8 | 191.0 | 221.1 | 251.2 | 281.2 |
| 3.45 | 39.6 | 47.8 | 55.7 | 62.2 | 70.0 | 77.7 | 85.4 | 100.6 | 108.2 | 115.8 | 131.0 | 146.1 | 161.2 | 191.3 | 221.5 | 251.5 | 281.6 |
| 3.53 | – | – | 43.5 | 50.4 | 58.5 | 66.5 | 74.3 | 89.9 | 97.5 | 105.2 | 120.5 | 135.7 | 150.8 | 181.1 | 211.3 | 241.4 | 271.5 |
| | 0.86 | 0.89 | 0.91 | 0.93 | 0.95 | 0.97 | 0.98 | 1.01 | 1.02 | 1.03 | 1.05 | 1.07 | 1.09 | 1.12 | 1.15 | 1.17 | 1.18 |
| 3.57 | 39.9 | 48.1 | 56.0 | 62.6 | 70.3 | 78.1 | 85.7 | 101.0 | 108.6 | 116.2 | 131.3 | 146.5 | 161.6 | 191.7 | 221.8 | 251.9 | 282.0 |
| 3.64 | – | – | 43.8 | 50.8 | 58.9 | 66.8 | 74.7 | 90.2 | 97.9 | 105.6 | 120.8 | 136.0 | 151.2 | 181.5 | 211.6 | 241.8 | 271.9 |
| 3.76 | – | – | 44.1 | 51.1 | 59.2 | 67.2 | 75.0 | 90.5 | 98.2 | 105.9 | 121.2 | 136.4 | 151.6 | 181.8 | 212.0 | 242.1 | 272.2 |
| 3.86 | 40.6 | 48.7 | 56.7 | 63.2 | 71.0 | 78.7 | 86.4 | 101.7 | 109.3 | 116.9 | 132.1 | 147.2 | 162.3 | 192.5 | 222.6 | 252.7 | 282.7 |
| 3.88 | – | – | 44.4 | 51.4 | 59.5 | 67.5 | 75.3 | 90.9 | 98.6 | 106.3 | 121.5 | 136.8 | 151.9 | 182.2 | 212.4 | 242.5 | 272.6 |
| 4.01 | – | – | 44.7 | 51.7 | 59.8 | 67.8 | 75.7 | 91.2 | 98.9 | 106.6 | 121.9 | 137.1 | 152.3 | 182.6 | 212.7 | 242.9 | 273.0 |
| 4.16 | – | 36.2 | 45.0 | 52.0 | 60.2 | 68.1 | 76.0 | 91.6 | 99.3 | 107.0 | 122.2 | 137.5 | 152.7 | 182.9 | 213.1 | 243.3 | 273.4 |
| 4.31 | – | 36.5 | 45.3 | 52.3 | 60.5 | 68.5 | 76.3 | 91.9 | 99.6 | 107.3 | 122.6 | 137.8 | 153.0 | 183.3 | 213.5 | 243.6 | 273.7 |
| 4.65 | – | 37.1 | 45.9 | 53.0 | 61.1 | 69.1 | 77.0 | 92.6 | 100.3 | 108.0 | 123.3 | 138.5 | 153.7 | 184.0 | 214.2 | 244.4 | 274.5 |
| | 0.80 | 0.85 | 0.88 | 0.90 | 0.93 | 0.95 | 0.96 | 0.99 | 1.00 | 1.02 | 1.04 | 1.06 | 1.08 | 1.11 | 1.14 | 1.16 | 1.17 |

# Selection

## Basic Horsepower Ratings

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2.2 | 2.6 | 3.0 | | 3.2 | | 3.4 | | 3.6 | | 3.8 | | 4.0 | | 4.2 | | 4.6 | | 4.8 | | 5.0 | |
| | AX | AX | A | AX | A | AX | A | AX | A | AX | A | AX | A | AX | A | AX | A | AX | A | AX | A | AX |
| 870 | 1.02 | 1.40 | 1.31 | 1.78 | 1.51 | 1.96 | 1.71 | 2.14 | 1.91 | 2.32 | 2.10 | 2.50 | 2.30 | 2.68 | 2.49 | 2.86 | 2.87 | 3.20 | 3.06 | 3.38 | 3.25 | 3.55 |
| 1160 | 1.22 | 1.70 | 1.62 | 2.18 | 1.87 | 2.41 | 2.13 | 2.64 | 2.38 | 2.87 | 2.63 | 3.10 | 2.88 | 3.32 | 3.13 | 3.55 | 3.62 | 3.98 | 3.85 | 4.20 | 4.10 | 4.42 |
| 1750 | 1.52 | 2.21 | 2.13 | 2.87 | 2.50 | 3.20 | 2.86 | 3.52 | 3.21 | 3.83 | 3.57 | 4.15 | 3.92 | 4.46 | 4.26 | 4.77 | 4.94 | 5.37 | 5.28 | 5.67 | 5.61 | 5.96 |
| 3500 | 1.97 | 3.14 | 3.02 | 4.26 | 3.63 | 4.80 | 4.22 | 5.34 | 4.80 | 5.86 | 5.36 | 6.37 | 5.91 | 6.88 | 6.44 | 7.37 | 7.44 | 8.32 | 7.92 | 8.78 | 8.38 | 9.23 |
| 100 | 0.21 | 0.27 | 0.23 | 0.33 | 0.26 | 0.36 | 0.29 | 0.38 | 0.32 | 0.41 | 0.35 | 0.44 | 0.37 | 0.47 | 0.40 | 0.50 | 0.46 | 0.55 | 0.46 | 0.58 | 0.51 | 0.61 |
| 200 | 0.36 | 0.47 | 0.42 | 0.57 | 0.47 | 0.63 | 0.52 | 0.68 | 0.57 | 0.73 | 0.63 | 0.78 | 0.68 | 0.83 | 0.73 | 0.88 | 0.83 | 0.99 | 0.88 | 1.04 | 0.93 | 1.09 |
| 300 | 0.49 | 0.64 | 0.58 | 0.79 | 0.65 | 0.87 | 0.73 | 0.94 | 0.81 | 1.02 | 0.88 | 1.09 | 0.96 | 1.16 | 1.03 | 1.23 | 1.18 | 1.38 | 1.25 | 1.45 | 1.33 | 1.52 |
| 400 | 0.60 | 0.80 | 0.72 | 0.99 | 0.82 | 1.09 | 0.92 | 1.18 | 1.02 | 1.28 | 1.12 | 1.37 | 1.22 | 1.46 | 1.31 | 1.56 | 1.50 | 1.74 | 1.60 | 1.83 | 1.70 | 1.92 |
| 500 | 0.70 | 0.94 | 0.86 | 1.18 | 0.98 | 1.29 | 1.10 | 1.41 | 1.22 | 1.52 | 1.34 | 1.63 | 1.46 | 1.75 | 1.58 | 1.86 | 1.82 | 2.08 | 1.93 | 2.19 | 2.05 | 2.29 |
| 600 | 0.80 | 1.08 | 0.99 | 1.35 | 1.14 | 1.49 | 1.28 | 1.62 | 1.42 | 1.75 | 1.56 | 1.88 | 1.70 | 2.01 | 1.84 | 2.14 | 2.11 | 2.40 | 2.25 | 2.53 | 2.39 | 2.65 |
| 700 | 0.88 | 1.20 | 1.12 | 1.52 | 1.28 | 1.67 | 1.44 | 1.82 | 1.61 | 1.97 | 1.77 | 2.12 | 1.93 | 2.27 | 2.09 | 2.42 | 2.40 | 2.71 | 2.56 | 2.85 | 2.72 | 3.00 |
| 800 | 0.97 | 1.32 | 1.23 | 1.67 | 1.42 | 1.84 | 1.60 | 2.01 | 1.78 | 2.18 | 1.97 | 2.35 | 2.15 | 2.52 | 2.33 | 2.68 | 2.68 | 3.00 | 2.86 | 3.17 | 3.03 | 3.32 |
| 900 | 1.04 | 1.44 | 1.35 | 1.82 | 1.55 | 2.01 | 1.75 | 2.20 | 1.96 | 2.38 | 2.16 | 2.57 | 2.36 | 2.75 | 2.56 | 2.93 | 2.95 | 3.29 | 3.15 | 3.47 | 3.34 | 3.64 |
| 1000 | 1.11 | 1.54 | 1.45 | 1.96 | 1.68 | 2.17 | 1.90 | 2.37 | 2.12 | 2.58 | 2.34 | 2.78 | 2.56 | 2.98 | 2.78 | 3.17 | 3.21 | 3.56 | 3.43 | 3.76 | 3.64 | 3.95 |
| 1100 | 1.18 | 1.64 | 1.56 | 2.10 | 1.80 | 2.32 | 2.04 | 2.54 | 2.29 | 2.76 | 2.52 | 2.98 | 2.76 | 3.20 | 3.00 | 3.41 | 3.47 | 3.83 | 3.70 | 4.04 | 3.93 | 4.24 |
| 1200 | 1.24 | 1.74 | 1.66 | 2.23 | 1.92 | 2.47 | 2.18 | 2.71 | 2.44 | 2.94 | 2.70 | 3.18 | 2.96 | 3.41 | 3.21 | 3.64 | 3.71 | 4.09 | 3.96 | 4.31 | 4.21 | 4.53 |
| 1300 | 1.30 | 1.83 | 1.75 | 2.36 | 2.03 | 2.61 | 2.31 | 2.87 | 2.59 | 3.12 | 2.87 | 3.37 | 3.14 | 3.61 | 3.41 | 3.86 | 3.95 | 4.34 | 4.22 | 4.57 | 4.48 | 4.81 |
| 1400 | 1.35 | 1.92 | 1.84 | 2.46 | 2.14 | 2.75 | 2.44 | 3.02 | 2.74 | 3.29 | 3.03 | 3.55 | 3.32 | 3.81 | 3.61 | 4.07 | 4.18 | 4.58 | 4.47 | 4.83 | 4.75 | 5.08 |
| 1500 | 1.41 | 2.01 | 1.93 | 2.59 | 2.25 | 2.88 | 2.57 | 3.17 | 2.88 | 3.45 | 3.19 | 3.73 | 3.50 | 4.00 | 3.81 | 4.28 | 4.41 | 4.81 | 4.71 | 5.08 | 5.00 | 5.34 |
| 1600 | 1.46 | 2.09 | 2.01 | 2.71 | 2.35 | 3.01 | 2.69 | 3.31 | 3.02 | 3.61 | 3.35 | 3.90 | 3.67 | 4.19 | 3.99 | 4.48 | 4.63 | 5.04 | 4.94 | 5.32 | 5.25 | 5.59 |
| 1700 | 1.50 | 2.17 | 2.09 | 2.82 | 2.45 | 3.13 | 2.80 | 3.45 | 3.15 | 3.76 | 3.49 | 4.07 | 3.84 | 4.37 | 4.17 | 4.67 | 4.84 | 5.26 | 5.17 | 5.55 | 5.49 | 5.84 |
| 1800 | 1.55 | 2.24 | 2.17 | 2.92 | 2.54 | 3.26 | 2.91 | 3.58 | 3.28 | 3.91 | 3.64 | 4.23 | 4.00 | 4.55 | 4.35 | 4.86 | 5.05 | 5.46 | 5.39 | 5.78 | 5.73 | 6.08 |
| 1900 | 1.59 | 2.32 | 2.25 | 3.02 | 2.64 | 3.37 | 3.02 | 3.71 | 3.40 | 4.05 | 3.78 | 4.39 | 4.15 | 4.72 | 4.52 | 5.05 | 5.24 | 5.69 | 5.60 | 6.00 | 5.95 | 6.32 |
| 2000 | 1.63 | 2.38 | 2.32 | 3.12 | 2.72 | 3.48 | 3.13 | 3.84 | 3.52 | 4.19 | 3.91 | 4.54 | 4.30 | 4.88 | 4.68 | 5.22 | 5.44 | 5.89 | 5.81 | 6.22 | 6.17 | 6.54 |
| 2100 | 1.66 | 2.45 | 2.39 | 3.22 | 2.81 | 3.59 | 3.23 | 3.96 | 3.64 | 4.33 | 4.04 | 4.69 | 4.45 | 5.05 | 4.84 | 5.40 | 5.62 | 6.09 | 6.00 | 6.43 | 6.38 | 6.76 |
| 2200 | 1.70 | 2.52 | 2.45 | 3.31 | 2.89 | 3.70 | 3.32 | 4.08 | 3.75 | 4.46 | 4.17 | 4.84 | 4.59 | 5.20 | 5.00 | 5.57 | 5.80 | 6.28 | 6.19 | 6.63 | 6.58 | 6.98 |
| 2300 | 1.73 | 2.58 | 2.51 | 3.40 | 2.97 | 3.80 | 3.41 | 4.20 | 3.86 | 4.59 | 4.29 | 4.98 | 4.72 | 5.36 | 5.14 | 5.73 | 5.97 | 6.47 | 6.37 | 6.83 | 6.77 | 7.19 |
| 2400 | 1.76 | 2.64 | 2.57 | 3.49 | 3.04 | 3.90 | 3.50 | 4.31 | 3.96 | 4.71 | 4.41 | 5.11 | 4.85 | 5.51 | 5.28 | 5.89 | 6.13 | 6.65 | 6.55 | 7.02 | 6.96 | 7.39 |
| 2500 | 1.79 | 2.69 | 2.63 | 3.57 | 3.11 | 4.00 | 3.59 | 4.42 | 4.06 | 4.84 | 4.52 | 5.25 | 4.97 | 5.65 | 5.42 | 6.05 | 6.29 | 6.83 | 6.72 | 7.21 | 7.13 | 7.59 |
| 2600 | 1.81 | 2.75 | 2.68 | 3.65 | 3.18 | 4.09 | 3.67 | 4.53 | 4.15 | 4.95 | 4.63 | 5.38 | 5.09 | 5.79 | 5.55 | 6.20 | 6.44 | 7.00 | 6.87 | 7.39 | 7.30 | 7.78 |
| 2700 | 1.84 | 2.80 | 2.73 | 3.73 | 3.24 | 4.18 | 3.75 | 4.63 | 4.24 | 5.07 | 4.73 | 5.50 | 5.20 | 5.93 | 5.67 | 6.35 | 6.58 | 7.17 | 7.02 | 7.57 | 7.46 | 7.96 |
| 2800 | 1.86 | 2.85 | 2.78 | 3.80 | 3.30 | 4.27 | 3.82 | 4.73 | 4.33 | 5.18 | 4.82 | 5.62 | 5.31 | 6.06 | 5.79 | 6.49 | 6.72 | 7.33 | 7.17 | 7.74 | 7.61 | 8.14 |
| 2900 | 1.88 | 2.90 | 2.82 | 3.88 | 3.36 | 4.35 | 3.89 | 4.82 | 4.41 | 5.29 | 4.92 | 5.74 | 5.41 | 6.19 | 5.90 | 6.63 | 6.85 | 7.49 | 7.30 | 7.90 | 7.74 | 8.32 |
| 3000 | 1.90 | 2.94 | 2.86 | 3.95 | 3.41 | 4.44 | 3.95 | 4.92 | 4.48 | 5.39 | 5.00 | 5.85 | 5.51 | 6.31 | 6.01 | 6.76 | 6.97 | 7.64 | 7.43 | 8.06 | 7.87 | 8.48 |
| 3100 | 1.92 | 2.98 | 2.90 | 4.01 | 3.46 | 4.51 | 4.02 | 5.01 | 4.56 | 5.49 | 5.09 | 5.97 | 5.60 | 6.43 | 6.11 | 6.89 | 7.08 | 7.78 | 7.54 | 8.22 | 8.00 | 8.64 |
| 3200 | 1.93 | 3.03 | 2.94 | 4.08 | 3.51 | 4.59 | 4.07 | 5.09 | 4.62 | 5.59 | 5.16 | 6.07 | 5.69 | 6.55 | 6.20 | 7.02 | 7.18 | 7.93 | 7.65 | 8.37 | 8.11 | 8.80 |
| 3300 | 1.95 | 3.06 | 2.97 | 4.14 | 3.55 | 4.66 | 4.13 | 5.18 | 4.69 | 5.68 | 5.23 | 6.18 | 5.77 | 6.66 | 6.28 | 7.14 | 7.28 | 8.06 | 7.75 | 8.51 | 8.21 | 8.95 |
| 3400 | 1.96 | 3.10 | 3.00 | 4.20 | 3.59 | 4.74 | 4.18 | 5.26 | 4.75 | 5.77 | 5.30 | 6.28 | 5.84 | 6.77 | 6.36 | 7.25 | 7.36 | 8.19 | 7.84 | 8.65 | 8.30 | 9.10 |
| 3500 | 1.97 | 3.14 | 3.02 | 4.26 | 3.63 | 4.80 | 4.22 | 5.34 | 4.80 | 5.86 | 5.36 | 6.37 | 5.91 | 6.88 | 6.44 | 7.37 | 7.44 | 8.32 | 7.92 | 8.78 | 8.38 | 9.23 |
| 3600 | 1.98 | 3.17 | 3.04 | 4.31 | 3.56 | 4.87 | 4.26 | 5.41 | 4.85 | 5.94 | 5.42 | 6.47 | 5.97 | 6.98 | 6.50 | 7.48 | 7.51 | 8.44 | 7.99 | 8.91 | 8.45 | 9.37 |
| 3700 | 1.99 | 3.20 | 3.06 | 4.37 | 3.69 | 4.93 | 4.30 | 5.49 | 4.89 | 6.03 | 5.47 | 6.56 | 6.02 | 7.07 | 6.56 | 7.58 | 7.57 | 8.56 | 8.05 | 9.03 | 8.50 | 9.50 |
| 3800 | 1.99 | 3.23 | 3.08 | 4.42 | 3.71 | 4.99 | 4.33 | 5.55 | 4.93 | 6.10 | 5.51 | 6.64 | 6.07 | 7.17 | 6.61 | 7.68 | 7.63 | 8.67 | 8.10 | 9.15 | 8.55 | 9.62 |
| 3900 | 2.00 | 3.26 | 3.09 | 4.47 | 3.74 | 5.05 | 4.36 | 5.62 | 4.97 | 6.18 | 5.55 | 6.73 | 6.11 | 7.26 | 6.65 | 7.78 | 7.67 | 8.78 | 8.14 | 9.26 | 8.59 | 9.73 |
| 4000 | 2.00 | 3.29 | 3.10 | 4.51 | 3.75 | 5.11 | 4.38 | 5.69 | 4.99 | 6.25 | 5.58 | 6.81 | 6.15 | 7.34 | 6.69 | 7.87 | 7.70 | 8.88 | 8.17 | 9.37 | 8.61 | 9.84 |

# Selection

## Basic Horsepower Ratings

| A | S-L CLASSIC |
|---|---|

| AX | CLASSIC COG |
|---|---|

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. | | | | | | | | | | | | | | Add'l HP/Belt for Speed Ratio of: | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5.2 | | 5.6 | | 5.8 | | 6.0 | | 6.4 | | 6.6 | | 7.0 | | 1.02 | 1.05 | 1.09 | 1.13 | 1.19 | 1.25 | 1.35 | 1.52 | 2.00 |
| | A | AX | A | AX | A | AX | A | AX | A | AX | A | AX | A | AX | 1.04 | 1.08 | 1.12 | 1.18 | 1.24 | 1.34 | 1.51 | 1.99 | and up |
| **870** | 3.44 | 3.72 | 3.81 | 4.05 | 3.99 | 4.22 | 4.18 | 4.38 | 4.54 | 4.71 | 4.72 | 4.87 | 5.08 | 5.19 | 0.03 | 0.05 | 0.08 | 0.10 | 0.13 | 0.15 | 0.16 | 0.20 | 0.23 |
| **1160** | 4.34 | 4.63 | 4.81 | 5.05 | 5.04 | 5.26 | 5.28 | 5.47 | 5.74 | 5.87 | 5.96 | 6.08 | 6.42 | 6.48 | 0.03 | 0.06 | 0.10 | 0.13 | 0.17 | 0.20 | 0.21 | 0.26 | 0.29 |
| **1750** | 5.94 | 6.25 | 6.59 | 6.83 | 6.90 | 7.11 | 7.22 | 7.39 | 7.84 | 7.94 | 8.14 | 8.21 | 8.73 | 8.75 | 0.04 | 0.09 | 0.15 | 0.20 | 0.26 | 0.30 | 0.35 | 0.40 | 0.44 |
| **3500** | 8.82 | 9.68 | 9.64 | 10.53 | 10.02 | 10.94 | 10.38 | 11.34 | 11.03 | 12.10 | 11.32 | 12.47 | – | – | 0.08 | 0.19 | 0.31 | 0.41 | 0.52 | 0.60 | 0.70 | 0.79 | 0.87 |
| **100** | 0.54 | 0.63 | 0.59 | 0.69 | 0.62 | 0.71 | 0.64 | 0.74 | 0.70 | 0.79 | 0.72 | 0.82 | 0.78 | 0.87 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| **200** | 0.98 | 1.13 | 1.09 | 1.23 | 1.14 | 1.28 | 1.19 | 1.33 | 1.29 | 1.43 | 1.34 | 1.47 | 1.43 | 1.57 | 0.00 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 |
| **300** | 1.40 | 1.59 | 1.54 | 1.73 | 1.62 | 1.79 | 1.69 | 1.86 | 1.83 | 2.00 | 1.90 | 2.07 | 2.05 | 2.20 | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 |
| **400** | 1.79 | 2.01 | 1.98 | 2.18 | 2.07 | 2.27 | 2.17 | 2.36 | 2.35 | 2.53 | 2.44 | 2.62 | 2.63 | 2.79 | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.07 | 0.08 | 0.09 | 0.09 |
| **500** | 2.16 | 2.40 | 2.39 | 2.62 | 2.51 | 2.72 | 2.62 | 2.83 | 2.85 | 3.03 | 2.96 | 3.14 | 3.18 | 3.34 | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.08 | 0.10 | 0.11 | 0.12 |
| **600** | 2.52 | 2.78 | 2.79 | 3.03 | 2.93 | 3.15 | 3.06 | 3.27 | 3.33 | 3.51 | 3.46 | 3.63 | 3.72 | 3.87 | 0.01 | 0.03 | 0.05 | 0.07 | 0.09 | 0.10 | 0.12 | 0.13 | 0.15 |
| **700** | 2.87 | 3.14 | 3.18 | 3.42 | 3.33 | 3.56 | 3.49 | 3.70 | 3.79 | 3.97 | 3.94 | 4.11 | 4.24 | 4.38 | 0.02 | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.16 | 0.17 |
| **800** | 3.21 | 3.48 | 3.55 | 3.80 | 3.73 | 3.95 | 3.90 | 4.11 | 4.24 | 4.41 | 4.41 | 4.56 | 4.74 | 4.86 | 0.02 | 0.04 | 0.07 | 0.09 | 0.12 | 0.14 | 0.16 | 0.18 | 0.20 |
| **900** | 3.53 | 3.82 | 3.92 | 4.16 | 4.11 | 4.33 | 4.30 | 4.50 | 4.67 | 4.84 | 4.86 | 5.00 | 5.23 | 5.33 | 0.02 | 0.05 | 0.08 | 0.10 | 0.13 | 0.15 | 0.18 | 0.20 | 0.22 |
| **1000** | 3.85 | 4.14 | 4.27 | 4.51 | 4.48 | 4.70 | 4.68 | 4.88 | 5.09 | 5.25 | 5.29 | 5.43 | 5.70 | 5.78 | 0.02 | 0.05 | 0.09 | 0.11 | 0.15 | 0.17 | 0.20 | 0.22 | 0.25 |
| **1100** | 4.16 | 4.45 | 4.61 | 4.85 | 4.83 | 5.05 | 5.06 | 5.25 | 5.50 | 5.64 | 5.72 | 5.84 | 6.15 | 6.22 | 0.02 | 0.06 | 0.09 | 0.13 | 0.16 | 0.19 | 0.22 | 0.25 | 0.27 |
| **1200** | 4.45 | 4.75 | 4.94 | 5.18 | 5.18 | 5.40 | 5.42 | 5.61 | 5.89 | 6.03 | 6.13 | 6.23 | 6.59 | 6.64 | 0.03 | 0.06 | 0.10 | 0.14 | 0.18 | 0.21 | 0.24 | 0.27 | 0.29 |
| **1300** | 4.74 | 5.04 | 5.26 | 5.50 | 5.52 | 5.73 | 5.77 | 5.95 | 6.27 | 6.40 | 6.52 | 6.62 | 7.01 | 7.05 | 0.03 | 0.07 | 0.11 | 0.15 | 0.19 | 0.22 | 0.26 | 0.29 | 0.32 |
| **1400** | 5.02 | 5.32 | 5.57 | 5.81 | 5.84 | 6.05 | 6.11 | 6.29 | 6.64 | 6.76 | 6.91 | 6.99 | 7.42 | 7.45 | 0.03 | 0.07 | 0.12 | 0.16 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 |
| **1500** | 5.30 | 5.60 | 5.88 | 6.11 | 6.16 | 6.37 | 6.44 | 6.62 | 7.00 | 7.11 | 7.28 | 7.35 | 7.82 | 7.84 | 0.03 | 0.08 | 0.13 | 0.17 | 0.22 | 0.26 | 0.30 | 0.33 | 0.37 |
| **1600** | 5.56 | 5.87 | 6.17 | 6.40 | 6.47 | 6.67 | 6.76 | 6.93 | 7.34 | 7.45 | 7.63 | 7.71 | 8.20 | 8.21 | 0.04 | 0.08 | 0.14 | 0.19 | 0.24 | 0.27 | 0.32 | 0.36 | 0.40 |
| **1700** | 5.82 | 6.13 | 6.45 | 6.69 | 6.76 | 6.97 | 7.07 | 7.24 | 7.68 | 7.78 | 7.97 | 8.05 | 8.56 | 8.57 | 0.04 | 0.09 | 0.15 | 0.20 | 0.25 | 0.29 | 0.34 | 0.38 | 0.42 |
| **1800** | 6.06 | 6.38 | 6.72 | 6.96 | 7.04 | 7.25 | 7.36 | 7.54 | 7.99 | 8.10 | 8.30 | 8.38 | 8.90 | 8.92 | 0.04 | 0.09 | 0.16 | 0.21 | 0.27 | 0.31 | 0.36 | 0.41 | 0.45 |
| **1900** | 6.30 | 6.62 | 6.98 | 7.23 | 7.32 | 7.53 | 7.65 | 7.83 | 8.30 | 8.41 | 8.61 | 8.70 | 9.23 | 9.26 | 0.04 | 0.10 | 0.17 | 0.22 | 0.28 | 0.32 | 0.38 | 0.43 | 0.47 |
| **2000** | 6.53 | 6.86 | 7.23 | 7.49 | 7.58 | 7.80 | 7.92 | 8.11 | 8.59 | 8.71 | 8.91 | 9.01 | 9.55 | 9.59 | 0.05 | 0.11 | 0.18 | 0.23 | 0.29 | 0.34 | 0.40 | 0.45 | 0.49 |
| **2100** | 6.75 | 7.10 | 7.48 | 7.75 | 7.83 | 8.07 | 8.18 | 8.38 | 8.86 | 9.00 | 9.19 | 9.31 | 9.84 | 9.90 | 0.05 | 0.11 | 0.19 | 0.24 | 0.31 | 0.36 | 0.42 | 0.47 | 0.52 |
| **2200** | 6.96 | 7.32 | 7.71 | 7.99 | 8.07 | 8.32 | 8.43 | 8.65 | 9.12 | 9.28 | 9.46 | 9.60 | 10.12 | 10.21 | 0.05 | 0.12 | 0.20 | 0.26 | 0.32 | 0.38 | 0.44 | 0.49 | 0.55 |
| **2300** | 7.16 | 7.54 | 7.93 | 8.23 | 8.30 | 8.57 | 8.66 | 8.90 | 9.37 | 9.56 | 9.71 | 9.88 | 10.38 | 10.50 | 0.05 | 0.12 | 0.21 | 0.27 | 0.34 | 0.40 | 0.46 | 0.51 | 0.57 |
| **2400** | 7.36 | 7.75 | 8.14 | 8.46 | 8.51 | 8.81 | 8.88 | 9.15 | 9.60 | 9.82 | 9.95 | 10.15 | 10.62 | 10.79 | 0.05 | 0.13 | 0.21 | 0.28 | 0.36 | 0.42 | 0.46 | 0.54 | 0.60 |
| **2500** | 7.54 | 7.96 | 8.33 | 8.68 | 8.72 | 9.04 | 9.09 | 9.39 | 9.82 | 10.07 | 10.17 | 10.41 | 10.83 | 11.06 | 0.05 | 0.13 | 0.22 | 0.29 | 0.37 | 0.43 | 0.49 | 0.56 | 0.62 |
| **2600** | 7.71 | 8.16 | 8.52 | 8.90 | 8.91 | 9.26 | 9.29 | 9.62 | 10.02 | 10.32 | 10.37 | 10.56 | 11.03 | 11.32 | 0.06 | 0.14 | 0.23 | 0.30 | 0.39 | 0.45 | 0.51 | 0.58 | 0.65 |
| **2700** | 7.88 | 8.35 | 8.69 | 9.11 | 9.09 | 9.48 | 9.47 | 9.84 | 10.20 | 10.55 | 10.55 | 10.90 | 11.21 | 11.57 | 0.06 | 0.14 | 0.24 | 0.31 | 0.40 | 0.46 | 0.53 | 0.61 | 0.67 |
| **2800** | 8.03 | 8.54 | 8.86 | 9.31 | 9.25 | 9.69 | 9.63 | 10.06 | 10.37 | 10.78 | 10.71 | 11.13 | 11.37 | 11.81 | 0.06 | 0.15 | 0.25 | 0.32 | 0.42 | 0.46 | 0.56 | 0.63 | 0.69 |
| **2900** | 8.18 | 8.72 | 9.01 | 9.51 | 9.40 | 9.89 | 9.79 | 10.27 | 10.52 | 11.00 | 10.86 | 11.35 | 11.51 | 12.04 | 0.06 | 0.16 | 0.26 | 0.33 | 0.43 | 0.48 | 0.58 | 0.65 | 0.71 |
| **3000** | 8.31 | 8.89 | 9.14 | 9.69 | 9.54 | 10.08 | 9.92 | 10.47 | 10.65 | 11.21 | 10.99 | 11.57 | 11.62 | 12.26 | 0.07 | 0.16 | 0.27 | 0.35 | 0.45 | 0.51 | 0.60 | 0.67 | 0.74 |
| **3100** | 8.43 | 9.06 | 9.27 | 9.88 | 9.67 | 10.27 | 10.05 | 10.66 | 10.76 | 11.40 | 11.10 | 11.77 | 11.71 | 12.47 | 0.07 | 0.17 | 0.27 | 0.36 | 0.47 | 0.53 | 0.62 | 0.69 | 0.77 |
| **3200** | 8.55 | 9.23 | 9.38 | 10.05 | 9.78 | 10.45 | 10.15 | 10.84 | 10.86 | 11.59 | 11.18 | 11.96 | 11.78 | 12.66 | 0.07 | 0.17 | 0.28 | 0.37 | 0.48 | 0.55 | 0.64 | 0.72 | 0.08 |
| **3300** | 8.65 | 9.38 | 9.38 | 10.22 | 9.87 | 10.62 | 10.24 | 11.01 | 10.93 | 11.77 | 11.25 | 12.14 | 11.83 | 12.84 | 0.07 | 0.18 | 0.27 | 0.38 | 0.49 | 0.57 | 0.66 | 0.74 | 0.82 |
| **3400** | 8.74 | 9.53 | 9.57 | 10.38 | 9.95 | 10.78 | 10.32 | 11.18 | 10.99 | 10.94 | 11.30 | 12.31 | 11.85 | 13.02 | 0.08 | 0.19 | 0.30 | 0.40 | 0.50 | 0.59 | 0.68 | 0.76 | 0.84 |
| **3500** | 8.82 | 9.68 | 9.64 | 10.53 | 10.02 | 10.94 | 10.38 | 11.34 | 11.03 | 12.10 | 11.32 | 12.47 | – | – | 0.08 | 0.20 | 0.31 | 0.41 | 0.51 | 0.60 | 0.70 | 0.79 | 0.86 |
| **3600** | 8.88 | 9.81 | 9.69 | 10.67 | 10.07 | 11.08 | 10.42 | 11.49 | 11.05 | 12.26 | 11.33 | 12.62 | – | – | 0.08 | 0.20 | 0.32 | 0.42 | 0.53 | 0.62 | 0.72 | 0.81 | 0.89 |
| **3700** | 8.94 | 9.94 | 9.74 | 10.81 | 10.10 | 11.22 | 10.44 | 11.63 | 11.04 | 12.40 | – | – | – | – | 0.08 | 0.21 | 0.33 | 0.43 | 0.55 | 0.64 | 0.74 | 0.83 | 0.91 |
| **3800** | 8.98 | 10.07 | 9.76 | 10.94 | 10.12 | 11.36 | 10.45 | 11.76 | – | – | – | – | – | – | 0.09 | 0.21 | 0.34 | 0.44 | 0.56 | 0.66 | 0.76 | 0.85 | 0.94 |
| **3900** | 9.01 | 10.19 | 9.78 | 11.06 | 10.12 | 11.48 | 10.43 | 11.88 | – | – | – | – | – | – | 0.09 | 0.22 | 0.35 | 0.45 | 0.58 | 0.67 | 0.78 | 0.87 | 0.97 |
| **4000** | 9.03 | 10.30 | 9.77 | 11.18 | 10.10 | 11.60 | – | – | – | – | – | – | – | – | 0.09 | 0.22 | 0.35 | 0.47 | 0.60 | 0.69 | 0.80 | 0.90 | 1.00 |

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

# Selection

## Basic Horsepower Ratings

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3.4 | | 3.6 | | 3.8 | | 4.0 | | 4.2 | | 4.4 | | 4.6 | | 5.0 | | 5.4 | | 5.6 | |
| | B | BX | B | BX | B | BX | B | BX | B | BX | B | BX | B | BX | B | BX | B | BX | B | BX |
| **870** | 1.42 | 3.01 | 1.73 | 3.27 | 2.04 | 3.53 | 2.35 | 3.79 | 2.66 | 4.04 | 2.96 | 4.30 | 3.27 | 4.55 | 3.87 | 5.04 | 4.47 | 5.53 | 4.76 | 5.78 |
| **1160** | 1.65 | 3.72 | 2.05 | 4.06 | 2.45 | 4.38 | 2.84 | 4.71 | 3.24 | 5.03 | 3.63 | 5.35 | 4.02 | 5.67 | 4.78 | 6.29 | 5.54 | 6.91 | 5.92 | 7.21 |
| **1750** | 1.92 | 4.96 | 2.48 | 5.42 | 3.05 | 5.87 | 3.60 | 6.32 | 4.15 | 6.76 | 4.70 | 720 | 5.23 | 7.63 | 6.30 | 8.47 | 7.33 | 9.29 | 7.84 | 9.69 |
| **3500** | 1.37 | 7.27 | 2.27 | 7.96 | 3.16 | 8.64 | 4.01 | 9.28 | 4.84 | 9.91 | 5.64 | 10.51 | 6.41 | 11.08 | 7.87 | 12.14 | 92.0 | 13.10 | 9.82 | 13.53 |
| **100** | 0.31 | 0.53 | 0.36 | 0.56 | 0.40 | 0.60 | 0.44 | 0.64 | 0.49 | 0.68 | 0.53 | 0.72 | 0.57 | 0.76 | 0.56 | 0.84 | 0.75 | 0.91 | 0.79 | 0.95 |
| **200** | 0.53 | 0.94 | 0.61 | 1.01 | 0.70 | 1.08 | 0.78 | 1.16 | 0.86 | 1.23 | 0.94 | 1.30 | 1.02 | 1.37 | 1.19 | 1.51 | 1.35 | 1.65 | 1.43 | 1.72 |
| **300** | 0.71 | 1.30 | 0.83 | 1.41 | 0.95 | 1.51 | 1.07 | 1.62 | 1.19 | 1.72 | 1.31 | 1.82 | 1.43 | 1.92 | 1.66 | 2.13 | 1.89 | 2.33 | 2.01 | 2.42 |
| **400** | 0.87 | 1.64 | 1.03 | 1.78 | 1.18 | 1.91 | 1.34 | 2.05 | 1.49 | 2.18 | 1.64 | 2.31 | 1.80 | 2.44 | 2.10 | 2.70 | 2.40 | 2.95 | 2.55 | 3.08 |
| **500** | 1.01 | 1.96 | 1.20 | 2.13 | 1.39 | 2.29 | 1.58 | 2.45 | 1.77 | 2.61 | 1.96 | 2.77 | 2.14 | 2.93 | 2.51 | 3.24 | 2.88 | 3.55 | 3.06 | 3.70 |
| **600** | 1.14 | 2.26 | 1.36 | 2.45 | 1.59 | 2.64 | 1.81 | 2.83 | 2.03 | 3.02 | 225 | 3.20 | 2.47 | 3.39 | 2.90 | 3.75 | 3.33 | 4.11 | 3.55 | 4.29 |
| **700** | 1.25 | 2.55 | 1.51 | 2.77 | 1.76 | 2.98 | 2.02 | 3.20 | 2.27 | 3.41 | 2.53 | 3.62 | 2.78 | 3.83 | 3.28 | 4.25 | 3.77 | 4.66 | 4.01 | 4.86 |
| **800** | 1.35 | 2.82 | 1.64 | 3.07 | 1.93 | 3.31 | 2.22 | 3.55 | 2.50 | 3.79 | 2.79 | 4.02 | 3.07 | 4.26 | 3.63 | 4.72 | 4.18 | 5.18 | 4.46 | 5.41 |
| **900** | 1.45 | 3.09 | 1.77 | 3.36 | 2.09 | 3.62 | 2.41 | 3.89 | 2.72 | 4.15 | 3.04 | 4.41 | 3.35 | 4.67 | 3.97 | 5.18 | 4.58 | 5.68 | 4.89 | 5.93 |
| **1000** | 1.53 | 3.34 | 1.88 | 3.63 | 2.23 | 3.92 | 2.58 | 4.21 | 2.93 | 4.50 | 3.27 | 4.78 | 3.62 | 5.06 | 4.29 | 5.62 | 4.96 | 6.17 | 5.30 | 6.44 |
| **1100** | 1.61 | 3.58 | 1.99 | 3.90 | 2.37 | 4.21 | 2.75 | 4.53 | 3.12 | 4.84 | 3.50 | 5.14 | 3.87 | 5.44 | 4.60 | 6.04 | 5.33 | 6.63 | 5.69 | 6.92 |
| **1200** | 1.67 | 3.82 | 2.09 | 4.16 | 2.50 | 4.50 | 2.90 | 4.83 | 3.31 | 5.16 | 3.71 | 5.49 | 4.11 | 5.81 | 4.90 | 6.45 | 5.68 | 7.08 | 6.07 | 7.40 |
| **1300** | 1.73 | 4.04 | 2.18 | 4.41 | 2.62 | 4.77 | 3.05 | 5.12 | 3.48 | 5.47 | 3.91 | 5.82 | 4.34 | 6.17 | 5.18 | 6.85 | 6.02 | 7.52 | 6.43 | 7.85 |
| **1400** | 1.79 | 4.26 | 2.26 | 4.65 | 2.73 | 5.03 | 3.19 | 5.40 | 3.65 | 5.78 | 4.11 | 6.15 | 4.56 | 6.51 | 5.45 | 7.23 | 6.33 | 7.94 | 6.77 | 8.29 |
| **1500** | 1.83 | 4.47 | 2.33 | 4.88 | 2.83 | 5.28 | 3.32 | 5.68 | 3.80 | 6.07 | 4.29 | 6.46 | 4.77 | 6.85 | 5.71 | 7.60 | 6.64 | 8.34 | 7.10 | 8.71 |
| **1600** | 1.87 | 4.67 | 2.40 | 5.10 | 2.92 | 5.52 | 3.44 | 5.94 | 3.95 | 6.35 | 4.46 | 6.76 | 4.96 | 7.17 | 5.95 | 7.96 | 6.93 | 8.73 | 7.41 | 9.11 |
| **1700** | 1.90 | 4.87 | 2.46 | 5.32 | 3.01 | 5.76 | 3.55 | 6.20 | 4.09 | 6.63 | 4.62 | 7.05 | 5.15 | 7.48 | 6.19 | 8.30 | 7.20 | 9.11 | 7.70 | 9.50 |
| **1800** | 1.93 | 5.06 | 2.51 | 5.53 | 3.08 | 5.99 | 3.65 | 6.44 | 4.21 | 6.89 | 4.77 | 7.34 | 5.32 | 7.77 | 6.40 | 8.63 | 7.46 | 9.46 | 7.98 | 9.87 |
| **1900** | 1.95 | 5.24 | 2.55 | 5.73 | 3.15 | 6.21 | 3.74 | 6.68 | 4.33 | 7.15 | 4.91 | 7.61 | 5.48 | 8.06 | 6.61 | 8.95 | 7.70 | 9.81 | 8.24 | 10.23 |
| **2000** | 1.96 | 5.42 | 2.59 | 5.92 | 3.21 | 6.42 | 3.83 | 6.91 | 4.44 | 7.39 | 5.04 | 7.87 | 5.63 | 8.34 | 6.80 | 9.25 | 7.93 | 10.14 | 8.49 | 10.57 |
| **2100** | 1.97 | 5.58 | 2.62 | 6.11 | 3.27 | 6.62 | 3.91 | 7.13 | 4.54 | 7.63 | 5.16 | 8.12 | 5.77 | 8.60 | 6.97 | 9.54 | 8.14 | 10.45 | 8.71 | 10.89 |
| **2200** | 1.97 | 5.75 | 2.65 | 6.29 | 3.31 | 6.82 | 3.97 | 7.34 | 4.63 | 7.85 | 5.27 | 8.36 | 5.90 | 8.85 | 7.14 | 9.82 | 8.34 | 10.75 | 8.92 | 11.20 |
| **2300** | 1.96 | 5.90 | 2.66 | 6.46 | 3.35 | 7.00 | 4.03 | 7.54 | 4.70 | 8.07 | 5.36 | 8.59 | 6.02 | 9.09 | 7.29 | 10.08 | 8.51 | 11.03 | 9.11 | 11.49 |
| **2400** | 1.95 | 6.05 | 2.67 | 6.62 | 3.38 | 7.18 | 4.08 | 7.74 | 4.77 | 8.28 | 5.45 | 8.81 | 6.12 | 9.33 | 7.42 | 10.33 | 8.67 | 11.29 | 928 | 11.76 |
| **2500** | 1.93 | 6.19 | 2.67 | 6.78 | 3.40 | 7.36 | 4.12 | 7.92 | 4.83 | 8.47 | 5.53 | 9.02 | 6.21 | 9.54 | 7.54 | 10.57 | 8.82 | 11.54 | 9.44 | 12.01 |
| **2600** | 1.90 | 6.33 | 2.67 | 6.93 | 3.42 | 7.52 | 4.16 | 8.10 | 4.88 | 8.66 | 5.59 | 9.21 | 6.29 | 9.75 | 7.65 | 10.79 | 8.94 | 11.78 | 9.57 | 12.25 |
| **2700** | 1.87 | 6.46 | 2.65 | 7.08 | 3.42 | 7.68 | 4.18 | 8.27 | 4.92 | 8.84 | 5.65 | 9.40 | 6.36 | 9.95 | 7.74 | 11.00 | 9.05 | 11.99 | 9.68 | 12.47 |
| **2800** | 1.83 | 6.58 | 2.63 | 7.21 | 3.42 | 7.83 | 4.19 | 8.42 | 4.95 | 9.01 | 5.69 | 9.58 | 6.41 | 10.13 | 7.81 | 11.20 | 9.14 | 12.19 | 9.78 | 12.67 |
| **2900** | 1.78 | 6.70 | 2.60 | 7.34 | 3.41 | 7.97 | 4.20 | 8.57 | 4.97 | 9.17 | 5.72 | 9.74 | 6.45 | 10.30 | 7.87 | 11.38 | 9.21 | 12.38 | 9.85 | 12.85 |
| **3000** | 1.73 | 6.81 | 2.57 | 7.46 | 3.39 | 8.10 | 4.19 | 8.72 | 4.97 | 9.32 | 5.74 | 9.90 | 6.48 | 10.46 | 7.91 | 11.54 | 9.26 | 12.54 | 9.90 | 13.02 |
| **3100** | 1.67 | 6.92 | 2.53 | 7.58 | 3.36 | 8.22 | 4.17 | 8.85 | 4.97 | 9.45 | 5.74 | 10.04 | 6.50 | 10.61 | 7.94 | 11.69 | 9.29 | 12.69 | 9.93 | 13.16 |
| **3200** | 1.61 | 7.01 | 2.47 | 7.68 | 3.32 | 8.34 | 4.15 | 8.97 | 4.95 | 9.58 | 5.74 | 10.18 | 6.50 | 10.75 | 7.95 | 11.83 | 9.30 | 12.82 | 9.93 | 13.28 |
| **3300** | 1.53 | 7.10 | 2.42 | 7.78 | 3.28 | 8.45 | 4.11 | 9.08 | 4.93 | 9.70 | 5.72 | 10.30 | 6.48 | 10.87 | 7.94 | 11.95 | 9.29 | 12.93 | 9.92 | 13.39 |
| **3400** | 1.45 | 7.19 | 2.35 | 7.88 | 3.22 | 8.54 | 4.07 | 9.19 | 4.89 | 9.81 | 5.69 | 10.41 | 6.46 | 10.98 | 7.91 | 12.05 | 9.25 | 13.03 | 9.88 | 13.47 |
| **3500** | 1.37 | 7.27 | 2.27 | 7.96 | 3.16 | 8.64 | 4.01 | 9.28 | 4.84 | 9.91 | 5.64 | 10.51 | 6.41 | 11.08 | 7.87 | 12.14 | 9.20 | 13.10 | 9.82 | 13.53 |
| **3600** | 1.27 | 7.34 | 2.19 | 8.04 | 3.08 | 8.72 | 3.95 | 9.37 | 4.78 | 9.99 | 5.58 | 10.59 | 6.36 | 11.16 | 7.81 | 12.22 | 9.12 | 13.15 | 9.73 | 13.58 |
| **3700** | 1.17 | 7.40 | 2.10 | 8.11 | 3.00 | 8.79 | 3.87 | 9.44 | 4.71 | 10.07 | 5.51 | 10.67 | 6.29 | 1123 | 7.73 | 12.27 | 9.03 | 13.19 | 9.62 | 13.59 |
| **3800** | 1.06 | 7.46 | 2.00 | 8.17 | 2.91 | 8.86 | 3.78 | 9.51 | 4.62 | 10.13 | 5.43 | 10.73 | 6.20 | 11.29 | 7.63 | 12.31 | 8.90 | 13.20 | 9.46 | 13.59 |
| **3900** | 0.94 | 7.51 | 1.89 | 8.23 | 2.80 | 8.91 | 3.68 | 9.57 | 4.52 | 10.19 | 5.33 | 10.78 | 6.10 | 11.33 | 7.51 | 12.34 | 8.76 | 13.20 | 9.32 | 13.57 |
| **4000** | 0.82 | 7.55 | 1.77 | 8.27 | 2.69 | 8.96 | 3.57 | 9.61 | 4.41 | 10.23 | 5.22 | 10.81 | 5.98 | 11.36 | 7.37 | 12.34 | 8.59 | 13.17 | 9.13 | 13.52 |

# Selection

## Basic Horsepower Ratings

| B | S-L CLASSIC |
|---|---|

| BX | CLASSIC COG |
|---|---|

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. | | | | | | | | | | | | | | Add'l HP/Belt for Speed Ratio of: | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6.0 | | 6.4 | | 6.8 | | 7.4 | | 8.0 | | 8.6 | | 9.4 | | 1.02 | 1.05 | 1.09 | 1.13 | 1.19 | 1.25 | 1.35 | 1.52 | 2.00 |
| | B | BX | B | BX | B | BX | B | BX | B | BX | B | BX | B | BX | 1.04 | 1.08 | 1.12 | 1.18 | 1.24 | 1.34 | 1.51 | 1.99 | and up |
| **870** | 5.35 | 6.26 | 5.93 | 6.73 | 6.50 | 7.20 | 7.36 | 7.89 | 8.19 | 8.56 | 9.02 | 9.23 | 10.10 | 10.09 | 0.04 | 0.01 | 0.17 | 0.22 | 0.28 | 0.32 | 0.38 | 0.42 | 0.47 |
| **1160** | 6.66 | 7.81 | 7.39 | 8.40 | 8.12 | 8.97 | 9.18 | 9.82 | 10.23 | 10.65 | 11.25 | 11.45 | 12.58 | 12.49 | 0.06 | 0.14 | 0.22 | 0.29 | 0.38 | 0.43 | 0.50 | 0.56 | 0.63 |
| **1750** | 8.85 | 10.47 | 9.83 | 11.24 | 10.78 | 11.98 | 12.17 | 13.04 | 13.50 | 14.06 | 14.77 | 15.02 | 16.36 | 16.21 | 0.09 | 0.20 | 0.34 | 0.44 | 0.66 | 0.56 | 0.70 | 0.79 | 0.88 |
| **3500** | 10.95 | 14.31 | 11.94 | 14.97 | – | – | – | – | – | – | – | – | – | – | 0.18 | 0.42 | 0.68 | 0.89 | 1.13 | 1.32 | 1.52 | 1.71 | 1.89 |
| **100** | 0.87 | 1.03 | 0.96 | 1.10 | 1.04 | 1.18 | 1.17 | 1.29 | 1.29 | 1.40 | 1.42 | 1.51 | 1.58 | 1.65 | 0.00 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.05 |
| **200** | 1.59 | 1.86 | 1.75 | 2.09 | 1.90 | 2.14 | 2.14 | 2.34 | 2.37 | 2.54 | 2.60 | 2.74 | 2.91 | 3.09 | 0.01 | 0.02 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 |
| **300** | 2.24 | 2.62 | 2.47 | 2.82 | 2.69 | 3.01 | 3.03 | 3.30 | 3.37 | 3.58 | 3.70 | 3.86 | 4.14 | 4.23 | 0.01 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.13 | 0.15 | 0.16 |
| **400** | 2.85 | 3.33 | 3.14 | 3.58 | 3.44 | 3.83 | 3.87 | 4.20 | 4.31 | 4.56 | 4.74 | 4.92 | 5.30 | 5.39 | 0.02 | 0.04 | 0.07 | 0.10 | 0.11 | 0.15 | 0.17 | 0.19 | 0.21 |
| **500** | 3.42 | 4.01 | 3.79 | 4.31 | 4.14 | 4.61 | 4.67 | 5.05 | 5.20 | 5.49 | 5.72 | 5.92 | 6.41 | 6.48 | 0.02 | 0.06 | 0.09 | 0.12 | 0.16 | 0.19 | 0.21 | 0.24 | 0.27 |
| **600** | 3.98 | 4.65 | 4.40 | 5.09 | 4.82 | 5.35 | 5.44 | 5.86 | 6.06 | 6.37 | 6.67 | 6.87 | 7.47 | 7.52 | 0.03 | 0.07 | 0.12 | 0.15 | 0.19 | 0.22 | 0.26 | 0.29 | 0.32 |
| **700** | 4.50 | 5.26 | 4.98 | 5.66 | 5.46 | 6.06 | 6.17 | 6.64 | 6.88 | 7.21 | 7.57 | 7.77 | 8.48 | 8.51 | 0.03 | 0.08 | 0.14 | 0.17 | 0.22 | 0.26 | 0.30 | 0.34 | 0.38 |
| **800** | 5.01 | 5.86 | 5.55 | 6.30 | 6.08 | 6.74 | 6.88 | 7.38 | 7.66 | 8.02 | 8.44 | 8.64 | 9.45 | 9.46 | 0.04 | 0.09 | 0.16 | 0.20 | 0.26 | 0.30 | 0.34 | 0.39 | 0.43 |
| **900** | 5.49 | 6.42 | 6.09 | 6.91 | 6.68 | 7.39 | 7.56 | 8.10 | 8.42 | 8.79 | 9.27 | 9.47 | 10.38 | 10.36 | 0.04 | 0.11 | 0.17 | 0.23 | 0.29 | 0.33 | 0.39 | 0.44 | 0.49 |
| **1000** | 5.96 | 6.97 | 6.61 | 7.50 | 7.25 | 8.02 | 8.20 | 8.78 | 9.14 | 9.53 | 10.06 | 10.26 | 11.26 | 11.21 | 0.05 | 0.12 | 0.19 | 0.25 | 0.32 | 0.37 | 0.43 | 0.49 | 0.54 |
| **1100** | 6.40 | 7.50 | 7.11 | 8.07 | 7.80 | 8.62 | 8.82 | 9.44 | 9.83 | 10.24 | 10.81 | 11.02 | 12.10 | 12.02 | 0.05 | 0.11 | 0.21 | 0.28 | 0.35 | 0.41 | 0.47 | 0.54 | 0.59 |
| **1200** | 6.83 | 8.01 | 7.58 | 8.61 | 8.32 | 9.20 | 9.42 | 10.07 | 10.49 | 10.92 | 11.53 | 11.74 | 12.89 | 12.79 | 0.06 | 0.14 | 0.23 | 0.30 | 0.39 | 0.45 | 0.52 | 0.58 | 0.65 |
| **1300** | 7.24 | 8.50 | 8.04 | 9.14 | 8.83 | 9.76 | 9.98 | 10.67 | 11.11 | 11.56 | 12.21 | 12.42 | 13.63 | 13.52 | 0.06 | 0.15 | 0.25 | 0.33 | 0.42 | 0.49 | 0.56 | 0.64 | 0.70 |
| **1400** | 7.63 | 8.97 | 8.47 | 9.64 | 9.30 | 10.29 | 10.52 | 11.25 | 11.70 | 12.17 | 12.85 | 13.06 | 14.33 | 14.20 | 0.07 | 0.16 | 0.27 | 0.35 | 0.45 | 0.53 | 0.60 | 0.68 | 0.76 |
| **1500** | 8.00 | 9.42 | 8.89 | 10.12 | 9.76 | 10.80 | 11.03 | 11.80 | 12.26 | 12.75 | 13.45 | 13.67 | 14.98 | 14.83 | 0.07 | 0.18 | 0.29 | 0.38 | 0.48 | 0.56 | 0.65 | 0.73 | 0.81 |
| **1600** | 8.35 | 9.85 | 9.28 | 10.58 | 10.19 | 11.29 | 11.51 | 12.32 | 12.78 | 13.30 | 14.01 | 14.24 | 15.57 | 15.42 | 0.08 | 0.19 | 0.31 | 0.41 | 0.52 | 0.60 | 0.69 | 0.78 | 0.86 |
| **1700** | 8.69 | 10.27 | 9.65 | 11.02 | 10.59 | 11.75 | 11.96 | 12.81 | 13.27 | 13.81 | 14.53 | 14.77 | 16.11 | 15.96 | 0.08 | 0.20 | 0.33 | 0.43 | 0.55 | 0.64 | 0.74 | 0.83 | 0.92 |
| **1800** | 9.00 | 10.67 | 10.09 | 11.44 | 10.97 | 12.19 | 12.37 | 13.27 | 13.72 | 14.29 | 15.00 | 15.25 | 16.60 | 16.44 | 0.09 | 0.21 | 0.35 | 0.45 | 0.58 | 0.68 | 0.78 | 0.88 | 0.97 |
| **1900** | 9.30 | 11.05 | 10.32 | 11.84 | 11.32 | 12.61 | 12.76 | 13.70 | 14.13 | 14.74 | 15.42 | 15.70 | 17.03 | 16.88 | 0.10 | 0.22 | 0.37 | 0.48 | 0.61 | 0.71 | 0.82 | 0.93 | 1.03 |
| **2000** | 9.57 | 11.41 | 10.63 | 12.22 | 11.65 | 13.00 | 13.11 | 14.11 | 14.50 | 15.14 | 15.80 | 16.10 | 17.39 | 17.26 | 0.10 | 0.24 | 0.39 | 0.51 | 0.65 | 0.75 | 0.87 | 0.97 | 1.08 |
| **2100** | 9.83 | 11.75 | 10.91 | 12.57 | 11.95 | 13.36 | 13.43 | 14.48 | 14.83 | 15.52 | 16.13 | 16.47 | 17.70 | 17.59 | 0.11 | 0.25 | 0.41 | 0.53 | 0.68 | 0.79 | 0.91 | 1.03 | 1.14 |
| **2200** | 10.06 | 12.07 | 11.16 | 12.91 | 12.22 | 13.70 | 13.72 | 14.82 | 15.11 | 15.85 | 16.40 | 16.78 | 17.94 | 17.85 | 0.11 | 0.26 | 0.42 | 0.56 | 0.71 | 0.82 | 0.95 | 1.08 | 1.19 |
| **2300** | 10.27 | 12.37 | 11.39 | 13.21 | 12.46 | 14.02 | 13.97 | 15.13 | 15.36 | 16.14 | 16.63 | 17.05 | 18.12 | 18.08 | 0.12 | 0.27 | 0.44 | 0.58 | 0.74 | 0.86 | 1.09 | 1.12 | 1.24 |
| **2400** | 10.46 | 12.65 | 11.59 | 13.50 | 12.67 | 14.30 | 14.18 | 15.41 | 15.56 | 16.40 | 16.80 | 17.27 | 18.22 | 18.23 | 0.12 | 0.28 | 0.46 | 0.61 | 0.78 | 0.90 | 1.02 | 1.18 | 1.30 |
| **2500** | 10.63 | 12.91 | 11.77 | 13.76 | 12.85 | 14.56 | 14.35 | 15.65 | 15.71 | 16.61 | 16.91 | 17.44 | 18.26 | 18.32 | 0.12 | 0.29 | 0.48 | 0.63 | 0.83 | 0.93 | 1.08 | 1.22 | 1.35 |
| **2600** | 10.78 | 13.15 | 11.92 | 14.00 | 13.00 | 14.79 | 14.49 | 15.86 | 15.81 | 16.79 | 16.96 | 17.56 | – | – | 0.13 | 0.31 | 0.50 | 0.56 | 0.84 | 0.97 | 1.13 | 1.27 | 1.41 |
| **2700** | 10.90 | 13.37 | 12.04 | 14.22 | 13.11 | 14.99 | 14.58 | 16.03 | 15.86 | 16.92 | 16.96 | 17.63 | – | – | 0.13 | 0.32 | 0.52 | 0.68 | 0.87 | 1.01 | 1.17 | 1.32 | 1.46 |
| **2800** | 10.99 | 13.57 | 12.14 | 14.40 | 13.20 | 15.17 | 14.63 | 16.17 | 15.87 | 17.00 | 16.42 | 17.74 | – | – | 0.14 | 0.33 | 0.54 | 0.71 | 0.91 | 1.05 | 1.21 | 1.37 | 1.51 |
| **2900** | 11.07 | 13.75 | 12.20 | 14.57 | 13.25 | 15.31 | 14.64 | 16.27 | 15.82 | 17.04 | – | – | – | – | 0.14 | 0.34 | 0.56 | 0.73 | 0.94 | 1.09 | 1.25 | 1.42 | 1.56 |
| **3000** | 11.11 | 13.90 | 12.24 | 14.70 | 13.26 | 15.42 | 14.61 | 16.33 | 15.81 | 17.09 | – | – | – | – | 0.15 | 0.36 | 0.58 | 0.76 | 0.97 | 1.12 | 1.30 | 1.47 | 1.62 |
| **3100** | 11.13 | 14.06 | 12.24 | 14.81 | 13.24 | 15.50 | 14.53 | 16.36 | – | – | – | – | – | – | 0.15 | 0.37 | 0.60 | 0.78 | 0.99 | 1.14 | 1.34 | 1.51 | 1.67 |
| **3200** | 11.13 | 14.14 | 12.21 | 14.90 | 13.18 | 15.55 | 14.41 | 16.34 | – | – | – | – | – | – | 0.16 | 0.38 | 0.62 | 0.81 | 1.02 | 1.19 | 1.39 | 1.56 | 1.73 |
| **3300** | 11.10 | 14.22 | 12.15 | 14.95 | 13.09 | 15.57 | – | – | – | – | – | – | – | – | 0.16 | 0.39 | 0.64 | 0.83 | 1.06 | 1.23 | 1.43 | 1.61 | 1.77 |
| **3400** | 11.04 | 14.28 | 12.06 | 14.98 | 12.95 | 15.55 | – | – | – | – | – | – | – | – | 0.17 | 0.40 | 0.66 | 0.85 | 1.10 | 1.28 | 1.47 | 1.56 | 1.84 |
| **3500** | 10.95 | 15.31 | 11.94 | 14.97 | – | – | – | – | – | – | – | – | – | – | 0.17 | 0.41 | 0.68 | 0.89 | 1.12 | 1.31 | 1.51 | 1.71 | 1.89 |
| **3600** | 10.83 | 14.32 | 11.78 | 14.94 | – | – | – | – | – | – | – | – | – | – | 0.18 | 0.43 | 0.70 | 0.92 | 1.15 | 1.35 | 1.56 | 1.76 | 1.95 |
| **3700** | 10.68 | 14.31 | – | – | – | – | – | – | – | – | – | – | – | – | 0.18 | 0.44 | 0.71 | 0.94 | 1.19 | 1.39 | 1.61 | 1.81 | 2.01 |
| **3800** | 10.50 | 14.26 | – | – | – | – | – | – | – | – | – | – | – | – | 0.19 | 0.45 | 0.73 | 0.96 | 1.23 | 1.43 | 1.66 | 1.86 | 2.06 |
| **3900** | 10.30 | 14.19 | – | – | – | – | – | – | – | – | – | – | – | – | 0.19 | 0.46 | 0.74 | 0.99 | 1.27 | 1.47 | 1.70 | 1.91 | 2.11 |
| **4000** | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 0.20 | 0.47 | 0.76 | 1.02 | 1.30 | 1.50 | 1.74 | 1.96 | 2.16 |

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

**Selection program available at www.ptwizard.com**

# Selection

## Basic Horsepower Ratings

| C | S-L CLASSIC |
|---|---|

| CX | CLASSIC COG |
|---|---|

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6.0 | | 6.5 | | 7.0 | | 7.5 | | 8.0 | | 8.5 | | 9.0 | | 9.5 | | 10.0 | | 10.5 | |
| | C | CX | C | CX | C | CX | C | CX | C | CX | C | CX | C | CX | C | CX | C | CX | C | CX |
| 870 | 5.57 | 9.32 | 6.78 | 10.36 | 7.98 | 11.39 | 9.16 | 12.40 | 10.33 | 13.40 | 11.48 | 14.39 | 12.62 | 15.36 | 13.74 | 16.32 | 14.85 | 17.26 | 15.95 | 18.20 |
| 1160 | 6.66 | 11.62 | 8.19 | 12.93 | 9.69 | 14.22 | 11.17 | 15.48 | 12.62 | 16.71 | 14.05 | 17.93 | 15.45 | 19.11 | 16.82 | 20.28 | 18.17 | 21.42 | 19.49 | 22.54 |
| 1750 | 8.07 | 15.57 | 10.11 | 17.30 | 12.09 | 18.97 | 14.00 | 20.59 | 15.84 | 22.15 | 17.62 | 23.65 | 19.32 | 25.09 | 20.94 | 26.47 | 22.49 | 27.78 | 23.96 | 29.02 |
| 3500 | 4.78 | 20.81 | 6.77 | 22.53 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 100 | 1.06 | 1.53 | 1.23 | 1.68 | 1.41 | 1.84 | 1.58 | 1.99 | 1.75 | 2.15 | 1.92 | 2.30 | 2.09 | 2.45 | 2.26 | 2.61 | 2.43 | 2.76 | 2.60 | 2.91 |
| 200 | 1.86 | 2.77 | 2.19 | 3.06 | 2.51 | 3.35 | 2.84 | 3.64 | 3.16 | 3.92 | 3.48 | 4.21 | 3.80 | 4.49 | 4.12 | 4.77 | 4.43 | 5.05 | 4.75 | 5.33 |
| 300 | 2.56 | 3.90 | 3.03 | 4.32 | 3.50 | 4.73 | 3.97 | 5.14 | 4.44 | 5.55 | 4.90 | 5.96 | 5.36 | 6.36 | 5.81 | 6.76 | 6.27 | 7.16 | 6.72 | 7.55 |
| 400 | 3.19 | 4.96 | 3.80 | 5.50 | 4.41 | 6.03 | 5.02 | 6.56 | 5.62 | 7.08 | 6.22 | 7.60 | 6.81 | 8.12 | 7.40 | 8.63 | 7.99 | 9.14 | 8.57 | 9.65 |
| 500 | 3.77 | 5.96 | 4.52 | 6.62 | 5.26 | 7.26 | 6.00 | 7.90 | 6.73 | 8.54 | 7.46 | 9.17 | 8.18 | 9.79 | 8.89 | 10.41 | 9.60 | 11.02 | 10.31 | 11.63 |
| 600 | 4.31 | 6.92 | 5.19 | 7.68 | 6.06 | 8.44 | 6.92 | 9.19 | 7.78 | 9.93 | 8.63 | 10.56 | 9.47 | 11.39 | 10.31 | 12.11 | 11.13 | 12.82 | 11.96 | 13.52 |
| 700 | 4.80 | 7.84 | 5.81 | 8.71 | 6.81 | 9.57 | 7.79 | 10.42 | 8.77 | 11.26 | 9.74 | 12.09 | 10.69 | 12.91 | 11.64 | 13.73 | 12.58 | 14.53 | 13.51 | 15.33 |
| 800 | 5.27 | 8.72 | 6.39 | 9.69 | 7.51 | 10.65 | 8.61 | 11.60 | 9.70 | 12.54 | 10.78 | 13.46 | 11.85 | 14.37 | 12.90 | 15.27 | 13.95 | 16.17 | 14.98 | 17.04 |
| 900 | 5.69 | 9.57 | 6.94 | 10.64 | 8.17 | 11.69 | 9.38 | 12.73 | 10.58 | 13.76 | 11.77 | 14.77 | 12.94 | 15.77 | 14.09 | 16.75 | 15.23 | 17.72 | 16.35 | 18.68 |
| 1000 | 6.09 | 10.38 | 7.45 | 11.55 | 8.79 | 12.69 | 10.11 | 13.82 | 11.41 | 14.94 | 12.69 | 16.03 | 13.96 | 17.11 | 15.20 | 18.17 | 16.43 | 19.21 | 17.63 | 20.23 |
| 1100 | 6.46 | 11.17 | 7.92 | 12.42 | 9.37 | 13.66 | 10.79 | 14.87 | 12.19 | 16.06 | 13.56 | 17.23 | 14.91 | 18.38 | 16.24 | 19.51 | 17.54 | 20.61 | 18.82 | 21.70 |
| 1200 | 6.79 | 11.92 | 8.36 | 13.26 | 9.90 | 14.58 | 11.42 | 15.87 | 12.91 | 17.14 | 14.37 | 18.38 | 15.80 | 19.59 | 17.20 | 20.78 | 18.57 | 21.94 | 19.91 | 23.08 |
| 1300 | 7.09 | 12.65 | 8.76 | 14.07 | 10.40 | 15.47 | 12.00 | 16.83 | 13.57 | 18.16 | 15.11 | 19.47 | 16.61 | 20.74 | 18.08 | 21.98 | 19.51 | 23.19 | 20.90 | 24.37 |
| 1400 | 7.36 | 13.35 | 9.13 | 14.85 | 10.85 | 16.31 | 12.53 | 17.74 | 14.18 | 19.14 | 15.78 | 20.50 | 17.35 | 21.82 | 18.87 | 23.11 | 20.35 | 24.36 | 21.78 | 25.58 |
| 1500 | 7.61 | 14.02 | 9.45 | 15.59 | 11.26 | 17.12 | 13.02 | 18.61 | 14.73 | 20.06 | 16.40 | 21.48 | 18.01 | 22.84 | 19.58 | 24.17 | 21.09 | 25.45 | 22.55 | 26.69 |
| 1600 | 7.82 | 14.66 | 9.75 | 16.30 | 11.62 | 17.89 | 13.45 | 19.44 | 15.22 | 20.94 | 16.94 | 22.39 | 18.60 | 23.79 | 20.19 | 25.15 | 21.73 | 26.45 | 23.21 | 27.70 |
| 1700 | 7.99 | 15.27 | 10.00 | 16.97 | 11.94 | 18.62 | 13.83 | 20.22 | 15.65 | 21.76 | 17.41 | 23.25 | 19.10 | 24.68 | 20.72 | 26.05 | 22.27 | 27.36 | 23.74 | 28.61 |
| 1800 | 8.14 | 15.85 | 10.21 | 17.61 | 12.22 | 19.31 | 14.15 | 20.95 | 16.02 | 22.53 | 17.81 | 24.04 | 19.52 | 25.49 | 21.14 | 26.86 | 22.69 | 28.17 | 24.15 | 29.41 |
| 1900 | 8.25 | 16.41 | 10.39 | 18.22 | 12.44 | 19.96 | 14.42 | 21.63 | 16.32 | 23.24 | 18.13 | 24.77 | 19.84 | 26.22 | 21.47 | 27.60 | 23.00 | 28.90 | 24.42 | 30.11 |
| 2000 | 8.33 | 16.93 | 10.52 | 18.79 | 12.62 | 20.57 | 14.63 | 22.27 | 16.55 | 23.89 | 18.37 | 25.43 | 20.08 | 26.88 | 21.69 | 28.25 | 23.18 | 29.52 | 24.56 | 30.69 |
| 2100 | 8.37 | 17.42 | 10.61 | 19.32 | 12.75 | 21.13 | 14.79 | 22.85 | 16.71 | 24.49 | 18.53 | 26.02 | 20.22 | 27.46 | 21.80 | 28.80 | 23.25 | 30.04 | 24.56 | 31.16 |
| 2200 | 8.38 | 17.89 | 10.56 | 19.82 | 12.82 | 21.65 | 14.88 | 23.39 | 16.80 | 25.02 | 18.60 | 26.55 | 20.27 | 27.96 | 21.80 | 29.27 | 23.18 | 30.45 | 24.41 | 31.51 |
| 2300 | 8.35 | 18.32 | 10.66 | 20.28 | 12.85 | 22.13 | 14.90 | 23.87 | 16.82 | 25.49 | 18.59 | 27.00 | 20.21 | 28.38 | 21.68 | 29.63 | 22.98 | 30.75 | – | – |
| 2400 | 8.28 | 18.72 | 10.62 | 20.70 | 12.81 | 22.56 | 14.86 | 24.29 | 16.76 | 25.90 | 18.49 | 27.38 | 20.05 | 28.71 | 21.44 | 29.90 | – | – | – | – |
| 2500 | 8.17 | 19.08 | 10.53 | 21.08 | 12.73 | 22.94 | 14.76 | 24.66 | 16.62 | 26.25 | 18.29 | 27.68 | 19.78 | 28.95 | 21.07 | 30.07 | – | – | – | – |
| 2600 | 8.03 | 19.42 | 10.39 | 21.42 | 12.58 | 25.27 | 1425 | 24.98 | 16.39 | 23.52 | 18.00 | 27.90 | 19.40 | 29.11 | – | – | – | – | – | – |
| 2700 | 7.84 | 19.72 | 10.20 | 21.72 | 12.37 | 23.56 | 14.34 | 25.23 | 16.09 | 26.73 | 17.61 | 28.04 | – | – | – | – | – | – | – | – |
| 2800 | 7.61 | 19.98 | 9.97 | 21.98 | 12.10 | 23.80 | 14.02 | 25.43 | 15.69 | 26.87 | – | – | – | – | – | – | – | – | – | – |
| 2900 | 7.34 | 20.21 | 9.68 | 22.19 | 11.77 | 23.98 | 13.62 | 25.56 | 15.21 | 26.93 | – | – | – | – | – | – | – | – | – | – |
| 3000 | 7.03 | 20.41 | 9.33 | 22.37 | 11.38 | 24.11 | 13.15 | 25.63 | – | – | – | – | – | – | – | – | – | – | – | – |
| 3100 | 6.67 | 20.57 | 8.94 | 22.49 | 10.91 | 24.19 | 12.59 | 25.64 | – | – | – | – | – | – | – | – | – | – | – | – |
| 3200 | 6.27 | 20.69 | 8.48 | 22.57 | 10.38 | 24.21 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3300 | 5.82 | 20.77 | 7.97 | 22.61 | 9.78 | 24.17 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3400 | 5.32 | 20.81 | 7.40 | 22.59 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3500 | 4.78 | 20.81 | 6.77 | 22.53 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3600 | 4.18 | 20.77 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3700 | 3.53 | 20.69 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 3800 | 2.83 | 20.57 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

**Selection program available at www.ptwizard.com**

# Selection

## Basic Horsepower Ratings

| C | S-L CLASSIC |
|---|---|

| CX | CLASSIC COG |
|---|---|

| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. | | | | | | | | | | Add'l HP/Belt for Speed Ratio of: | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11.0 | | 12.0 | | 13.0 | | 14.0 | | 16.0 | | 1.03 | 1.10 | 1.20 | 1.40 | 1.80 | 3.00 |
| | C | CX | C | CX | C | CX | C | CX | C | CX | 1.09 | 1.19 | 1.39 | 1.79 | 2.99 | and up |
| 870 | 17.03 | 19.12 | 19.15 | 20.92 | 21.21 | 22.66 | 23.20 | 24.36 | 27.00 | 27.57 | 0.13 | 0.37 | 0.59 | 0.82 | 0.97 | 1.05 |
| 1160 | 20.78 | 23.63 | 23.27 | 25.74 | 25.64 | 27.75 | 27.88 | 29.64 | 31.96 | 33.10 | 0.17 | 0.49 | 0.79 | 1.09 | 1.30 | 1.40 |
| 1750 | 25.35 | 30.20 | 27.86 | 32.34 | 30.00 | 34.18 | – | – | – | – | 0.26 | 0.74 | 1.19 | 1.65 | 1.96 | 2.11 |
| 3500 | – | – | – | – | – | – | – | – | – | – | 0.52 | 1.47 | 2.37 | 3.30 | 3.92 | 4.22 |
| 100 | 2.76 | 3.06 | 3.10 | 3.35 | 3.43 | 3.65 | 3.75 | 3.94 | 4.40 | 4.51 | 0.01 | 0.04 | 0.07 | 0.09 | 0.11 | 0.12 |
| 200 | 5.06 | 5.60 | 5.68 | 6.15 | 6.30 | 6.69 | 6.91 | 7.22 | 8.12 | 8.28 | 0.03 | 0.08 | 0.14 | 0.19 | 0.22 | 0.24 |
| 300 | 7.17 | 7.94 | 8.06 | 8.72 | 8.95 | 9.49 | 9.82 | 10.25 | 11.55 | 11.74 | 0.04 | 0.13 | 0.20 | 0.28 | 0.34 | 0.36 |
| 400 | 9.15 | 10.15 | 10.29 | 11.14 | 11.43 | 12.12 | 12.55 | 13.08 | 14.75 | 14.98 | 0.06 | 0.17 | 0.27 | 0.38 | 0.45 | 0.48 |
| 500 | 11.01 | 12.23 | 12.39 | 13.43 | 13.76 | 14.60 | 15.11 | 15.75 | 17.75 | 18.01 | 0.07 | 0.21 | 0.34 | 0.47 | 0.56 | 0.60 |
| 600 | 12.77 | 14.22 | 14.38 | 15.60 | 15.96 | 16.95 | 17.51 | 18.27 | 20.54 | 20.85 | 0.09 | 0.25 | 0.41 | 0.57 | 0.67 | 0.72 |
| 700 | 14.43 | 16.11 | 16.24 | 17.66 | 18.02 | 19.17 | 19.76 | 20.65 | 23.12 | 23.51 | 0.10 | 0.29 | 0.47 | 0.66 | 0.78 | 0.84 |
| 800 | 15.99 | 17.91 | 17.99 | 19.61 | 19.94 | 21.27 | 21.84 | 22.88 | 25.48 | 25.97 | 0.12 | 0.34 | 0.54 | 0.75 | 0.90 | 0.97 |
| 900 | 17.46 | 19.62 | 19.62 | 21.46 | 21.73 | 23.24 | 23.76 | 24.96 | 27.62 | 28.23 | 0.13 | 0.38 | 0.61 | 0.85 | 1.01 | 1.09 |
| 1000 | 18.82 | 21.24 | 21.13 | 23.20 | 23.36 | 25.08 | 25.50 | 26.89 | 29.50 | 30.28 | 0.15 | 0.42 | 0.68 | 0.94 | 1.12 | 1.21 |
| 1100 | 20.08 | 22.76 | 22.51 | 24.82 | 24.83 | 26.79 | 27.05 | 28.66 | 31.12 | 32.11 | 0.16 | 0.46 | 0.75 | 1.04 | 1.23 | 1.33 |
| 1200 | 21.22 | 24.19 | 23.75 | 26.33 | 26.15 | 28.35 | 28.40 | 30.26 | 32.47 | 33.71 | 0.18 | 0.51 | 0.81 | 1.13 | 1.34 | 1.45 |
| 1300 | 22.26 | 25.52 | 24.85 | 27.72 | 27.28 | 29.77 | 29.54 | 31.69 | 33.51 | 35.06 | 0.19 | 0.55 | 0.88 | 1.23 | 1.45 | 1.57 |
| 1400 | 23.17 | 26.75 | 25.80 | 28.98 | 28.24 | 31.04 | 30.46 | 32.93 | 34.24 | 36.16 | 0.21 | 0.59 | 0.95 | 1.32 | 1.57 | 1.69 |
| 1500 | 23.96 | 27.88 | 26.60 | 30.11 | 29.00 | 32.15 | 31.15 | 33.98 | 34.63 | 36.98 | 0.22 | 0.63 | 1.02 | 1.41 | 1.68 | 1.81 |
| 1600 | 24.62 | 28.89 | 27.23 | 31.11 | 29.56 | 33.09 | 31.59 | 34.83 | – | – | 0.24 | 0.67 | 1.09 | 1.51 | 1.79 | 1.93 |
| 1700 | 25.14 | 29.79 | 27.69 | 31.97 | 29.91 | 33.86 | 31.77 | 35.47 | – | – | 0.25 | 0.72 | 1.15 | 1.60 | 1.90 | 2.05 |
| 1800 | 25.52 | 30.58 | 27.98 | 32.67 | 30.04 | 34.45 | – | – | – | – | 0.27 | 0.76 | 1.22 | 1.70 | 2.01 | 2.17 |
| 1900 | 25.75 | 31.24 | 28.07 | 33.23 | – | – | – | – | – | – | 0.28 | 0.80 | 1.29 | 1.79 | 2.13 | 2.29 |
| 2000 | 25.82 | 31.77 | 27.97 | 33.63 | – | – | – | – | – | – | 0.30 | 0.84 | 1.36 | 1.89 | 2.24 | 2.41 |
| 2100 | 25.74 | 32.18 | – | – | – | – | – | – | – | – | 0.31 | 0.88 | 1.42 | 1.98 | 2.35 | 2.53 |
| 2200 | – | – | – | – | – | – | – | – | – | – | 0..33 | 0.93 | 1.49 | 2.07 | 2.46 | 2.66 |
| 2300 | – | – | – | – | – | – | – | – | – | – | 0.34 | 0.97 | 1.56 | 2.17 | 2.57 | 2.78 |
| 2400 | – | – | – | – | – | – | – | – | – | – | 0.36 | 1.01 | 1.63 | 2.26 | 2.69 | 2.90 |
| 2500 | – | – | – | – | – | – | – | – | – | – | 0.37 | 1.05 | 1.70 | 2.36 | 2.80 | 3.02 |
| 2600 | – | – | – | – | – | – | – | – | – | – | 0.39 | 1.10 | 1.76 | 2.45 | 2.91 | 3.14 |
| 2700 | – | – | – | – | – | – | – | – | – | – | 0.40 | 1.14 | 1.83 | 2.54 | 3.02 | 3.26 |
| 2800 | – | – | – | – | – | – | – | – | – | – | 0.42 | 1.18 | 1.90 | 2.64 | 3.13 | 3.38 |
| 2900 | – | – | – | – | – | – | – | – | – | – | 0.43 | 1.22 | 1.97 | 2.73 | 3.25 | 3.50 |
| 3000 | – | – | – | – | – | – | – | – | – | – | 0.45 | 1.26 | 2.04 | 2.83 | 3.36 | 3.62 |
| 3100 | – | – | – | – | – | – | – | – | – | – | 0.46 | 1.31 | 2.10 | 2.92 | 3.47 | 3.74 |
| 3200 | – | – | – | – | – | – | – | – | – | – | 0.48 | 1.35 | 2.17 | 3.02 | 3.58 | 3.86 |
| 3300 | – | – | – | – | – | – | – | – | – | – | 0.49 | 1.39 | 2.24 | 3.11 | 3.69 | 3.98 |
| 3400 | – | – | – | – | – | – | – | – | – | – | 0.51 | 1.43 | 2.31 | 3.20 | 3.80 | 4.10 |
| 3500 | – | – | – | – | – | – | – | – | – | – | 0.52 | 1.47 | 2.37 | 3.30 | 3.92 | 4.22 |
| 3600 | – | – | – | – | – | – | – | – | – | – | 0.54 | 1.52 | 2.44 | 3.39 | 4.03 | 4.35 |
| 3700 | – | – | – | – | – | – | – | – | – | – | 0.55 | 1.56 | 2.51 | 3.49 | 4.14 | 4.47 |
| 3800 | – | – | – | – | – | – | – | – | – | – | 0.57 | 1.60 | 2.58 | 3.58 | 4.25 | 4.59 |

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

**Selection program available at www.ptwizard.com**

# Selection

## Basic Horsepower Ratings

| D | S-L CLASSIC |
|---|---|

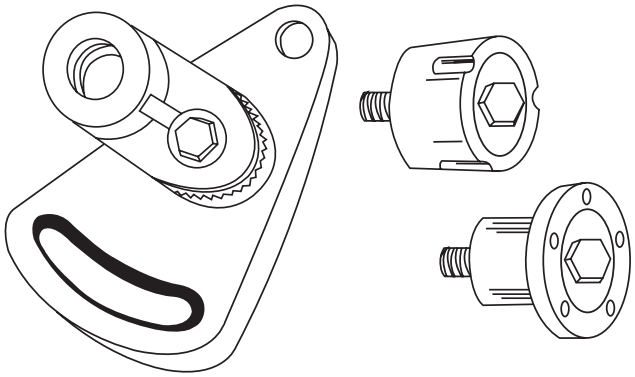
| Faster Shaft RPM | Rated HP per Belt for Small Sheave Datum Dia. | | | | | | | | | | | Additional HP/Belt for Speed Ratio of: | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12.0 | 13.0 | 13.5 | 14.0 | 14.5 | 15.0 | 15.5 | 16.0 | 18.0 | 20.0 | 22.0 | 1.02 thru 1.04 | 1.05 thru 1.08 | 1.09 thru 1.12 | 1.13 thru 1.18 | 1.19 thru 1.24 | 1.25 thru 1.34 | 1.35 thru 1.51 | 1.52 thru 1.99 | 2.00 and Up |
| 700 | 19.3 | 22.7 | 24.3 | 25.9 | 27.6 | 29.2 | 30.7 | 32.3 | 38.4 | 44.1 | 49.5 | .26 | .60 | .98 | 1.29 | 1.65 | 1.91 | 2.20 | 2.48 | 2.75 |
| 870 | 22.2 | 26.1 | 28.0 | 29.9 | 31.7 | 33.5 | 35.3 | 37.1 | 43.8 | 50.0 | 55.5 | .32 | .75 | 1.22 | 1.61 | 2.05 | 2.37 | 2.74 | 3.09 | 3.42 |
| 1150 | 25.7 | 30.2 | 32.4 | 34.5 | 36.5 | 38.5 | 40.5 | 42.3 | 49.1 | 54.6 | 58.8 | .43 | 1.00 | 1.63 | 2.14 | 2.73 | 3.16 | 3.65 | 4.11 | 4.56 |
| 50 | 2.26 | 2.59 | 2.75 | 2.91 | 3.07 | 3.24 | 3.40 | 3.56 | 4.19 | 4.82 | 5.44 | .02 | .04 | .07 | .09 | .12 | .14 | .16 | .18 | .20 |
| 100 | 4.10 | 4.71 | 5.02 | 5.32 | 5.63 | 5.93 | 6.23 | 6.53 | 7.73 | 8.91 | 10.1 | .04 | .09 | .14 | .18 | .24 | .27 | .31 | .35 | .39 |
| 150 | 5.76 | 6.65 | 7.09 | 7.53 | 7.97 | 8.41 | 8.85 | 9.28 | 11.0 | 12.7 | 14.4 | .06 | .13 | .21 | .28 | .35 | .41 | .47 | .53 | .59 |
| 200 | 7.32 | 8.47 | 9.04 | 9.61 | 10.2 | 10.7 | 11.3 | 11.9 | 14.1 | 16.3 | 18.5 | .07 | .17 | .28 | .37 | .47 | .54 | .63 | .71 | .79 |
| 300 | 10.2 | 11.8 | 12.7 | 13.5 | 14.3 | 15.1 | 15.9 | – | 19.9 | 23.0 | 26.1 | .11 | .26 | .42 | .55 | .71 | .82 | .94 | 1.06 | 1.18 |
| 400 | 12.8 | 14.9 | 16.0 | 17.0 | 18.1 | 19.1 | 20.1 | 21.1 | 25.2 | 29.2 | 33.0 | .15 | .35 | .56 | .74 | .94 | 1.09 | 1.26 | 1.42 | 1.57 |
| 500 | 15.1 | 17.7 | 19.0 | 20.3 | 21.5 | 22.8 | 24.0 | 25.2 | 30.0 | 34.7 | 39.3 | .19 | .43 | .70 | .92 | 1.18 | 1.36 | 1.57 | 1.77 | 1.96 |
| 600 | 17.3 | 20.3 | 21.8 | 23.2 | 24.7 | 26.1 | 27.5 | 28.9 | 34.4 | 39.7 | 44.8 | .22 | .52 | .84 | 1.11 | 1.41 | 1.63 | 1.89 | 2.13 | 2.36 |
| 700 | 19.3 | 22.7 | 24.3 | 25.9 | 27.6 | 29.2 | 30.7 | 32.3 | 38.3 | 44.1 | 49.5 | .26 | .60 | .98 | 1.29 | 1.65 | 1.91 | 2.20 | 2.48 | 2.75 |
| 800 | 21.1 | 24.8 | 26.6 | 28.4 | 30.1 | 31.9 | 33.6 | 35.3 | 41.7 | 47.8 | 53.4 | .30 | .69 | 1.13 | 1.48 | 1.88 | 2.18 | 2.52 | 2.84 | 3.14 |
| 900 | 22.6 | 26.6 | 28.6 | 30.5 | 32.4 | 34.2 | 36.0 | 37.8 | 44.6 | 50.7 | 56.3 | .34 | .78 | 127 | 1.66 | 2.12 | 2.45 | 2.83 | 3.19 | 3.53 |
| 1000 | 24.0 | 28.2 | 30.3 | 32.3 | 34.3 | 36.2 | 38.1 | 39.9 | 46.8 | 52.9 | 58.2 | .37 | .86 | 1.41 | 1.85 | 2.35 | 2.72 | 3.15 | 3.55 | 3.93 |
| 1100 | 25.1 | 29.5 | 31.7 | 33.8 | 35.8 | 37.8 | 39.7 | 41.6 | 48.4 | 54.2 | 58.9 | .41 | .95 | 1.55 | 2.03 | 2.59 | 3.00 | 3.46 | 3.90 | 4.32 |
| 1200 | 26.0 | 30.6 | 32.8 | 34.9 | 36.9 | 38.9 | 40.9 | 42.7 | 49.3 | 54.6 | 58.5 | .45 | 1.04 | 1.69 | 2.21 | 2.82 | 3.27 | 3.78 | 4.26 | 4.71 |
| 1300 | 26.7 | 31.3 | 33.5 | 35.7 | 37.7 | 39.7 | 41.5 | 43.3 | 49.5 | 54.0 | 56.8 | .49 | 1.12 | 1.83 | 2.40 | 3.06 | 3.54 | 4.09 | 4.61 | 5.11 |
| 1400 | 27.0 | 31.7 | 33.9 | 36.0 | 38.0 | 39.9 | 41.7 | 43.4 | 48.9 | 52.4 | 53.6 | .52 | 1.21 | 1.97 | 2.58 | 3.29 | 3.81 | 4.41 | 4.97 | 5.50 |
| 1500 | 27.1 | 31.8 | 33.9 | 36.0 | 37.9 | 39.7 | 41.3 | 42.8 | 47.4 | 49.6 | 49.1 | .56 | 1.30 | 2.11 | 2.77 | 3.53 | 4.09 | 4.72 | 5.32 | 5.89 |
| 1600 | 27.0 | 31.5 | 33.6 | 35.5 | 37.3 | 38.9 | 40.3 | 41.6 | 45.1 | 45.6 | 42.9 | .60 | 1.38 | 2.25 | 2.95 | 3.76 | 4.36 | 5.04 | 5.68 | 6.28 |
| 1700 | 26.5 | 30.9 | 32.8 | 34.6 | 36.1 | 37.5 | 38.8 | 39.8 | 41.8 | 40.4 | 35.0 | .63 | 1.47 | 2.39 | 3.14 | 4.00 | 4.63 | 5.35 | 6.03 | 6.68 |
| 1800 | 25.7 | 29.8 | 31.6 | 33.1 | 34.5 | 35.6 | 36.5 | 37.2 | 37.6 | 33.8 | – | .67 | 1.55 | 2.53 | 3.32 | 4.23 | 4.90 | 5.67 | 6.38 | 7.07 |

Shaded areas indicate rim speed exceeding 6500 FPM which may require special sheaves

# Idler

### Brackets and Bushings

- Double Adjustable Bracket for Maximum Flexibility
- Positive Ratchet Locking Between Base and Arm
- Idler Bushings in Taper-Lock and QD Style
- Use with Stock Products, such as: Sheaves, Roller Chain Sprockets, HTD Sprockets
- Compatible with Products Machined for: Taper-Lock 1610, 2012 and 2517 Bushings QD SK, SF and E Bushings
- Also, NEMA - Motor Bases Shaft Collars



**Selection program available at www.ptwizard.com**

# Installing/Tensioning V-Drives

## Installing a Drive

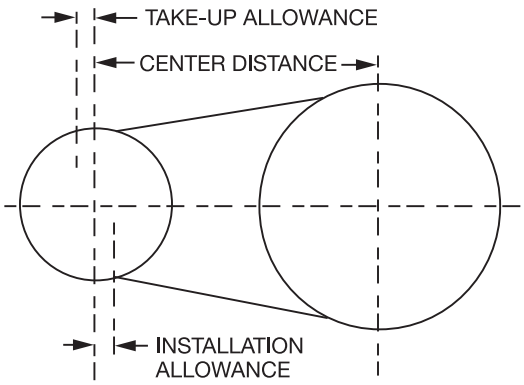
**Check Condition of Sheaves**–Before a new set of V-belts are installed, check the condition of the sheaves. Dirty or rusty sheaves impair the drive's efficiency and abrade the belts, which result in premature failure.

Worn sheaves shorten belt life as much as 50 percent. If the grooves are worn to where the belt bottoms, slippage may result and burn the belts. If the sidewalls are "dished out," the bottom shoulder ruins the belts prematurely by wearing off the bottom corners.

**Check Sheave Alignment**–Sheave adjustment should be checked by placing a straight edge or tight cord across the sheave faces so that it touches all four points of contact. Ordinarily, a misalignment of more than one-half of one degree (one-eighth inch in one foot) will adversely affect belt life. Improper sheave alignment produces uneven wear on one side of the belt, causes the belt to roll over in the sheaves or throws all the load on one side of the belt, stretching or breaking the cords on that side.

### *Installation and Take-Up Allowances*

After calculating a center distance from a standard pitch length, make provision for adjusting the center distance as in sketch below,




to allow for installation of the belts without injury, for tensioning, and for maintenance of proper tension throughout the life of the belt. (Refer to Tables 11 or 12 for values).

Placing Belts on Sheaves–Shorten the center distance of the drive until the belts can be put on the sheaves without forcing. Forcing the belts can cause internal injury to the belts.

Belt Selection–For maximum service, replace V-belt drives with a complete new matched set of belts or use the new Matchmaker belts.

Never employ a used belt as a replacement for a unit of a set. Used belts, normally, are worn in cross-section and stretched. A new belt so applied will ride higher in the sheave, travel faster and operate at a much higher tension than the used belts. The cord center may be ruptured, allowing the new belt to elongate. Shortly after this occurs it will cease to accept its full share of the load, leaving the drive under-belted. Thus, the new belt is wasted. Belts of different manufacturers should not be mixed for the same reasons.

**Table 11 - Center Distance Allowance for Narrow Belt Installation and Take-Up**

| Nom. Belt Lgth. in Inches | Min. Installation Allowance (in inches) (Below Center) | | | | | | Min. Take-up Allowance (Above Center) |
|---|---|---|---|---|---|---|---|
| | 3V Dyna-V | 3V Poly-band | 5V Dyna-V | 5V Poly-band | 8V Dyna-V | 8V Poly-band | |
| Up to and incl. 47.5 | .05 | 1.2 | – | – | – | – | 1.0" |
| 50-71 | 0.8 | 1.4 | 1.0 | 2.1 | – | – | 1.2 |
| 75-106 | 0.8 | 1.4 | 1.0 | 2.1 | 1.5 | 3.4 | 1.5 |
| 112-125 | 0.8 | 1.4 | 1.0 | 2.1 | 1.5 | 3.4 | 1.8 |
| 132-170 | 0.8 | 1.4 | 1.0 | 2.1 | 1.5 | 3.4 | 2.2 |
| 180-200 | – | – | 1.0 | 2.1 | 1.8 | 3.6 | 2.5 |
| 212-236 | – | – | 1.2 | 2.4 | 1.8 | 3.6 | 3.0 |
| 250 and 265 | – | – | 1.2 | 2.4 | 1.8 | 3.6 | 3.2 |
| 280 and 300 | – | – | 1.2 | 2.4 | 1.8 | 3.6 | 3.5 |
| 315-355 | – | – | 1.2 | 2.4 | 2.0 | 4.0 | 4.0 |
| 375 | – | – | – | – | 2.0 | 4.0 | 4.5 |
| 400-560 | – | – | – | – | 2.0 | 4.0 | 5.5 |

# Installing/Tensioning V-Drives



**Table 12 - Center Distance Allowance for Classical Belt Installation and Take-Up**

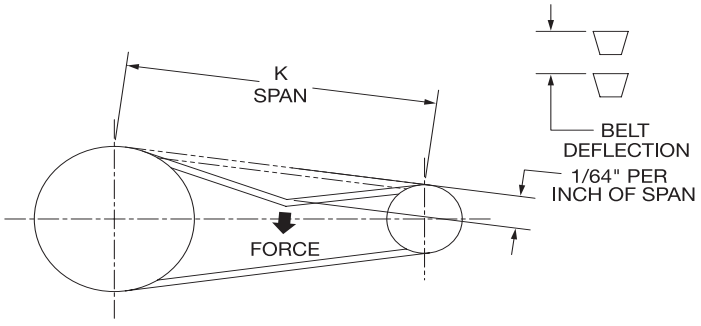
| Nom. Belt Lgth. in Inches | Min. Installation Allowance (in inches) (Below Center) | | | | | | | Min. Take-up Allowance (Above Center) |
|---|---|---|---|---|---|---|---|---|
| | A | B | B Poly-band | C | C Poly-band | D | D Poly-band | |
| 26-37 | 0.75 | 1.00 | 1.50 | 1.50 | – | – | – | 1.00" |
| 38-59 | 0.75 | 1.00 | 1.50 | 1.50 | 2.00 | – | – | 1.50 |
| 60-89 | 0.75 | 1.25 | 1.61 | 1.50 | 2.00 | – | – | 2.00 |
| 90-119 | 1.00 | 1.25 | 1.61 | 1.50 | 2.00 | – | – | 2.50 |
| 120-157 | 1.00 | 1.25 | 1.81 | 1.50 | 2.11 | 2.0 | 2.00 | 3.00 |
| 158-194 | – | 1.25 | 1.81 | 2.00 | 2.20 | 2.00 | 3.00 | 3.50 |
| 195-239 | – | 1.50 | 1.81 | 2.00 | 2.31 | 2.00 | 3.20 | 4.00 |
| 240-269 | – | 1.50 | 2.00 | 2.00 | 2.50 | 2.50 | 3.20 | 4.50 |
| 270-329 | – | 1.50 | 2.20 | 2.00 | 2.50 | 2.50 | 3.50 | 5.00 |
| 330-419 | – | – | – | 2.00 | 2.70 | 2.50 | 3.60 | 6.00 |
| 420 and Over | – | – | – | 2.50 | 2.90 | 3.00 | 4.10 | 1-1/2 percent of belt lgth. |

## TENSIONING A DRIVE
### General Rules of Tensioning–

1. Ideal tension is the lowest tension at which the belt will not slip under peak load conditions.
2. Check tension frequently during the first 24-48 hours of run-in operation.
3. Over tensioning shortens belt and bearing life.
4. Keep belts free from foreign material which may cause slip.
5. Make V-Drive inspection on a periodic basis. Tension when slipping. Never apply belt dressing as this will damage the belt and cause early failure.

### Simple Tensioning Procedure

1. Measure the span length, K.
2. At the center of the span (K) apply a force (perpendicular to the span) large enough to deflect the 1/64, for every inch of span length. For example, one deflection of a 100 inch span would be 100/64 or 1-9/16 inches.




3. Compare the force you have applied with the values given in Tables 13 or 14. If the force is between the values for normal tension, and 1-1/2 times normal tension, the drive tension should be satisfactory. A force below the value for normal tension indicates an under-tensioned drive. If the force exceeds the value for 1-1/2 times normal tension, the drive is tighter than it needs to be.

**For V-Belt Tension Testers, See Page ACC-1**

After the proper operating tension has been applied to the belts, a double-check should be made of the following:

a. Parallel position of the sheave shafts.
b. Correct alignment of sheave grooves.

**Selection program available at www.ptwizard.com**

# Installing/Tensioning V-Drives

**Table 13 - Belt Deflection Force (Check Factory For Conditions Not Covered In This Table)**

| V-Belt Section | Small Sheave | | Deflection Force In Lbs. For Drive Speed Ratio of: | | | |
|---|---|---|---|---|---|---|
| | Speed Range | Diameter | 1.0 | 1.5 | 2.0 | 4.0 + |
| A | 1800-3600 | 3.0 | 2.0 | 2.3 | 2.4 | 2.6 |
| | 1800-3600 | 4.0 | 2.6 | 2.8 | 3.0 | 3.3 |
| | 1800-3600 | 5.0 | 3.0 | 3.3 | 3.4 | 3.7 |
| | 1800-3600 | 7.0 | 3.5 | 3.7 | 3.8 | 4.3 |
| B | 1200-1800 | 4.6 | 3.7 | 4.3 | 4.5 | 5.0 |
| | 1200-1800 | 5.0 | 4.1 | 4.6 | 4.8 | 5.6 |
| | 1200-1800 | 6.0 | 4.8 | 5.3 | 5.5 | 6.3 |
| | 1200-1800 | 8.0 | 5.7 | 6.2 | 6.4 | 7.2 |
| C | 900-1800 | 7.0 | 6.5 | 7.0 | 8.0 | 9.0 |
| | 900-1800 | 9.0 | 8.0 | 9.0 | 10.0 | 11.0 |
| | 900-1800 | 12.0 | 10.0 | 11.0 | 12.0 | 13.0 |
| | 700-1500 | 16.0 | 12.0 | 13.0 | 13.0 | 14.0 |
| D | 900-1500 | 12.0 | 13.0 | 15.0 | 16.0 | 17.0 |
| | 900-1500 | 15.0 | 16.0 | 18.0 | 19.0 | 21.0 |
| | 700-1200 | 18.0 | 19.0 | 21.0 | 22.0 | 24.0 |
| | 700-1200 | 22.0 | 22.0 | 23.0 | 24.0 | 26.0 |
| AX | 1800-3600 | 3.0 | 2.5 | 2.8 | 3.0 | 3.3 |
| | 1800-3600 | 4.0 | 3.3 | 3.6 | 3.8 | 4.2 |
| | 1800-3600 | 5.0 | 3.7 | 4.1 | 4.3 | 4.6 |
| | 1800-3600 | 7.0 | 4.3 | 4.6 | 4.8 | 5.3 |
| BX | 1200-1800 | 4.6 | 5.2 | 5.8 | 6.0 | 6.9 |
| | 1200-1800 | 5.0 | 5.4 | 6.0 | 6.3 | 7.1 |
| | 1200-1800 | 6.0 | 6.0 | 6.4 | 6.7 | 7.7 |
| | 1200-1800 | 8.0 | 6.6 | 7.1 | 7.5 | 8.2 |
| CX | 900-1800 | 7.0 | 10.0 | 11.0 | 12.0 | 13.0 |
| | 900-1800 | 9.0 | 11.0 | 12.0 | 13.0 | 14.0 |
| | 900-1800 | 12.0 | 12.0 | 13.0 | 13.0 | 14.0 |
| | 700-1500 | 16.0 | 13.0 | 14.0 | 14.0 | 15.0 |
| DX | 900-1500 | 12.0 | 16.0 | 18.0 | 19.0 | 20.0 |
| | 900-1500 | 15.0 | 19.0 | 21.0 | 22.0 | 24.0 |
| | 700-1200 | 18.0 | 22.0 | 24.0 | 25.0 | 27.0 |
| | 700-1200 | 22.0 | 25.0 | 27.0 | 28.0 | 30.0 |

| V-Belt Section | Small Sheave | | Deflection Force in Lbs. for Drive Speed Ratio of: | | | |
|---|---|---|---|---|---|---|
| | Speed Range | Diameter | 1.0 | 1.5 | 2.0 | 4.0+ |
| 3VX | 1200–3600 | 2.2 | 2.2 | 2.5 | 2.7 | 3.0 |
| | 1200–3600 | 2.5 | 2.6 | 2.9 | 3.1 | 3.6 |
| | 1200–3600 | 3.0 | 3.1 | 3.5 | 3.7 | 4.2 |
| | 1200–3600 | 4.1 | 3.9 | 4.3 | 4.5 | 5.1 |
| | 1200–3600 | 5.3 | 4.6 | 4.9 | 5.1 | 5.7 |
| | 1200–3600 | 6.9 | 5.0 | 5.4 | 5.6 | 6.2 |
| 5VX | 1200–3600 | 4.4 | 6.5 | 7.5 | 8.0 | 9.0 |
| | 1200–3600 | 5.2 | 8.0 | 9.0 | 9.5 | 10.0 |
| | 1200–3600 | 6.3 | 9.5 | 10.0 | 11.0 | 12.0 |
| | 1200–3600 | 7.1 | 10.0 | 11.0 | 12.0 | 13.0 |
| | 900–1800 | 9.0 | 12.0 | 13.0 | 14.0 | 15.0 |
| | 900–1800 | 14 | 14.0 | 15.0 | 16.0 | 17.0 |
| 8VX | 900–1800 | 12.5 | 18.0 | 21.0 | 23.0 | 25.0 |
| | 900–1800 | 14.0 | 21.0 | 23.0 | 24.0 | 28.0 |
| | 700–1500 | 17.0 | 24.0 | 26.0 | 28.0 | 30.0 |
| | 700–1500 | 21.2 | 28.0 | 30.0 | 32.0 | 34.0 |
| | 400–1000 | 24.8 | 31.0 | 32.0 | 34.0 | 36.0 |
| 5V | 900–1800 | 7.1 | 8.5 | 9.5 | 10.0 | 11.0 |
| | 900–1800 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 |
| | 900–1800 | 14 | 12.0 | 13.0 | 14.0 | 15.0 |
| | 700–1200 | 21.2 | 14.0 | 15.0 | 16.0 | 17.0 |
| 8V | 900–1800 | 12.5 | 18.0 | 21.0 | 23.0 | 25.0 |
| | 900–1800 | 14.0 | 21.0 | 23.0 | 24.0 | 28.0 |
| | 700–1500 | 17.0 | 24.0 | 26.0 | 28.0 | 30.0 |
| | 700–1200 | 21.2 | 28.0 | 30.0 | 32.0 | 34.0 |
| | 400–1000 | 24.8 | 31.0 | 32.0 | – | 36.0 |

**Notes:** 1. Use approximately 130 percent of above values to tension a new set of belts
2. Use closest sheave diameter for sizes not shown.

**Selection program available at www.ptwizard.com**

# Installing/Tensioning V-Drives

## Belt Pull and Bearing Loads

**Belt Pull Calculations**–The following method of calcu lating belt pull is found to be the most convenient and ac curate for drives operating at design loads and tensions:

$$T1 + T2 = 33{,}000\ (2.5\text{-}G)\left(\frac{HP}{GV}\right)$$

WHERE:
T1 = Tight side tension, pounds
T2 = Slack side tension, pounds
HP = Design horsepower
V = Belt speed, feet per minute = (PD) (RPM) (.262)
G = Arc of contact correction factor

| D-d C | Arc of Contact | Factor G | D-d C | Arc of Contact | Factor G |
|---|---|---|---|---|---|
| .00 | 180° | 1.00 | .80 | 133° | .87 |
| .10 | 174° | .99 | .90 | 127° | .85 |
| .20 | 169° | .97 | 1.00 | 120° | .82 |
| .30 | 163° | .96 | 1.10 | 113° | .80 |
| .40 | 157° | .94 | 1.20 | 106° | .77 |
| .50 | 151° | .93 | 1.30 | 99° | .73 |
| .60 | 145° | .91 | 1.40 | 91° | .70 |
| .70 | 139° | .89 | 1.50 | 83° | .65 |

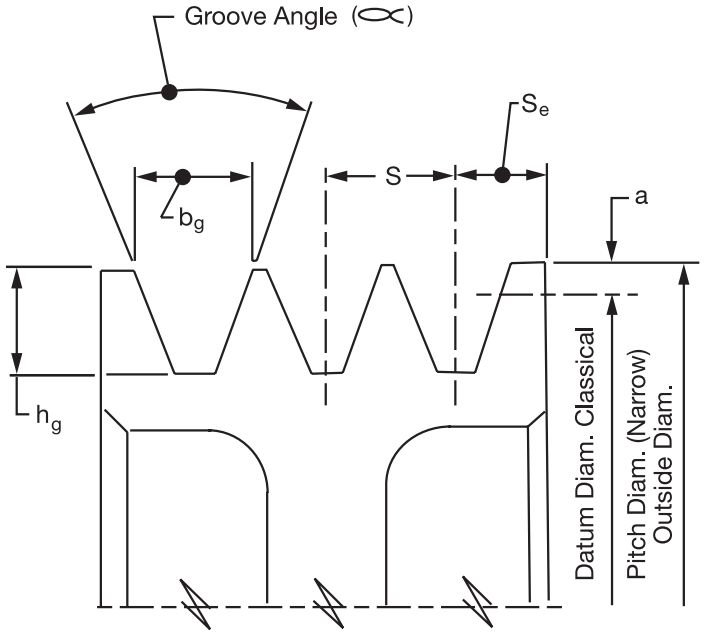
Arc of contact is on small sheave
D = Diam. of large sheave
d = Dia. of small sheve
C = Cener distance



**Selection program available at www.ptwizard.com**

# Technical

## V-Belt Sheave Groove Dimensions




## Narrow

| Belt Section | Outside Diameter Range | ∝ ∝ ± 0.25 | bg ± .005 | hg Min. | a | S ± .015 | Se | |
|---|---|---|---|---|---|---|---|---|
| 3VX, 3V | LESS THAN 3.50 . . . . . | 36° | .350 | 0.340 | 0.025 | 0.406 | 0.344 | +.094 -.000 |
| | 3.50 TO 6.00 . . . . . | 38° | | | | | | |
| | 6.01 to 12.00 . . . . . | 40° | | | | | | |
| | 0ver12.00 . . . . . | 42° | | | | | | |
| 5VX, 5V | Less than 10.00 . . . . . | 38° | .600 | 0.590 | .050 | 0.688 | 0.500 | +.125 -.000 |
| | 10.00 to 16.00 . . . . . | 40° | | | | | | |
| | 0ver 16.00 . . . . . | 42° | | | | | | |
| 8VX, 8V | Less than 16.00 . . . . . | 38° | 1.000 | 0.990 | .100 | 1.125 | 0.750 | +.250 -.000 |
| | 16.00 to 22.40 . . . . . | 40° | | | | | | |
| | 0ver 22.40 . . . . . | 42° | | | | | | |

## Classical

| Belt Section | Pitch Diameter Min. Recom. | Pitch Diameter Range | m + 0.33 | bg | | hg Min. | 2a ref * | S ± .025 | Se | |
|---|---|---|---|---|---|---|---|---|---|---|
| AX, A | 3.0 | 2.6 to 5.4 . . . . . | 34° | .494 | ±.005 | .460 | .125 | .625 | .375 | +.090 -.062 |
| | | 0ver 5.4 . . . . . | 38° | .504 | | | | | | |
| BX, B | 5.4 | 4.6 to 7.0 . . . . . | 34° | .637 | ±.006 | .550 | .175 | .750 | .500 | +.120 -.065 |
| | | 0ver 7.0 . . . . . | 38° | .650 | | | | | | |
| A, B AX, BX | - | To 7.0 . . . . . | 34° | .612 | ±.006 | .612 | A (.634/.602) B (.333/.334) | .750 | .500 | +.120 -.065 |
| | | 0ver 7.0 . . . . . | 38° | .625 | | | | | | |
| CX, C | 9.0 | 7.0 to 7.99 . . . . | 34° | .879 | ±.007 | .750 | .200 | 1.000 | .688 | +.160 -.070 |
| | | 8.0 to 12.0 . . . . | 36° | .887 | | | | | | |
| | | 0ver 12.0 . . . . . | 38° | .895 | | | | | | |
| DX,D | 13.0 | 12.0 to 12.9 . . . | 34° | 1.259 | ±.008 | 1.020 | .300 | 1.438 | .875 | +.220 -.080 |
| | | 13.0 to 17.0 . . . | 36° | 1.271 | | | | | | |
| | | 0ver 17.0 . . . . . | 38° | 1.283 | | | | | | |
| E | 21.0 | 18.0 to 24.0 . . . | 36° | 1.527 | ±.010 | 1.300 | .400 | 1.750 | 1.125 | +.250 -.000 |
| | | 0ver 24.0 . . . . . | 38° | 1.542 | | | | | | |

Note–For complete manufacturing tolerances – see RMA, MPTA, Narrow/Classical V-belt Standards.

* Datum diameter, not pitch diameter.

**Selection program available at www.ptwizard.com**

# Engineering/Technical



## More Power and Life From V-Drives

| Trouble Area And Observation | Cause | Remedy |
|---|---|---|
| **Belt Stretch Beyond Take-Up**<br>Belt stretch unequally. | Mis-aligned drive, unequal work done by belts. | Realign and re-tension drive. |
| All belts stretch about equally. | Belt tensile member broken from improper installation.<br>Insufficient take-up allowance. | Replace all belts with new matched set properly installed.<br>Check take-up and follow allowance on page . |
| | Greatly overloaded or underdesigned drive. | Redesign. |
| **Short Belt Life**<br>Relatively rapid failure; no visible reason. | Tensile members damaged through improper installation. Worn sheave grooves (check with groove gauge) | Replace with all new matched set, properly installed.<br>Replace sheaves. |
| | Under-designed drive. | Redesign. |
| Sidewalls soft and sticky. Low adhesion between cover plies. Cross-section swollen. | Oil or grease on belts or sheaves. | Remove source of oil or grease. Clean belts and grooves with cloth moistened with alcohol. |
| Sidewalls dry and hard. Low adhesion between cover plies. Bottom belt cracked. | High temperatures. | Remove source of heat. Ventilate drive better. |
| **BELT TURN OVER**<br> | Excess lateral belt whip.<br>Foreign material in grooves.<br>Mis-aligned sheaves.<br>Worn sheave grooves (check with groove gauge).<br>Tensile member broken through improper installation.<br>Incorrectly placed flat idler pulley. | Use Banded belt.<br>Remove material–shield drive.<br>Realign the drive.<br>Replace sheave.<br>Replace with new matched set properly installed.<br>Carefully align flat idler on slack side of drive as close as possible to driver sheave. |
| **DETERIORATION OF RUBBER COMPOUNDS USED IN BELT** | Belt dressing. | Never use dressing on V-belts. Clean with cloth moistened with alcohol.<br>Tension drive properly to prevent slip. |
| Extreme cover wear. | Belts rub against belt guard or other obstruction. | Remove obstruction or align drive to give needed clearance. |
| Spin burns on belt. | Belts slip under starting or stalling load. | Tighten drive until slipping stops. |
| Bottom of belt cracked.<br>Broken belts. | Too small sheaves.<br>Object falling into or hitting drive. | Redesign for larger sheaves.<br>Replace with new matched set of belts.<br>Provide shield for drive. |
| **IMPROPER DRIVEN SPEED**<br>Incorrect driveR-driveN ratio.<br>Spin burns on belt. | Design error.<br>Belt slip. | Use correct sheave sizes.<br>Re-tension drive until belt stops slipping. |
| **BELT NOISE** | Belt slip. | Re-tension drive until it stops slipping. |
| **HOT BEARINGS** | | |
| Drive over-tensioned. | Worn grooves-belts bottoming and will not transmit power until over-tensioned.<br>Improper tensioning. | Replace sheaves. Tension drive properly.<br>Re-tension drive. |
| Sheaves too small. | Motor manufacturers sheave diameters not followed. | Redesign drive. |
| Poor bearing condition. | Underdesigned bearing or poor bearing maintenance. | Observe recommended bearing design and maintenance. |
| Sheaves out too far on shaft. | Error or obstruction problem. | Place sheaves as close as possible to bearings.<br>Remove any obstruction preventing this. |
| Drive under-tensioned. | Belts slipping and causing heat build-up. | Re-tension drive. |

# Notes

# Roller Chain Sprocket Products


| | |
|---|---|
| **PT5-2** | **Features/Benefits** |
| **PT5-3** | **Specification: Taper-Lock** |
| PT5-3 | #35 |
| PT5-4 | #40 |
| PT5-6 | #50 |
| PT5-8 | #60 |
| PT5-10 | #80 |
| PT5-11 | #100 |
| PT5-12 | #120 |
| PT5-13 | #140 |
| PT5-13 | #160 |
| PT5-14 | Double-Single Sprockets |
| **PT5-15** | **Selection** |
| PT5-16 | Procedure, Example |
| **PT5-25** | **Engineering/Technical** |
| PT5-25 | Custom Taper-Lock |
| PT5-26 | Sprocket Pitch Diameter |
| PT5-27 | Sprocket and Chain Diameter |
| **PT5-28** | **Roller Chain Installation** |

# Features/Benefits

## Sprockets for Roller Chain

### Featuring Taper-Lock Sprockets

**Shaft Ready**

For low-speed roller chain drives, Dodge Taper-Lock sprockets are the perfect solution for extra muscle.

**Advantages**

- Features Compact design
- Installs easily
- Fits shaft securely
- Comes in wide range of stock sizes
- Allows exact ratio/rating required for your operation
- Installation-ready, right from the box
- Meets ANSI standards

**Hardened Teeth at No Extra Cost**

- Through 25 teeth
- #40 through #160
- No price premium

**Advantages**

- Offers twice the wear life
- Saves downtime and replacement costs
- Equalizes wear between large and small sprocket
- Offers greater resistance against abrasive wear
- Extends chain life

DoubleStrand
Taper-Lock Sprocket

Single
Taper-Lock Sprocket

Double-Single
Taper-Lock Sprocket

HARDENED TOOTH
SPROCKETS LIKE THIS

With Hardened Tooth Sprockets

AVOID SPROCKET
WEAR LIKE THIS

Without Hardened Tooth Sprockets

## Simple Mounting

**Easy On**

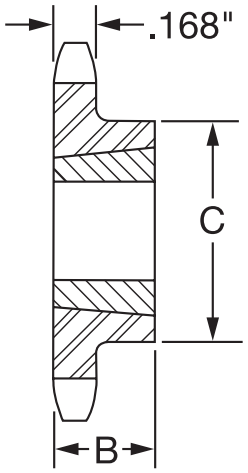
- Insert bushing into sprocket.
- Match holes (not threads)
- Put screws into holes that are farthest apart.
- Slip unit onto shaft.
- Set drive alignment and tighten screws

**Easy On**

- Take both screws out entirely.
- Insert one screw into hole that is threaded in the bushing only.
- Use as jackscrew to disengage bushing.

# Specification

## No. 35 for 3/8” Pitch Single Strand Chain



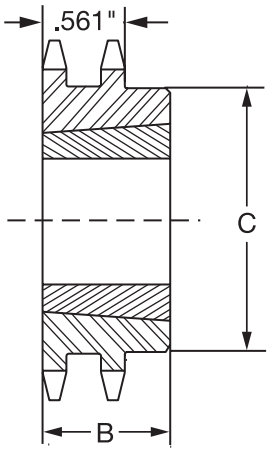

**TYPE BTL**

**Taper-Lock Sprockets**

| No. of Teeth | Spkt. O.D. | Description | Part No. | Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 18 | 2.352 | 35BTL18-1008 | **100350** | 0.5 | 1.88 ◊ | | | |
| 19 | 2.472 | 35BTL19-1008 | **100351** | 0.6 | 1.81 | | | |
| 20 | 2.593 | 35BTL20-1008 | **100352** | 0.7 | 1.94 | 1/2 | 1 | .88 |
| 21 | 2.713 | 35BTL21-1008 | **100353** | 0.8 | 2.06 | | | |
| 22 | 2.833 | 35BTL22-1210 | **100354** | 0.9 | 2.38 ◊ | | | |
| 23 | 2.954 | 35BTL23-1210 | **100343** | 1.0 | 2.88 ◊ | | | |
| 24 | 3.074 | 35BTL24-1210 | **100355** | 1.0 | 2.88 | 1/2 | 1-1/4 | 1.0 |
| 25 | 3.194 | 35BTL25-1210 | **100344** | 1.3 | 2.88 | | | |
| 26 | 3.314 | 35BTL26-1610 | **100356** | 1.3 | 2.88 ◊ | | | |
| 28 | 3.553 | 35BTL28-1610 | **100345** | 1.3 | 2.88 | | | |
| 30 | 3.793 | 35BTL30-1610 | **100357** | 1.4 | 3.13 | | | |
| 32 | 4.032 | 35BTL32-1610 | **100358** | 1.5 | 3.25 | | | |
| 35 | 4.392 | 35BTL35-1610 | **100359** | 1.6 | 3.25 | | | |
| 36 | 4.511 | 35BTL36-1610 | **100346** | 1.6 | 3.25 | | | |
| 40 | 4.990 | 35BTL40-1610 | **100360** | 2.1 | 3.25 | | | |
| 42 | 5.229 | 35BTL42-1610 | **100347** | 2.2 | 3.25 | | | |
| 45 | 5.588 | 35BTL45-1610 | **100361** | 2.3 | 3.25 | | | |
| 48 | 5.946 | 35BTL48-1610 | **100362** | 2.5 | 3.25 | 1/2 | 1-5/8 | 1.0 |
| 54 | 6.663 | 35BTL54-1610 | **100363** | 2.8 | 3.25 | | | |
| 60 | 7.380 | 35BTL60-1610 | **100364** | 3.2 | 3.25 | | | |
| 70 | 8.575 | 35BTL70-1610 | **100365** | 3.3 | 3.25 | | | |
| 72 | 8.814 | 35BTL72-1610 | **100348** | 4.1 | 3.25 | | | |
| 80 | 9.770 | 35BTL80-1610 | **100366** | 4.2 | 3.25 | | | |
| 84 | 10.247 | 35BTL84-1610 | **100349** | 5.1 | 3.25 | | | |
| 96 | 11.680 | 35BTL96-1610 | **100367** | 6.2 | 3.25 | | | |
| 112 | 13.590 | 35BTL112-1610 | **100368** | 8.0 | 3.25 | | | |

◊ Hub grooved for chain clearance.

## No. 35-2 for 3/8” Pitch Double Strand Chain




**TYPE BTL**

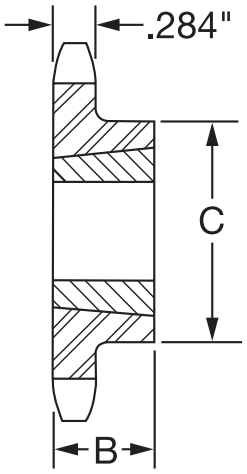
**Taper-Lock–Double**

| No. of Teeth | Spkt. O.D. | Description + | Part No. | Wt. w/o Bush. | Bore Range Min. | Bore Range Max. | B | C Hub Dia. |
|---|---|---|---|---|---|---|---|---|
| 19 | 2.472 | D35BTL19H-1008 | **101150** | .6 | 1/2 | 1 | 0.88 | 1.810 |
| 20 | 2.593 | D35BTL20H-1008 | **101151** | .8 | 1/2 | 1 | 0.88 | 1.880 |
| 21 | 2.713 | D35BTL21H-1008 | **101152** | 1.4 | 1/2 | 1 | 0.88 | 1.810 |
| 22 | 2.833 | D35BTL22H-1008 | **101153** | 1.7 | 1/2 | 1 | 0.88 | 1.810 |
| 24 | 3.074 | D35BTL24H-1210 | **101154** | 1.8 | 1/2 | 1-1/4 | 1.00 | 2.470 |
| 26 | 3.314 | D35BTL26-1210 | **101155** | 2.0 | 1/2 | 1-1/4 | 1.00 | 2.625 |
| 30 | 3.793 | D35BTL30-1610 | **101156** | 1.8 | 1/2 | 1-5/8 | 1.00 | 3.125 |
| 32 | 4.032 | D35BTL32-1610 | **101157** | 2.0 | 1/2 | 1-5/8 | 1.00 | 3.250 |
| 35 | 4.392 | D35BTL35-1610 | **101158** | 2.3 | 1/2 | 1-5/8 | 1.00 | 3.250 |
| 40 | 4.990 | D35BTL40-1610 | **101159** | 2.9 | 1/2 | 1-5/8 | 1.00 | 3.250 |
| 45 | 5.588 | D35BTL45-1610 | **101160** | 3.2 | 1/2 | 1-5/8 | 1.00 | 3.250 |
| 48 | 5.946 | D35BTL48-1610 | **101161** | 3.5 | 1/2 | 1-5/8 | 1.00 | 3.625 |
| 54 | 6.663 | D35BTL54-1610 | **101162** | 3.9 | 1/2 | 1-5/8 | 1.00 | 3.625 |
| 70 | 8.575 | D35BTL70-1610 | **101164** | 6.3 | 1/2 | 1-5/8 | 1.00 | 3.625 |
| 80 | 9.770 | D35BTL80-1610 | **101165** | 7.9 | 1/2 | 1-5/8 | 1.00 | 3.625 |
| 96 | 11.680 | D35BTL96-1610 | **101166** | 9.9 | 1/2 | 1-5/8 | 1.00 | 3.625 |
| 112 | 13.590 | D35BTL112-1610 | **101167** | 10.9 | 1/2 | 1-5/8 | 1.00 | 3.625 |

+ “H” suffix indicates Hardened Teeth.

# Specification

## No. 40 for 1/2” Pitch Single Strand Chain




**TYPE BTL**

### Taper-Lock Sprockets

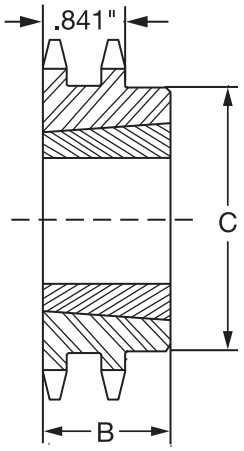
| No. Teeth | Spkt. O.D. | Description + | Part No. | Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 14 | 2.490 | 40BTL14H-1008 | **100500** | 0.4 | 1.81 ◊ | | | |
| 15 | 2.652 | 40BTL15H-1008 | **100501** | 0.4 | 1.81 | 1/2 | 1 | 0.88 |
| 16 | 2.814 | 40BTL16H-1008 | **100502** | 0.5 | 1.94 | | | |
| 17 | 2.974 | 40BTL17H-1210 | **100503** | 0.5 | 2.38 ◊ | | | |
| 18 | 3.136 | 40BTL18H-1210 | **100504** | 0.7 | 2.47 ◊ | 1/2 | 1-1/4 | 1.00 |
| 19 | 3.292 | 40BTL19H-1210 | **100505** | 0.8 | 2.47 | | | |
| 20 | 3.457 | 40BTL20H-1610 | **100506** | 0.8 | 2.78 ◊ | | | |
| 21 | 3.618 | 40BTL21H-1610 | **100507** | 0.8 | 2.78 ◊ | 1/2 | 1-11/16 | 1.00 |
| 22 | 3.778 | 40BTL22H-1610 | **100508** | .8 | 2.78 | | | |
| 23 | 3.938 | 40BTL23H-1610 | **100509** | 1.2 | 3.00 | | | |
| 24 | 4.098 | 40BTL24H-1610 | **100510** | 1.5 | 3.25 | | | |
| 25 | 4.258 | 40BTL25H-1610 | **100511** | 1.6 | 3.25 | | | |
| 26 | 4.418 | 40BTL26-1610 | **100512** | 1.5 | 3.25 | 1/2 | 1-11/16 | 1.00 |
| 27 | 4.578 | 40BTL27-1610 | **104700** | 1.5 | 3.25 | | | |
| 28 | 4.738 | 40BTL28-1610 | **100513** | 1.5 | 3.00 | | | |
| 29 | 4.898 | 40BTL29-1610 | **104701** | 1.6 | 3.00 | | | |
| 30 | 5.057 | 40BTL30-1610 | **100514** | 1.7 | 3.00 | | | |
| 32 | 5.376 | 40BTL32-1610 | **100515** | 2.0 | 3.00 | 1/2 | 1-11/16 | 1.00 |
| 33 | 5.536 | 40BTL33-1610 | **104702** | 2.1 | 3.00 | | | |
| 34 | 5.696 | 40BTL34-1610 | **104703** | 2.3 | 3.00 | | | |
| 35 | 5.856 | 40BTL35-1610 | **100516** | 2.4 | 3.00 | | | |
| 36 | 6.015 | 40BTL36-1610 | **100517** | 2.4 | 3.00 | | | |
| 40 | 6.653 | 40BTL40-1610 | **100518** | 2.8 | 3.00 | 1/2 | 1-11/16 | 1.00 |
| 42 | 6.972 | 40BTL42-1610 | **100519** | 3.0 | 3.00 | | | |
| 44 | 7.291 | 40BTL44-1610 | **104707** | 3.2 | 3.00 | | | |
| 45 | 7.450 | 40BTL45-1610 | **100520** | 3.8 | 3.00 | | | |
| 48 | 7.928 | 40BTL48-1610 | **100521** | 3.9 | 3.00 | | | |
| 50 | 8.248 | 40BTL50-1610 | **104709** | 4.5 | 3.00 | 1/2 | 1-11/16 | 1.00 |
| 54 | 8.725 | 40BTL54-1610 | **100522** | 5.0 | 3.00 | | | |
| 60 | 9.840 | 40BTL60-1610 | **100523** | 6.1 | 3.00 | | | |
| 70 | 11.433 | 40BTL70-2012 | **100524** | 8.6 | 3.56 | | | |
| 72 | 11.752 | 40BTL72-2012 | **100525** | 8.7 | 3.56 | | | |
| 80 | 13.026 | 40BTL80-2012 | **100526** | 10.9 | 3.56 | 1/2 | 2 | 1.25 |
| 84 | 13.663 | 40BTL84-2012 | **100527** | 11.8 | 3.56 | | | |
| 96 | 15.573 | 40BTL96-2012 | **100528** | 13.7 | 3.56 | | | |
| 112 | 18.121 | 40BTL112-2517 | **100529** | 21.3 | 4.25 | 1/2 | 2-1/2 | 1.75 |

◊ Hub grooved for chain clearance.

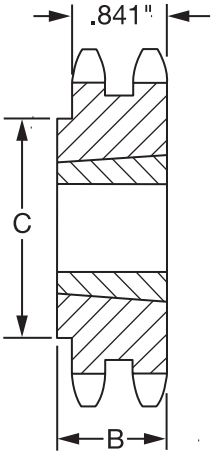
+ “H” suffix indicates Hardened Teeth.

# Specification

## No. 40-2 for 1/2” Pitch Double Strand Chain




**TYPE BTL 1**




**TYPE BTL 2**

### Taper-Lock Sprockets

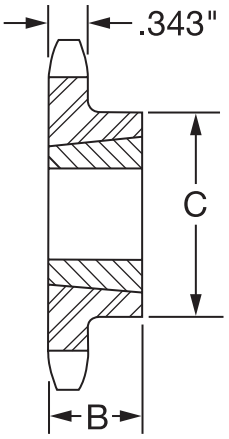
| No. of Teeth | Spkt. O.D. | Description + | Part No. | Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 15 | 2.652 | D40BTL15H-1008• | **101001** | 0.5 | 1.81 | | | |
| 16 | 2.814 | D40BTL16H-1008 | **101002** | 0.7 | 1.27 | 1/2 | 1 | 0.88 |
| 17 | 2.974 | D40BTL17H-1008 | **101003** | 0.8 | 1.27 | | | |
| 18 | 3.136 | D40BTL18H-1210 | **101004** | 0.7 | 2.29 | 1/2 | 1-1/4 | 1.00 |
| 19 | 3.292 | D40BTL19H-1210 | **101005** | 0.9 | 2.47 | | | |
| 20 | 3.457 | D40BTL20H-1610 | **101006** | 1.1 | 3.25 | | | |
| 21 | 3.618 | D40BTL21H-1610 | **101007** | 1.1 | 2.69 | 1/2 | 1-11/16 | 1.00 |
| 23 | 3.938 | D40BTL23H-1610• | **101008** | 1.4 | 3.00 | | | |
| 24 | 4.098 | D40BTL24H-1610• | **104822** | 1.6 | 3.25 | | | |
| 25 | 4.258 | D40BTL25H-2012 | **101009** | 1.8 | 3.42 | | | |
| 26 | 4.418 | D40BTL26-2012• | **104823** | 2.3 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 30 | 5.057 | D40BTL30-2012• | **101010** | 3.6 | 3.56 | | | |
| 36 | 6.015 | D40BTL36-2012• | **101011** | 5.9 | 3.56 | | | |
| 42 | 6.972 | D40CTL42-2517 | **101012** | 7.4 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 45 | 7.450 | D40BTL45-2517• | **104828** | 8.5 | | | | |
| 48 | 7.928 | D40BTL48-2517• | **101013** | 9.4 | | | | |
| 52 | 8.566 | D40BTL52-2517 | **101014** | 11.5 | | | | |
| 60 | 9.840 | D40BTL60-2517• | **101015** | 15.5 | | | | |
| 68 | 11.115 | D40BTL68-2517• | **101016** | 20.5 | | | | |
| 76 | 12.389 | D40BTL76-2517• | **101017** | 26.5 | | | | |
| 84 | 13.663 | D40BTL84-2517• | **101018** | 32.0 | | | | |
| 95 | 15.414 | D40BTL95-2517• | **101019** | 36.0 | | | | |
| 102 | 16.528 | D40BTL102-2517• | **101020** | 44.0 | | | | |

+ “H” suffix indicates Hardened Teeth.

• BTL2

# Specification

## No. 50 for 5/8” Pitch Single Strand Chain




**TYPE BTL**

### Taper-Lock Sprockets

| No. of Teeth | Spkt. O.D. | Description | Part No. | Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 12 | 2.708 | 50BTL12H-1008 | **100530** | 0.5 | 1.81 ◊ | | | |
| 13 | 2.991 | 50BTL13H-1008 | **100531** | 0.5 | 1.81 | 1/2 | 1 | 0.88 |
| 14 | 3.113 | 50BTL14H-1008 | **100532** | 0.6 | 1.81 | | | |
| 15 | 3.315 | 50BTL15H-1210 | **100533** | 0.6 | 2.47 ◊ | 1/2 | 1-1/4 | 1.00 |
| 16 | 3.517 | 50BTL16H-1610 | **100534** | 0.8 | 2.78 ◊ | | | |
| 17 | 3.713 | 50BTL17H-1610 | **100535** | 1.1 | 2.78 ◊ | 1/2 | 1-11/16 | 1.00 |
| 18 | 3.919 | 50BTL18H-1610 | **100536** | 1.2 | 2.84 | | | |
| 19 | 4.121 | 50BTL19H-1610 | **100537** | 1.3 | 3.03 | | | |
| 20 | 4.321 | 50BTL20H-1610 | **100538** | 1.4 | 3.25 | | | |
| 21 | 4.522 | 50BTL21H-1610 | **100539** | 1.5 | 3.25 | | | |
| 22 | 4.722 | 50BTL22H-1610 | **100540** | 1.6 | 3.25 | | | |
| 23 | 4.923 | 50BTL23H-2012 | **100541** | 2.2 | | | | |
| 24 | 5.123 | 50BTL24H-2012 | **100542** | 2.4 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 25 | 5.323 | 50BTL25H-2012 | **100543** | 2.4 | | | | |
| 26 | 5.523 | 50BTL26-2012 | **100544** | 2.5 | 4.00 | 1/2 | 2-3/8 | 1.25 |
| 27 | 5.723 | 50BTL27-2012 | **100675** | 2.8 | 4.00 | | | |
| 28 | 5.922 | 50BTL28-2012 | **100545** | 3.0 | | 1/2 | 2-1/8 | 1.25 |
| 30 | 6.321 | 50BTL30-2012 | **100546** | 3.2 | 3.56 | | | |
| 32 | 6.721 | 50BTL32-2012 | **100547** | 3.5 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 35 | 7.319 | 50BTL35-2012 | **100548** | 4.2 | | | | |
| 36 | 7.519 | 50BTL36-2012 | **100549** | 4.7 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 40 | 8.316 | 50BTL40-2012 | **100550** | 5.5 | | | | |
| 42 | 8.715 | 50BTL42-2012 | **100551** | 6.0 | | | | |
| 45 | 9.313 | 50BTL45-2012 | **100552** | 6.5 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 48 | 9.911 | 50BTL48-2012 | **100553** | 7.4 | | | | |
| 54 | 11.106 | 50BTL54-2012 | **100554** | 8.7 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 60 | 12.301 | 50BTL60-2012 | **100555** | 10.5 | | | | |
| 70 | 14.292 | 50BTL70-2517 | **100556** | 15.5 | | | | |
| 72 | 14.690 | 50BTL72-2517 | **100557** | 16.5 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 80 | 16.283 | 50BTL80-2517 | **100558** | 19.0 | | | | |
| 84 | 17.079 | 50BTL84-2517 | **100559** | 23.1 | | | | |
| 96 | 19.467 | 50BTL96-2517 | **100560** | 32.5 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 112 | 22.651 | 50BTL112-2517 | **100561** | 42.2 | | | | |

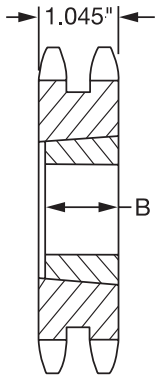
◊ Hub grooved for chain clearance.

### Taper-Lock–Large bore series

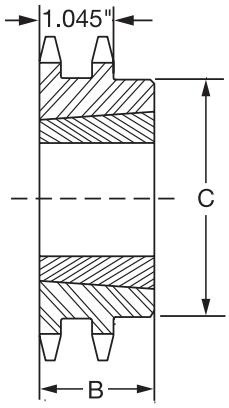
| No. of Teeth | Spkt. O.D. | Description | Part No. | Wt. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 35 | 7.319 | 50BTL35L-2517 | **100454** | 4.7 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 45 | 9.313 | 50BTL45L-2517 | **100699** | 7.0 | 4.25 | 1/2 | 2-11/16 | 1.75 |

# Specification

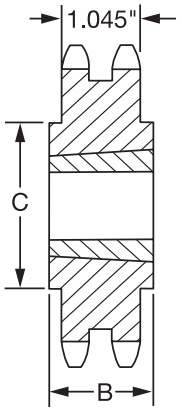
## No. 50-2 for 5/8” Pitch Double Strand Chain




**TYPE ATL**




**TYPE BTL**



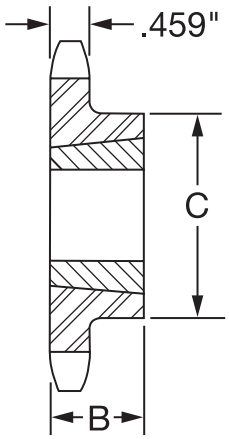

**TYPE CTL**

| No. of Teeth | Spkt. O.D. | Description + | Part No. | Wt. w/o Bush. | Hub Dia. C | Bore Range | | B |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Min. | Max. | |
| 14 | 3.113 | D50ATL14H-1008 | **101031** | 0.9 | – | 1/2 | 1.0 | 0.88 |
| 15 | 3.315 | D50ATL15H-1210 | **101032** | 1.0 | – | 1/2 | 1-1/4 | 1.0 |
| 16 | 3.517 | D50ATL16H-1210 | **101033** | 1.1 | – | | | |
| 17 | 3.718 | D50ATL17H-1610 | **101034** | 1.1 | – | | | |
| 18 | 3.919 | D50ATL18H-1610 | **101035** | 1.4 | – | 1/2 | 1-11/16 | 1.0 |
| 19 | 4.121 | D50ATL19H-1610 | **101036** | 1.7 | – | | | |
| 20 | 4.321 | D50BTL20H-2012 | **101037** | 1.9 | | | | |
| 21 | 4.522 | D50BTL21H-2012 | **101038** | 2.0 | | | | |
| 22 | 4.722 | D50BTL22H-2012 | **104834** | 2.5 | | | | |
| 24 | 5.123 | D50BTL24H-2012 | **104836** | 3.5 | 3.56 | 1/2 | 1-11/16 | 1.25 |
| 25 | 5.323 | D50BTL25H-2012 | **101039** | 4.0 | | | | |
| 26 | 5.523 | D50BTL26-2012 | **104837** | 4.7 | | | | |
| 28 | 5.922 | D50BTL28-2012 | **104838** | 6.3 | | | | |
| 30 | 6.321 | D50BTL30-2517 | **101040** | 7.8 | | | | |
| 32 | 6.721 | D50BTL32-2517 | **104839** | 8.4 | | | | |
| 35 | 7.319 | D50BTL35-2517 | **104840** | 9.2 | | | | |
| 36 | 7.519 | D50CTL36-2517 | **101041** | 10.0 | | | | |
| 42 | 8.715 | D50CTL42-2517 | **101042** | 14.2 | | | | |
| 48 | 9.911 | D50CTL48-2517 | **101043** | 18.7 | | | | |
| 52 | 10.708 | D50CTL52-2517 | **101044** | 22.5 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 60 | 12.301 | D50CTL60-2517 | **101045** | 36.5 | | | | |
| 68 | 13.894 | D50CTL68-2517 | **101046** | 39.5 | | | | |
| 76 | 15.486 | D50CTL76-2517 | **101047** | 49.5 | | | | |
| 84 | 17.079 | D50CTL84-2517 | **101048** | 52.0 | | | | |
| 95 | 19.268 | D50CTL95-2517 | **101049** | 70.0 | | | | |
| 102 | 20.661 | D50CTL102-2517 | **101050** | 75.0 | | | | |

+ “H” suffix indicates Hardened Teeth.

# Specification

## No. 60 for 3/4” Pitch Single Strand Chain




**TYPE BTL**

| No. of Teeth | Spkt. O.D. | Description + | Part No. | Spkt. Wt. w/o Bush. | C Spkt. Hub Dia. | Bore Range Min. | Bore Range Max. | B Lgth. Thru Bore |
|---|---|---|---|---|---|---|---|---|
| 11 | 3.005 | 60BTL11H-1008 | **100562** | 0.6 | 1.81 | 1/2 | 1 | 0.88 |
| 12 | 3.249 | 60BTL12H-1008 | **100563** | 0.7 | 1.94 | | | |
| 13 | 3.493 | 60BTL13H-1210 | **100564** ◊ | 1.1 | 2.47 | 1/2 | 1-1/4 | 1.00 |
| 14 | 3.736 | 60BTL14H-1210 | **100565** | 1.2 | 2.59 | | | |
| 15 | 3.978 | 60BTL15H-1610 | **100566**◊ | 1.4 | 2.78 | | | |
| 16 | 4.220 | 60BTL16H-1610 | **100567** | 1.9 | 3.00 | | | |
| 17 | 4.462 | 60BTL17H-1610 | **100568** | 2.0 | 3.25 | 1/2 | 1-11/16 | 1.00 |
| 18 | 4.703 | 60BTL18H-1610 | **100569** | 2.2 | 3.50 | | | |
| 19 | 4.945 | 60BTL19H-1610 | **100570** | 2.4 | 3.50 | | | |
| 20 | 5.186 | 60BTL20H-2012 | **100571** | 2.5 | | | | |
| 21 | 5.426 | 60BTL21H-2012 | **100572** | 2.9 | | | | |
| 22 | 5.666 | 60BTL22H-2012 | **100573** | 3.0 | | | | |
| 23 | 5.907 | 60BTL23H-2012 | **100574** | 3.2 | | | | |
| 24 | 6.147 | 60BTL24H-2012 | **100575** | 3.2 | | | | |
| 25 | 6.387 | 60BTL25H-2012 | **100576** | 3.8 | | | | |
| 26 | 6.627 | 60BTL26-2012 | **100577** | 4.1 | | | | |
| 27 | 6.867 | 60BTL27H-2012 | **100676** | 4.2 | | | | |
| 28 | 7.106 | 60BTL28-2012 | **100578** | 4.2 | 3.625 | 1/2 | 2-1/8 | 1.25 |
| 30 | 7.586 | 60BTL30-2012 | **100579** | 5.5 | | | | |
| 32 | 8.065 | 60BTL32H-2012 | **100580** | 6.0 | | | | |
| 35 | 8.783 | 60BTL35-2012 | **100581** | 7.0 | | | | |
| 36 | 9.023 | 60BTL36H-2012 | **100582** | 7.0 | | | | |
| 40 | 9.980 | 60BTL40H-2012 | **100583** | 8.7 | | | | |
| 42 | 10.458 | 60BTL42-2012 | **100584** | 9.7 | | | | |
| 45 | 11.176 | 60BTL45-2012 | **100585** | 10.7 | | | | |
| 48 | 11.893 | 60BTL48-2012 | **100586** | 13.5 | | | | |
| 54 | 13.327 | 60BTL54-2517 | **100587** | 17.8 | | | | |
| 60 | 14.761 | 60BTL60-2517 | **100588** | 20.7 | | | | |
| 70 | 17.150 | 60BTL70-2517 | **100589** | 30.0 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 72 | 17.628 | 60BTL72-2517 | **100590** | 31.6 | | | | |
| 80 | 19.539 | 60BTL80-2517 | **100591** | 34.7 | | | | |
| 84 | 20.495 | 60BTL84-2517 | **100592** | 44.7 | | | | |

◊ Hub grooved for chain clearance.

+ “H” suffix indicates Hardened Teeth.

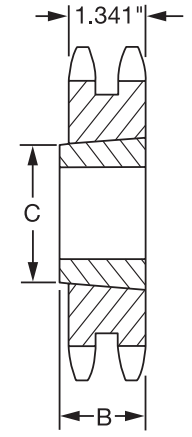
### Taper-Lock Sprockets-Large Bore Series

| No. of Teeth | Spkt. O.D. | Description L | Part No. | Wt. | Hub Dia. C | Bore Range Min. | Bore Range Max. | B Dim. |
|---|---|---|---|---|---|---|---|---|
| 28 | 7.106 | 60BTL28L-2517 | **100459** | 4.8 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 35 | 8.783 | 60BTL35L-2517 | **100461** | 7.5 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 40 | 9.980 | 60BTL40L-2517 | **100463** | 9.2 | 4.25 | 1/2 | 2-11/16 | 1.75 |

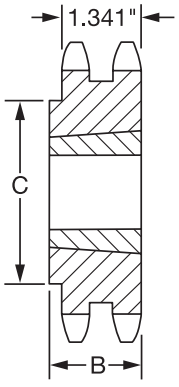
+ “H” suffix indicates Hardened Teeth.

# Specification

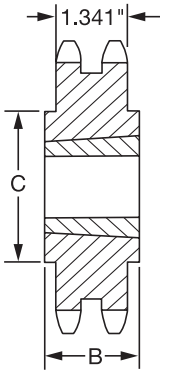
## No. 60-2 for 3/4” Pitch Double Strand Chain




**TYPE ATL**




**TYPE BTL1**




**TYPE CTL**

**Taper-Lock - Double Strand**

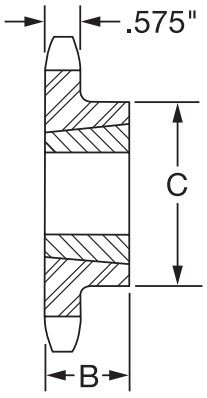
| No. of Teeth | Spkt. O.D. | Description + | Part No. | Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 13 | 3.493 | D60BTL13H-1215• | **101061** | 1.40 | 2.46 | | 1-1/4 | |
| 14 | 3.736 | D60BTL14H-1215• | **101062** | 1.70 | 2.49 | 1/2 | 1-1/4 | 1.50 |
| 14T | 3.736 | D60BTL14H-1615• | **101086** | 1.70 | 2.74 | | 1-11/16 | |
| 15 | 3.978 | D60BTL15H-1615• | **101063** | 1.80 | 2.47 | | | |
| 16 | 4.220 | D60BTL16H-1615• | **101064** | 2.40 | 2.97 | 1/2 | 1-11/16 | 1.50 |
| 17 | 4.462 | D60BTL17H-1615 | **101065** | 2.60 | 3.25 | | | |
| 18 | 4.703 | D60ATL18H-2012 | **101066** | 2.80 | – | 1/2 | 2-1/8 | 1.25 |
| 19 | 4.945 | D60ATL19H-2012 | **101067** | 3.10 | – | | | |
| 20 | 5.186 | D60BTL20H-2517• | **101068** | 3.30 | 3.95 | 1/2 | 2-11/16 | 1.75 |
| 21 | 5.426 | D60BTL21H-2517• | **101069** | 4.30 | 4.06 | | | |
| 24 | 6.147 | D60BTL24H-2517 | **104850** | 7.20 | 4.25 | | | |
| 25 | 6.387 | D60BTL25H-2517 | **101070** | 8.00 | | | | |
| 30 | 7.586 | D60BTL30-2517 | **101071** | 13.40 | 6.34 | | | |
| 36 | 9.023 | D60BTL36-2517 | **101072** | 18.00 | | | | |
| 42 | 10.458 | D60BTL42-2517 | **101073** | 26.00 | | 1/2 | 2-11/16 | 1.75 |
| 45 | 11.176 | D60BTL45-2517 | **101074** | 30.00 | 4.25 | | | |
| 52 | 12.849 | D60CTL52-2517 | **101075** | 41.00 | | | | |
| 60 | 14.761 | D60BTL60-2517 | **101076** | 33.00 | | | | |
| 68 | 16.673 | D60CTL68-2517 | **101077** | 37.00 | | | | |
| 76 | 18.584 | D60BTL76-3020 | **101078** | 42.00 | 5.25 | 7/8 | 3-1/4 | 2.00 |

+ “H” suffix indicates Hardened Teeth.

• BTL1

# Specification

## No. 80 for 1” Pitch Single Strand Chain




**TYPE BTL**

**Taper-Lock**

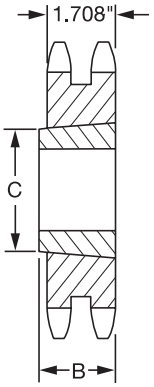
| No. of Teeth | Spkt. O.D. | Description + | Part No. | Spkt. Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 10 | 3.678 | 80BTL10H-1215 | **100593** | 1.2 | 2.38◊ | 1/2 | 1-1/4 | 1.50 |
| 11 | 4.006 | 80BTL11H-1215 | **100594** | 1.5 | 2.38◊ | | | |
| 12 | 4.332 | 80BTL12H-1615 | **100595** | 1.5 | 2.94◊ | 1/2 | 1-11/16 | 1.50 |
| 13 | 4.657 | 80BTL13H-1615 | **100596** | 2.5 | 2.94 | | | |
| 14 | 4.981 | 80BTL14H-1615 | **100597** | 2.9 | 3.25 | | | |
| 15 | 5.304 | 80BTL15H-1615 | **100598** | 3.0 | 3.25 | | | |
| 16 | 5.627 | 80BTL16H-2012 | **100599** | 3.0 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 17 | 5.949 | 80BTL17H-2012 | **100600** | 3.5 | | | | |
| 18 | 6.271 | 80BTL18H-2012 | **100601** | 4.0 | | | | |
| 19 | 6.593 | 80BTL19H-2012 | **100602** | 4.5 | | | | |
| 20 | 6.914 | 80BTL20H-2517 | **100603** | 5.5 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 21 | 7.235 | 80BTL21H-2517 | **100604** | 6.1 | | | | |
| 22 | 7.555 | 80BTL22H-2517 | **100605** | 6.7 | | | | |
| 23 | 7.876 | 80BTL23H-2517 | **100606** | 7.2 | | | | |
| 24 | 8.196 | 808TL24H-2517 | **100607** | 7.5 | | | | |
| 25 | 8.516 | 80BTL25H-2517 | **100608** | 8.5 | | | | |
| 26 | 8.836 | 80BTL26H-2517 | **100609** | 8.5 | | | | |
| 27 | 9.156 | 80BTL27-2517 | **100678** | 9.8 | | | | |
| 28 | 9.475 | 80BTL28-2517 | **100679** | 10.7 | | | | |
| 30 | 10.114 | 80BTL30-2517 | **100610** | 12.3 | | | | |
| 32 | 10.753 | 80BTL32-2517 | **100611** | 13.4 | | | | |
| 35 | 11.711 | 80BTL35-2517 | **100612** | 15.6 | | | | |
| 36 | 12.030 | 80BTL36-2517 | **100613** | 16.3 | | | | |
| 40 | 13.306 | 80BTL40-2517 | **100614** | 20.5 | | | | |
| 42 | 13.944 | 80BTL42-2517 | **104746** | 25.1 | | | | |
| 45 | 14.901 | 80BTL45-2517 | **100615** | 29.3 | | | | |
| 48 | 15.857 | 80BTL48-2517 | **100616** | 34.6 | | | | |
| 54 | 17.769 | 80BTL54-2517 | **100617** | 39.0 | | | | |
| 60 | 19.681 | 80BTL60-2517 | **100618** | 51.3 | | | | |
| 70 | 22.867 | 80BTL70-3020 | **100619** | 65.8 | 5.25 | 7/8 | 3-1/4 | 2.00 |
| 80 | 26.052 | 80BTL80-3020 | **100620** | 77.3 | | | | |

◊ Hub grooved for chain clearance.

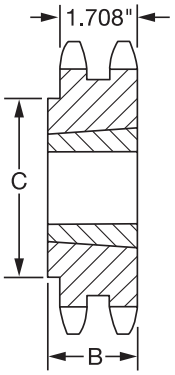
+ “H” suffix indicates Hardened Teeth.

# Specification

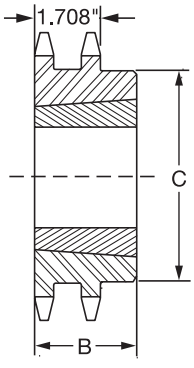
## No. 80-2 for 1” Pitch Double Strand Chain



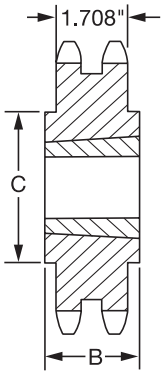

TYPE ATL




TYPE BTL 1




TYPE BTL 2

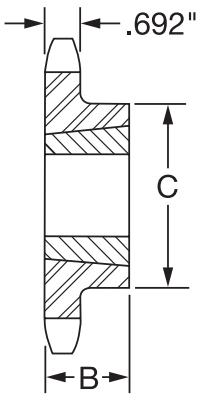



TYPE CTL

**Taper-Lock - Double Strand**

| No. of Teeth | Spkt. O.D. | Description + | Part No. | Spkt. Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 13 | 4.657 | D80ATL13H-1615 | **101090** | 3.3 | – | 1/2 | 1-11/16 | 1.50 |
| 14 | 4.981 | D80ATL14H-2012 | **101091** | 3.5 | – | 1/2 | 2-1/8 | 1.25 |
| 15 | 5.304 | D80ATL15H-2012 | **101092** | 4.4 | – | | | |
| 16 | 5.627 | D80ATL16H-2517 | **101093** | 4.6 | – | | | |
| 17 | 5.949 | D80ATL17H-2517 | **101094** | 5.5 | – | 1/2 | 2-11/16 | 1.75 |
| 18 | 6.271 | D80ATL18H-2517 | **101095** | 6.6 | – | | | |
| 19 | 6.593 | D80BTL19H-3020 | **101096** | 7.1 | – | | | |
| 20 | 6.914 | D80BTL20H-3020 | **101097** | 8.2 | 5.25 | | | |
| 21 | 7.235 | D80BTL21H-3020 | **101098** | 10.4 | 5.46 | | | |
| 23 | 7.876 | D80BTL23H-3020 | **104863** | 12.0 | | | | |
| 25 | 8.516 | D80BTL25H-3020 | **101099** | 16.7 | | | | |
| 30 | 10.114 | D80BTL30-3020 | **101100** | 23.0 | 5.25 | 7/8 | 3-1/4 | 2.00 |
| 36 | 12.030 | D80BTL36-3020 | **101101** | 40 | | | | |
| 42 | 13.944 | D80BTL42-3020 | **101102** | 56 | | | | |
| 60 | 19.681 | D80CTL60-3020 | **101105** | 62 | | | | |
| 68 | 22.230 | D80CTL68-3020 | **101106** | 75 | | | | |
| 76 | 24.778 | D80CTL76-3020 | **101107** | 83 | | | | |
| 95 | 30.828 | D80CTL95-3020 | **101108** | 100 | | | | |

## No. 100 for 1-1/4” Pitch Single Strand Chain



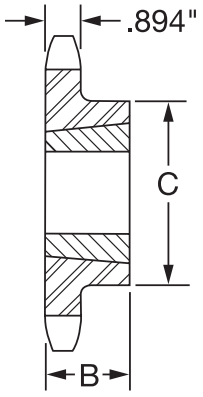

TYPE BTL 1

**Taper-Lock**

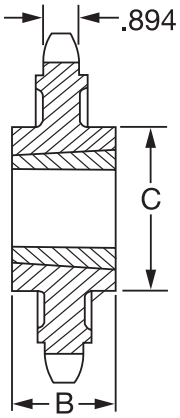
| No. of Teeth | Spkt. O.D. | Description + | Part No. | Wt. w/o Bush. | C. Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 11 | 5.008 | 100BTL11H-1615 | **100621** | 2.7 | 3.00 | 1/2 | 1-11/16 | 1.50 |
| 12 | 5.415 | 100BTL12H-1615 | **100622** | 3.1 | 3.25 | | | |
| 13 | 5.821 | 100BTL13H-2012 | **100623** | 3.0 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 14 | 6.226 | 100BTL14H-2012 | **100624** | 4.0 | | | | |
| 15 | 6.630 | 100BTL15H-2517 | **100625** | 5.5 | | | | |
| 16 | 7.034 | 100BTL16H-2517 | **100626** | 6.0 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 17 | 7.436 | 100BTL17H-2517 | **100627** | 7.0 | | | | |
| 18 | 7.839 | 100BTL18H-2517 | **100628** | 7.5 | | | | |
| 19 | 8.241 | 100BTL19H-2517 | **100629** | 9.7 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 20 | 8.643 | 100BTL20H-2517 | **100630** | 9.8 | | | | |
| 22 | 9.444 | 100BTL22H-2517 | **100632** | 11.4 | | | | |
| 24 | 10.245 | 100BTL24H-2517 | **100633** | 14.3 | | | | |
| 25 | 10.645 | 100BTL25H-2517 | **104754** | 17.0 | 4.50 | 1/2 | 2-11/16 | 1.75 |
| 26 | 11.045 | 100BTL26-2517 | **100634** | 16.0 | | | | |
| 28 | 11.844 | 100BTL28-3020 | **100685** | 20.2 | | | | |
| 30 | 12.643 | 100BTL30-3020 | **100635** | 21.5 | | | | |
| 32 | 13.441 | 100BTL32-3020 | **100636** | 25.0 | | | | |
| 35 | 14.639 | 100BTL35-3020 | **100637** | 30.2 | | | | |
| 36 | 15.038 | 100BTL36-3020 | **100638** | 31.4 | 5.25 | 7/8 | 3-1/4 | 2.00 |
| 40 | 16.633 | 100BTL40-3020 | **100639** | 36.6 | | | | |
| 45 | 18.626 | 100BTL45-3020 | **100640** | 47 | | | | |
| 48 | 19.821 | 100BTL48-3020 | **100641** | 60 | | | | |
| 54 | 22.211 | 100BTL54-3020 | **100642** | 77 | | | | |
| 60 | 24.601 | 100BTL60-3020 | **100643** | 94 | | | | |

# Specification

## No. 120 for 1-1/2” Pitch SingleStrand Chain




**TYPE BTL**




**TYPE CTL**

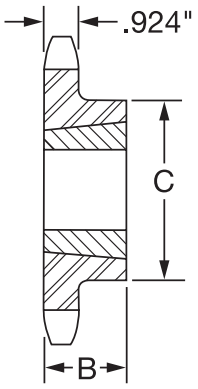
**Taper-Lock**

| No. of Teeth | Spkt. O.D. | Description + | Part No. | Spkt. Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 12 | 6.498 | 120BTL12H-2012 | **100396** | 8.0 | 3.56 | 1/2 | 2-1/8 | 1.25 |
| 13 | 6.989 | 120BTL13H-2517 | **100644** | 6.4 | | | | |
| 14 | 7.472 | 120BTL14H-2517 | **100645** | 7.8 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 15 | 7.956 | 120BTL15H-2517 | **100646** | 9.6 | | | | |
| 16 | 8.441 | 120BTL16H-3020 | **100647** | 10.2 | | | | |
| 17 | 8.924 | 120BTL17H-3020 | **100648** | 11.6 | | | | |
| 18 | 9.407 | 120BTL18H-3020 | **100649** | 13.2 | | | | |
| 19 | 9.890 | 120BTL19H-3020 | **100650** | 11.2 | | | | |
| 20 | 10.371 | 120BTL20H-3020 | **100397** | 16.0 | | | | |
| 21 | 10.853 | 120BTL21H-3020 | **100651** | 18.0 | 5.25 | 7/8 | 3-1/4 | 2.00 |
| 24 | 12.294 | 120BTL24H-3020 | **100398** | 24.0 | | | | |
| 26 | 13.254 | 120BTL26-3020 | **100652** | 30.0 | | | | |
| 30 | 15.171 | 120BTL30-3020 | **100399** | 39.7 | | | | |
| 35 | 17.567 | 120BTL35-3020 | **100232** | 46.0 | | | | |
| 45 | 22.352 | 120CTL45-3030 | **100234** | 110 | 5.88 | 15/16 | 3-1/4 | 3.00 |
| 60 | 29.522 | 120CTL60-3535 | **100236** | 120 | | | | |
| 70 | 34.301 | 120CTL70-3535 | **100238** | 144 | 6.50 | 1-3/16 | 3-15/16 | 3.50 |
| 80 | 39.078 | 120CTL80-3535 | **100240** | 164 | | | | |

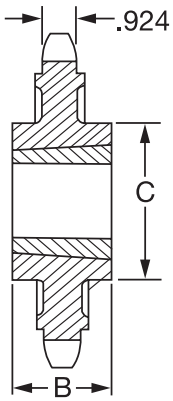
+ “H” suffix indicates Hardened Teeth.

# Specification

## No. 140 for 1-3/4” Pitch Single Strand Chain




**TYPE BTL**

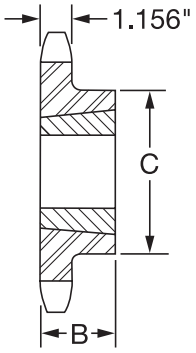



**TYPE CTL**

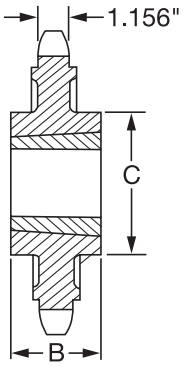
**Taper-Lock**

| No. of Teeth | Spkt. O.D. | Description + | Part No. | Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 12 | 7.581 | 140BTL12H-2517 | **100653** | 7.6 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 13 | 8.150 | 140BTL13H-3020 | **100654** | 9.6 | | | | |
| 14 | 8.717 | 140BTL14H-3020 | **100655** | 11.3 | | | | |
| 15 | 9.282 | 140BTL15H-3020 | **100656** | 12.7 | | | | |
| 16 | 9.847 | 140BTL16H-3020 | **100657** | 14.6 | | | | |
| 17 | 10.411 | 140BTL17H-3020 | **100658** | 17.5 | 5.25 | 7/8 | 3 | 2.00 |
| 18 | 10.974 | 140BTL18H-3020 | **100659** | 19.3 | | | | |
| 19 | 11.538 | 140BTL19H-3020 | **100660** | 21.2 | | | | |
| 21 | 12.661 | 140BTL21H-3020 | **100661** | 28.0 | | | | |
| 26 | 15.463 | 140BTL26-3020 | **100662** | 45.0 | | | | |
| 35 | 20.494 | 140CTL35-3535 | **100264** | 80.3 | 6.50 | 1-3/16 | 3-1/2 | 3.50 |
| 45 | 26.077 | 140CTL45-4040 | **100266** | 120.0 | 7.75 | 1-7/16 | 4 | 4.00 |
| 60 | 34.442 | 140CTL60-4040 | **100268** | 200.0 | | | | |

## No. 160 for 2” Pitch Single Strand Chain




**TYPE BTL**




**TYPE CTL**

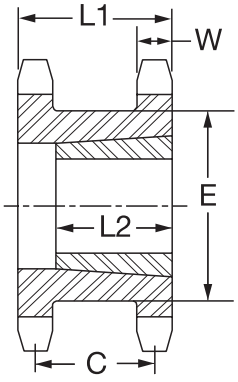
**Taper-Lock**

| No. of Teeth | Spkt. O.D. | Description + | Part No. | Wt. w/o Bush. | C Hub Dia. | Bore Range Min. | Bore Range Max. | B |
|---|---|---|---|---|---|---|---|---|
| 11 | 8.012 | 160BTL11H-2517 | **100663** | 7.7 | 4.25 | 1/2 | 2-11/16 | 1.75 |
| 12 | 8.664 | 160BTL12H-3020 | **100664** | 11.5 | | | | |
| 13 | 9.314 | 160BTL13H-3020 | **100665** | 14.2 | 5.25 | 7/8 | 3-1/4 | 3.00 |
| 14 | 9.962 | 160BTL14H-3020 | **100666** | 17.1 | | | | |
| 15 | 10.608 | 160BTL15H-3535 | **100667** | 27.4 | | | | |
| 17 | 11.898 | 160BTL17H-3535 | **100669** | 33.9 | | | | |
| 18 | 12.542 | 160BTL18H-3535 | **100670** | 38.4 | 6.50 | 1-3/16 | 3-15/16 | 3.50 |
| 19 | 13.186 | 160BTL19H-3535 | **100671** | 41.7 | | | | |
| 21 | 14.470 | 160BTL21H-3535 | **100672** | 50 | | | | |
| 26 | 17.672 | 160BTL26-3535 | **100673** | 88 | | | | |
| 35 | 23.422 | 160CTL35-4040 | **100294** | 106 | 7.75 | 1-7/16 | 4-7/16 | 4.00 |
| 60 | 39.362 | 160CTL60-4545 | **100298** | 253 | 8.75 | 1-15/16 | 4-15/16 | 4.50 |

+ “H” suffix indicates Hardened Teeth.

# Specification

## Double Single Sprockets




**TYPE ATL TAPER-LOCK**

### No. 40 — C=1.13 W=.284 — Taper-Lock*

| No Teeth | Spkt. O.D. | E Dim. | Spkt. No. | Part No. | Bushing: No. | Bushing: Max. Bore | L Dim. | Wt. w/o Bush. |
|---|---|---|---|---|---|---|---|---|
| 18 | 3.136 | 2.31 | – | – | – | – | – | – |
| 19 | 3.300 | 2.50 | DS40ATL19H | **101450** | 1215 | 1-1/4 | 1.41 | 1.1 |
| 20 | 3.460 | 2.63 | DS40ATL20H | **101451** | 1215 | 1-1/4 | 1.41 | 1.3 |
| 21 | 3.620 | 2.78 | DS40ATL21H | **101452** | 1615 | 1-11/16 | 1.41 | 1.3 |
| 22 | 3.780 | 2.94 | – | – | – | – | – | – |
| 23 | 3.940 | 3.09 | DS40ATL23H | **101453** | 1615 | 1-11/16 | 1.41 | 1.5 |
| 24 | 4.100 | 3.27 | DS40ATL24H | **101454** | 1615 | 1-11/16 | 1.41 | 1.7 |

### No. 50 — C=1.31 W=.343 — Taper-Lock*

| No Teeth | Spkt. O.D. | E Dim. | Spkt. No. | Part No. | Bushing: No. | Bushing: Max. Bore | L Dim. | Wt. w/o Bush. |
|---|---|---|---|---|---|---|---|---|
| 17 | 3.200 | 2.69 | DS50ATL17H | **101455** | 1615 | 1-11/16 | 1.64 | 1.8 |
| 18 | 3.920 | 2.89 | DS50ATL18H | **101456** | 1615 | 1-11/16 | 1.64 | 2.2 |
| 19 | 4.120 | 3.08 | DS50ATL19H | **101457** | 1615 | 1-11/16 | 1.64 | 2.7 |
| 20 | 4.320 | 3.28 | – | – | – | – | – | – |
| 21 | 4.520 | 3.48 | DS50ATL21H | **101458** | 2012 | 2-1/8 | 1.64 | 3.3 |
| 22 | 4.720 | 3.69 | – | – | – | – | – | – |
| 23 | 4.920 | 3.89 | DS50ATL23H | **101459** | 2012 | 2-1/8 | 1.64 | 3.7 |
| 24 | 5.120 | 4.08 | DS50ATL24H | **101460** | 2012 | 2-1/8 | 1.64 | 4.1 |

### No. 60 — C=1.48 W=.459 — Taper-Lock*

| No Teeth | Spkt. O.D. | E Dim. | Spkt. No. | Part No. | Bushing: No. | Bushing: Max. Bore | L Dim. | Wt. w/o Bush. |
|---|---|---|---|---|---|---|---|---|
| 17 | 4.460 | 3.22 | DS60ATL17H | **101461** | 1615 | 1-11/16 | 1.94 | 4.5 |
| 18 | 4.700 | 3.47 | DS60ATL18H | **101462** | 2012 | 2-1/8 | 1.94 | 5.0 |
| 19 | 4.950 | 3.70 | DS60ATL19H | **101463** | 2012 | 2-1/8 | 1.94 | 5.8 |
| 20 | 5.190 | 3.95 | DS60ATL20H | **101464** | 2517 | 2-11/16 | 1.94 | 5.6 |
| 21 | 5.430 | 4.19 | DS60ATL21H | **101465** | 2517 | 2-11/16 | 1.94 | 6.4 |
| 22 | 5.910 | 4.67 | DS60ATL23H | **101466** | 2517 | 2-11/16 | 1.94 | 7.3 |
| 23 | 6.150 | 4.91 | DS60ATL24H | **101467** | 2517 | 2-11/16 | 1.94 | 8.2 |

### No. 80 — C=1.63 W=.575 — Taper-Lock*

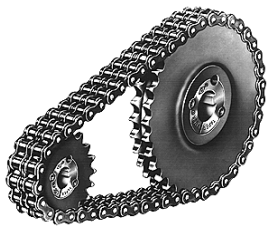
| No Teeth | Spkt. O.D. | E Dim. | Spkt. No. | Part No. | Bushing: No. | Bushing: Max. Bore | L Dim. | Wt. w/o Bush. |
|---|---|---|---|---|---|---|---|---|
| 17 | 5.950 | 4.31 | DS80ATL17H | **101468** | 2517 | 2-11/16 | 2.19 | 7.6 |
| 18 | 6.270 | 4.75 | DS80ATL18H | **101469** | 2517 | 2-11/16 | 2.19 | 8.7 |
| 19 | 6.590 | 4.95 | DS80ATL19H | **101470** | 3020 | 3-1/4 | 2.19 | 9.7 |
| 20 | 6.910 | 5.28 | DS80ATL20H | **101471** | 3020 | 3-1/4 | 2.19 | 10 |
| 21 | 7.240 | 5.59 | DS80ATL21H | **101472** | 3020 | 3-1/4 | 2.19 | 12 |
| 22 | 7.560 | – | – | – | – | – | – | – |
| 23 | 7.880 | 6.23 | DS80ATL23H | **101473** | 3020 | 3-1/4 | 2.19 | 14.5 |

### No. 100 — C=2 W=.692 — Taper-Lock*

| No Teeth | Spkt. O.D. | E Dim. | Spkt. No. | Part No. | Bushing: No. | Bushing: Max. Bore | L Dim. | Wt. w/o Bush. |
|---|---|---|---|---|---|---|---|---|
| 16 | 7.030 | 5.00 | DS100ATL16H | **101474** | 2517 | 2-11/16 | 2.69 | 13 |
| 17 | 7.440 | 5.41 | DS100ATL17H | **101475** | 3020 | 3-1/4 | 2.69 | 14 |
| 18 | 7.840 | 5.80 | DS100ATL18H | **101476** | 3020 | 3-1/4 | 2.69 | 16 |
| 19 | 8.240 | 6.20 | DS100ATL19H | **101477** | 3020 | 3-1/4 | 2.69 | 20 |
| 20 | 8.640 | 6.61 | – | – | – | – | – | – |
| 21 | 9.040 | 7.00 | DS100ATL21H | **101478** | 3020 | 3-1/4 | 2.69 | 27.5 |

* Taper-Lock double single sprockets have hardened teeth.

# Selection
## Roller Chain Drive Selection



### Easy Selection Method

**1. Determine Class of Service:** Refer to tabulation below, or select from the following:

**Class A:** Fairly uniform running load. Start-up and peak loads occur infrequently.

**Class B:** Variable running load. Higher starting and peak loads, occurring more frequently.

**Class C:** Heavy starting loads. Peak loads and overloads occurring frequently.

**2. Select Service Factor:**

| Class of Service | Type of Input Power | | |
|---|---|---|---|
| | Internal Combustion Engine with Hydraulic Drive | Electric or Turbine | Internal Combustion Engine with Mechanical Drive |
| A | 1.0 | 1.0 | 1.2 |
| B | 1.2 | 1.3 | 1.4 |
| C | 1.4 | 1.5 | 1.7 |

**3. Calculate Design Horsepower:** Motor HP x Service Factor, or normal running HP x Service Factor.

**4. Determine Chain Size and Smaller (Usually the Driver) sprocket number of teeth:** Refer to "Recommended Small Sprocket" table on page PT5-17. Start at column that is at or above the calculated design HP. Trace down to the row that includes the RPM of the faster (Usually the Driver) shaft. The chain pitch and sprocket No. of Teeth are listed at this intersection.

**5. Calculate Drive Ratio:** Faster shaft Rpm divided be Slower shaft RPM.

**6. Determine Size of Large Sprocket:** Multiply smaller sprocket No. of teeth by ratio. Select Closest stock available sprocket.

**7. Calculate Chain Length "L":**

$$L = 2c + 1.57\,(D + d) + \frac{(D-d)^2}{4c}$$

Where: D = Pitch dia. large sprocket, (see page PT5-28)
d = Pitch dia. small sprocket, (see page PT5-28)
c = Proposed center distance

(Accuracy is within .15 percent chain length)

Divide chain length (inches) by chain pitch to determine number of pitches in the chain. Good practice is to use an even number of pitches, including connecting link.

**Class of Service for Driven Machine**

| Driven Machine | Class | Driven Machine | Class |
|---|---|---|---|
| Agitators, liquid or semi-liquid stock, paddle or propeller | A | Line Shafts: | |
| Bakery Machinery | B | Light or normal service | A |
| Beaters | B | Unevenly loaded | B |
| Blowers, Centrifugal | A | Machines, Non-Reversing: | |
| Boat Paddle Wheels or Propellers | C | Even load | A |
| Centrifuges | C | Pulsating load | |
| Clay Working Machinery: | | Impact load | C |
| Extruders, Granulators, Mixers, Pug Mills, Rolls | B | Mills: | |
| Briquette Machine, Presses | C | Ball, Pebble, Rod, Tube | B |
| Compressors: | | Blooming, Hammer, Hardinge, Rolling | C |
| Centrifugal, Rotary | B | Paper Machinery: | |
| Reciprocating | C | Agitators, Calenders, Dryers, Jordan Engines, Paper | |
| Conveyors: | | Machines, Pulp Grinders | B |
| Uniformly or loaded | A | Beaters, Chippers, Nash Pumps, Washers, Winder | |
| Irregularly fed or loaded | B | Drums, Yankee Dryers | C |
| Reciprocating | C | Presses | C |
| Cookers, Cereal | A | Printing Machinery | B |
| Cranes | B | Pumps: | |
| Crushers | C | Centrifugal, Gear, Rotary | A |
| Elevators: | | Dredge | C |
| Uniformly fed or loaded | A | Reciprocating, 1 or 2 cylinder | C |
| Irregularly fed or loaded | B | Reciprocating, 3 or more cylinder | B |
| Fans: | | Rubber Plant Machinery: | |
| Centrifugal | A | Banbury Mills, Calenders, Mixers | C |
| Mine, Positive Blowers, Propeller | C | Screens: | |
| Feeders, Reciprocating | C | Air Washing, Water | A |
| Flour, Feed or Cereal Mill Machinery | B | Rotary (Stone or Gravel), Vibrating | B |
| Generators | A | Textile Machinery: | |
| Hogs for Refuse | C | Batcher, Calender, Dry Can, Dyeing Machinery | |
| Kettles, Brew | A | Loom, Mangel, Napper, Soaper, Spinner, Tenter | |
| Kilns and Dryers, rotary | B | Frame | B |
| Laundry Machinery | B | Card Machine | C |
| | | Woodworking Machinery | B |

# Selection



### *Selection Example*

A chain drive is required for a tumbling barrel for metal stampings. The barrel is to run at 24 RPM from a speed reducer output of 77 RPM. Center distance is 50". Input power is from a 5 HP electric motor. Starting loads are heavy, peak loads and overloads are frequent.

**1. Service Factor:** Class of service is not listed in table, so refer to Class Description. Class C is appropriate. Service Factor Table shows 1.5 Class C driven by an electric motor.

**2. Design HP:** Motor HP x S.F. 5 x 1.5 = 7.5 Design HP.

**3. Chain and Small Sprocket Size:** Refer to the 7-1/2 HP column of the Easy Selection Table. Trace down to the row that includes 77 RPM, "71-80 RPM". No. 100 chain and sprocket with 15 teeth is shown: select 100BTL15.

**4. Drive Ratio:** 77/24 = 3.21:1.

**5. Large Sprocket:** 15 x 3.21 = 48.15. Select a 48 tooth driven sprocket, 100BTL48, which is a stock size.

**6. Chain Length:**

$$L = 2(50) + 1.57(19.113 + 6.013) + \frac{(19.113 - 6.012)^2}{4 \times 50}$$

L = 140.31" (No.100 Chain has 1-1/4 or 1.25" Pitch)

Length in pitches = 140.31/1.25 = 112.48 pitches.

Choose 112 or 114 Pitches of chain, including Conn Link.

**7.** Verify that sprockets will fit shaft sizes.

### *Design Notes*

**Small Sprocket Size:** The higher RPM and the fewer the number of teeth on the small sprocket, the greater the wear.

This leads to some general guidelines:

- Use at least 17 teeth sprocket for 100+ RPM.
- Avoid high ratios that require very small sprockets

**Lubrication:** Chain drives must be lubricated and kept clean. The most effective method to accomplish this is to use an oil-tight chain guard with an oil sump. Manual lubrication is effective on slower speed drives, but exposure to dirt and contamination will be a problem for the drive.

**Design Refinement:** The "Easy Selection Method" is a good starting point for further design refinement, if desired. Refer to the Chain HP Rating Tables on the following pages for more precise ratings. Also refer to "Slow Speed Drives" which follows this section.

### *Slow Speed Drives*

Where linear speed of the chain is under 100 fpm and loading is uniform, roller chain drives may be selected on the basis of chain pull rather than horsepower rating. This often results in significant savings.

When chain length is more than 50 pitches, the maximum applied load may be as great as 1/7 of the ultimate tensile strength of the chain for speeds below 50 fpm to 100 fpm.

Unusual load variations of peak loads require other methods of determining the maximum applied load.

Chain pull may be calculated by the following formula:

$$\text{Chain Pull (lbs.)} = \frac{\text{Design HP} \times 126{,}000}{\text{rpm} \times \text{Pitch diam.}}$$

Table below offers a simplified method of determining allowable chain pull for slow speed drives. The table also shows revolutions per minute for a given pitch diameter at 50 and 100 feet per minute. Average tensile strength for all popular roller chains is given on page PT13-32.

**Information for Slow Speed Drives**

| Allowable Chain Pull for STD. Chain | | | RPM for a Given Pitch Diam. at Various Speeds | | |
|---|---|---|---|---|---|
| Chain No. | Max. Chain Pull @ 50 fpm or less | Max. Chain Pull @ 50-100 fpm | P.D. in inches | @ 50 fpm RPM | @ 100 fpm RPM |
| 40 | 528 | 462 | 2 | 95.0 | 191.0 |
| 50 | 871 | 762 | 3 | 63.6 | 127.2 |
| 60 | 1214 | 1062 | 4 | 47.7 | 95.5 |
| 80 | 2071 | 1812 | 5 | 38.2 | 76.4 |
| 100 | 3428 | 3000 | 6 | 31.8 | 63.7 |
| 120 | 4857 | 4250 | 7 | 27.3 | 54.6 |
| 140 | 6571 | 5750 | 8 | 23.9 | 47.8 |
| 160 | 8285 | 7250 | 9 | 21.2 | 42.4 |
| 180 | 11,428 | 10,000 | 10 | 19.1 | 38.2 |
| 200 | 13,571 | 11,875 | 11 | 17.3 | 34.7 |
| 240 | 18,571 | 16,250 | 12 | 15.9 | 31.8 |

Note:Smaller sprockets can be used on slow speed drives as the effects of chordal action are not pronounced. However, small sprockets of fewer than 9 teeth should be avoided.

### *Multiple Strand Chain Drives*

Single Strand drives offer cost and availability advantages, and are more easily assembled. Multiple strand drives can be used to solve design problems of greater HP capacity or space constraints. For multiple strand drives, divide the calculated Design HP by the factors below, and select from the ratings for single strand drives:

| Multiple Strand Factors | |
|---|---|
| Single: | 1.0 |
| Double | 1.9 |
| Triple: | 2.8 |

# Selection

## Easy Selection Table

### Recommended Small Sprocket

| RPM of small Sprocket | Chain Size and No. of Teeth for Design HP | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/4 | | 1/3 | | 1/2 | | 3/4 | | 1 | | 1-1/2 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7-1/2 | |
| 951-1000 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 23 | 40 | 17 | 40 | 17 | 40 | 20 | 40 | 24 |
| 901-950 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 24 | 40 | 17 | 40 | 18 | 40 | 21 | 40 | 25 |
| 851-900 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 24 | 40 | 17 | 40 | 18 | 40 | 22 | 50 | 17 |
| 801-850 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 18 | 40 | 17 | 40 | 17 | 40 | 19 | 40 | 23 | 50 | 17 |
| 751-800 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 19 | 40 | 17 | 40 | 17 | 40 | 20 | 40 | 24 | 50 | 17 |
| 701-750 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 20 | 40 | 17 | 40 | 18 | 40 | 22 | 40 | 25 | 50 | 17 |
| 651-700 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 22 | 40 | 17 | 40 | 19 | 40 | 23 | 50 | 17 | 50 | 18 |
| 601-650 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 18 | 35 | 23 | 40 | 17 | 40 | 20 | 40 | 24 | 50 | 17 | 50 | 19 |
| 551-600 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 19 | 40 | 17 | 40 | 17 | 40 | 21 | 50 | 17 | 50 | 17 | 50 | 21 |
| 501-550 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 21 | 40 | 17 | 40 | 17 | 40 | 23 | 50 | 17 | 50 | 18 | 50 | 22 |
| 471-500 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 22 | 40 | 17 | 40 | 17 | 40 | 24 | 50 | 17 | 50 | 19 | 50 | 24 |
| 441-470 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 23 | 40 | 17 | 40 | 17 | 50 | 17 | 50 | 17 | 50 | 20 | 50 | 25 |
| 411-440 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 17 | 40 | 17 | 40 | 21 | 50 | 17 | 50 | 18 | 50 | 22 | 60 | 17 |
| 381-410 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 17 | 40 | 17 | 40 | 22 | 50 | 17 | 50 | 19 | 50 | 23 | 60 | 17 |
| 351-380 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 17 | 40 | 17 | 40 | 24 | 50 | 17 | 50 | 21 | 50 | 24 | 60 | 18 |
| 321-350 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 17 | 40 | 18 | 50 | 17 | 50 | 18 | 50 | 22 | 60 | 17 | 60 | 20 |
| 301-320 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 17 | 40 | 19 | 50 | 17 | 50 | 19 | 50 | 23 | 60 | 17 | 60 | 21 |
| 281-300 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 17 | 40 | 19 | 50 | 17 | 50 | 20 | 50 | 25 | 60 | 18 | 60 | 22 |
| 261-280 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 17 | 40 | 19 | 50 | 17 | 50 | 22 | 60 | 17 | 60 | 19 | 60 | 23 |
| 241-260 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 17 | 40 | 19 | 50 | 18 | 50 | 23 | 60 | 17 | 60 | 20 | 80 | 17 |
| 221-240 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 19 | 40 | 24 | 50 | 19 | 50 | 25 | 60 | 19 | 60 | 22 | 80 | 17 |
| 201-220 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 35 | 17 | 40 | 20 | 50 | 17 | 50 | 21 | 60 | 17 | 60 | 20 | 60 | 24 | 80 | 17 |
| 181-200 | 35 | 17 | 35 | 17 | 35 | 18 | 35 | 17 | 35 | 17 | 40 | 22 | 50 | 17 | 50 | 23 | 60 | 18 | 60 | 22 | 60 | 26 | 80 | 17 |
| 161-180 | 35 | 17 | 35 | 17 | 35 | 20 | 40 | 18 | 35 | 17 | 40 | 24 | 50 | 17 | 50 | 25 | 60 | 20 | 60 | 24 | 80 | 17 | 80 | 17 |
| 151-160 | 35 | 17 | 35 | 17 | 35 | 21 | 40 | 18 | 35 | 17 | 50 | 17 | 50 | 18 | 60 | 17 | 60 | 21 | 60 | 25 | 80 | 17 | 80 | 17 |
| 141-150 | 35 | 15 | 35 | 15 | 35 | 22 | 40 | 18 | 40 | 15 | 50 | 17 | 50 | 19 | 60 | 17 | 60 | 22 | 80 | 17 | 80 | 17 | 80 | 18 |
| 131-140 | 35 | 15 | 35 | 15 | 35 | 23 | 40 | 18 | 40 | 15 | 50 | 17 | 50 | 20 | 60 | 18 | 60 | 23 | 80 | 17 | 80 | 17 | 80 | 19 |
| 121-130 | 35 | 15 | 35 | 15 | 40 | 13 | 40 | 18 | 40 | 15 | 50 | 17 | 50 | 22 | 60 | 19 | 60 | 25 | 80 | 17 | 80 | 17 | 80 | 20 |
| 111-120 | 35 | 15 | 35 | 15 | 40 | 13 | 40 | 18 | 40 | 15 | 50 | 18 | 50 | 22 | 60 | 20 | 80 | 15 | 80 | 17 | 80 | 18 | 80 | 22 |
| 101-110 | 35 | 15 | 35 | 15 | 40 | 15 | 40 | 18 | 50 | 15 | 50 | 19 | 60 | 15 | 80 | 15 | 80 | 15 | 80 | 16 | 80 | 19 | 100 | 15 |
| 91-100 | 35 | 15 | 35 | 15 | 40 | 15 | 40 | 15 | 40 | 17 | 50 | 15 | 50 | 18 | 60 | 17 | 80 | 15 | 80 | 18 | 100 | 15 | 100 | 15 |
| 81-90 | 35 | 15 | 35 | 15 | 40 | 15 | 40 | 15 | 50 | 15 | 50 | 15 | 50 | 18 | 60 | 18 | 80 | 15 | 80 | 15 | 80 | 16 | 100 | 15 |
| 71-80 | 35 | 15 | 35 | 17 | 40 | 15 | 40 | 16 | 50 | 15 | 50 | 18 | 60 | 14 | 80 | 15 | 80 | 15 | 80 | 16 | 100 | 15 | 100 | 15 |
| 61-70 | 35 | 15 | 35 | 19 | 40 | 15 | 40 | 19 | 50 | 15 | 60 | 15 | 60 | 16 | 80 | 15 | 80 | 15 | 80 | 18 | 100 | 15 | 100 | 15 |
| 51-60 | 35 | 17 | 40 | 13 | 40 | 15 | 50 | 13 | 50 | 15 | 60 | 15 | 60 | 19 | 80 | 15 | 80 | 17 | 100 | 15 | 100 | 15 | 100 | 16 |
| 46-50 | 40 | 13 | 40 | 13 | 40 | 16 | 50 | 13 | 50 | 16 | 60 | 14 | 80 | 13 | 80 | 13 | 100 | 13 | 100 | 13 | 100 | 14 | 100 | 17 |
| 41-45 | 40 | 13 | 40 | 13 | 40 | 18 | 50 | 16 | 60 | 13 | 60 | 16 | 80 | 13 | 80 | 14 | 100 | 13 | 100 | 13 | 100 | 16 | 120 | 13 |
| 35-40 | 40 | 13 | 40 | 14 | 50 | 13 | 50 | 16 | 60 | 13 | 60 | 19 | 80 | 13 | 80 | 17 | 100 | 13 | 100 | 14 | 100 | 18 | 120 | 14 |
| 30-35 | 40 | 13 | 40 | 16 | 50 | 13 | 50 | 18 | 60 | 15 | 80 | 13 | 80 | 13 | 80 | 19 | 100 | 13 | 100 | 16 | 120 | 13 | 120 | 14 |
| 23-29 | 40 | 14 | 50 | 13 | 50 | 16 | 60 | 14 | 60 | 19 | 80 | 13 | 80 | 17 | 100 | 13 | 100 | 16 | 120 | 14 | 120 | 15 | 120 | 18 |
| 17-22 | 50 | 13 | 50 | 14 | 60 | 13 | 60 | 19 | 80 | 13 | 80 | 17 | 100 | 13 | 100 | 17 | 120 | 13 | 120 | 16 | 140 | 13 | 140 | 16 |
| 12-16 | 50 | 15 | 60 | 13 | 60 | 18 | 80 | 13 | 80 | 16 | 100 | 13 | 100 | 16 | 120 | 14 | 120 | 18 | 140 | 15 | 140 | 17 | 160 | 15 |
| 8-11 | 60 | 14 | 60 | 18 | 80 | 13 | 80 | 18 | 100 | 13 | 100 | 17 | 120 | 14 | 140 | 13 | 140 | 17 | 160 | 15 | 160 | 18 | 180 | 18 |
| 5-7 | 80 | 13 | 80 | 13 | 100 | 13 | 100 | 13 | 100 | 18 | 120 | 17 | 140 | 14 | 180 | 15 | 180 | 14 | 200 | 13 | 200 | 15 | 240 | 13 |

**Notes:**

1. Apply Service Factor to obtain Design Horsepower. Select small sprocket based upon Design Horsepower and RPM on this chart.

2. Sprocket selections are recommended minimum. Larger sizes may be selected if required to obtain desired ratio, etc.

3. To use this chart for double or triple strand chain, divide the design horsepower by the following factors:
Double strand: 1.9, Triple strand: 2.9

# Selection

## Easy Selection Table

### Recommended Small Sprocket

| RPM of small Sprocket | Chain Size and No. of Teeth for Design HP | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9 | | 10 | | 12 | | 15 | | 20 | | 25 | | 30 | | 40 | | 50 | | 60 | | 70 | | 80 | | 90 | | 100 | |
| 951-1000 | 50 | 17 | 50 | 17 | 50 | 20 | 60 | 17 | 60 | 20 | 60 | 24 | 80 | 17 | 80 | 18 | – | | – | | – | | – | | – | | – | |
| 901-950 | 50 | 17 | 50 | 18 | 50 | 21 | 60 | 17 | 60 | 21 | 80 | 17 | 80 | 17 | 80 | 18 | – | | – | | – | | – | | – | | – | |
| 851-900 | 50 | 17 | 50 | 19 | 50 | 22 | 60 | 17 | 60 | 22 | 80 | 17 | 80 | 17 | 80 | 19 | – | | – | | – | | – | | – | | – | |
| 801-850 | 50 | 18 | 50 | 20 | 50 | 23 | 60 | 17 | 60 | 23 | 80 | 17 | 80 | 17 | 80 | 20 | – | | – | | – | | – | | – | | – | |
| 751-800 | 50 | 19 | 50 | 21 | 60 | 16 | 60 | 18 | 60 | 24 | 80 | 17 | 80 | 17 | 80 | 21 | – | | – | | – | | – | | – | | – | |
| 701-750 | 50 | 20 | 50 | 22 | 60 | 17 | 60 | 19 | 60 | 25 | 80 | 17 | 80 | 17 | 80 | 22 | 100 | 17 | – | | – | | – | | – | | – | |
| 651-700 | 50 | 21 | 50 | 24 | 60 | 17 | 60 | 21 | 80 | 17 | 80 | 17 | 80 | 18 | 80 | 23 | 100 | 17 | – | | – | | – | | – | | – | |
| 601-650 | 50 | 23 | 60 | 16 | 60 | 18 | 60 | 22 | 80 | 17 | 80 | 17 | 80 | 19 | 100 | 17 | 100 | 17 | – | | – | | – | | – | | – | |
| 551-600 | 50 | 24 | 60 | 17 | 60 | 19 | 60 | 24 | 80 | 17 | 80 | 18 | 80 | 21 | 100 | 17 | 100 | 18 | – | | – | | – | | – | | – | |
| 501-550 | 60 | 17 | 60 | 18 | 60 | 21 | 80 | 17 | 80 | 17 | 80 | 19 | 80 | 22 | 100 | 17 | 100 | 20 | – | | – | | – | | – | | – | |
| 471-500 | 60 | 17 | 60 | 19 | 60 | 22 | 80 | 17 | 80 | 17 | 80 | 20 | 80 | 23 | 100 | 17 | 100 | 21 | 100 | 24 | 120 | 17 | – | | – | | – | |
| 441-470 | 60 | 18 | 60 | 20 | 60 | 23 | 80 | 17 | 80 | 17 | 80 | 21 | 100 | 17 | 100 | 18 | 100 | 22 | 120 | 17 | 120 | 18 | – | | – | | – | |
| 411-440 | 60 | 19 | 60 | 21 | 80 | 16 | 80 | 17 | 80 | 18 | 80 | 22 | 100 | 17 | 100 | 19 | 120 | 17 | 120 | 17 | 120 | 21 | – | | – | | – | |
| 381-410 | 60 | 20 | 60 | 22 | 80 | 17 | 80 | 17 | 80 | 19 | 80 | 24 | 100 | 17 | 100 | 20 | 120 | 17 | 120 | 18 | 120 | 21 | – | | – | | – | |
| 351-380 | 60 | 22 | 60 | 24 | 80 | 17 | 80 | 17 | 80 | 21 | 100 | 17 | 100 | 17 | 100 | 21 | 120 | 18 | 120 | 19 | 140 | 17 | – | | – | | – | |
| 321-350 | 60 | 23 | 80 | 17 | 80 | 17 | 80 | 17 | 80 | 22 | 100 | 17 | 100 | 18 | 100 | 24 | 120 | 19 | 120 | 21 | 140 | 17 | 140 | 18 | 140 | 21 | – | |
| 301-320 | 80 | 17 | 80 | 17 | 80 | 17 | 80 | 18 | 80 | 23 | 100 | 17 | 100 | 19 | 100 | 24 | 120 | 21 | 140 | 17 | 140 | 17 | 140 | 19 | 140 | 21 | – | |
| 281-300 | 80 | 17 | 80 | 17 | 80 | 17 | 80 | 19 | 100 | 17 | 100 | 17 | 100 | 20 | 120 | 17 | 120 | 21 | 140 | 17 | 140 | 18 | 140 | 21 | 160 | 17 | – | |
| 261-280 | 80 | 17 | 80 | 17 | 80 | 17 | 80 | 20 | 100 | 17 | 100 | 18 | 100 | 21 | 120 | 17 | 120 | 21 | 140 | 17 | 140 | 19 | 160 | 17 | 160 | 17 | – | |
| 241-260 | 80 | 17 | 80 | 17 | 80 | 18 | 80 | 22 | 100 | 17 | 100 | 19 | 100 | 22 | 120 | 18 | 140 | 17 | 140 | 17 | 140 | 21 | 160 | 18 | 160 | 18 | 160 | 20 |
| 221-240 | 80 | 17 | 80 | 17 | 80 | 19 | 80 | 23 | 100 | 17 | 100 | 20 | 100 | 24 | 120 | 21 | 140 | 17 | 140 | 19 | 160 | 17 | 160 | 18 | 160 | 20 | 160 | 22 |
| 201-220 | 80 | 17 | 80 | 17 | 80 | 20 | 100 | 17 | 100 | 18 | 100 | 22 | 120 | 17 | 120 | 21 | 140 | 17 | 160 | 17 | 160 | 17 | 160 | 19 | 180 | 17 | 160 | 23 |
| 181-200 | 80 | 17 | 80 | 19 | 80 | 22 | 100 | 17 | 100 | 20 | 100 | 24 | 120 | 18 | 140 | 17 | 140 | 19 | 160 | 18 | 160 | 18 | 160 | 20 | 180 | 18 | 180 | 18 |
| 161-180 | 80 | 19 | 80 | 21 | 80 | 25 | 100 | 17 | 100 | 22 | 120 | 17 | 120 | 21 | 140 | 17 | 140 | 21 | 160 | 19 | 160 | 21 | 180 | 17 | 180 | 19 | 180 | 21 |
| 151-160 | 80 | 20 | 80 | 22 | 100 | 17 | 100 | 18 | 100 | 24 | 120 | 17 | 120 | 21 | 140 | 18 | 160 | 19 | 160 | 19 | 160 | 21 | 180 | 18 | 180 | 20 | 200 | 17 |
| 141-150 | 80 | 21 | 100 | 15 | 100 | 17 | 100 | 19 | 100 | 24 | 120 | 18 | 140 | 16 | 140 | 19 | 160 | 19 | 160 | 21 | 180 | 17 | 180 | 19 | 200 | 16 | 200 | 17 |
| 131-140 | 80 | 22 | 100 | 15 | 100 | 17 | 100 | 20 | 120 | 17 | 120 | 21 | 140 | 17 | 140 | 21 | 160 | 19 | 160 | 21 | 180 | 18 | 180 | 19 | 200 | 18 | 200 | 19 |
| 121-130 | 80 | 24 | 100 | 16 | 100 | 17 | 100 | 21 | 120 | 18 | 120 | 21 | 140 | 17 | 140 | 21 | 160 | 19 | 180 | 17 | 180 | 19 | 200 | 17 | 200 | 19 | 200 | 21 |
| 111-120 | 100 | 15 | 100 | 17 | 100 | 18 | 100 | 24 | 120 | 19 | 120 | 21 | 140 | 18 | 160 | 17 | 160 | 21 | 180 | 18 | 180 | 21 | 200 | 18 | 200 | 20 | 200 | 23 |
| 101-110 | 100 | 15 | 100 | 17 | 120 | 15 | 120 | 15 | 140 | 15 | 140 | 16 | 140 | 19 | 160 | 17 | 180 | 16 | 180 | 19 | 200 | 17 | 200 | 19 | 200 | 21 | 240 | 18 |
| 91-100 | 100 | 17 | 100 | 20 | 120 | 15 | 120 | 18 | 140 | 16 | 140 | 19 | 160 | 16 | 160 | 19 | 180 | 19 | 200 | 16 | 200 | 18 | 200 | 21 | 240 | 15 | 240 | 18 |
| 81-90 | 100 | 18 | 100 | 15 | 120 | 16 | 120 | 18 | 140 | 17 | 140 | 19 | 160 | 17 | 160 | 21 | 200 | 15 | 200 | 18 | 200 | 21 | 200 | 23 | 240 | 18 | 240 | 18 |
| 71-80 | 100 | 15 | 120 | 15 | 120 | 18 | 120 | 18 | 140 | 18 | 160 | 15 | 160 | 18 | 180 | 17 | 200 | 17 | 200 | 19 | 240 | 15 | 240 | 16 | 240 | 19 | 240 | 20 |
| 61-70 | 100 | 16 | 120 | 18 | 120 | 19 | 140 | 15 | 160 | 15 | 160 | 19 | 180 | 15 | 200 | 15 | 200 | 19 | 240 | 15 | 240 | 17 | 240 | 19 | 240 | 21 | 240 | 23 |
| 51-60 | 100 | 19 | 120 | 15 | 120 | 15 | 140 | 18 | 160 | 16 | 180 | 15 | 180 | 18 | 200 | 18 | 240 | 15 | 240 | 17 | 240 | 19 | 240 | 22 | 240 | 25 | 240 | 26 |
| 46-50 | 120 | 13 | 120 | 14 | 120 | 16 | 140 | 13 | 160 | 13 | 180 | 16 | 200 | 15 | 200 | 19 | 240 | 15 | 240 | 18 | 240 | 20 | 240 | 24 | – | | – | |
| 41-45 | 120 | 14 | 120 | 15 | 120 | 18 | 140 | 15 | 160 | 14 | 180 | 14 | 200 | 16 | 200 | 21 | 240 | 17 | 240 | 20 | 240 | 23 | 240 | 26 | – | | – | |
| 35-40 | 120 | 16 | 120 | 18 | 140 | 14 | 140 | 17 | 160 | 16 | 180 | 13 | 180 | 15 | 240 | 15 | 240 | 19 | 240 | 23 | 240 | 26 | – | | – | | – | |
| 30-35 | 120 | 19 | 140 | 13 | 140 | 16 | 160 | 14 | 160 | 18 | 180 | 15 | 180 | 18 | 240 | 13 | 240 | 21 | 240 | 25 | – | | – | | – | | – | |
| 23-29 | 140 | 14 | 140 | 15 | 160 | 13 | 160 | 18 | 180 | 16 | 200 | 15 | 200 | 17 | 240 | 14 | 240 | 18 | 240 | 27 | – | | – | | – | | – | |
| 17-22 | 160 | 13 | 160 | 15 | 180 | 13 | 180 | 16 | 200 | 16 | 240 | 13 | 240 | 13 | 240 | 15 | 240 | 24 | – | | – | | – | | – | | – | |
| 12-16 | 160 | 18 | 180 | 13 | 180 | 16 | 200 | 15 | 240 | 13 | 240 | 15 | 240 | 21 | 240 | 27 | – | | – | | – | | – | | – | | – | |
| 8-11 | 200 | 13 | 200 | 15 | 200 | 18 | 240 | 14 | 240 | 18 | 240 | 23 | – | | – | | – | | – | | – | | – | | – | | – | |
| 5-7 | 240 | 13 | 240 | 15 | 240 | 17 | 240 | 22 | 240 | 29 | – | | – | | – | | – | | – | | – | | – | | – | | – | |

4. Sprocket selections above the bold line are based upon ANSI horsepower ratings. Selections below the bold line are based upon the chain pull formula for slow speed drives.

5. To achieve design life keep chain free of dirt and contaminants, and apply appropriate lubrication.

# Selection

## Basic Horsepower Ratings

### 35 — 3/8" Pitch Single Strand Roller Chain No. 35 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 100 | 200 | 240 | 500 | 700 | 900 | 1200 | 1500 | 1800 | 2100 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 9000 | 10000 |
| 11 | 0.11 | 0.22 | 0.42 | 0.50 | 1.02 | 1.41 | 1.80 | 2.37 | 2.93 | 3.49 | 4.05 | 3.86 | 2.94 | 2.33 | 1.91 | 1.60 | 1.37 | 1.18 | 1.04 | 0.92 | 0.82 | 0.74 | 0.67 | 0.57 | 0.48 |
| 12 | 0.12 | 0.24 | 0.46 | 0.55 | 1.11 | 1.54 | 1.96 | 2.58 | 3.20 | 3.81 | 4.42 | 4.40 | 3.35 | 2.66 | 2.17 | 1.82 | 1.56 | 1.35 | 1.18 | 1.05 | 0.94 | 0.85 | 0.77 | 0.64 | 0.55 |
| 13 | 0.13 | 0.26 | 0.50 | 0.60 | 1.21 | 1.67 | 2.12 | 2.80 | 3.47 | 4.13 | 4.79 | 4.96 | 3.77 | 3.00 | 2.45 | 2.05 | 1.75 | 1.52 | 1.33 | 1.18 | 1.06 | 0.95 | 0.87 | 0.73 | 0.62 |
| 14 | 0.14 | 0.28 | 0.54 | 0.64 | 1.30 | 1.80 | 2.29 | 3.01 | 3.73 | 4.45 | 5.15 | 5.55 | 4.22 | 3.35 | 2.74 | 2.30 | 1.96 | 1.70 | 1.49 | 1.32 | 1.18 | 1.07 | 0.97 | 0.81 | 0.10 |
| 15 | 0.15 | 0.30 | 0.58 | 0.69 | 1.39 | 1.92 | 2.45 | 3.23 | 4.00 | 4.76 | 5.52 | 6.15 | 4.68 | 3.71 | 3.04 | 2.55 | 2.17 | 1.88 | 1.65 | 1.47 | 1.31 | 1.18 | 1.07 | 0.90 | 0.00 |
| 16 | 0.16 | 0.32 | 0.62 | 0.73 | 1.49 | 2.05 | 2.61 | 3.44 | 4.26 | 5.08 | 5.89 | 6.77 | 5.15 | 4.09 | 3.35 | 2.81 | 2.40 | 2.08 | 1.82 | 1.62 | 1.45 | 1.30 | 1.18 | 0.44 | 0.00 |
| 17 | 0.17 | 0.34 | 0.65 | 0.78 | 1.58 | 2.18 | 2.77 | 3.66 | 4.53 | 5.40 | 6.26 | 7.40 | 5.64 | 4.48 | 3.67 | 3.07 | 2.62 | 2.27 | 2.00 | 1.77 | 1.58 | 1.43 | 1.30 | 0.00 | – |
| 18 | 0.18 | 0.36 | 0.69 | 0.83 | 1.67 | 2.31 | 2.94 | 3.87 | 4.80 | 5.72 | 6.63 | 7.83 | 6.15 | 4.88 | 3.99 | 3.35 | 2.86 | 2.48 | 2.17 | 1.93 | 1.73 | 1.56 | 1.41 | 0.00 | – |
| 19 | 0.19 | 0.38 | 0.73 | 0.87 | 1.76 | 2.44 | 3.10 | 4.09 | 5.06 | 6.03 | 7.00 | 8.27 | 6.67 | 5.29 | 4.33 | 3.63 | 3.10 | 2.69 | 2.36 | 2.09 | 1.87 | 1.69 | 0.05 | 0.00 | – |
| 20 | 0.20 | 0.40 | 0.77 | 0.92 | 1.86 | 2.56 | 3.26 | 4.30 | 5.33 | 6.35 | 7.36 | 8.71 | 7.20 | 5.72 | 4.68 | 3.92 | 3.35 | 2.90 | 2.55 | 2.26 | 2.02 | 1.42 | 0.00 | – | – |
| 21 | 0.21 | 0.42 | 0.81 | 0.96 | 1.95 | 2.69 | 3.43 | 4.52 | 5.60 | 6.67 | 7.73 | 9.14 | 7.75 | 6.15 | 5.03 | 4.22 | 3.60 | 3.12 | 2.74 | 2.43 | 2.17 | 0.00 | – | – | – |
| 22 | 0.22 | 0.44 | 0.85 | 1.01 | 2.04 | 2.82 | 3.59 | 4.73 | 5.86 | 6.99 | 8.10 | 9.58 | 8.31 | 6.59 | 5.40 | 4.52 | 3.86 | 3.35 | 2.94 | 2.61 | 1.42 | 0.00 | – | – | – |
| 23 | 0.23 | 0.46 | 0.89 | 1.06 | 2.14 | 2.95 | 3.75 | 4.95 | 6.13 | 7.30 | 8.47 | 10.01 | 8.88 | 7.05 | 5.77 | 4.83 | 4.13 | 3.58 | 3.14 | 2.79 | 0.00 | – | – | – | – |
| 24 | 0.24 | 0.48 | 0.92 | 1.10 | 2.23 | 3.08 | 3.92 | 5.16 | 6.40 | 7.62 | 8.84 | 10.45 | 9.47 | 7.51 | 6.15 | 5.15 | 4.40 | 3.81 | 3.35 | 2.04 | 0.00 | – | – | – | – |
| 25 | 0.25 | 0.50 | 0.96 | 1.15 | 2.32 | 3.21 | 4.08 | 5.38 | 6.66 | 7.94 | 9.20 | 10.88 | 10.07 | 7.99 | 6.54 | 5.48 | 4.68 | 4.05 | 3.56 | 0.12 | 0.00 | – | – | – | – |
| 26 | 0.26 | 0.51 | 1.00 | 1.19 | 2.41 | 3.33 | 4.24 | 5.59 | 6.93 | 8.26 | 9.57 | 11.32 | 10.68 | 8.47 | 6.93 | 5.81 | 4.96 | 4.30 | 3.40 | 0.00 | – | – | – | – | – |
| 28 | 0.29 | 0.55 | 1.08 | 1.28 | 2.60 | 3.59 | 4.57 | 6.02 | 7.46 | 8.89 | 10.31 | 12.19 | 11.93 | 9.47 | 7.75 | 6.49 | 5.55 | 4.81 | 0.00 | – | – | – | – | – | – |
| 30 | 0.31 | 0.59 | 1.16 | 1.38 | 2.79 | 3.85 | 4.90 | 6.45 | 8.00 | 9.53 | 11.05 | 13.06 | 13.23 | 10.50 | 8.59 | 7.20 | 6.15 | 2.24 | 0.00 | – | – | – | – | – | – |
| 32 | 0.33 | 0.63 | 1.23 | 1.47 | 2.97 | 4.10 | 5.22 | 6.88 | 8.53 | 10.16 | 11.78 | 13.93 | 14.58 | 11.57 | 9.47 | 7.93 | 5.76 | 0.00 | – | – | – | – | – | – | – |
| 35 | 0.36 | 0.69 | 1.35 | 1.61 | 3.25 | 4.49 | 5.71 | 7.53 | 9.33 | 11.11 | 12.89 | 15.23 | 16.67 | 13.23 | 10.83 | 8.85 | 0.34 | 0.00 | – | – | – | – | – | – | – |
| 40 | 0.41 | 0.79 | 1.54 | 1.84 | 3.71 | 5.13 | 6.53 | 8.61 | 10.66 | 12.70 | 14.73 | 17.41 | 20.37 | 16.17 | 11.04 | 0.34 | 0.00 | – | – | – | – | – | – | – | – |
| 45 | 0.46 | 0.89 | 1.73 | 2.07 | 4.18 | 5.77 | 7.35 | 9.68 | 11.99 | 14.29 | 16.57 | 19.59 | 23.33 | 15.56 | 3.11 | 0.00 | – | – | – | – | – | – | – | – | – |
| TYPE A | | | | TYPE B | | | | | | | TYPE C | | | | | | | | | | | | | | |

### 41 — 1/2" Pitch Single Strand Roller Chain No. 41 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 180 | 200 | 300 | 500 | 700 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2100 | 2500 | 3000 | 3500 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 |
| 11 | 0.03 | 0.07 | 0.15 | 0.28 | 0.50 | 0.55 | 0.81 | 1.33 | 1.84 | 2.34 | 2.25 | 1.71 | 1.36 | 1.11 | 0.93 | 0.74 | 0.57 | 0.43 | 0.34 | 0.28 | 0.20 | 0.15 | 0.12 | 0.10 | 0.00 |
| 12 | 0.03 | 0.08 | 0.16 | 0.31 | 0.54 | 0.60 | 0.89 | 1.45 | 2.00 | 2.55 | 2.57 | 1.95 | 1.55 | 1.27 | 1.06 | 0.84 | 0.65 | 0.49 | 0.39 | 0.32 | 0.23 | 0.17 | 0.14 | 0.11 | 0.00 |
| 13 | 0.04 | 0.09 | 0.17 | 0.34 | 0.59 | 0.65 | 0.96 | 1.57 | 2.17 | 2.76 | 2.89 | 2.20 | 1.75 | 1.43 | 1.20 | 0.95 | 0.73 | 0.56 | 0.44 | 0.36 | 0.26 | 0.20 | 0.16 | 0.00 | – |
| 14 | 0.04 | 0.10 | 0.19 | 0.36 | 0.63 | 0.70 | 1.04 | 1.69 | 2.34 | 2.97 | 3.23 | 2.46 | 1.95 | 1.60 | 1.34 | 1.06 | 0.82 | 0.62 | 0.49 | 0.40 | 0.29 | 0.22 | 0.17 | 0.00 | – |
| 15 | 0.04 | 0.10 | 0.20 | 0.39 | 0.68 | 0.75 | 1.11 | 1.81 | 2.50 | 3.19 | 3.53 | 2.73 | 2.17 | 1.77 | 1.49 | 1.18 | 0.91 | 0.69 | 0.55 | 0.45 | 0.32 | 0.24 | 0.19 | 0.00 | – |
| 16 | 0.05 | 0.11 | 0.21 | 0.41 | 0.73 | 0.80 | 1.18 | 1.93 | 2.67 | 3.40 | 3.76 | 3.01 | 2.39 | 1.95 | 1.64 | 1.30 | 1.00 | 0.76 | 0.60 | 0.49 | 0.35 | 0.27 | 0.00 | – | – |
| 17 | 0.05 | 0.12 | 0.23 | 0.44 | 0.77 | 0.85 | 1.26 | 2.05 | 2.84 | 3.61 | 4.00 | 3.29 | 2.61 | 2.14 | 1.79 | 1.42 | 1.10 | 0.83 | 0.66 | 0.54 | 0.39 | 0.29 | 0.00 | – | – |
| 18 | 0.05 | 0.12 | 0.24 | 0.46 | 0.82 | 0.90 | 1.33 | 2.18 | 3.00 | 3.82 | 4.23 | 3.59 | 2.85 | 2.33 | 1.95 | 1.55 | 1.19 | 0.91 | 0.72 | 0.59 | 0.42 | 0.32 | 0.00 | – | – |
| 19 | 0.05 | 0.13 | 0.25 | 0.49 | 0.86 | 0.95 | 1.41 | 2.30 | 3.17 | 4.04 | 4.47 | 3.89 | 3.09 | 2.53 | 2.12 | 1.68 | 1.29 | 0.98 | 0.78 | 0.64 | 0.46 | 0.09 | 0.00 | – | – |
| 20 | 0.06 | 0.14 | 0.27 | 0.52 | 0.91 | 1.00 | 1.48 | 2.42 | 3.34 | 4.25 | 4.70 | 4.20 | 3.33 | 2.73 | 2.29 | 1.81 | 1.40 | 1.06 | 0.84 | 0.69 | 0.49 | 0.00 | – | – | – |
| 21 | 0.06 | 0.14 | 0.28 | 0.54 | 0.95 | 1.05 | 1.55 | 2.54 | 3.51 | 4.46 | 4.94 | 4.52 | 3.59 | 2.94 | 2.46 | 1.95 | 1.50 | 1.14 | 0.91 | 0.74 | 0.53 | 0.00 | – | – | – |
| 22 | 0.06 | 0.15 | 0.29 | 0.57 | 1.00 | 1.10 | 1.63 | 2.66 | 3.67 | 4.67 | 5.17 | 4.85 | 3.85 | 3.15 | 2.64 | 2.09 | 1.61 | 1.23 | 0.97 | 0.80 | 0.57 | 0.00 | – | – | – |
| 23 | 0.07 | 0.16 | 0.30 | 0.59 | 1.04 | 1.15 | 1.70 | 2.78 | 3.84 | 4.89 | 5.41 | 5.18 | 4.11 | 3.37 | 2.82 | 2.24 | 1.72 | 1.31 | 1.04 | 0.85 | 0.61 | 0.00 | – | – | – |
| 24 | 0.07 | 0.16 | 0.32 | 0.62 | 1.09 | 1.20 | 1.78 | 2.90 | 4.01 | 5.10 | 5.64 | 5.52 | 4.38 | 3.59 | 3.01 | 2.39 | 1.84 | 1.40 | 1.11 | 0.91 | 0.65 | 0.00 | – | – | – |
| 25 | 0.07 | 0.17 | 0.33 | 0.64 | 1.13 | 1.25 | 1.85 | 3.02 | 4.17 | 5.31 | 5.88 | 5.87 | 4.66 | 3.81 | 3.20 | 2.54 | 1.95 | 1.49 | 1.18 | 0.96 | 0.00 | – | – | – | – |
| 26 | 0.07 | 0.18 | 0.34 | 0.67 | 1.18 | 1.30 | 1.92 | 3.14 | 4.34 | 5.52 | 6.11 | 6.23 | 4.94 | 4.05 | 3.39 | 2.69 | 2.07 | 1.58 | 1.25 | 1.02 | 0.00 | – | – | – | – |
| 28 | 0.08 | 0.19 | 0.37 | 0.72 | 1.27 | 1.40 | 2.07 | 3.38 | 4.67 | 5.95 | 6.58 | 6.96 | 5.52 | 4.52 | 3.79 | 3.01 | 2.31 | 1.76 | 1.40 | 1.14 | 0.00 | – | – | – | – |
| 30 | 0.08 | 0.20 | 0.40 | 0.77 | 1.36 | 1.50 | 2.22 | 3.63 | 5.01 | 6.37 | 7.05 | 7.72 | 6.13 | 5.01 | 4.20 | 3.33 | 2.57 | 1.95 | 1.55 | 1.27 | 0.00 | – | – | – | – |
| 32 | 0.09 | 0.22 | 0.42 | 0.82 | 1.45 | 1.60 | 2.37 | 3.87 | 5.34 | 6.80 | 7.52 | 8.50 | 6.75 | 5.52 | 4.63 | 3.67 | 2.83 | 2.15 | 1.71 | 1.40 | 0.00 | – | – | – | – |
| 35 | 0.10 | 0.24 | 0.46 | 0.90 | 1.59 | 1.76 | 2.59 | 4.23 | 5.84 | 7.44 | 8.23 | 9.80 | 7.72 | 6.32 | 5.29 | 4.20 | 3.23 | 2.46 | 1.95 | 0.00 | – | – | – | – | – |
| 40 | 0.11 | 0.27 | 0.53 | 1.03 | 1.81 | 2.01 | 2.96 | 4.83 | 6.68 | 8.50 | 9.40 | 11.20 | 9.43 | 7.72 | 6.47 | 5.13 | 3.95 | 3.01 | 0.00 | – | – | – | – | – | – |
| 45 | 0.13 | 0.31 | 0.60 | 1.16 | 2.04 | 2.26 | 3.33 | 5.44 | 7.51 | 9.56 | 10.58 | 12.60 | 11.25 | 9.21 | 7.72 | 6.13 | 4.72 | 3.59 | 0.00 | – | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | | | | TYPE C | | | | | | | | | | | |

**Lubrication Note**

TYPE A: Manual or Drip
TYPE B: Bath or Disc
TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

| | |
|---|---|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

# Selection

## Basic Horsepower Ratings

### 40 — 1/2" Pitch Single Strand Roller Chain No. 40 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 180 | 200 | 300 | 500 | 700 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2100 | 2500 | 3000 | 3500 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 |
| 11 | 0.06 | 0.14 | 0.27 | 0.52 | 0.91 | 1.00 | 1.48 | 2.42 | 3.34 | 4.25 | 4.70 | 5.60 | 6.49 | 5.57 | 4.66 | 3.70 | 2.85 | 2.17 | 1.72 | 1.41 | 1.01 | 0.77 | 0.61 | 0.50 | 0.00 |
| 12 | 0.06 | 0.15 | 0.29 | 0.56 | 0.99 | 1.09 | 1.61 | 2.64 | 3.64 | 4.64 | 5.13 | 6.11 | 7.09 | 6.34 | 5.31 | 4.22 | 3.25 | 2.47 | 1.96 | 1.60 | 1.15 | 0.87 | 0.69 | 0.57 | 0.00 |
| 13 | 0.07 | 0.16 | 0.31 | 0.61 | 1.07 | 1.19 | 1.75 | 2.86 | 3.95 | 5.02 | 5.56 | 6.62 | 7.68 | 7.15 | 5.99 | 4.76 | 3.66 | 2.79 | 2.21 | 1.81 | 1.29 | 0.98 | 0.78 | 0.00 | – |
| 14 | 0.07 | 0.17 | 0.34 | 0.66 | 1.15 | 1.28 | 1.88 | 3.08 | 4.25 | 5.41 | 5.98 | 7.13 | 8.27 | 7.99 | 6.70 | 5.31 | 4.09 | 3.11 | 2.47 | 2.02 | 1.45 | 1.10 | 0.87 | 0.00 | – |
| 15 | 0.08 | 0.19 | 0.36 | 0.70 | 1.24 | 1.37 | 2.02 | 3.30 | 4.55 | 5.80 | 6.41 | 7.64 | 8.86 | 8.86 | 7.43 | 5.89 | 4.54 | 3.45 | 2.74 | 2.24 | 1.60 | 1.22 | 0.97 | 0.00 | – |
| 16 | 0.08 | 0.20 | 0.39 | 0.75 | 1.32 | 1.46 | 2.15 | 3.52 | 4.86 | 6.18 | 6.84 | 8.15 | 9.45 | 9.76 | 8.18 | 6.49 | 5.00 | 3.80 | 3.02 | 2.47 | 1.77 | 1.34 | 0.00 | – | – |
| 17 | 0.09 | 0.21 | 0.41 | 0.80 | 1.40 | 1.55 | 2.29 | 3.74 | 5.16 | 6.57 | 7.27 | 8.66 | 10.04 | 10.69 | 8.96 | 7.11 | 5.48 | 4.17 | 3.31 | 2.71 | 1.94 | 1.47 | 0.00 | – | – |
| 18 | 0.09 | 0.22 | 0.43 | 0.84 | 1.48 | 1.64 | 2.42 | 3.96 | 5.46 | 6.95 | 7.69 | 9.17 | 10.63 | 11.65 | 9.76 | 7.75 | 5.97 | 4.54 | 3.60 | 2.95 | 2.11 | 1.60 | 0.00 | – | – |
| 19 | 0.10 | 0.24 | 0.46 | 0.89 | 1.57 | 1.73 | 2.56 | 4.18 | 5.77 | 7.34 | 8.12 | 9.68 | 11.22 | 12.64 | 10.59 | 8.40 | 6.47 | 4.92 | 3.91 | 3.20 | 2.29 | 0.09 | 0.00 | – | – |
| 20 | 0.10 | 0.25 | 0.48 | 0.94 | 1.65 | 1.82 | 2.69 | 4.39 | 6.07 | 7.73 | 8.55 | 10.18 | 11.81 | 13.42 | 11.44 | 9.07 | 6.99 | 5.31 | 4.22 | 3.45 | 2.47 | 0.00 | – | – | – |
| 21 | 0.11 | 0.26 | 0.51 | 0.98 | 1.73 | 1.91 | 2.83 | 4.61 | 6.37 | 8.11 | 8.98 | 10.69 | 12.40 | 14.10 | 12.30 | 9.76 | 7.52 | 5.72 | 4.54 | 3.71 | 2.66 | 0.00 | – | – | – |
| 22 | 0.11 | 0.27 | 0.53 | 1.03 | 1.81 | 2.01 | 2.96 | 4.83 | 6.68 | 8.50 | 9.40 | 11.20 | 12.99 | 14.77 | 13.19 | 10.47 | 8.06 | 6.13 | 4.87 | 3.98 | 2.85 | 0.00 | – | – | – |
| 23 | 0.12 | 0.28 | 0.55 | 1.08 | 1.90 | 2.10 | 3.10 | 5.05 | 6.98 | 8.89 | 9.83 | 11.71 | 13.58 | 15.44 | 14.10 | 11.19 | 8.62 | 6.55 | 5.20 | 4.26 | 3.05 | 0.00 | – | – | – |
| 24 | 0.12 | 0.30 | 0.58 | 1.12 | 1.98 | 2.19 | 3.23 | 5.27 | 7.28 | 9.27 | 10.26 | 12.22 | 14.17 | 16.11 | 15.03 | 11.93 | 9.18 | 6.99 | 5.54 | 4.54 | 0.87 | 0.00 | – | – | – |
| 25 | 0.13 | 0.31 | 0.60 | 1.17 | 2.06 | 2.28 | 3.36 | 5.49 | 7.59 | 9.66 | 10.69 | 12.73 | 14.76 | 16.78 | 15.98 | 12.68 | 9.76 | 7.43 | 5.89 | 4.82 | 0.00 | – | – | – | – |
| 26 | 0.13 | 0.32 | 0.63 | 1.22 | 2.14 | 2.37 | 3.50 | 5.71 | 7.89 | 10.04 | 11.11 | 13.24 | 15.35 | 17.45 | 16.95 | 13.45 | 10.36 | 7.88 | 6.25 | 5.12 | 0.00 | – | – | – | – |
| 28 | 0.14 | 0.35 | 0.67 | 1.31 | 2.31 | 2.55 | 3.77 | 6.15 | 8.50 | 10.82 | 11.97 | 14.26 | 16.53 | 18.79 | 18.94 | 15.03 | 11.57 | 8.80 | 6.99 | 5.72 | 0.00 | – | – | – | – |
| 30 | 0.15 | 0.37 | 0.72 | 1.41 | 2.47 | 2.74 | 4.04 | 6.59 | 9.11 | 11.59 | 12.82 | 15.28 | 17.71 | 20.14 | 21.01 | 16.67 | 12.84 | 9.76 | 7.75 | 6.34 | 0.00 | – | – | – | – |
| 32 | 0.16 | 0.40 | 0.77 | 1.50 | 2.64 | 2.92 | 4.31 | 7.03 | 9.71 | 12.36 | 13.68 | 16.30 | 18.89 | 21.48 | 23.14 | 18.37 | 14.14 | 10.76 | 8.54 | 1.41 | – | – | – | – | – |
| 35 | 0.18 | 0.43 | 0.84 | 1.64 | 2.88 | 3.19 | 4.71 | 7.69 | 10.62 | 13.52 | 14.96 | 17.82 | 20.67 | 23.49 | 26.30 | 21.01 | 16.17 | 12.30 | 9.76 | 0.00 | – | – | – | – | – |
| 40 | 0.21 | 0.50 | 0.96 | 1.87 | 3.30 | 3.65 | 5.38 | 8.79 | 12.14 | 15.45 | 17.10 | 20.37 | 23.62 | 26.85 | 30.06 | 25.67 | 19.76 | 15.03 | 0.00 | – | – | – | – | – | – |
| 45 | 0.23 | 0.56 | 1.08 | 2.11 | 3.71 | 4.10 | 6.06 | 9.89 | 13.66 | 17.39 | 19.24 | 22.92 | 26.57 | 30.20 | 33.82 | 30.63 | 23.58 | 5.53 | 0.00 | – | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | | | | TYPE C | | | | | | | | | | | |

### 50 — 5/8" Pitch Single Strand Roller Chain No. 50 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 100 | 140 | 200 | 300 | 500 | 700 | 900 | 1200 | 1500 | 1800 | 2100 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 |
| 11 | 0.11 | 0.27 | 0.52 | 1.00 | 1.39 | 1.95 | 2.88 | 4.70 | 6.50 | 8.27 | 10.24 | 7.33 | 5.58 | 4.42 | 3.41 | 2.59 | 2.06 | 1.68 | 1.41 | 1.20 | 1.04 | 0.92 | 0.81 | 0.73 | 0.00 |
| 12 | 0.12 | 0.29 | 0.56 | 1.09 | 1.51 | 2.13 | 3.14 | 5.13 | 7.09 | 9.02 | 11.67 | 8.35 | 6.35 | 5.04 | 3.88 | 2.95 | 2.34 | 1.92 | 1.61 | 1.37 | 1.19 | 1.04 | 0.93 | 0.00 | – |
| 13 | 0.13 | 0.31 | 0.61 | 1.19 | 1.64 | 2.31 | 3.40 | 5.56 | 7.68 | 9.77 | 12.88 | 9.42 | 7.16 | 5.69 | 4.38 | 3.33 | 2.64 | 2.16 | 1.81 | 1.55 | 1.34 | 1.18 | 0.00 | – | – |
| 14 | 0.14 | 0.34 | 0.66 | 1.28 | 1.76 | 2.48 | 3.67 | 5.99 | 8.27 | 10.53 | 13.87 | 10.52 | 8.01 | 6.35 | 4.89 | 3.72 | 2.95 | 2.42 | 2.03 | 1.73 | 1.50 | 0.28 | 0.00 | – | – |
| 15 | 0.15 | 0.36 | 0.70 | 1.37 | 1.89 | 2.66 | 3.93 | 6.41 | 8.86 | 11.28 | 14.86 | 11.67 | 8.88 | 7.05 | 5.42 | 4.13 | 3.27 | 2.68 | 2.25 | 1.92 | 1.66 | 0.00 | – | – | – |
| 16 | 0.16 | 0.39 | 0.75 | 1.46 | 2.02 | 2.84 | 4.19 | 6.84 | 9.45 | 12.03 | 15.85 | 12.86 | 9.78 | 7.76 | 5.98 | 4.55 | 3.61 | 2.95 | 2.47 | 2.11 | 0.00 | – | – | – | – |
| 17 | 0.17 | 0.41 | 0.80 | 1.55 | 2.14 | 3.02 | 4.45 | 7.27 | 10.04 | 12.78 | 16.85 | 14.08 | 10.71 | 8.50 | 6.55 | 4.98 | 3.95 | 3.23 | 2.71 | 2.31 | 0.00 | – | – | – | – |
| 18 | 0.18 | 0.43 | 0.84 | 1.64 | 2.27 | 3.19 | 4.71 | 7.70 | 10.63 | 13.53 | 17.84 | 15.34 | 11.67 | 9.26 | 7.13 | 5.42 | 4.30 | 3.52 | 2.95 | 0.05 | 0.00 | – | – | – | – |
| 19 | 0.19 | 0.46 | 0.89 | 1.73 | 2.39 | 3.37 | 4.98 | 8.12 | 11.22 | 14.28 | 18.83 | 16.64 | 12.66 | 10.05 | 7.73 | 5.88 | 4.67 | 3.82 | 3.20 | 0.00 | – | – | – | – | – |
| 20 | 0.20 | 0.48 | 0.94 | 1.82 | 2.52 | 3.55 | 5.24 | 8.55 | 11.81 | 15.04 | 19.82 | 17.97 | 13.67 | 10.85 | 8.35 | 6.35 | 5.04 | 4.13 | 3.46 | 0.00 | – | – | – | – | – |
| 21 | 0.21 | 0.51 | 0.98 | 1.92 | 2.65 | 3.73 | 5.50 | 8.98 | 12.40 | 15.79 | 20.81 | 19.34 | 14.71 | 11.67 | 8.99 | 6.84 | 5.42 | 4.44 | 0.00 | – | – | – | – | – | – |
| 22 | 0.22 | 0.53 | 1.03 | 2.01 | 2.77 | 3.90 | 5.76 | 9.41 | 12.99 | 16.54 | 21.80 | 20.73 | 15.77 | 12.52 | 9.64 | 7.33 | 5.82 | 4.76 | 0.00 | – | – | – | – | – | – |
| 23 | 0.23 | 0.55 | 1.08 | 2.10 | 2.90 | 4.08 | 6.02 | 9.83 | 13.58 | 17.29 | 22.79 | 22.16 | 16.86 | 13.38 | 10.30 | 7.84 | 6.22 | 5.09 | 0.00 | – | – | – | – | – | – |
| 24 | 0.24 | 0.58 | 1.13 | 2.19 | 3.02 | 4.26 | 6.28 | 10.26 | 14.18 | 18.04 | 23.78 | 23.62 | 17.97 | 14.26 | 10.98 | 8.35 | 6.63 | 1.36 | 0.00 | – | – | – | – | – | – |
| 25 | 0.25 | 0.60 | 1.17 | 2.28 | 3.15 | 4.44 | 6.55 | 10.69 | 14.77 | 18.79 | 24.77 | 25.11 | 19.11 | 15.16 | 11.67 | 8.88 | 7.05 | 0.00 | – | – | – | – | – | – | – |
| 26 | 0.26 | 0.63 | 1.22 | 2.37 | 3.28 | 4.61 | 6.81 | 11.12 | 15.36 | 19.55 | 25.76 | 26.64 | 20.26 | 16.08 | 12.38 | 9.42 | 7.47 | 0.00 | – | – | – | – | – | – | – |
| 28 | 0.28 | 0.67 | 1.31 | 2.55 | 3.53 | 4.97 | 7.33 | 11.97 | 16.54 | 21.05 | 27.75 | 29.77 | 22.65 | 17.97 | 13.84 | 10.52 | 4.74 | 0.00 | – | – | – | – | – | – | – |
| 30 | 0.30 | 0.72 | 1.41 | 2.74 | 3.78 | 5.32 | 7.86 | 12.83 | 17.72 | 22.55 | 29.73 | 33.01 | 25.11 | 19.93 | 15.34 | 11.67 | 0.00 | – | – | – | – | – | – | – | – |
| 32 | 0.32 | 0.77 | 1.50 | 2.92 | 4.03 | 5.68 | 8.38 | 13.68 | 18.90 | 24.06 | 31.71 | 36.37 | 27.67 | 21.96 | 16.90 | 12.86 | 0.00 | – | – | – | – | – | – | – | – |
| 35 | 0.35 | 0.84 | 1.64 | 3.19 | 4.41 | 6.21 | 9.16 | 14.97 | 20.67 | 26.31 | 34.68 | 41.60 | 31.65 | 25.11 | 19.34 | 0.94 | 0.00 | – | – | – | – | – | – | – | – |
| 40 | 0.40 | 0.96 | 1.88 | 3.65 | 5.04 | 7.10 | 10.47 | 17.10 | 23.63 | 30.07 | 39.64 | 49.11 | 38.67 | 30.68 | 23.62 | 0.00 | – | – | – | – | – | – | – | – | – |
| 45 | 0.45 | 1.08 | 2.11 | 4.10 | 5.67 | 7.98 | 11.78 | 19.24 | 26.58 | 33.83 | 44.59 | 55.24 | 46.14 | 36.61 | 8.64 | – | – | – | – | – | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | TYPE C | | | | | | | | | | | | | | |

**Lubrication Note**

TYPE A: Manual or Drip
TYPE B: Bath or Disc
TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

| | |
|---|---|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

# Selection

## Basic Horsepower Ratings

### 60 — 3/4" Pitch Single Strand Roller Chain No. 60 – 2001 — HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM 10 | 25 | 50 | 100 | 120 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 0.19 | 0.46 | 0.89 | 1.72 | 2.05 | 3.35 | 4.95 | 6.52 | 8.08 | 9.63 | 12.69 | 15.58 | 11.85 | 9.41 | 7.70 | 6.45 | 5.51 | 3.94 | 3.00 | 2.38 | 1.95 | 1.63 | 1.39 | 1.21 | 0.00 |
| 12 | 0.21 | 0.50 | 0.97 | 1.88 | 2.24 | 3.66 | 5.40 | 7.12 | 8.82 | 10.51 | 13.85 | 17.15 | 13.51 | 10.72 | 8.77 | 7.35 | 6.28 | 4.49 | 3.42 | 2.71 | 2.22 | 1.86 | 1.59 | 1.38 | 0.00 |
| 13 | 0.22 | 0.54 | 1.05 | 2.04 | 2.43 | 3.96 | 5.85 | 7.71 | 9.55 | 11.38 | 15.00 | 18.58 | 15.23 | 12.08 | 9.89 | 8.29 | 7.08 | 5.06 | 3.85 | 3.06 | 2.50 | 2.10 | 1.79 | 0.00 | – |
| 14 | 0.24 | 0.58 | 1.13 | 2.19 | 2.61 | 4.27 | 6.30 | 8.30 | 10.29 | 12.26 | 16.15 | 20.01 | 17.02 | 13.51 | 11.05 | 9.26 | 7.91 | 5.66 | 4.31 | 3.42 | 2.80 | 2.34 | 0.41 | 0.00 | – |
| 15 | 0.26 | 0.62 | 1.21 | 2.35 | 2.80 | 4.57 | 6.75 | 8.90 | 11.02 | 13.13 | 17.31 | 21.44 | 18.87 | 14.98 | 12.26 | 10.27 | 8.77 | 6.28 | 4.77 | 3.79 | 3.10 | 2.60 | 0.00 | – | – |
| 16 | 0.27 | 0.66 | 1.29 | 2.51 | 2.99 | 4.88 | 7.20 | 9.49 | 11.76 | 14.01 | 18.46 | 22.87 | 20.79 | 16.50 | 13.51 | 11.32 | 9.66 | 6.91 | 5.26 | 4.17 | 3.42 | 1.78 | 0.00 | – | – |
| 17 | 0.29 | 0.70 | 1.37 | 2.66 | 3.17 | 5.18 | 7.65 | 10.08 | 12.49 | 14.88 | 19.62 | 24.30 | 22.77 | 18.07 | 14.79 | 12.40 | 10.58 | 7.57 | 5.76 | 4.57 | 3.74 | 0.00 | – | – | – |
| 18 | 0.31 | 0.75 | 1.45 | 2.82 | 3.36 | 5.49 | 8.10 | 10.68 | 13.23 | 15.76 | 20.77 | 25.73 | 24.81 | 19.69 | 16.11 | 13.51 | 11.53 | 8.25 | 6.28 | 4.98 | 4.08 | 0.00 | – | – | – |
| 19 | 0.33 | 0.79 | 1.53 | 2.98 | 3.55 | 5.79 | 8.55 | 11.27 | 13.96 | 16.63 | 21.92 | 27.16 | 26.91 | 21.35 | 17.48 | 14.65 | 12.50 | 8.95 | 6.81 | 5.40 | 0.20 | 0.00 | – | – | – |
| 20 | 0.34 | 0.83 | 1.61 | 3.13 | 3.73 | 6.10 | 9.00 | 11.86 | 14.70 | 17.51 | 23.08 | 28.59 | 29.06 | 23.06 | 18.87 | 15.82 | 13.51 | 9.66 | 7.35 | 5.83 | 0.00 | – | – | – | – |
| 21 | 0.36 | 0.87 | 1.69 | 3.29 | 3.92 | 6.40 | 9.45 | 12.46 | 15.43 | 18.38 | 24.23 | 30.02 | 31.26 | 24.81 | 20.31 | 17.02 | 14.53 | 10.40 | 7.91 | 6.28 | 0.00 | – | – | – | – |
| 22 | 0.38 | 0.91 | 1.77 | 3.45 | 4.11 | 6.71 | 9.90 | 13.05 | 16.17 | 19.26 | 25.39 | 31.45 | 33.52 | 26.60 | 21.77 | 18.25 | 15.58 | 11.15 | 8.48 | 0.00 | – | – | – | – | – |
| 23 | 0.40 | 0.95 | 1.85 | 3.61 | 4.29 | 7.01 | 10.35 | 13.64 | 16.90 | 20.13 | 26.54 | 32.88 | 35.84 | 28.44 | 23.28 | 19.51 | 16.66 | 11.92 | 9.07 | 0.00 | – | – | – | – | – |
| 24 | 0.41 | 0.99 | 1.93 | 3.76 | 4.48 | 7.32 | 10.80 | 14.24 | 17.64 | 21.01 | 27.69 | 34.31 | 38.20 | 30.31 | 24.81 | 20.79 | 17.75 | 12.70 | 9.66 | 0.00 | – | – | – | – | – |
| 25 | 0.43 | 1.04 | 2.01 | 3.92 | 4.67 | 7.62 | 11.25 | 14.83 | 18.37 | 21.89 | 28.85 | 35.74 | 40.61 | 32.23 | 26.38 | 22.11 | 18.87 | 13.51 | 10.27 | 0.00 | – | – | – | – | – |
| 26 | 0.45 | 1.08 | 2.09 | 4.08 | 4.85 | 7.93 | 11.70 | 15.42 | 19.11 | 22.76 | 30.00 | 37.17 | 43.07 | 34.18 | 27.98 | 23.44 | 20.02 | 14.32 | 10.90 | 0.00 | – | – | – | – | – |
| 28 | 0.48 | 1.16 | 2.26 | 4.39 | 5.23 | 8.54 | 12.60 | 16.61 | 20.58 | 24.51 | 32.31 | 40.03 | 47.68 | 38.20 | 31.26 | 26.20 | 22.37 | 16.01 | 0.00 | – | – | – | – | – | – |
| 30 | 0.52 | 1.24 | 2.42 | 4.70 | 5.60 | 9.15 | 13.50 | 17.79 | 22.05 | 26.26 | 34.62 | 42.89 | 51.09 | 42.36 | 34.67 | 29.06 | 24.81 | 17.75 | 0.00 | – | – | – | – | – | – |
| 32 | 0.55 | 1.33 | 2.58 | 5.02 | 5.98 | 9.76 | 14.40 | 18.98 | 23.52 | 28.01 | 36.92 | 45.75 | 54.50 | 46.67 | 38.20 | 32.01 | 27.33 | 19.56 | 0.00 | – | – | – | – | – | – |
| 35 | 0.60 | 1.45 | 2.82 | 5.49 | 6.54 | 10.67 | 15.75 | 20.76 | 25.72 | 30.64 | 40.39 | 50.03 | 59.60 | 53.38 | 43.69 | 36.62 | 31.26 | 1.35 | 0.00 | – | – | – | – | – | – |
| 40 | 0.69 | 1.66 | 3.22 | 6.27 | 7.47 | 12.20 | 18.00 | 23.73 | 29.39 | 35.02 | 46.16 | 57.18 | 68.12 | 65.22 | 53.38 | 44.74 | 38.20 | 0.00 | – | – | – | – | – | – | – |
| 45 | 0.77 | 1.86 | 3.63 | 7.05 | 8.40 | 13.72 | 20.25 | 26.69 | 33.07 | 39.39 | 51.92 | 64.33 | 76.63 | 77.83 | 63.70 | 53.38 | 12.45 | 0.00 | – | – | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | | TYPE C | | | | | | | | | | | | | |

### 80 — 1" Pitch Single Strand Roller Chain No. 80 – 2001 — HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM 10 | 25 | 50 | 75 | 88 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2500 | 3000 | 3500 | 4000 | 4500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 0.44 | 1.06 | 2.07 | 3.05 | 3.56 | 4.03 | 7.83 | 11.56 | 15.23 | 18.87 | 22.48 | 26.07 | 27.41 | 22.97 | 19.61 | 14.92 | 11.84 | 9.69 | 8.12 | 6.93 | 4.96 | 3.77 | 3.00 | 2.45 | 0.00 |
| 12 | 0.48 | 1.16 | 2.26 | 3.33 | 3.88 | 4.39 | 8.54 | 12.61 | 16.62 | 20.59 | 24.53 | 28.44 | 31.23 | 26.17 | 22.35 | 17.00 | 13.49 | 11.04 | 9.25 | 7.90 | 5.65 | 4.30 | 3.41 | 2.79 | 0.00 |
| 13 | 0.52 | 1.26 | 2.45 | 3.61 | 4.21 | 4.76 | 9.26 | 13.66 | 18.00 | 22.31 | 26.57 | 30.81 | 35.02 | 29.51 | 25.20 | 19.17 | 15.21 | 12.45 | 10.43 | 8.91 | 6.37 | 4.85 | 3.85 | 3.15 | – |
| 14 | 0.56 | 1.35 | 2.63 | 3.89 | 4.53 | 5.12 | 9.97 | 14.71 | 19.39 | 24.02 | 28.62 | 33.18 | 37.72 | 32.98 | 28.16 | 21.42 | 17.00 | 13.91 | 11.66 | 9.96 | 7.12 | 5.42 | 4.30 | 3.52 | – |
| 15 | 0.60 | 1.45 | 2.82 | 4.16 | 4.86 | 5.49 | 10.68 | 15.76 | 20.77 | 25.74 | 30.66 | 35.55 | 40.41 | 36.58 | 31.23 | 23.76 | 18.85 | 15.43 | 12.93 | 11.04 | 7.90 | 6.01 | 4.77 | 0.00 | – |
| 16 | 0.64 | 1.55 | 3.01 | 4.44 | 5.18 | 5.86 | 11.39 | 16.81 | 22.16 | 27.45 | 32.70 | 37.92 | 43.11 | 40.30 | 34.41 | 26.17 | 20.77 | 17.00 | 14.25 | 12.16 | 8.70 | 6.62 | 5.25 | 0.00 | – |
| 17 | 0.68 | 1.64 | 3.20 | 4.72 | 5.50 | 6.22 | 12.10 | 17.86 | 23.54 | 29.17 | 34.75 | 40.29 | 45.80 | 44.13 | 37.68 | 28.66 | 22.75 | 18.62 | 15.60 | 13.32 | 9.53 | 7.25 | 0.00 | – | – |
| 18 | 0.72 | 1.74 | 3.39 | 5.00 | 5.83 | 6.59 | 12.81 | 18.91 | 24.93 | 30.88 | 36.79 | 42.66 | 48.49 | 48.08 | 41.05 | 31.23 | 24.78 | 20.29 | 17.00 | 14.51 | 10.39 | 7.90 | 0.00 | – | – |
| 19 | 0.76 | 1.84 | 3.57 | 5.28 | 6.15 | 6.95 | 13.53 | 19.96 | 26.31 | 32.60 | 38.84 | 45.03 | 51.19 | 52.15 | 44.52 | 33.87 | 26.88 | 22.00 | 18.44 | 15.74 | 11.26 | 0.36 | 0.00 | – | – |
| 20 | 0.80 | 1.93 | 3.76 | 5.55 | 6.47 | 7.32 | 14.24 | 21.01 | 27.70 | 34.32 | 40.88 | 47.40 | 53.88 | 56.32 | 48.08 | 36.58 | 29.03 | 23.76 | 19.91 | 17.00 | 12.16 | 0.00 | – | – | – |
| 21 | 0.84 | 2.03 | 3.95 | 5.83 | 6.80 | 7.69 | 14.95 | 22.07 | 29.08 | 36.03 | 42.92 | 49.77 | 56.58 | 60.59 | 51.73 | 39.36 | 31.23 | 25.56 | 21.42 | 18.29 | 13.09 | 0.00 | – | – | – |
| 22 | 0.88 | 2.13 | 4.14 | 6.11 | 7.12 | 8.05 | 15.66 | 23.12 | 30.47 | 37.75 | 44.97 | 52.14 | 59.27 | 64.97 | 55.47 | 42.20 | 33.49 | 27.41 | 22.97 | 19.61 | 14.03 | – | – | – | – |
| 23 | 0.92 | 2.22 | 4.33 | 6.39 | 7.45 | 8.42 | 16.37 | 24.17 | 31.85 | 39.46 | 47.01 | 54.51 | 61.97 | 69.38 | 59.30 | 45.11 | 35.80 | 29.30 | 24.55 | 20.97 | 15.00 | – | – | – | – |
| 24 | 0.96 | 2.32 | 4.52 | 6.66 | 7.77 | 8.78 | 17.09 | 25.22 | 33.24 | 41.18 | 49.06 | 56.88 | 64.66 | 72.40 | 63.21 | 48.08 | 38.16 | 31.23 | 26.17 | 22.35 | 15.99 | – | – | – | – |
| 25 | 1.00 | 2.42 | 4.70 | 6.94 | 8.09 | 9.15 | 17.80 | 26.27 | 34.62 | 42.89 | 51.10 | 59.25 | 67.35 | 75.42 | 67.20 | 51.12 | 40.57 | 33.20 | 27.83 | 23.76 | 8.16 | – | – | – | – |
| 26 | 1.04 | 2.51 | 4.89 | 7.22 | 8.42 | 9.52 | 18.51 | 27.32 | 36.01 | 44.61 | 53.14 | 61.62 | 70.05 | 78.43 | 71.27 | 54.22 | 43.02 | 35.22 | 29.51 | 25.20 | 0.00 | – | – | – | – |
| 28 | 1.12 | 2.71 | 5.27 | 7.77 | 9.06 | 10.25 | 19.93 | 29.42 | 38.78 | 48.04 | 57.23 | 66.36 | 75.44 | 84.47 | 79.65 | 60.59 | 48.08 | 39.36 | 32.98 | 28.16 | 0.00 | – | – | – | – |
| 30 | 1.20 | 2.90 | 5.64 | 8.33 | 9.71 | 10.98 | 21.36 | 31.52 | 41.55 | 51.47 | 61.32 | 71.10 | 80.82 | 90.50 | 88.33 | 67.20 | 53.33 | 43.65 | 36.58 | 31.23 | – | – | – | – | – |
| 32 | 1.28 | 3.09 | 6.02 | 8.89 | 10.36 | 11.71 | 22.78 | 33.62 | 44.32 | 54.91 | 65.41 | 75.84 | 86.21 | 96.53 | 97.31 | 74.03 | 58.75 | 48.08 | 40.30 | 5.65 | – | – | – | – | – |
| 35 | 1.40 | 3.38 | 6.58 | 9.72 | 11.33 | 12.81 | 24.92 | 36.78 | 48.47 | 60.05 | 71.54 | 82.95 | 94.29 | 105.58 | 111.31 | 84.68 | 67.20 | 55.00 | 28.15 | 0.00 | – | – | – | – | – |
| 40 | 1.61 | 3.87 | 7.53 | 11.11 | 12.95 | 14.64 | 28.48 | 42.03 | 55.40 | 68.63 | 81.76 | 94.80 | 107.77 | 120.67 | 133.51 | 103.46 | 82.10 | 40.16 | 0.00 | – | – | – | – | – | – |
| 45 | 1.81 | 4.35 | 8.47 | 12.49 | 14.57 | 16.47 | 32.04 | 47.28 | 62.32 | 77.21 | 91.98 | 106.65 | 121.24 | 135.75 | 150.20 | 123.45 | 72.28 | 0.00 | – | – | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | | | TYPE C | | | | | | | | | | | | |

**Lubrication Note**

TYPE A: Manual or Drip
TYPE B: Bath or Disc
TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

| | |
|---|---|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

# Selection

## Basic Horsepower Ratings

### 100 — 1-1/4" Pitch Single Strand Roller Chain No. 100 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 71 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2500 | 3000 | 3500 | 4000 |
| 11 | 0.85 | 2.04 | 3.96 | 5.55 | 7.71 | 11.38 | 15.00 | 22.14 | 29.18 | 36.15 | 43.06 | 40.03 | 32.77 | 27.46 | 23.45 | 20.32 | 17.84 | 14.15 | 11.58 | 9.71 | 8.29 | 5.93 | 4.51 | 3.58 | 0.00 |
| 12 | 0.92 | 2.22 | 4.32 | 6.05 | 8.41 | 12.41 | 16.36 | 24.15 | 31.83 | 39.44 | 46.98 | 45.61 | 37.33 | 31.29 | 26.71 | 23.16 | 20.32 | 16.13 | 13.20 | 11.06 | 9.45 | 6.76 | 5.14 | 0.00 | – |
| 13 | 1.00 | 2.41 | 4.68 | 6.56 | 9.11 | 13.45 | 17.73 | 26.16 | 34.48 | 42.72 | 50.89 | 51.43 | 42.10 | 35.28 | 30.12 | 26.11 | 22.92 | 18.18 | 14.88 | 12.47 | 10.65 | 7.62 | 5.80 | 0.00 | – |
| 14 | 1.08 | 2.59 | 5.04 | 7.06 | 9.81 | 14.48 | 19.09 | 28.18 | 37.14 | 46.01 | 54.81 | 57.48 | 47.05 | 39.43 | 33.66 | 29.18 | 25.61 | 20.32 | 16.63 | 13.94 | 11.90 | 8.52 | 1.13 | 0.00 | – |
| 15 | 1.15 | 2.78 | 5.41 | 7.57 | 10.51 | 15.52 | 20.45 | 30.19 | 39.79 | 49.30 | 58.72 | 63.75 | 52.18 | 43.73 | 37.33 | 32.36 | 28.40 | 22.54 | 18.45 | 15.46 | 13.20 | 9.45 | 0.00 | – | – |
| 16 | 1.23 | 2.96 | 5.77 | 8.07 | 11.22 | 16.55 | 21.82 | 32.20 | 42.44 | 52.58 | 62.64 | 70.23 | 57.48 | 48.17 | 41.13 | 35.65 | 31.29 | 24.83 | 20.32 | 17.03 | 14.54 | 10.41 | 0.00 | – | – |
| 17 | 1.31 | 3.15 | 6.13 | 8.58 | 11.92 | 17.59 | 23.18 | 34.21 | 45.10 | 55.87 | 66.55 | 76.91 | 62.95 | 52.76 | 45.05 | 39.04 | 34.27 | 27.19 | 22.26 | 18.65 | 15.93 | 11.40 | 0.00 | – | – |
| 18 | 1.38 | 3.33 | 6.49 | 9.08 | 12.62 | 18.62 | 24.55 | 36.23 | 47.75 | 59.15 | 70.47 | 81.71 | 68.59 | 57.48 | 49.08 | 42.54 | 37.33 | 29.63 | 24.25 | 20.32 | 17.35 | 0.18 | 0.00 | – | – |
| 19 | 1.46 | 3.52 | 6.85 | 9.59 | 13.32 | 19.66 | 25.91 | 38.24 | 50.40 | 62.44 | 74.38 | 86.25 | 74.38 | 62.34 | 53.22 | 46.13 | 40.49 | 32.13 | 26.30 | 22.04 | 18.82 | 0.00 | – | – | – |
| 20 | 1.54 | 3.70 | 7.21 | 10.09 | 14.02 | 20.69 | 27.27 | 40.25 | 53.05 | 65.73 | 78.30 | 90.79 | 80.33 | 67.32 | 57.48 | 49.82 | 43.73 | 34.70 | 28.40 | 23.80 | 20.32 | 0.00 | – | – | – |
| 21 | 1.61 | 3.89 | 7.57 | 10.60 | 14.72 | 21.73 | 28.64 | 42.26 | 55.71 | 69.01 | 82.21 | 95.33 | 86.43 | 72.43 | 61.85 | 53.61 | 47.05 | 37.33 | 30.56 | 25.61 | 21.87 | 0.00 | – | – | – |
| 22 | 1.69 | 4.08 | 7.93 | 11.10 | 15.42 | 22.76 | 30.00 | 44.28 | 58.36 | 72.30 | 86.13 | 99.87 | 92.68 | 77.67 | 66.31 | 57.48 | 50.45 | 40.03 | 32.77 | 27.46 | 23.45 | 0.00 | – | – | – |
| 23 | 1.77 | 4.26 | 8.29 | 11.60 | 16.12 | 23.79 | 31.36 | 46.29 | 61.01 | 75.59 | 90.04 | 104.41 | 99.07 | 83.02 | 70.89 | 61.44 | 53.93 | 42.79 | 35.03 | 29.35 | 25.06 | 0.00 | – | – | – |
| 24 | 1.84 | 4.45 | 8.65 | 12.11 | 16.82 | 24.83 | 32.73 | 48.30 | 63.66 | 78.87 | 93.96 | 108.95 | 105.60 | 88.50 | 75.56 | 65.49 | 57.48 | 45.61 | 37.33 | 31.29 | 5.43 | 0.00 | – | – | – |
| 25 | 1.92 | 4.63 | 9.01 | 12.61 | 17.52 | 25.86 | 34.09 | 50.31 | 66.32 | 82.16 | 97.87 | 113.48 | 112.27 | 94.09 | 80.33 | 69.63 | 61.11 | 48.49 | 39.69 | 33.26 | 0.00 | – | – | – | – |
| 26 | 2.00 | 4.82 | 9.37 | 13.12 | 18.23 | 26.90 | 35.45 | 52.33 | 68.97 | 85.45 | 101.79 | 118.02 | 119.07 | 99.79 | 85.20 | 73.85 | 64.81 | 51.43 | 42.10 | 35.28 | 0.00 | – | – | – | – |
| 28 | 2.15 | 5.19 | 10.09 | 14.13 | 19.63 | 28.97 | 38.18 | 56.35 | 74.27 | 92.02 | 109.62 | 127.10 | 133.07 | 111.52 | 95.22 | 82.53 | 72.43 | 57.48 | 47.05 | 0.00 | – | – | – | – | – |
| 30 | 2.31 | 5.56 | 10.81 | 15.14 | 21.03 | 31.04 | 40.91 | 60.38 | 79.58 | 98.59 | 117.45 | 136.18 | 147.58 | 123.68 | 105.60 | 91.53 | 80.33 | 63.75 | 49.40 | 0.00 | – | – | – | – | – |
| 32 | 2.46 | 5.93 | 11.53 | 16.15 | 22.43 | 33.11 | 43.64 | 64.40 | 84.88 | 105.16 | 125.28 | 145.26 | 162.58 | 136.25 | 116.33 | 100.84 | 88.50 | 70.23 | 8.82 | 0.00 | – | – | – | – | – |
| 35 | 2.69 | 6.48 | 12.61 | 17.66 | 24.53 | 36.21 | 47.73 | 70.44 | 92.84 | 115.02 | 137.02 | 158.88 | 180.61 | 155.85 | 133.07 | 115.34 | 101.23 | 69.02 | 0.00 | – | – | – | – | – | – |
| 40 | 3.07 | 7.41 | 14.41 | 20.18 | 28.04 | 41.38 | 54.54 | 80.50 | 106.11 | 131.45 | 156.60 | 181.58 | 206.41 | 190.42 | 162.58 | 140.92 | 122.68 | 0.00 | – | – | – | – | – | – | – |
| 45 | 3.46 | 8.34 | 16.22 | 22.71 | 31.54 | 46.55 | 61.36 | 90.56 | 119.37 | 147.89 | 176.17 | 204.27 | 232.21 | 227.21 | 194.00 | 168.15 | 34.58 | 0.00 | – | – | – | – | – | – | – |
| TYPE A | | | | TYPE B | | | | | | | TYPE C | | | | | | | | | | | | | | |

### 120 — 1-1/2" Pitch Single Strand Roller Chain No. 120 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 25 | 50 | 60 | 75 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2700 | 3000 |
| 11 | 1.43 | 3.44 | 6.69 | 7.97 | 9.88 | 13.02 | 19.22 | 25.33 | 37.38 | 49.27 | 61.04 | 58.37 | 46.32 | 37.91 | 31.77 | 27.13 | 20.64 | 16.38 | 13.40 | 11.23 | 9.59 | 8.31 | 7.30 | 6.11 | 0.00 |
| 12 | 1.56 | 3.75 | 7.30 | 8.70 | 10.78 | 14.20 | 20.96 | 27.63 | 40.78 | 53.75 | 66.59 | 66.51 | 52.78 | 43.20 | 36.20 | 30.91 | 23.51 | 18.66 | 15.27 | 12.80 | 10.93 | 9.47 | 8.31 | 6.97 | 0.00 |
| 13 | 1.69 | 4.07 | 7.91 | 9.42 | 11.67 | 15.39 | 22.71 | 29.93 | 44.18 | 58.23 | 72.14 | 74.99 | 59.51 | 48.71 | 40.82 | 34.85 | 26.51 | 21.04 | 17.22 | 14.43 | 12.32 | 10.68 | 9.37 | 0.00 | – |
| 14 | 1.82 | 4.38 | 8.52 | 10.15 | 12.57 | 16.57 | 24.46 | 32.24 | 47.58 | 62.71 | 77.69 | 83.81 | 66.51 | 54.44 | 45.62 | 38.95 | 29.63 | 23.51 | 19.25 | 16.13 | 13.77 | 11.94 | 10.48 | 0.00 | – |
| 15 | 1.95 | 4.69 | 9.13 | 10.87 | 13.47 | 17.76 | 26.20 | 34.54 | 50.98 | 67.19 | 83.24 | 92.95 | 73.76 | 60.37 | 50.59 | 43.20 | 32.86 | 26.08 | 21.34 | 17.89 | 15.27 | 13.24 | 0.00 | – | – |
| 16 | 2.08 | 5.00 | 9.74 | 11.60 | 14.37 | 18.94 | 27.95 | 36.84 | 54.37 | 71.67 | 88.79 | 102.39 | 81.26 | 66.51 | 55.74 | 47.59 | 36.20 | 28.73 | 23.51 | 19.71 | 16.83 | 14.58 | 0.00 | – | – |
| 17 | 2.21 | 5.32 | 10.34 | 12.32 | 15.27 | 20.12 | 29.70 | 39.14 | 57.77 | 76.15 | 94.34 | 112.14 | 88.99 | 72.84 | 61.04 | 52.12 | 39.65 | 31.46 | 25.75 | 21.58 | 18.43 | 0.00 | – | – | – |
| 18 | 2.34 | 5.63 | 10.95 | 13.05 | 16.16 | 21.31 | 31.45 | 41.45 | 61.17 | 80.63 | 99.89 | 119.00 | 96.96 | 79.36 | 66.51 | 56.78 | 43.20 | 34.28 | 28.06 | 23.51 | 20.08 | 0.00 | – | – | – |
| 19 | 2.47 | 5.94 | 11.56 | 13.77 | 17.06 | 22.49 | 33.19 | 43.75 | 64.57 | 85.11 | 105.44 | 125.61 | 105.15 | 86.06 | 72.13 | 61.58 | 46.85 | 37.18 | 30.43 | 25.50 | 0.80 | 0.00 | – | – | – |
| 20 | 2.60 | 6.26 | 12.17 | 14.50 | 17.96 | 23.67 | 34.94 | 46.05 | 67.97 | 89.59 | 110.99 | 132.22 | 113.56 | 92.95 | 77.89 | 66.51 | 50.59 | 40.15 | 32.86 | 27.54 | 0.00 | – | – | – | – |
| 21 | 2.73 | 6.57 | 12.78 | 15.22 | 18.86 | 24.86 | 36.69 | 48.36 | 71.37 | 94.07 | 116.54 | 138.83 | 122.18 | 100.00 | 83.81 | 71.56 | 54.44 | 43.20 | 35.36 | 27.46 | 0.00 | – | – | – | – |
| 22 | 2.86 | 6.88 | 13.39 | 15.95 | 19.76 | 26.04 | 38.43 | 50.66 | 74.76 | 98.55 | 122.09 | 145.44 | 131.01 | 107.23 | 89.87 | 76.73 | 58.37 | 46.32 | 37.91 | 0.00 | – | – | – | – | – |
| 23 | 2.99 | 7.19 | 14.00 | 16.67 | 20.65 | 27.22 | 40.18 | 52.96 | 78.16 | 103.02 | 127.64 | 152.05 | 140.04 | 114.62 | 96.06 | 82.02 | 62.39 | 49.51 | 40.53 | 0.00 | – | – | – | – | – |
| 24 | 3.11 | 7.51 | 14.60 | 17.40 | 21.55 | 28.41 | 41.93 | 55.26 | 81.56 | 107.50 | 133.19 | 158.66 | 149.28 | 122.18 | 102.39 | 87.43 | 66.51 | 52.78 | 43.20 | 0.00 | – | – | – | – | – |
| 25 | 3.24 | 7.82 | 15.21 | 18.12 | 22.45 | 29.59 | 43.67 | 57.57 | 84.96 | 111.98 | 138.74 | 165.27 | 158.70 | 129.90 | 108.86 | 92.95 | 70.71 | 56.11 | 18.37 | 0.00 | – | – | – | – | – |
| 26 | 3.37 | 8.13 | 15.82 | 18.85 | 23.35 | 30.78 | 45.42 | 59.87 | 88.36 | 116.46 | 144.29 | 171.88 | 168.32 | 137.77 | 115.46 | 98.58 | 74.99 | 59.51 | 0.00 | – | – | – | – | – | – |
| 28 | 3.63 | 8.76 | 17.04 | 20.30 | 25.15 | 33.14 | 48.92 | 64.47 | 95.15 | 125.42 | 155.38 | 185.11 | 188.11 | 153.97 | 129.03 | 110.17 | 83.81 | 66.51 | 0.00 | – | – | – | – | – | – |
| 30 | 3.89 | 9.38 | 18.25 | 21.75 | 26.94 | 35.51 | 52.41 | 69.08 | 101.95 | 134.38 | 166.48 | 198.33 | 208.62 | 170.75 | 143.10 | 122.18 | 92.95 | 13.70 | 0.00 | – | – | – | – | – | – |
| 32 | 4.15 | 10.01 | 19.47 | 23.20 | 28.74 | 37.88 | 55.90 | 73.68 | 108.75 | 143.34 | 177.58 | 211.55 | 229.83 | 188.11 | 157.65 | 134.60 | 102.39 | 0.00 | – | – | – | – | – | – | – |
| 35 | 4.54 | 10.95 | 21.30 | 25.37 | 31.43 | 41.43 | 61.14 | 80.59 | 118.94 | 156.78 | 194.23 | 231.38 | 262.89 | 215.17 | 180.33 | 153.97 | 117.13 | 0.00 | – | – | – | – | – | – | – |
| 40 | 5.19 | 12.51 | 24.34 | 28.99 | 35.92 | 47.35 | 69.88 | 92.11 | 135.94 | 179.17 | 221.98 | 264.44 | 306.61 | 262.89 | 220.32 | 176.66 | 0.00 | – | – | – | – | – | – | – | – |
| 45 | 5.84 | 14.08 | 27.38 | 32.62 | 40.41 | 53.27 | 78.61 | 103.62 | 152.93 | 201.57 | 249.72 | 297.49 | 344.94 | 313.69 | 213.33 | 49.79 | 0.00 | – | – | – | – | – | – | – | – |
| TYPE A | | | | TYPE B | | | | | | | | TYPE C | | | | | | | | | | | | | |

**Lubrication Note**

TYPE A: Manual or Drip
TYPE B: Bath or Disc
TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

| | |
|---|---|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

# Selection

## Basic Horsepower Ratings

### 140 — 1-3/4" Pitch Single Strand Roller Chain No. 140 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 10 | 25 | 50 | 53 | 75 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2700 |
| 11 | 1.14 | 2.21 | 5.32 | 10.36 | 10.95 | 15.28 | 20.15 | 29.73 | 39.19 | 57.84 | 76.24 | 86.80 | 66.03 | 52.40 | 42.89 | 35.94 | 30.69 | 23.35 | 18.53 | 15.16 | 12.71 | 10.85 | 9.40 | 8.25 | 0.00 |
| 12 | 1.24 | 2.41 | 5.81 | 11.30 | 11.95 | 16.67 | 21.98 | 32.44 | 42.75 | 63.10 | 83.17 | 98.90 | 75.24 | 59.70 | 48.87 | 40.95 | 34.97 | 26.60 | 21.11 | 17.28 | 14.48 | 12.36 | 10.72 | 0.72 | 0.00 |
| 13 | 1.34 | 2.61 | 6.29 | 12.24 | 12.94 | 18.06 | 23.81 | 35.14 | 46.32 | 68.36 | 90.10 | 111.52 | 84.83 | 67.32 | 55.10 | 46.18 | 39.43 | 29.99 | 23.80 | 19.48 | 16.33 | 13.94 | 12.08 | 0.00 | – |
| 14 | 1.45 | 2.81 | 6.78 | 13.18 | 13.94 | 19.45 | 25.64 | 37.84 | 49.88 | 73.61 | 97.03 | 120.21 | 94.81 | 75.24 | 61.58 | 51.61 | 44.06 | 33.52 | 26.60 | 21.77 | 18.25 | 15.58 | 0.00 | – | – |
| 15 | 1.55 | 3.01 | 7.26 | 14.12 | 14.93 | 20.84 | 27.47 | 40.54 | 53.44 | 78.87 | 103.96 | 128.79 | 105.15 | 83.44 | 68.29 | 57.23 | 48.87 | 37.17 | 29.50 | 24.15 | 20.24 | 17.28 | 0.00 | – | – |
| 16 | 1.65 | 3.21 | 7.74 | 15.06 | 15.93 | 22.23 | 29.30 | 43.25 | 57.00 | 84.13 | 110.89 | 137.38 | 115.83 | 91.92 | 75.24 | 63.05 | 53.83 | 40.95 | 32.50 | 26.60 | 22.29 | 0.00 | – | – | – |
| 17 | 1.75 | 3.41 | 8.23 | 16.00 | 16.93 | 23.62 | 31.13 | 45.95 | 60.57 | 89.39 | 117.82 | 145.97 | 126.86 | 100.67 | 82.40 | 69.05 | 58.96 | 44.85 | 35.59 | 29.13 | 24.41 | 0.00 | – | – | – |
| 18 | 1.86 | 3.61 | 8.71 | 16.95 | 17.92 | 25.01 | 32.97 | 48.65 | 64.13 | 94.65 | 124.75 | 154.55 | 138.22 | 109.68 | 89.77 | 75.24 | 64.24 | 48.87 | 38.78 | 31.74 | 0.00 | – | – | – | – |
| 19 | 1.96 | 3.82 | 9.20 | 17.89 | 18.92 | 26.40 | 34.80 | 51.36 | 67.69 | 99.90 | 131.68 | 163.14 | 149.89 | 118.95 | 97.36 | 81.59 | 69.66 | 53.00 | 42.06 | 34.42 | 0.00 | – | – | – | – |
| 20 | 2.06 | 4.02 | 9.68 | 18.83 | 19.91 | 27.79 | 36.63 | 54.06 | 71.25 | 105.16 | 138.61 | 171.73 | 161.88 | 128.46 | 105.15 | 88.12 | 75.24 | 57.23 | 45.42 | 35.82 | 0.00 | – | – | – | – |
| 21 | 2.17 | 4.22 | 10.16 | 19.77 | 20.91 | 29.18 | 38.46 | 56.76 | 74.82 | 110.42 | 145.54 | 180.31 | 174.17 | 138.22 | 113.13 | 94.81 | 80.95 | 61.58 | 48.87 | 0.00 | – | – | – | – | – |
| 22 | 2.27 | 4.42 | 10.65 | 20.71 | 21.90 | 30.57 | 40.29 | 59.47 | 78.38 | 115.68 | 152.47 | 188.90 | 186.76 | 148.21 | 121.30 | 101.66 | 86.80 | 66.03 | 52.40 | 0.00 | – | – | – | – | – |
| 23 | 2.37 | 4.62 | 11.13 | 21.65 | 22.90 | 31.96 | 42.12 | 62.17 | 81.94 | 120.94 | 159.40 | 197.48 | 199.64 | 158.43 | 129.67 | 108.67 | 92.78 | 70.58 | 56.01 | 0.00 | – | – | – | – | – |
| 24 | 2.48 | 4.82 | 11.62 | 22.60 | 23.90 | 33.35 | 43.95 | 64.87 | 85.51 | 126.20 | 166.33 | 206.07 | 212.80 | 168.87 | 138.22 | 115.83 | 98.90 | 75.24 | 37.90 | 0.00 | – | – | – | – | – |
| 25 | 2.58 | 5.02 | 12.10 | 23.54 | 24.89 | 34.74 | 45.79 | 67.57 | 89.07 | 131.45 | 173.27 | 214.66 | 226.24 | 179.53 | 146.94 | 123.15 | 105.15 | 79.99 | 0.00 | – | – | – | – | – | – |
| 26 | 2.68 | 5.22 | 12.58 | 24.48 | 25.89 | 36.13 | 47.62 | 70.28 | 92.63 | 136.71 | 180.20 | 223.24 | 239.95 | 190.41 | 155.85 | 130.61 | 111.52 | 84.83 | 0.00 | – | – | – | – | – | – |
| 28 | 2.89 | 5.62 | 13.55 | 26.36 | 27.88 | 38.91 | 51.28 | 75.68 | 99.76 | 147.23 | 194.06 | 240.42 | 268.16 | 212.80 | 174.17 | 145.97 | 124.63 | 94.81 | 0.00 | – | – | – | – | – | – |
| 30 | 3.10 | 6.02 | 14.52 | 28.24 | 29.87 | 41.68 | 54.94 | 81.09 | 106.88 | 157.74 | 207.92 | 257.59 | 297.40 | 236.00 | 193.16 | 161.88 | 138.22 | 18.64 | 0.00 | – | – | – | – | – | – |
| 32 | 3.30 | 6.43 | 15.49 | 30.13 | 31.86 | 44.46 | 58.61 | 86.50 | 114.01 | 168.26 | 221.78 | 274.76 | 327.63 | 259.99 | 212.80 | 178.34 | 152.27 | 0.00 | – | – | – | – | – | – | – |
| 35 | 3.61 | 7.03 | 16.94 | 32.95 | 34.85 | 48.63 | 64.10 | 94.60 | 124.70 | 184.03 | 242.57 | 300.52 | 358.00 | 297.40 | 243.41 | 203.99 | 135.27 | – | – | – | – | – | – | – | – |
| 40 | 4.13 | 8.03 | 19.36 | 37.66 | 39.83 | 55.58 | 73.26 | 108.12 | 142.51 | 210.33 | 277.22 | 343.45 | 409.15 | 363.35 | 297.40 | 153.78 | 0.00 | – | – | – | – | – | – | – | – |
| 45 | 4.65 | 9.04 | 21.78 | 42.37 | 44.80 | 62.53 | 82.42 | 121.63 | 160.32 | 236.62 | 311.88 | 386.38 | 460.29 | 433.56 | 221.34 | 0.00 | – | – | – | – | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | | TYPE C | | | | | | | | | | | | | |

### 160 — 2" Pitch Single Strand Roller Chain No. 160 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 10 | 25 | 47 | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 |
| 11 | 1.65 | 3.20 | 7.72 | 14.16 | 15.02 | 22.17 | 29.23 | 43.14 | 56.86 | 83.91 | 110.60 | 96.58 | 73.47 | 58.31 | 47.72 | 39.99 | 34.15 | 29.60 | 25.98 | 20.61 | 16.87 | 14.14 | 12.07 | 10.46 | 0.00 |
| 12 | 1.80 | 3.50 | 8.43 | 15.45 | 16.39 | 24.19 | 31.88 | 47.06 | 62.03 | 91.54 | 120.66 | 110.05 | 83.72 | 66.44 | 54.38 | 45.57 | 38.91 | 33.73 | 29.60 | 23.49 | 19.22 | 16.11 | 13.76 | 0.00 | – |
| 13 | 1.95 | 3.79 | 9.13 | 16.73 | 17.76 | 26.21 | 34.54 | 50.98 | 67.19 | 99.17 | 130.71 | 124.09 | 94.40 | 74.91 | 61.31 | 51.38 | 43.87 | 38.03 | 33.37 | 26.48 | 21.68 | 18.17 | 0.00 | – | – |
| 14 | 2.10 | 4.08 | 9.83 | 18.02 | 19.12 | 28.22 | 37.20 | 54.90 | 72.36 | 106.80 | 140.77 | 138.68 | 105.50 | 83.72 | 68.52 | 57.43 | 49.03 | 42.50 | 37.30 | 29.60 | 24.23 | 20.30 | 0.00 | – | – |
| 15 | 2.25 | 4.37 | 10.53 | 19.31 | 20.49 | 30.24 | 39.86 | 58.82 | 77.53 | 114.43 | 150.82 | 153.80 | 117.00 | 92.85 | 75.99 | 63.69 | 54.38 | 47.13 | 41.37 | 32.83 | 26.87 | 0.00 | – | – | – |
| 16 | 2.40 | 4.66 | 11.23 | 20.59 | 21.85 | 32.25 | 42.51 | 62.74 | 82.70 | 122.05 | 160.88 | 169.43 | 128.89 | 102.28 | 83.72 | 70.16 | 59.90 | 51.92 | 45.57 | 36.16 | 29.60 | 0.00 | – | – | – |
| 17 | 2.55 | 4.95 | 11.94 | 21.88 | 23.22 | 34.27 | 45.17 | 66.66 | 87.87 | 129.68 | 170.93 | 185.56 | 141.16 | 112.02 | 91.69 | 76.84 | 65.61 | 56.87 | 49.91 | 39.61 | 24.21 | 0.00 | – | – | – |
| 18 | 2.70 | 5.24 | 12.64 | 23.17 | 24.59 | 36.29 | 47.83 | 70.59 | 93.04 | 137.31 | 180.99 | 202.17 | 153.80 | 122.05 | 99.90 | 83.72 | 71.48 | 61.96 | 54.38 | 43.15 | 0.00 | – | – | – | – |
| 19 | 2.85 | 5.54 | 13.34 | 24.45 | 25.95 | 38.30 | 50.48 | 74.51 | 98.21 | 144.94 | 191.04 | 219.25 | 166.79 | 132.36 | 108.33 | 90.79 | 77.52 | 67.19 | 58.97 | 46.80 | 0.00 | – | – | – | – |
| 20 | 3.00 | 5.83 | 14.04 | 25.74 | 27.32 | 40.32 | 53.14 | 78.43 | 103.38 | 152.57 | 201.10 | 236.79 | 180.13 | 142.95 | 117.00 | 98.05 | 83.72 | 72.57 | 63.69 | 46.79 | 0.00 | – | – | – | – |
| 21 | 3.15 | 6.12 | 14.74 | 27.03 | 28.68 | 42.33 | 55.80 | 82.35 | 108.54 | 160.20 | 211.15 | 254.77 | 193.81 | 153.80 | 125.88 | 105.50 | 90.07 | 78.08 | 68.52 | 0.00 | – | – | – | – | – |
| 22 | 3.29 | 6.41 | 15.45 | 28.32 | 30.05 | 44.35 | 58.45 | 86.27 | 113.71 | 167.83 | 221.21 | 273.18 | 207.82 | 164.91 | 134.98 | 113.12 | 96.58 | 83.72 | 73.47 | 0.00 | – | – | – | – | – |
| 23 | 3.44 | 6.70 | 16.15 | 29.60 | 31.42 | 46.36 | 61.11 | 90.19 | 118.88 | 175.45 | 231.26 | 286.51 | 222.15 | 176.29 | 144.29 | 120.92 | 103.24 | 89.49 | 78.54 | 0.00 | – | – | – | – | – |
| 24 | 3.59 | 6.99 | 16.85 | 30.89 | 32.78 | 48.38 | 63.77 | 94.11 | 124.05 | 183.08 | 241.32 | 298.97 | 236.79 | 187.91 | 153.80 | 128.89 | 110.05 | 95.39 | 83.72 | 0.00 | – | – | – | – | – |
| 25 | 3.74 | 7.28 | 17.55 | 32.18 | 34.15 | 50.40 | 66.43 | 98.04 | 129.22 | 190.71 | 251.37 | 311.42 | 251.74 | 199.77 | 163.51 | 137.03 | 117.00 | 101.41 | 32.66 | 0.00 | – | – | – | – | – |
| 26 | 3.89 | 7.57 | 18.26 | 33.46 | 35.51 | 52.41 | 69.08 | 101.96 | 134.39 | 198.34 | 261.43 | 323.88 | 267.00 | 211.88 | 173.42 | 145.33 | 124.09 | 107.56 | 0.00 | – | – | – | – | – | – |
| 28 | 4.19 | 8.16 | 19.66 | 36.04 | 38.24 | 56.44 | 74.40 | 109.80 | 144.73 | 213.60 | 281.54 | 348.79 | 298.39 | 236.79 | 193.81 | 162.42 | 138.68 | 36.88 | 0.00 | – | – | – | – | – | – |
| 30 | 4.49 | 8.74 | 21.06 | 38.61 | 40.98 | 60.48 | 79.71 | 117.64 | 155.06 | 228.85 | 301.65 | 373.71 | 330.92 | 262.61 | 214.94 | 180.13 | 126.46 | 0.00 | – | – | – | – | – | – | – |
| 32 | 4.79 | 9.32 | 22.47 | 41.19 | 43.71 | 64.51 | 85.03 | 125.49 | 165.40 | 244.11 | 321.76 | 398.62 | 364.56 | 289.30 | 236.79 | 198.44 | 22.58 | 0.00 | – | – | – | – | – | – | – |
| 35 | 5.24 | 10.20 | 24.57 | 45.05 | 47.81 | 70.55 | 93.00 | 137.25 | 180.91 | 266.99 | 351.92 | 435.99 | 417.01 | 330.92 | 270.86 | 112.60 | 0.00 | – | – | – | – | – | – | – | – |
| 40 | 5.99 | 11.65 | 28.09 | 51.48 | 54.63 | 80.63 | 106.28 | 156.86 | 206.75 | 305.14 | 402.19 | 498.28 | 509.49 | 404.31 | 160.63 | 0.00 | – | – | – | – | – | – | – | – | – |
| 45 | 6.74 | 13.11 | 31.60 | 57.92 | 61.46 | 90.71 | 119.57 | 176.47 | 232.59 | 343.28 | 452.47 | 560.56 | 607.95 | 289.10 | 0.00 | – | – | – | – | – | – | – | – | – | – |
| TYPE A | | | | TYPE B | | | | | | | TYPE C | | | | | | | | | | | | | | |

**Lubrication Note**

TYPE A: Manual or Drip
TYPE B: Bath or Disc
TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

| | |
|---|---|
| Single Strand | 1.0 |
| Double Strand | 1.9 |
| Triple Strand | 2.8 |

# Selection

## Basic Horsepower Ratings

### 180 — 2-1/4" Pitch Single Strand Roller Chain No. 180 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 5 | 10 | 25 | 43 | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2000 |
| 11 | 0.94 | 2.27 | 4.43 | 10.66 | 17.95 | 20.75 | 30.62 | 40.36 | 59.56 | 78.51 | 115.87 | 148.32 | 106.13 | 80.73 | 64.07 | 52.44 | 43.95 | 37.52 | 32.52 | 28.54 | 22.65 | 18.54 | 15.54 | 0.00 |
| 12 | 1.03 | 2.48 | 4.83 | 11.63 | 19.58 | 22.63 | 33.40 | 44.03 | 64.98 | 85.64 | 126.40 | 166.61 | 120.92 | 91.99 | 73.00 | 59.75 | 50.07 | 42.75 | 37.06 | 32.52 | 25.81 | 21.12 | 17.70 | 0.00 |
| 13 | 1.12 | 2.69 | 5.23 | 12.60 | 21.21 | 24.52 | 36.19 | 47.70 | 70.39 | 92.78 | 136.93 | 180.49 | 136.35 | 103.72 | 82.31 | 67.37 | 56.46 | 48.21 | 41.79 | 36.67 | 29.10 | 23.82 | 0.00 | – |
| 14 | 1.20 | 2.90 | 5.63 | 13.57 | 22.84 | 26.40 | 38.97 | 51.36 | 75.81 | 99.92 | 147.47 | 194.37 | 152.38 | 115.92 | 91.99 | 75.29 | 63.10 | 53.87 | 46.70 | 40.98 | 32.52 | 26.62 | 0.00 | – |
| 15 | 1.29 | 3.10 | 6.03 | 14.54 | 24.48 | 28.29 | 41.75 | 55.03 | 81.22 | 107.06 | 158.00 | 208.26 | 169.00 | 128.56 | 102.02 | 83.50 | 69.98 | 59.75 | 51.79 | 45.45 | 36.07 | 0.00 | – | – |
| 16 | 1.37 | 3.31 | 6.44 | 15.51 | 26.11 | 30.18 | 44.54 | 58.70 | 86.64 | 114.19 | 168.53 | 222.14 | 186.17 | 141.63 | 112.39 | 91.99 | 77.09 | 65.82 | 57.05 | 50.07 | 39.74 | 0.00 | – | – |
| 17 | 1.46 | 3.52 | 6.84 | 16.48 | 27.74 | 32.06 | 47.32 | 62.37 | 92.05 | 121.33 | 179.07 | 236.02 | 203.90 | 155.11 | 123.09 | 100.75 | 84.43 | 72.09 | 62.49 | 54.84 | 43.52 | 0.00 | – | – |
| 18 | 1.54 | 3.72 | 7.24 | 17.45 | 29.37 | 33.95 | 50.10 | 66.04 | 97.47 | 128.47 | 189.60 | 249.91 | 222.15 | 169.00 | 134.11 | 109.77 | 91.99 | 78.54 | 68.08 | 59.75 | 0.00 | – | – | – |
| 19 | 1.63 | 3.93 | 7.64 | 18.42 | 31.00 | 35.83 | 52.89 | 69.71 | 102.88 | 135.60 | 200.13 | 263.79 | 240.92 | 183.27 | 145.44 | 119.04 | 99.76 | 85.18 | 73.83 | 64.80 | 0.00 | – | – | – |
| 20 | 1.72 | 4.14 | 8.05 | 19.39 | 32.64 | 37.72 | 55.67 | 73.38 | 108.30 | 142.74 | 210.67 | 277.68 | 260.19 | 197.93 | 157.07 | 128.56 | 107.74 | 91.99 | 79.74 | 69.98 | 0.00 | – | – | – |
| 21 | 1.80 | 4.34 | 8.45 | 20.36 | 34.27 | 39.61 | 58.45 | 77.05 | 113.71 | 149.88 | 221.20 | 291.56 | 279.94 | 212.96 | 169.00 | 138.32 | 115.92 | 98.97 | 85.79 | 75.29 | 0.00 | – | – | – |
| 22 | 1.89 | 4.55 | 8.85 | 21.33 | 35.90 | 41.49 | 61.24 | 80.71 | 119.12 | 157.02 | 231.73 | 305.44 | 300.17 | 228.35 | 181.21 | 148.32 | 124.30 | 106.13 | 91.99 | 0.00 | – | – | – | – |
| 23 | 1.97 | 4.76 | 9.25 | 22.30 | 37.53 | 43.38 | 64.02 | 84.38 | 124.54 | 164.15 | 242.27 | 319.33 | 320.87 | 244.10 | 193.70 | 158.54 | 132.87 | 113.45 | 98.33 | 0.00 | – | – | – | – |
| 24 | 2.06 | 4.96 | 9.65 | 23.27 | 39.16 | 45.26 | 66.80 | 88.05 | 129.95 | 171.29 | 252.80 | 333.21 | 342.02 | 260.19 | 206.47 | 169.00 | 141.63 | 120.92 | 40.34 | 0.00 | – | – | – | – |
| 25 | 2.15 | 5.17 | 10.06 | 24.24 | 40.79 | 47.15 | 69.59 | 91.72 | 135.37 | 178.43 | 263.33 | 347.10 | 363.62 | 276.62 | 219.51 | 179.67 | 150.57 | 128.56 | 0.00 | – | – | – | – | – |
| 26 | 2.23 | 5.38 | 10.46 | 25.21 | 42.43 | 49.04 | 72.37 | 95.39 | 140.78 | 185.56 | 273.87 | 360.98 | 385.66 | 293.38 | 232.81 | 190.55 | 159.69 | 122.43 | 0.00 | – | – | – | – | – |
| 28 | 2.40 | 5.79 | 11.26 | 27.15 | 45.69 | 52.81 | 77.94 | 102.73 | 151.61 | 199.84 | 294.93 | 388.75 | 431.00 | 327.87 | 260.19 | 212.96 | 178.47 | 0.00 | – | – | – | – | – | – |
| 30 | 2.57 | 6.20 | 12.07 | 29.09 | 48.95 | 56.58 | 83.50 | 110.07 | 162.44 | 214.11 | 316.00 | 416.51 | 477.99 | 363.62 | 288.56 | 236.18 | 128.92 | 0.00 | – | – | – | – | – | – |
| 32 | 2.75 | 6.62 | 12.87 | 31.02 | 52.22 | 60.35 | 89.07 | 117.40 | 173.27 | 228.39 | 337.07 | 444.28 | 526.58 | 400.58 | 317.89 | 260.19 | 0.00 | – | – | – | – | – | – | – |
| 35 | 3.00 | 7.24 | 14.08 | 33.93 | 57.11 | 66.01 | 97.42 | 128.41 | 189.52 | 249.80 | 368.67 | 485.93 | 602.34 | 458.22 | 363.62 | 142.51 | 0.00 | – | – | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | | TYPE C | | | | | | | | | | | | |

### 200 — 2-1/2" Pitch Single Strand Roller Chain No. 200 – 2001

HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 5 | 10 | 25 | 40 | 50 | 75 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 |
| 11 | 1.25 | 3.02 | 5.88 | 14.16 | 22.23 | 27.54 | 40.65 | 53.58 | 79.08 | 104.24 | 129.14 | 153.84 | 161.36 | 115.46 | 87.83 | 69.70 | 57.05 | 47.81 | 40.82 | 35.38 | 31.05 | 24.64 | 20.17 | 0.00 |
| 12 | 1.37 | 3.29 | 6.41 | 15.45 | 24.25 | 30.05 | 44.35 | 58.45 | 86.27 | 113.71 | 140.88 | 167.82 | 183.86 | 131.56 | 100.08 | 79.42 | 65.00 | 54.48 | 46.51 | 40.32 | 35.38 | 28.08 | 22.98 | 0.00 |
| 13 | 1.48 | 3.57 | 6.94 | 16.73 | 26.28 | 32.55 | 48.04 | 63.33 | 93.46 | 123.19 | 152.62 | 181.81 | 207.31 | 148.34 | 112.85 | 89.55 | 73.30 | 61.43 | 52.45 | 45.46 | 39.90 | 31.66 | 0.00 | – |
| 14 | 1.59 | 3.84 | 7.48 | 18.02 | 28.30 | 35.06 | 51.74 | 68.20 | 100.65 | 132.66 | 164.36 | 195.79 | 231.69 | 165.78 | 126.11 | 100.08 | 81.91 | 68.65 | 58.61 | 50.80 | 44.59 | 35.38 | 0.00 | – |
| 15 | 1.71 | 4.12 | 8.01 | 19.31 | 30.32 | 37.56 | 55.43 | 73.07 | 107.84 | 142.14 | 176.09 | 209.78 | 256.95 | 183.86 | 139.87 | 110.99 | 90.85 | 76.13 | 65.00 | 56.34 | 49.45 | 37.46 | 0.00 | – |
| 16 | 1.82 | 4.39 | 8.55 | 20.60 | 32.34 | 40.06 | 59.13 | 77.94 | 115.03 | 151.61 | 187.83 | 223.76 | 283.07 | 202.55 | 154.08 | 122.27 | 100.08 | 83.87 | 71.61 | 62.07 | 54.48 | 0.00 | – | – |
| 17 | 1.94 | 4.67 | 9.08 | 21.88 | 34.36 | 42.57 | 62.83 | 82.81 | 122.22 | 161.09 | 199.57 | 237.75 | 310.02 | 221.83 | 168.75 | 133.91 | 109.61 | 91.86 | 78.43 | 67.98 | 59.66 | 0.00 | – | – |
| 18 | 2.05 | 4.94 | 9.61 | 23.17 | 36.38 | 45.07 | 66.52 | 87.68 | 129.41 | 170.57 | 211.31 | 251.73 | 331.81 | 241.69 | 183.86 | 145.90 | 119.42 | 100.08 | 85.45 | 74.07 | 65.00 | – | – | – |
| 19 | 2.16 | 5.22 | 10.15 | 24.46 | 38.40 | 47.58 | 70.22 | 92.55 | 136.59 | 180.04 | 223.05 | 265.72 | 350.24 | 262.11 | 199.39 | 158.23 | 129.51 | 108.53 | 92.67 | 80.32 | 2.22 | – | – | – |
| 20 | 2.28 | 5.49 | 10.68 | 25.74 | 40.42 | 50.08 | 73.91 | 97.42 | 143.78 | 189.52 | 234.79 | 279.70 | 368.67 | 283.07 | 215.34 | 170.88 | 139.87 | 117.21 | 100.08 | 86.75 | 0.00 | – | – | – |
| 21 | 2.39 | 5.77 | 11.22 | 27.03 | 42.45 | 52.59 | 77.61 | 102.29 | 150.97 | 198.99 | 246.53 | 293.69 | 387.11 | 304.56 | 231.69 | 183.86 | 150.49 | 126.11 | 107.68 | 32.68 | 0.00 | – | – | – |
| 22 | 2.51 | 6.04 | 11.75 | 28.32 | 44.47 | 55.09 | 81.30 | 107.17 | 158.16 | 208.47 | 258.27 | 307.68 | 405.54 | 326.57 | 248.43 | 197.15 | 161.36 | 135.23 | 115.46 | 0.00 | – | – | – | – |
| 23 | 2.62 | 6.31 | 12.28 | 29.61 | 46.49 | 57.59 | 85.00 | 112.04 | 165.35 | 217.95 | 270.01 | 321.66 | 423.97 | 349.09 | 265.56 | 210.74 | 172.49 | 144.55 | 104.48 | 0.00 | – | – | – | – |
| 24 | 2.73 | 6.59 | 12.82 | 30.89 | 48.51 | 60.10 | 88.70 | 116.91 | 172.54 | 227.42 | 281.75 | 335.65 | 442.41 | 372.10 | 283.07 | 224.63 | 183.86 | 154.08 | 21.71 | 0.00 | – | – | – | – |
| 25 | 2.85 | 6.86 | 13.35 | 32.18 | 50.53 | 62.60 | 92.39 | 121.78 | 179.73 | 236.90 | 293.49 | 349.63 | 460.84 | 395.60 | 300.94 | 238.82 | 195.47 | 163.81 | 0.00 | – | – | – | – | – |
| 26 | 2.96 | 7.14 | 13.89 | 33.47 | 52.55 | 65.11 | 96.09 | 126.65 | 186.92 | 246.37 | 305.23 | 363.62 | 479.27 | 419.57 | 319.18 | 253.29 | 207.31 | 151.14 | 0.00 | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | | | TYPE C | | | | | | | | | | | |

### 240 — 3" Pitch Single Strand Roller Chain No. 240 – 2001

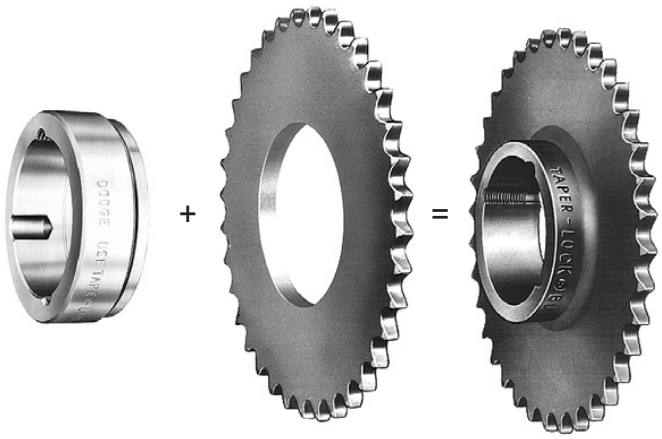
HORSEPOWER RATINGS

| No. Teeth | Small Sprocket RPM | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 5 | 10 | 25 | 36 | 50 | 75 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 |
| 11 | 2.02 | 4.86 | 9.46 | 22.81 | 32.36 | 44.36 | 65.47 | 86.30 | 127.37 | 167.88 | 207.99 | 247.77 | 186.70 | 133.59 | 101.63 | 80.65 | 66.01 | 55.32 | 47.23 | 40.94 | 35.93 | 31.87 | 28.51 | 0.00 |
| 12 | 2.20 | 5.31 | 10.32 | 24.88 | 35.31 | 48.40 | 71.43 | 94.15 | 138.95 | 183.14 | 226.89 | 270.30 | 212.73 | 152.22 | 115.80 | 91.89 | 75.21 | 63.03 | 53.82 | 46.65 | 40.94 | 36.31 | 2.11 | 0.00 |
| 13 | 2.39 | 5.75 | 11.18 | 26.95 | 38.25 | 52.43 | 77.38 | 101.99 | 150.53 | 198.41 | 245.80 | 292.82 | 239.87 | 171.64 | 130.57 | 103.61 | 84.81 | 71.07 | 60.68 | 52.60 | 46.16 | 38.13 | 0.00 | – |
| 14 | 2.57 | 6.19 | 12.04 | 29.02 | 41.19 | 56.46 | 83.33 | 109.84 | 162.11 | 213.67 | 264.71 | 315.34 | 268.07 | 191.82 | 145.92 | 115.80 | 94.78 | 79.43 | 67.82 | 58.78 | 51.59 | 0.00 | – | – |
| 15 | 2.75 | 6.63 | 12.90 | 31.10 | 44.13 | 60.50 | 89.28 | 117.68 | 173.68 | 228.93 | 283.62 | 337.87 | 297.30 | 212.73 | 161.83 | 128.42 | 105.11 | 88.09 | 75.21 | 65.19 | 0.00 | – | – | – |
| 16 | 2.94 | 7.08 | 13.76 | 33.17 | 47.08 | 64.53 | 95.24 | 125.53 | 185.26 | 244.19 | 302.53 | 360.39 | 327.52 | 234.35 | 178.28 | 141.47 | 115.80 | 97.04 | 82.86 | 71.82 | 0.00 | – | – | – |
| 17 | 3.12 | 7.52 | 14.62 | 35.24 | 50.02 | 68.56 | 101.19 | 133.37 | 196.84 | 259.45 | 321.43 | 382.92 | 358.70 | 256.66 | 195.25 | 154.94 | 126.82 | 106.28 | 90.74 | 0.00 | – | – | – | – |
| 18 | 3.30 | 7.96 | 15.48 | 37.32 | 52.96 | 72.59 | 107.14 | 141.22 | 208.42 | 274.71 | 340.34 | 405.44 | 390.81 | 279.64 | 212.73 | 168.81 | 138.17 | 115.80 | 98.87 | 0.00 | – | – | – | – |
| 19 | 3.49 | 8.40 | 16.34 | 39.39 | 55.90 | 76.63 | 113.09 | 149.06 | 220.00 | 289.98 | 359.25 | 427.97 | 423.82 | 303.26 | 230.70 | 183.08 | 149.84 | 125.58 | 3.20 | 0.00 | – | – | – | – |
| 20 | 3.67 | 8.84 | 17.20 | 41.46 | 58.84 | 80.66 | 119.04 | 156.91 | 231.58 | 305.24 | 378.16 | 450.49 | 457.72 | 327.52 | 249.15 | 197.72 | 161.83 | 135.62 | 0.00 | – | – | – | – | – |
| 21 | 3.85 | 9.29 | 18.07 | 43.54 | 61.79 | 84.69 | 125.00 | 164.76 | 243.16 | 320.50 | 397.07 | 473.02 | 492.48 | 352.39 | 268.07 | 212.73 | 174.12 | 109.86 | 0.00 | – | – | – | – | – |
| 22 | 4.04 | 9.73 | 18.93 | 45.61 | 64.73 | 88.73 | 130.95 | 172.60 | 254.74 | 335.76 | 415.97 | 495.54 | 528.07 | 377.85 | 287.44 | 228.10 | 186.70 | 0.00 | – | – | – | – | – | – |
| 23 | 4.22 | 10.17 | 19.79 | 47.68 | 67.67 | 92.76 | 136.90 | 180.45 | 266.32 | 351.02 | 434.88 | 518.07 | 564.48 | 403.91 | 307.26 | 243.83 | 199.57 | 0.00 | – | – | – | – | – | – |
| 24 | 4.40 | 10.61 | 20.65 | 49.76 | 70.61 | 96.79 | 142.85 | 188.29 | 277.89 | 366.29 | 453.79 | 540.59 | 601.69 | 430.53 | 327.52 | 259.91 | 188.30 | 0.00 | – | – | – | – | – | – |
| 25 | 4.59 | 11.06 | 21.51 | 51.83 | 73.55 | 100.83 | 148.81 | 196.14 | 289.47 | 381.55 | 472.70 | 563.12 | 639.68 | 457.72 | 348.20 | 276.32 | 73.47 | 0.00 | – | – | – | – | – | – |
| 26 | 4.77 | 11.50 | 22.37 | 53.90 | 76.50 | 104.86 | 154.76 | 203.98 | 301.05 | 396.81 | 491.61 | 585.64 | 678.45 | 485.46 | 369.30 | 293.06 | 0.00 | – | – | – | – | – | – | – |
| TYPE A | | | | | TYPE B | | | | | | | | TYPE C | | | | | | | | | | | |

# Engineering/Technical
## Custom Taper-Lock Sprockets

Non-stock or special Taper-Lock sprockets may be fabricated from stock Taper-Lock hubs and A-Plate sprockets rebored to fit the hubs. This provides the capability for fabricating sprockets with larger bore capacity, or number of teeth that are stocked as A-Plate but not Taper-Lock. This operation can be done on location, or supplied by Dodge, price on application.

Dodge Taper-Lock hubs are available in three types: S, K and W/WA. All are of quality steel bar stock or forgings, easily welded, and ready to accept Taper-Lock Bushings. For more detailed information and dimensions, refer to Bushings/Hubs section of this catalog.



| DODGE TAPER-LOCK WELD-ON HUB | + | A-PLATE SPROCKET REBORE TO "G" DIMENSION, WELD | = | TAPER-LOCK SPROCKET |
|---|---|---|---|---|

| Chain Pitch | No. Teeth | Taper-Lock Hub | A-Plate Sprocket | Fabricated Sprocket |
|---|---|---|---|---|
| 50 | 50 | S30-6 | 50A50 | 50BTL50 |
| 60 | 34 | S20-6 | 60A34 | 60BTL34 |
| 60 | 96 | S35 | 60A96 | 60BTL96 |
| 100 | 42 | 835 | 100A42 | 100BTL42 |
| 140 | 80 | WA60 | 140A80 | 140CTL80 |
| 240 | 54 | WA70 | 240A54 | 240CTL54 |

| Hub No. ◊ | Part No. | For Use With Bush. + | Bushing Bore Range | A-Plate Rebore Dia. | Minimum Number Teeth for Chain Pitch No. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 35 | 40/41 | 50 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 |
| S16-4 | **097023** | 1610 | 1/2 - 11/16 | 2.875Δ | 31 | 24 | – | – | – | – | – | – | – | – | – | – |
| S16-6 | **097024** | 1610 | 1/2 - 11/16 | 2.875Δ | – | – | 21 | 19 | – | – | – | – | – | – | – | – |
| S20-6 | **097025** | 2012 | 1/2 - 2-1/8 | 3.4375Δ | 36 | 28 | 24 | 21 | – | – | – | – | – | – | – | – |
| S20-8 | **097015** | 2012 | 1/2 - 2-1/8 | 3.4375Δ | – | – | – | – | 17 | – | – | – | – | – | – | – |
| S25-6 | **097016** | 2517 | 1/2 - 2-11/16 | 4.125Δ | 42 | 33 | 27 | 24 | – | – | – | – | – | – | – | – |
| S25-8 | **097017** | 2517 | 1/2 - 2-11/16 | 4.125Δ | – | – | – | – | 19 | – | – | – | – | – | – | – |
| S25-10 | **097018** | 2517 | 1/2 - 2-11/16 | 4.125Δ | – | – | – | – | – | 16 | – | – | – | – | – | – |
| S25-16 | **097019** | 2517 | 1/2 - 2-11/16 | 4.125Δ | – | – | – | – | – | – | 15 | 13 | 12 | – | – | – |
| S30-10 | **097020** | 3020 | 7/8 - 3-1/4 | 5.125Δ | 49 | 39 | 32 | 28 | 22 | 19 | – | – | – | – | – | – |
| S30-16 | **097021** | 3020 | 7/8 - 3-1/4 | 5.125Δ | – | – | – | – | – | – | – | 17 | 15 | 14 | – | – |
| S35 | **097022** | 3535 | 1-3/16 - 3-15/16 | 6.375Δ | – | 44 | 38 | 33 | 26 | 22 | 20 | 17 | 16 | – | – | – |
| WA40 | **228089** | 4040 | 1-7/16 - 4-7/16 | 7.250Δ | – | – | 45 | 38 | 30 | 25 | 22 | 20 | 18 | 17 | 15 | – |
| WA45 | **228090** | 4545 | 1-15/16 - 4-15/16 | 8.000+ | – | – | 50 | 43 | 33 | 28 | 24 | 21 | 20 | 18 | 17 | 15 |
| WA50 | **228091** | 5050 | 2-7/16 - 5 | 8.750+ | – | – | 52 | 46 | 35 | 29 | 26 | 23 | 21 | 19 | 18 | 15 |
| WA60 | **228092** | 6050 | 3-7/16 - 6 | 12.250+ | – | – | – | – | 47 | 39 | 34 | 29 | 26 | 24 | 22 | 19 |
| WA70 | **228093** | 7060 | 3-15/16 - 7 | 13.500+ | – | – | – | – | 51 | 42 | 36 | 32 | 28 | 26 | 24 | 21 |
| WA80 | **228094** | 8065 | 4-7/16 - 8 | 14.250+ | – | – | – | – | – | 44 | 38 | 33 | 30 | 27 | 25 | 21 |
| WA100 | **228095** | 10085 | 7 - 10 | 18.750+ | – | – | – | – | – | – | 47 | 41 | 36 | 33 | 30 | 26 |

◊ Refer to D1-12 and 13 for hub dimensions

REBORE TOLERANCES
Δ +.004 + .001
+ +.010 + .004

# Engineering/Technical

## Sprocket Pitch Diameters



| No. Teeth | Chain Number | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 35 | 41 | 40 | 50 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 240 |
| 9 | .731 | 1.097 | 1.462 | 1.462 | 1.828 | 2.193 | 2.924 | 3.655 | 4.356 | 5.117 | 5.848 | 6.579 | 7.310 | 8.771 |
| 10 | .809 | 1.214 | 1.618 | 1.618 | 2.023 | 2.427 | 3.236 | 4.045 | 4.854 | 5.663 | 6.472 | 7.281 | 8.090 | 9.708 |
| 11 | .887 | 1.331 | 1.775 | 1.775 | 2.219 | 2.663 | 3.550 | 4.438 | 5.325 | 6.213 | 7.100 | 7.986 | 8.875 | 10.649 |
| 12 | .996 | 1.449 | 1.932 | 1.932 | 2.415 | 2.898 | 3.864 | 4.830 | 5.796 | 6.762 | 7.728 | 8.693 | 9.660 | 11.591 |
| 13 | 1.045 | 1.567 | 2.089 | 2.089 | 2.612 | 3.134 | 4.179 | 5.224 | 6.269 | 7.313 | 8.358 | 9.402 | 10.447 | 12.536 |
| 14 | 1.124 | 1.685 | 2.247 | 2.247 | 2.809 | 3.371 | 4.494 | 5.618 | 6.741 | 7.865 | 8.988 | 10.112 | 11.235 | 13.482 |
| 15 | 1.203 | 1.804 | 2.405 | 2.405 | 3.006 | 3.608 | 4.810 | 6.013 | 7.215 | 8.418 | 9.620 | 10.822 | 12.025 | 14.429 |
| 16 | 1.282 | 1.922 | 2.563 | 2.563 | 3.204 | 3.845 | 5.126 | 6.408 | 7.698 | 8.971 | 10.252 | 11.533 | 12.815 | 15.377 |
| 17 | 1.361 | 2.041 | 2.721 | 2.721 | 3.401 | 4.082 | 5.442 | 6.803 | 8.163 | 9.524 | 10.844 | 12.245 | 13.605 | 16.327 |
| 18 | 1.440 | 2.160 | 2.879 | 2.879 | 3.599 | 4.319 | 5.759 | 7.199 | 8.639 | 10.078 | 11.518 | 12.957 | 14.397 | 17.276 |
| 19 | 1.519 | 2.279 | 3.038 | 3.038 | 3.798 | 4.557 | 6.076 | 7.595 | 9.114 | 10.633 | 12.152 | 13.670 | 15.190 | 18.227 |
| 20 | 1.598 | 2.397 | 3.196 | 3.196 | 3.995 | 4.794 | 6.392 | 7.990 | 9.588 | 11.186 | 12.784 | 14.383 | 15.980 | 19.177 |
| 21 | 1.678 | 2.516 | 3.355 | 3.355 | 4.194 | 5.033 | 6.710 | 8.388 | 10.065 | 11.743 | 13.420 | 15.096 | 16.775 | 20.129 |
| 22 | 1.757 | 2.635 | 3.513 | 3.513 | 4.392 | 5.270 | 7.027 | 8.784 | 10.541 | 12.297 | 14.054 | 15.810 | 17.567 | 21.080 |
| 23 | 1.836 | 2.754 | 3.673 | 3.672 | 4.590 | 5.508 | 7.344 | 9.180 | 11.016 | 12.852 | 14.688 | 16.524 | 18.360 | 22.032 |
| 24 | 1.915 | 2.873 | 3.831 | 3.831 | 4.788 | 5.746 | 7.661 | 9.576 | 11.492 | 13.407 | 15.322 | 17.238 | 19.153 | 22.984 |
| 25 | 1.995 | 2.992 | 3.989 | 3.959 | 4.987 | 5.984 | 7.979 | 9.974 | 11.969 | 13.963 | 15.958 | 17.952 | 19.947 | 23.936 |
| 26 | 2.074 | 3.111 | 4.148 | 4.148 | 5.185 | 6.222 | 8.296 | 10.370 | 12.444 | 14.518 | 16.592 | 18.666 | 20.740 | 24.889 |
| 27 | – | 3.230 | 4.307 | 4.307 | 5.384 | 6.461 | 8.614 | 10.768 | 12.921 | 15.075 | 17.228 | 19.381 | 21.535 | 25.841 |
| 28 | 2.233 | 3.349 | 4.465 | 4.465 | 5.582 | 6.698 | 8.931 | 11.164 | 13.397 | 15.629 | 17.862 | 20.096 | 22.327 | 26.794 |
| 29 | – | 3.468 | 4.625 | 4.625 | 5.781 | 6.937 | 9.249 | 11.561 | 13.874 | 16.186 | 18.498 | 20.810 | 23.123 | 27.747 |
| 30 | 2.392 | 3.588 | 4.783 | 4.783 | 5.979 | 7.175 | 9.567 | 11.959 | 14.351 | 16.742 | 19.134 | 21.525 | 23.917 | 28.700 |
| 31 | – | 3.707 | 4.942 | 4.942 | 6.178 | 7.413 | 9.884 | 12.355 | 14.826 | 17.297 | 19.768 | 22.240 | 24.710 | 29.654 |
| 32 | 2.551 | 3.826 | 5.101 | 5.101 | 6.376 | 7.652 | 10.202 | 12.753 | 15.303 | 17.854 | 20.404 | 22.955 | 25.505 | 30.607 |
| 33 | – | 3.945 | 5.260 | 5.260 | 6.575 | 7.890 | 10.520 | 13.150 | 15.780 | 18.410 | 21.040 | 23.670 | 26.300 | 31.560 |
| 34 | – | 4.064 | 5.419 | 5.419 | 6.774 | 8.129 | 10.838 | 13.548 | 16.257 | 18.967 | 21.676 | 24.385 | 27.095 | 32.514 |
| 35 | – | 4.184 | 5.578 | 5.578 | 6.973 | 8.367 | 11.156 | 13.945 | 16.734 | 19.523 | 22.312 | 25.101 | 27.890 | 33.467 |
| 36 | 2.869 | 4.303 | 5.737 | 5.737 | 7.171 | 8.606 | 11.474 | 14.343 | 17.211 | 20.080 | 22.948 | 25.815 | 28.685 | 34.421 |
| 37 | – | 4.422 | 5.896 | 5.896 | 7.370 | 8.841 | 11.792 | 14.740 | 17.688 | 20.636 | 23.584 | 26.531 | 29.480 | 35.375 |
| 38 | – | 4.541 | 6.055 | 6.055 | 7.569 | 9.083 | 12.110 | 15.138 | 18.165 | 21.193 | 24.220 | 27.246 | 30.275 | 36.329 |
| 39 | – | 4.661 | 6.214 | 6.214 | 8.768 | 9.321 | 12.428 | 15.535 | 18.642 | 21.749 | 24.856 | 27.962 | 31.070 | 37.283 |
| 40 | 3.187 | 4.780 | 6.373 | 6.373 | 7.966 | 9.560 | 12.745 | 15.933 | 19.119 | 22.306 | 25.492 | 28.677 | 31.865 | 38.237 |
| 41 | – | 4.599 | 6.532 | 6.532 | 8.165 | 9.798 | 13.064 | 16.330 | 19.596 | 22.862 | 26.128 | 29.393 | 32.660 | 39.191 |
| 42 | – | 5.018 | 6.691 | 6.691 | 8.364 | 10.037 | 13.382 | 16.728 | 20.073 | 23.419 | 26.764 | 30.108 | 33.455 | 40.145 |
| 43 | – | 5.138 | 6.850 | 6.850 | 8.563 | 10.275 | 13.700 | 17.125 | 20.550 | 23.975 | 27.400 | 30.824 | 34.250 | 41.099 |
| 44 | – | 5.257 | 7.009 | 7.009 | 8.761 | 10.514 | 14.018 | 17.523 | 21.027 | 24.532 | 28.036 | 31.539 | 35.045 | 42.053 |
| 45 | 3.584 | 5.376 | 7.168 | 7.168 | 8.960 | 10.752 | 14.336 | 17.920 | 21.504 | 25.088 | 28.672 | 32.255 | 35.840 | 43.007 |
| 46 | – | 5.495 | 7.327 | 7.327 | 9.159 | 10.991 | 14.654 | 18.318 | 21.981 | 25.645 | 29.308 | 32.971 | 36.635 | 43.961 |
| 47 | – | 5.615 | 7.486 | 7.486 | 9.358 | 11.229 | 14.972 | 18.715 | 22.458 | 26.201 | 29.944 | 33.686 | 37.430 | 44.915 |
| 48 | 3.823 | 5.734 | 7.645 | 7.645 | 9.556 | 11.468 | 15.290 | 19.113 | 22.935 | 26.758 | 30.580 | 34.402 | 38.225 | 45.869 |
| 49 | – | 5.853 | 7.804 | 7.804 | 9.755 | 11.706 | 15.608 | 19.510 | 23.412 | 27.314 | 31.216 | 35.118 | 39.020 | 46.824 |
| 50 | – | 5.972 | 7.963 | 7.963 | 9.954 | 11.945 | 15.926 | 19.908 | 23.889 | 27.871 | 31.852 | 35.834 | 39.815 | 47.778 |
| 51 | – | 6.092 | 8.122 | 8.122 | 10.153 | 12.183 | 16.244 | 20.305 | 24.366 | 28.427 | 32.488 | 36.549 | 40.610 | 45.732 |
| 52 | – | 6.211 | 8.281 | 8.281 | 10.351 | 12.422 | 16.562 | 20.703 | 24.843 | 28.984 | 33.124 | 37.265 | 41.405 | 49.687 |
| 53 | – | 6.330 | 8.440 | 8.440 | 10.550 | 12.660 | 16.850 | 21.100 | 25.320 | 29.540 | 33.760 | 37.981 | 42.200 | 50.641 |
| 54 | 4.300 | 6.449 | 8.599 | 8.599 | 10.749 | 12.599 | 17.198 | 21.498 | 25.797 | 30.097 | 34.396 | 38.696 | 42.995 | 51.595 |
| 55 | – | 6.569 | 8.758 | 8.758 | 10.948 | 13.137 | 17.516 | 21.895 | 26.274 | 30.653 | 35.032 | 39.412 | 43.790 | 52.550 |
| 56 | – | 6.688 | 8.917 | 5.917 | 11.147 | 13.376 | 17.835 | 22.294 | 26.753 | 31.211 | 35.670 | 40.128 | 44.587 | 53.504 |
| 57 | – | 6.807 | 9.077 | 9.077 | 11.346 | 13.615 | 18.153 | 22.691 | 27.230 | 31.765 | 36.306 | 40.844 | 45.383 | 54.458 |
| 55 | – | 6.927 | 9.235 | 9.235 | 11.544 | 13.853 | 18.789 | 23.089 | 27.707 | 32.324 | 36.942 | 41.560 | 46.177 | 55.413 |
| 59 | – | 7.046 | 9.395 | 9.395 | 11.743 | 14.092 | 18.789 | 23.486 | 28.184 | 32.881 | 37.578 | 42.276 | 46.973 | 56.368 |
| 60 | 4.777 | 7.165 | 9.554 | 9.554 | 11.942 | 14.330 | 19.107 | 23.584 | 28.661 | 33.437 | 38.214 | 42.991 | 47.768 | 57.322 |
| 68 | – | 8.120 | 10.826 | 10.826 | 13.533 | 16.240 | 21.653 | 27.066 | 32.480 | 37.893 | 43.306 | 48.719 | 54.132 | 64.958 |
| 72 | 5.732 | 5.597 | 11.463 | 11.463 | 14.329 | 17.195 | 22.926 | 28.658 | 34.359 | 40.121 | 45.852 | 51.583 | 57.315 | 68.777 |
| 76 | – | 9.074 | 12.099 | 12.099 | 15.124 | 18.149 | 24.198 | 30.248 | 36.297 | 42.347 | 48.396 | 54.446 | 60.495 | 72.595 |
| 80 | – | 9.552 | 12.736 | 12.736 | 15.919 | 19.103 | 25.471 | 31.839 | 38.207 | 44.574 | 50.942 | 57.310 | 63.678 | 76.414 |
| 84 | – | 10.029 | 13.372 | 13.372 | 16.715 | 20.058 | 26.744 | 33.430 | 40.116 | 46.802 | 53.488 | 60.175 | 66.860 | 80.233 |
| 95 | – | 11.342 | 15.122 | 15.122 | 18.903 | 22.684 | 30.245 | 37.806 | 45.368 | 52.929 | 60.490 | 68.051 | 75.612 | 90.735 |
| 96 | – | 11.461 | 15.282 | 15.252 | 19.102 | 22.922 | 30.563 | 38.204 | 45.845 | 53.485 | 61.126 | 68.767 | 76.408 | 91.690 |
| 102 | – | 12.177 | 16.236 | 16.236 | 20.296 | 24.355 | 32.473 | 40.591 | 48.710 | 56.828 | 64.946 | 73.064 | 81.182 | 97.418 |
| 112 | – | 13.371 | 17.827 | 17.527 | 22.284 | 26.741 | 35.655 | 44.569 | 53.483 | 62.396 | 71.310 | 80.225 | 59.137 | 106.966 |

# Engineering/Technical

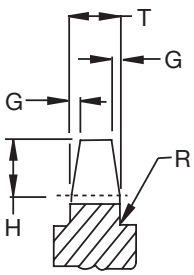
## Sprocket Diameters, Chain Data

| Ref. For Single and Multiple Chain | | | | | | | | | | Nominal Tooth Thickness (T) | | Tolerance on "T" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chain No. | Pitch | Roller Dia. | Roller Width | G | H | K | $M^2$ | $M^3$ | R Max. | Using Single Strand Chain | Using 2 and 3 Strand Chain | For Machined Sprocket * | For Sprocket Which Is Not Machined † | W Side Clearance |
| 35 | 3/8 | .200 | 3/16 | 3/64 | 3/16 | .399 | .561 | .960 | .015 | .168 | .162 | +.000–.008 | +.000–.027 | 3/16 |
| 41 | 1/2 | .306 | 1/4 | 1/16 | 1/4 | – | – | – | .020 | .227 | – | +.000–.009 | +.000–.032 | 7/32 |
| 40 | 1/2 | .312 | 5/16 | 1/16 | 1/4 | .566 | .841 | 1.407 | .020 | .284 | .275 | +.000–.009 | +.000–.035 | 1/4 |
| 50 | 5/8 | .400 | 3/8 | 5/64 | 5/16 | .713 | 1.045 | 1.758 | .025 | .343 | .332 | +.000–.010 | +.000–.036 | 9/32 |
| 60 | 3/4 | .469 | 1/2 | 3/32 | 3/8 | .897 | 1.341 | 2.238 | .030 | .459 | .444 | +.000–.011 | +.000–.036 | 11/32 |
| 80 | 1 | .625 | 5/8 | 1/8 | 1/2 | 1.153 | 1.710 | 2.863 | .040 | .575 | .557 | +.000–.012 | +.000–.040 | 7/16 |
| 100 | 1-1/4 | .750 | 3/4 | 5/32 | 5/8 | 1.408 | 2.077 | 3.485 | .050 | .692 | .669 | +.000–.014 | +.000–.046 | 17/32 |
| 120 | 1-1/2 | .875 | 1 | 3/16 | 3/4 | 1.789 | 2.683 | 4.472 | .060 | .924 | .894 | +.000–.016 | +.000–.057 | 21/32 |
| 140 | 1-3/4 | 1.000 | 1 | 7/32 | 7/8 | 1.924 | 2.818 | 4.742 | .070 | .924 | .894 | +.000–.016 | +.000–.057 | 3/4 |
| 160 | 2 | 1.125 | 1-1/4 | 1/4 | 1 | 2.305 | 3.424 | 5.729 | .080 | 1.156 | 1.119 | +.000–.019 | +.000–.062 | 7/8 |

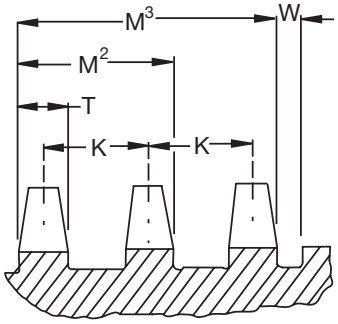
* Represents Type B or C hub type sprocket.

† Represents an "A" plate sprocket or a welded sprocket using an "A" plate.

### Sprockets

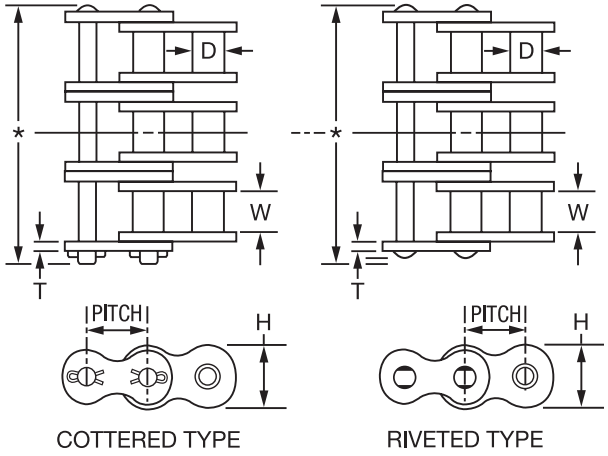



Single Stand




2 and 3 Strand

### Roller Chain




COTTERED TYPE

RIVETED TYPE

### ANSI Standard Roller Chain Dimensions

| ANSI No. | Roller W | Roller D | Inside Link Plate Height | Cottered Chain Width* | Riveted Chain Width* | Average Tensile Strength |
|---|---|---|---|---|---|---|
| 25-2 | 1/8 | .130 | .237 | .37 | .34 | 875 |
| 25-2 | 1/8 | .130 | .237 | .63 | .59 | 1750 |
| 25-3 | 1/8 | .130 | .237 | .88 | .84 | 2626 |
| 35 | 3/16 | .200 | .356 | .56 | .50 | 2100 |
| 35-2 | 3/16 | .200 | .356 | .96 | .90 | 4200 |
| 35-3 | 3/16 | .200 | .356 | 1.36 | 1.31 | 6300 |
| 41 | 1/4 | .306 | .383 | .65 | .57 | 2000 |
| 40 | 5/16 | .312 | .475 | .72 | .67 | 3700 |
| 40-2 | 5/16 | .312 | .475 | 1.29 | 1.24 | 7400 |
| 40-3 | 5/16 | .312 | .475 | 1.85 | 1.80 | 11100 |
| 50 | 3/8 | .400 | .594 | .89 | .83 | 6600 |
| 50-2 | 3/8 | .400 | .594 | 1.60 | 1.55 | 13200 |
| 50-3 | 3/8 | .400 | .594 | 2.31 | 2.26 | 19800 |
| 60 | 1/2 | .469 | .712 | 1.11 | 1.04 | 8500 |
| 60-2 | 1/2 | .469 | .712 | 2.01 | 1.94 | 17000 |
| 60-3 | 1/2 | .469 | .712 | 2.91 | 2.84 | 25500 |
| 80 | 5/8 | .625 | .950 | 1.44 | 1.32 | 14500 |
| 80-2 | 5/8 | .625 | .950 | 2.59 | 2.47 | 29000 |
| 80-3 | 5/8 | .625 | .950 | 3.74 | 3.62 | 43500 |

* Dimensions are across pins.

| ANSI No. | Roller W | Roller D | Inside Link Plate Height | Cottered Chain Width* | Riveted Chain Width* | Average Tensile Strength |
|---|---|---|---|---|---|---|
| 100 | 3/4 | .750 | 1.187 | 1.73 | 1.61 | 24000 |
| 100-2 | 3/4 | .750 | 1.187 | 3.14 | 3.02 | 48000 |
| 100-3 | 3/4 | .750 | 1.187 | 4.56 | 4.43 | 72000 |
| 120 | 1 | .875 | 1.425 | 2.14 | 2.00 | 34000 |
| 120-2 | 1 | .875 | 1.425 | 3.93 | 3.79 | 68000 |
| 120-3 | 1 | .875 | 1.425 | 5.72 | 5.58 | 102000 |
| 140 | 1 | 1.000 | 1.662 | 2.31 | 2.14 | 46000 |
| 140-2 | 1 | 1.000 | 1.662 | 4.24 | 4.07 | 92000 |
| 140-3 | 1 | 1.000 | 1.662 | 6.16 | 6.00 | 138000 |
| 160 | 1-1/4 | 1.125 | 1.900 | 2.73 | 2.54 | 58000 |
| 160-2 | 1-1/4 | 1.125 | 1.900 | 5.04 | 4.85 | 116000 |
| 160-3 | 1-1/4 | 1.125 | 1.900 | 7.35 | 7.16 | 174000 |
| 180 | 1-13/32 | 1.406 | 2.137 | 3.15 | 2.88 | 76000 |
| 180-2 | 1-13/32 | 1.406 | 2.137 | 5.75 | 5.48 | 152000 |
| 180-3 | 1-13/32 | 1.406 | 2.137 | 8.34 | 8.07 | 228000 |
| 200 | 1-1/2 | 1.562 | 2.375 | 3.44 | 3.12 | 95000 |
| 200-2 | 1-1/2 | 1.562 | 2.375 | 6.26 | 5.94 | 190000 |
| 200-3 | 1-1/2 | 1.562 | 2.375 | 9.08 | 8.76 | 285000 |
| 240 | 1-7/8 | 1.875 | 2.812 | 4.06 | 3.72 | 130000 |
| 240-2 | 1-7/8 | 1.875 | 2.812 | 7.52 | 7.18 | 260000 |

# Roller Chain Installation



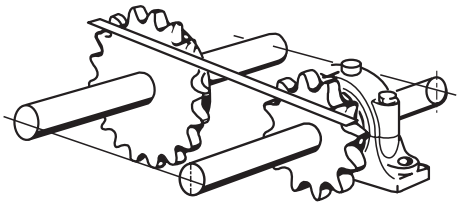
**Shaft Alignment –** Shafts must be parallel. The use of a spirit level is recommended to make sure shafts are horizontal; then, if the distance between the shafts are equal on both sides of the drive, the shafts are parallel. Shafts, bearings and supporting structure should be suitable to maintain this alignment.

**Sprocket Location –** Locate each sprocket as close as possible to a bearing.

**Sprocket Alignment –** Sprockets must be aligned accurately. This can best be accomplished by checking with a straight edge along the finished sides of the sprockets as shown in the drawing.

**Chain Tension –** Chains should be installed fairly tight with only a small amount of slack. In the case of vertical drives the chain should be kept snug. New chains will loosen up slightly as the joints seat themselves, causing initial elongation which is many times greater than the elongation during the balance of the chain life. After the first several weeks of operation it is advisable to adjust the centers, particularly on long center drives. After this initial elongation, with proper care and lubrication, roller chains will give long service without undue elongation or wear.

**Center Distance –** It is desirable to provide some means of adjusting the center distance between sprockets.



This is particularly true with drives of long center distance. When the centers are fixed it is advisable to use an idler sprocket to provide the proper chain tension originally, and also to compensate for natural chain wear.

**Hardened Teeth –** The advantages gained by hardening the teeth of the small sprocket easily offset the hardening cost. Longer life, increased strength, equalized wear between small and large sprockets–all result in lower overall cost to the chain drive user. Hardened steel sprockets are recommended for use under the following conditions: 1. Slow speed, heavily loaded drives where chains and sprockets are selected on the basis of chain tensile strengths; 2. Moderate speed drives where sprockets have 17 teeth or less; 3. High speed drives where sprockets have 25 teeth or less; 4. When speed ratios exceed 4 to 1; 5. When drives are operating exposed to dirty or dusty surroundings.

## Lubrication of Roller Chain Drives

Lubrication of roller chains is essential for effectively minimizing metal-to-metal bearing contact of pin-bushing joints of the chain. Oil should be applied to outside plate and inside plate edges, since access to pin-bushing areas is possible only through clearances between the outside plates and the inside plates. Oil applied on the center line of rollers cannot reach pin-bushing joints.

Chain drives should be protected against dirt and moisture and the oil supply kept free of contamination. Periodic oil change is desirable. A good grade of non-detergent petroleum base oil is recommended. Heavy oils and greases are generally too stiff to enter and fill the chain joints. The following table indicates the proper lubricant viscosity for various surrounding temperatures. For higher temperatures– consult factory.

| Temperature Degrees F. | Recommended Lubricant |
|---|---|
| 20 to 40 | SAE 20 |
| 40 to 100 | SAE 30 |
| 100 to 120 | SAE 40 |
| 120 to 140 | SAE 50 |

The method of lubrication, which is governed by the speed of the chain and the amount of power transmitted, is indicated in the HP Rating Tables. Note that these are minimum lubrication requirements and the use of a better type (for example, Type 4 instead of Type 3) is acceptable and may be beneficial. The four basic types of lubrication indicated are described below.

**Type A–Manual Lubrication –** Oil is applied periodically with a brush or spout can, preferably once every 8 hours of operation. Volume and frequency should be sufficient to prevent discoloration of lubricant in the chain joints.

**Type A – Drip Lubrication –** Oil drops are directed be tween the link plate edges from a drip lubricator, Volume and frequency should be sufficient to prevent discoloration of lubricant in the chain joints. Precaution must be taken against misdirection of the drops by windage.

**Type B – Bath or Disc Lubrication –** With bath lubrication the lower strand of chain runs through a sump of oil in the drive housing. The oil level should reach the pitch line of the chain at its lowest point while operating. With disc lubrication, the chain operates above the oil level. The disc picks up oil from the sump and deposits it onto the chain, usually by means of a trough. The diameter of the disc should be such as to produce rim speeds between 600 fpm minimum and 8000 fpm maximum.

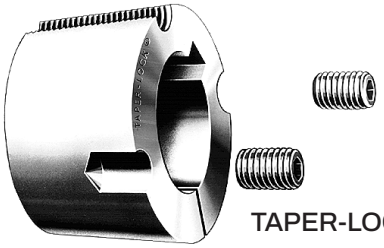
**Type C – Oil Stream Lubrication –** The lubricant is usually supplied by a circulating pump capable of supplying each chain drive with a continuous stream of oil. The oil should be applied inside the chain loop evenly across the chain width, and directed at the lower strand.

# Notes

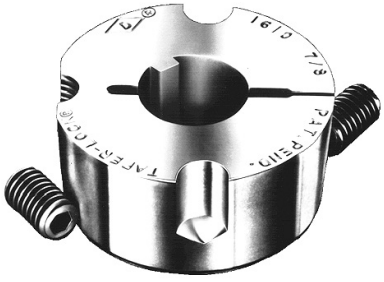
# Bushing Products


**PT6-2** **Taper-Lock**
PT6-2 Taper-Lock Features/Benefits
PT6-3 Taper-Lock Bushings
PT6-13 Taper-Lock Weld-on hubs
**PT6-16** **QD**
PT6-16 QD Features/Benefits
PT6-17 QD Bushings
PT6-27 QD Weld-on hubs
**PT6-28** **Split Taper**

# Features/Benefits
## TAPER-LOCK Bushings



TAPER-LOCK Keyway-type Bushing



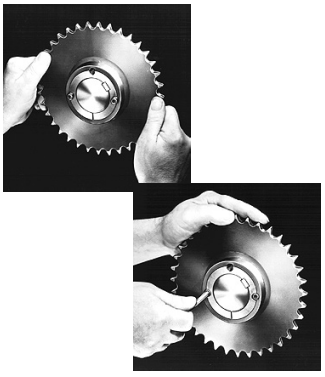
TAPER-LOCK Integral Key Bushing

- Clean, Compact Design
- An Industry Standard for over 40 years
- Easy-on, Easy-off
- 8° Taper-Grips Tight, Holds Tight, Runs True, No Wobble
- Total System Concept: Bushings, Hubs, Adapters and Products
- World-Wide Acceptance and Availability
- Flushing Mounting-No Protruding Parts
- Diamond D Integral Key for Added Value and Convenience

### DODGE TAPER-LOCK BUSHING WITH INTEGRAL KEY

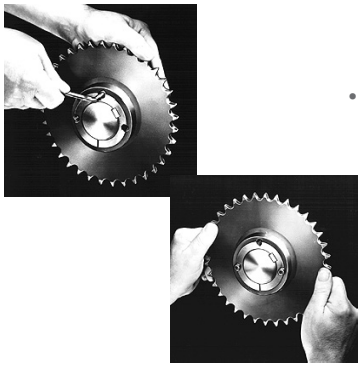
- Popular bore sizes, 1008 thru 2517
- Capitalizes on proven Dodge sintered steel technology
- Convenience: No more fumbling with a separate key and setscrew over the key.
  Integral key cannot work loose or fall out.
- More Secure fit: Clearances between key and bushing are automatically eliminated, providing a more precise fit. Provides full key even in maximum bore sizes...No more "shallow keyseat" compromise.
- Cost Reduction: Eliminates labor cost associated with installing key and separate key, and associated inventory expense.
- Engineered and Tested Design: Integral key concept thoroughly analyzed, including computerized Finite Element Analysis (FEA), for stress evaluation. Extensive laboratory testing included static and dynamic loading on customized machinery. Results demonstrated in successful field applications.

## Simple Mounting



**Easy On**
- Insert bushing into sprocket
- Match holes (not threads).
- Put screws into holes that are farthest apart
- Slip entire unit onto shaft
- Set drive alignment and tighten screws

**Easy Off**
- Take both screws out entirely
- Insert one screw into hole that is threaded in the bushing only
- Use as jackscrew to disengage bushing

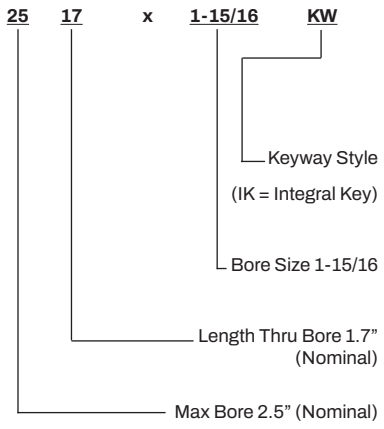


**IMPORTANT!**

Do not use lubricants or anti-seize compounds on tapered bore, bushing suitcase, shaft or screws. Complete installation instructions are available on dodge.ptplace.com

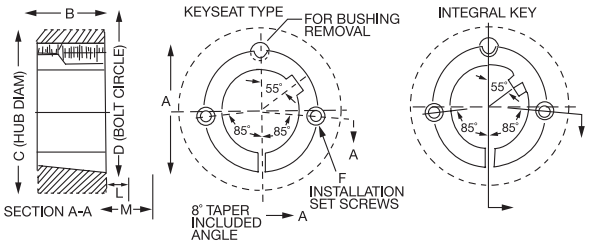
**Example Nomenclature**

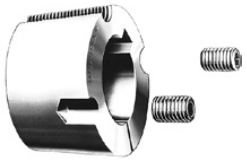
**TAPER-LOCK Bushing**



# Specification

## TAPER-LOCK Bushings - Dimensions

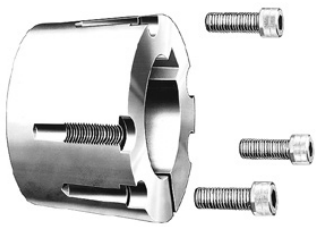


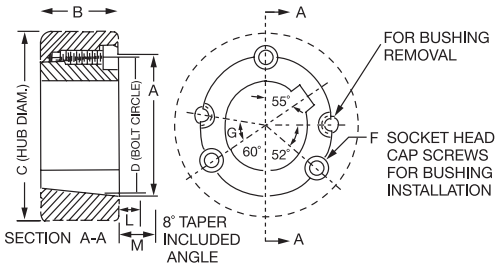



### Dimensions For 1008 Thru 3030 TAPER-LOCK Bushings

| Bush No. | Ratings (LB-IN) Torque Capacity ♦ | Wrench Torque Install Screws | A | B | C Hub Dia ■ CL 30 | Steel | D | F † Qty | Size | L ● Std Hex Key | Short Key ▲ | M ☼ Std. Hex Key | Short Key ▲ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1008 | 1200 | 55 | 1.39 | 0.87 | 2.19 | 1.94 | 1.33 | 2 | 1/4 X 1/2 | 1.13 | 0.63 | 1.25 | 0.75 |
| 1108 | 1300 | 55 | 1.51 | 0.87 | 2.31 | 2.06 | 1.45 | 2 | 1/4 X 1/2 | 1.13 | 0.63 | 1.25 | 0.75 |
| 1210 | 3600 | 175 | 1.87 | 1.00 | 3.25 | 2.88 | 1.75 | 2 | 3/8 X 5/8 | 1.38 | 0.81 | 1.63 | 1.10 |
| 1215 | 3550 | 175 | 1.87 | 1.50 | 2.88 | 2.63 | 1.75 | 2 | 3/8 X 5/8 | 1.38 | 0.81 | 1.63 | 1.10 |
| 1310 | 3850 | 175 | 2.00 | 1.00 | 3.38 | 3.00 | 1.88 | 2 | 3/8 X 5/8 | 1.38 | 0.81 | 1.63 | 1.10 |
| 1610 | 4300 | 175 | 2.25 | 1.00 | 3.63 | 3.25 | 2.13 | 2 | 3/8 X 5/8 | 1.38 | 0.81 | 1.63 | 1.10 |
| 1615 | 4300 | 175 | 2.25 | 1.50 | 3.25 | 3.00 | 2.13 | 2 | 3/8 X 5/8 | 1.38 | 0.81 | 1.63 | 1.10 |
| 2012 | 7150 | 280 | 2.75 | 1.25 | 4.38 | 3.88 | 2.63 | 2 | 7/16 X 7/8 | 1.56 | 0.94 | 2.00 | 1.38 |
| 2517* | 11600 | 430 | 3.38 | 1.75 | 4.88 | 4.38 | 3.25 | 2 | 1/2 X 1 | 1.63 | 1.00 | 2.25 | 1.63 |
| 2525* | 11300 | 430 | 3.38 | 2.50 | 4.50 | 4.25 | 3.25 | 2 | 1/2 X 1 | 1.63 | 1.00 | 2.25 | 1.63 |
| 3020 | 24000 | 800 | 4.25 | 2.00 | 6.25 | 5.63 | 4.00 | 2 | 5/8 X 1-1/4 | 1.81 | 1.19 | 2.69 | 2.10 |
| 3030 | 24000 | 800 | 4.25 | 3.00 | 5.75 | 5.38 | 4.00 | 2 | 5/8 X 1-1/4 | 1.81 | 1.19 | 2.69 | 2.10 |

### 3535 thru 5050 Size






### Dimensions For 3525 Thru 5050 TAPER-LOCK Bushings

| Bush No. | Ratings (LB-IN) Torque Capacity ♦ | Wrench Torque Install Screws | A | B | C Hub Dia ■ CL 30 | Steel | D | F † Qty | Size | G | L ● Std Hex Key | Short Key ▲ | M ☼ Std. Hex Key | Short Key ▲ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3525* | 44800 | 1000 | 5.00 | 2.50 | 7.00 | 6.50 | 4.83 | 3 | 1/2 X 1-1/2 | 39 | 2.00 | 1.31 | 3.38 | 2.69 |
| 3535* | 44800 | 1000 | 5.00 | 3.50 | 7.00 | 6.50 | 4.83 | 3 | 1/2 X 1-1/2 | 39 | 2.00 | 1.31 | 3.38 | 2.69 |
| 4030 | 77300 | 1700 | 5.75 | 3.00 | 8.50 | 7.75 | 5.54 | 3 | 5/8 X 1-3/4 | 39 | 2.39 | 1.63 | 4.13 | 3.38 |
| 4040 | 77300 | 1700 | 5.75 | 4.00 | 8.50 | 7.75 | 5.54 | 3 | 5/8 X 1-3/4 | 40 | 2.39 | 1.63 | 4.13 | 3.38 |
| 4535 | 110000 | 2450 | 6.38 | 3.50 | 9.50 | 8.75 | 6.13 | 3 | 3/4 X 2 | 40 | 2.63 | 1.94 | 4.75 | 4.10 |
| 4545 | 110000 | 2450 | 6.38 | 4.50 | 9.50 | 8.75 | 6.13 | 3 | 3/4 X 2 | 40 | 2.63 | 1.94 | 4.75 | 4.10 |
| 5040 | 126000 | 3100 | 7.00 | 4.00 | 10.50 | 9.50 | 6.72 | 3 | 7/8 X 2-1/4 | 37 | 2.81 | 2.31 | 5.25 | 4.81 |
| 5050 | 126000 | 3100 | 7.00 | 5.00 | 10.50 | 9.50 | 6.72 | 3 | 7/8 X 2-1/4 | 37 | 2.81 | 2.31 | 5.25 | 4.81 |

**Note:** For dimensions required for machining hubs, consult factory.

■ Hub diameter required depends on the application. Hub diameter shown is based on 30,000 P.S.I. minimum ultimate tensile strength.

♦ Important: refer to service factor information on page PT6-4.

● Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

☼ Space required to remove bushing using jackscrews-no puller required

▲ Standard hex key cut to minimum usable length.

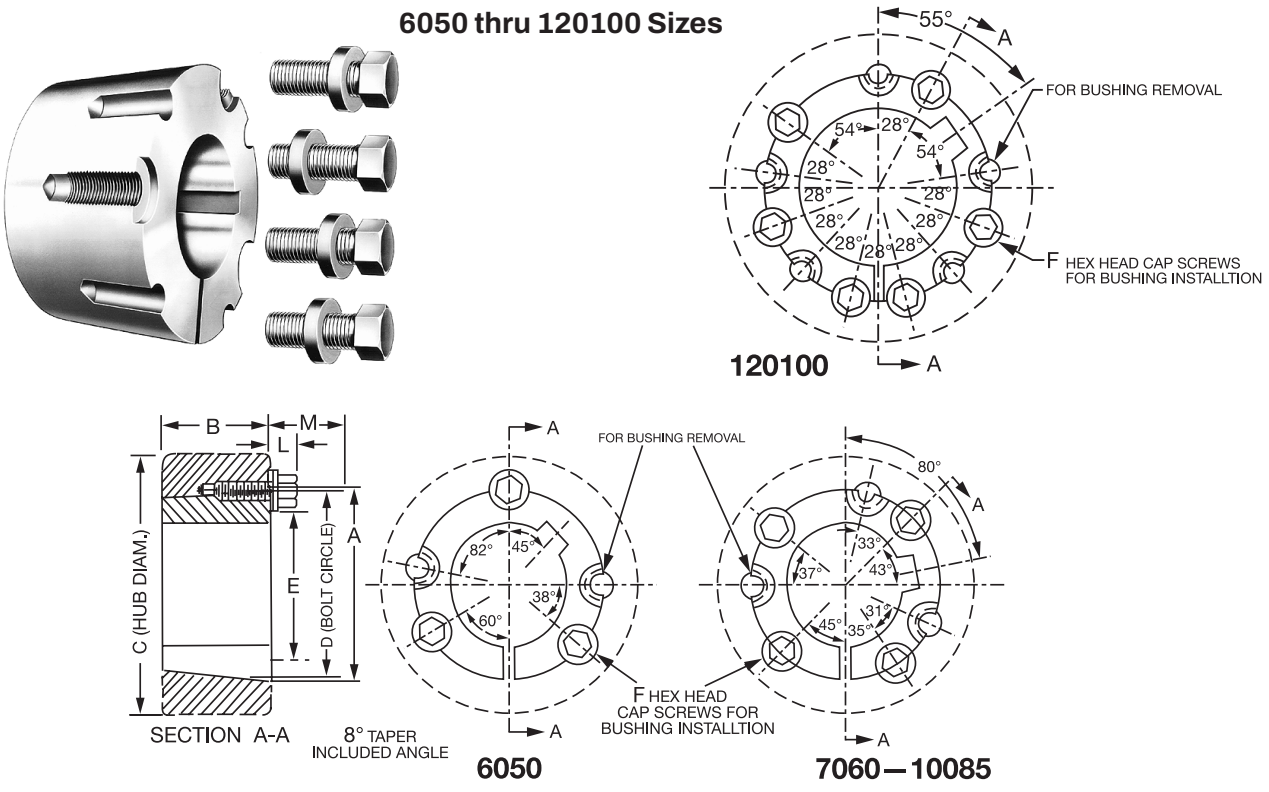
† Use in position shown in drawing above for tightening bushing on shaft. When loosening bushing remove screws and use all except one in the other holes

*These sizes not compatible with BSW hardware.

**Note: Installation and maintenance instructions for Dodge products available at dodge.ptplace.com**

# Specification

## TAPER-LOCK Bushings - Dimensions




### Dimensions For 6050 Thru 120100 TAPER-LOCK Bushings

| Bush No. | Ratings (LB-IN) | | A | B | C Hub Dia | | D | E | F | | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Torque Capacity ♦ | Wrench Torque Install Screws | | | CL 30 | Steel | | | Qty | Size | | |
| 6050 | 282000 | 7820 | 9.25 | 5.00 | 15.50 | 13.50 | 9.00 | 6.75 | 3 | 1-1/4 X 3-1/2 | 1.63 | 4.38 |
| 7060 | 416000 | 7820 | 10.25 | 6.00 | 17.00 | 14.80 | 10.00 | 7.75 | 4 | 1-1/4 X 3-1/2 | 1.63 | 4.38 |
| 8065 | 456000 | 7820 | 11.25 | 6.50 | 17.50 | 15.50 | 11.00 | 8.75 | 4 | 1-1/4 X 3-1/2 | 1.63 | 4.38 |
| 10085 | 869000 | 13700 | 14.75 | 8.50 | 22.00 | 19.50 | 14.50 | 11.75 | 4 | 1-1/2 X 4-1/4 | 2.00 | 5.38 |
| 120100 | 1520000 | 13700 | 17.25 | 10.00 | 26.00 | 23.00 | 17.00 | 14.25 | 6 | 1-1/2 X 4-1/4 | 2.00 | 5.38 |

**Note:** For dimensions required for machining hubs, consult factory.

- ■ Hub diameter required depends on the application. Hub diameter shown is based on 30,000 P.S.I. minimum ultimate tensile strength.
- † Use in position shown in drawing above for tightening bushing on shaft. When loosening bushing remove screws and use all except one in the other holes.
- • Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.
- ☼ Space required to loosen bushing using screws as jackscrews - no puller required.
- ♦ Peak torque loads must not exceed torque capacity rating shown. Capacity values shown are for light starting and steady running conditions. For more severe duty, divide torque capacity by service factor suggested in following table.

| Service Factor | Type of Loading |
|---|---|
| 1.00 | Light Starting and Steady Running |
| 1.50 | Light Starting and Uneven Running |
| 2.00 | Fairly Heavy Starting and Steady Or Uneven Running |
| 2.50 | Light or Heavy Starting and Moderate Shock Running |
| 3.00 | Light or Heavy Starting and Severe Shock Running, or Reversing Loads |

# Specification

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore | P/N Integral Key | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|---|
| | 1/2" | | 119176 | 0.3 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16" | | 119177 | 0.3 | | | |
| | 5/8" | | 117073 | 0.3 | | | |
| | 11/16" | | 119179 | 0.2 | | | |
| | 3/4" | 119180 | 117150 | 0.2 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 13/16" | | 119181 | 0.2 | | | |
| | 7/8" | 119182 | 117074 | 0.2 | | | |
| | 15/16" # | | 119183 | 0.2 | 1/4 x 1/16 | 1/4 x 1/8 | 1/4 x 3/16 Δ |
| 1008 | 1" # | 119184 | 117151 | 0.2 | | | |
| | 14 mm | | 119565 | 0.3 | 5 x 2.3 mm | 5 x 5.3 mm | 5 x 5 mm |
| | 16 mm | | 119566 | 0.3 | | | |
| | 18 mm | | 119575 | 0.3 | 6 x 2.8 mm | 6 x 3.5 mm | 6 x 6 mm |
| | 19 mm | | 119569 | 0.3 | | | |
| | 20 mm | | 119576 | 0.3 | | | |
| | 22 mm | | 119577 | 0.2 | | | |
| | 24 mm | | 119567 | 0.2 | 8 x 1.3 mm | 8 x 4 mm | 8 X 5 mm Δ |
| | 25 mm | | 119578 | 0.2 | | | |
| | 1/2" | | 119365 | 0.3 | 1/8 x 1/4 | 1/8 x 1/4 | 1/8 x 1/8 |
| | 9/16" | | 119366 | 0.3 | | | |
| | 5/8" | 119367 | 117075 | 0.3 | | | |
| | 11/16" | | 119368 | 0.2 | | | |
| | 3/4" | | 117152 | 0.2 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 13/16" | | 119370 | 0.2 | | | |
| | 7/8" | 119371 | 117076 | 0.2 | | | |
| | 15/16" | | 119372 | 0.2 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1" | | 117153 | 0.2 | | | |
| 1108 | 1-1/16" # | | 119374 | 0.2 | 1/4 x 1/16 | 1/4 x 1/8 | 1/4 x 3/16 Δ |
| | 1-1/8" # | | 117077 | 0.1 | | | |
| | 14 mm | | 119651 | 0.3 | 5 x 2.3 mm | 5 x 5.3 mm | 5 x 5 mm |
| | 16 mm | | 119652 | 0.3 | | | |
| | 18 mm | | 119653 | 0.3 | 6 x 2.8 mm | 6 x 3.5 mm | 6 x 6 mm |
| | 19 mm | | 119570 | 0.3 | | | |
| | 20 mm | | 119579 | 0.3 | | | |
| | 22 mm | | 119580 | 0.3 | | | |
| | 24 mm | | 119581 | 0.2 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 25 mm | | 119582 | 0.2 | | | |
| | 1/2" | | 119191 | 0.6 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16" | | 119192 | 0.6 | | | |
| | 5/8" | | 117078 | 0.6 | | | |
| | 11/16" | | 119194 | 0.5 | | | |
| | 3/4" | 119195 | 117154 | 0.5 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 13/16" | | 119196 | 0.5 | | | |
| | 7/8" | 119197 | 117079 | 0.5 | | | |
| | 15/16" | | 119198 | 0.5 | | | |
| | 1" | 119199 | 117155 | 0.5 | | | |
| | 1-1/16" | | 119200 | 0.4 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1-1/8" | 119201 | 117080 | 0.4 | | | |
| 1210 | 1-3/16" | | 117156 | 0.4 | | | |
| | 1-1/4" | | 117157 | 0.4 | | | |
| | 14 mm | | 119583 | 0.6 | 5 x 2.3 mm | 5 x 5.3 mm | 5 x 5 mm |
| | 16 mm | | 119654 | 0.6 | | | |
| | 18 mm | | 119584 | 0.5 | 6 x 2.8 mm | 6 x 3.5 mm | 6 x 6 mm |
| | 19 mm | | 119571 | 0.5 | | | |
| | 20 mm | | 119585 | 0.5 | | | |
| | 22 mm | | 119655 | 0.5 | | | |
| | 24 mm | | 119586 | 0.5 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 25 mm | | 119587 | 0.4 | | | |
| | 28 mm | | 119588 | 0.4 | | | |
| | 30 mm | | 119589 | 0.4 | | | |
| | 32 mm | | 119590 | 0.4 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |

Δ Key furnished for these sizes ONLY

\+ These sizes are STEEL

\# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult Dodge

| TL Bush Size | Bore | P/N Integral Key | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|---|
| | 1/2" | | 119001 | 0.9 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16" | | 119002 | 0.9 | | | |
| | 5/8" | | 119003 | 0.8 | | | |
| | 11/16" | | 119004 | 0.8 | | | |
| | 3/4" | | 119005 | 0.8 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 13/16" | | 119006 | 0.8 | | | |
| 1215 | 7/8" | | 119007 | 0.8 | | | |
| | 15/16" | | 119008 | 0.8 | | | |
| | 1" | | 119009 | 0.7 | | | |
| | 1-1/16" | | 119010 | 0.6 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1-1/8" | | 119011 | 0.6 | | | |
| | 1-3/16" | | 119012 | 0.5 | | | |
| | 1-1/4" | | 119013 | 0.5 | | | |
| | 1/2" | | 119390 | 0.7 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16" | | 119391 | 0.7 | | | |
| | 5/8" | | 119392 | 0.7 | | | |
| | 11/16" | | 119393 | 0.7 | | | |
| | 3/4" | | 119394 | 0.7 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 13/16" | | 119395 | 0.7 | | | |
| | 7/8" | | 119396 | 0.7 | | | |
| | 15/16" | | 119397 | 0.6 | | | |
| | 1" | | 119398 | 0.6 | | | |
| | 1-1/16" | | 119399 | 0.6 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1-1/8" | | 119400 | 0.6 | | | |
| | 1-3/16" | | 119401 | 0.6 | | | |
| | 1-1/4" | | 119402 | 0.6 | | | |
| 1310 | 1-5/16" # | | 119403 | 0.6 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" # | | 119404 | 0.6 | | | |
| | 1-7/16" + | | 119438 | 0.6 | 3/8 x 1/8 | 3/8 x 3/16 | 3/8 x 5/16 Δ |
| | 14 mm | | 119656 | 0.7 | 5 x 2.3 mm | 5 x 5.3 mm | 5 x 5 mm |
| | 16 mm | | 119657 | 0.7 | | | |
| | 18 mm | | 119658 | 0.7 | 6 x 2.8 mm | 6 x 3.5 mm | 6 x 6 mm |
| | 19 mm | | 119572 | 0.7 | | | |
| | 20 mm | | 119659 | 0.6 | | | |
| | 22 mm | | 119660 | 0.6 | | | |
| | 24 mm | | 119591 | 0.6 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 25 mm | | 119592 | 0.5 | | | |
| | 28 mm | | 119593 | 0.5 | | | |
| | 30 mm | | 119594 | 0.5 | | | |
| | 32 mm | | 119595 | 0.4 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |
| | 35 mm | | 119596 | 0.4 | | | |
| | 1/2" | | 119211 | 0.9 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16" | | 119212 | 0.9 | | | |
| | 5/8" | 119213 | 117081 | 0.9 | | | |
| | 11/16" | | 119214 | 0.9 | | | |
| | 3/4" | 119215 | 117158 | 0.9 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 13/16" | | 119216 | 0.9 | | | |
| | 7/8" | 119217 | 117082 | 0.8 | | | |
| | 15/16" | | 117083 | 0.8 | | | |
| | 1" | 119219 | 117159 | 0.8 | | | |
| | 1-1/16" | | 119220 | 0.8 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1-1/8" | 119221 | 117084 | 0.7 | | | |
| 1610 | 1-3/16" | 119222 | 117160 | 0.7 | | | |
| | 1-1/4" | 119223 | 117161 | 0.7 | | | |
| | 1-5/16" | | 119224 | 0.6 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | 119225 | 117085 | 0.6 | | | |
| | 1-7/16" | 119226 | 117162 | 0.6 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | 119227 | 117163 | 0.5 | | | |
| | 1-9/16" # | | 119228 | 0.5 | | | |
| | 1-5/8" # | 119229 | 117086 | 0.5 | 3/8 x 1/8 | 3/8 x 3/16 | 3/8 x 5/16 Δ |
| | 1-11/16" + | | 117071 | 0.5 | | | |
| | 14 mm | | 119661 | 0.9 | 5 x 2.3 mm | 5 x 5.3 mm | 5 x 5 mm |
| | 16 mm | | 119662 | 0.9 | | | |

# Specification

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore | P/N Integral Key | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|---|
| 1610 (cont) | 18 mm | | 119663 | 0.9 | 6 x 2.8 mm | 6 x 3.5 mm | 6 x 6 mm |
| | 19 mm | | 119573 | 0.8 | | | |
| | 20 mm | | 119598 | 0.8 | | | |
| | 22 mm | | 119236 | 0.8 | | | |
| | 24 mm | | 119599 | 0.8 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 25 mm | | 119600 | 0.7 | | | |
| | 28 mm | | 119601 | 0.7 | | | |
| | 30 mm | | 119602 | 0.7 | | | |
| | 32 mm | | 119603 | 0.6 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |
| | 35 mm | | 119604 | 0.6 | | | |
| | 38 mm | | 119605 | 0.5 | | | |
| | 40 mm | | 119606 | 0.5 | 12 X 3.3 mm | 12 X 5 mm | 12 X 8 mm |
| | 42 mm + | | 393002 | 0.5 | | | |
| 1615 | 1/2" | | 119040 | 1.3 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16" | | 119041 | 1.3 | | | |
| | 5/8" | | 119042 | 1.3 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 11/16" | | 119043 | 1.2 | | | |
| | 3/4" | | 119044 | 1.2 | | | |
| | 13/16" | | 119045 | 1.2 | | | |
| | 7/8" | | 119046 | 1.1 | | | |
| | 15/16" | | 119047 | 1.1 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1" | | 119048 | 1.1 | | | |
| | 1-1/16" | | 119049 | 1 | | | |
| | 1-1/8" | | 119050 | 1 | | | |
| | 1-3/16" | | 119051 | 1 | | | |
| | 1-1/4" | | 119052 | 0.9 | | | |
| | 1-5/16" | | 119053 | 0.8 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | | 119054 | 0.8 | | | |
| | 1-7/16" | | 119055 | 0.7 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | | 119056 | 0.7 | | | |
| | 1-9/16" # | | 119057 | 0.7 | 3/8 x 1/8 | 3/8 x 3/16 | 3/8 x 5/16 Δ |
| | 1-5/8" # | | 119058 | 0.6 | | | |
| | 1-11/16" + | | 119068 | 0.6 | | | |
| | 25 mm | | 119039 | 0.7 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 35 mm | | 119038 | 0.7 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |
| 2012 | 1/2" | | 119241 | 1.7 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16" | | 119242 | 1.7 | | | |
| | 5/8" | | 117087 | 1.7 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 11/16" | | 119244 | 1.7 | | | |
| | 3/4" | | 117088 | 1.7 | | | |
| | 13/16" | | 119246 | 1.7 | | | |
| | 7/8" | | 117089 | 1.6 | | | |
| | 15/16" | | 119248 | 1.6 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1" | 119249 | 117164 | 1.6 | | | |
| | 1-1/16" | | 119250 | 1.6 | | | |
| | 1-1/8" | | 117090 | 1.5 | | | |
| | 1-3/16" | 119252 | 117165 | 1.5 | | | |
| | 1-1/4" | 119253 | 117166 | 1.4 | | | |
| | 1-5/16" | | 119254 | 1.3 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | | 117091 | 1.2 | | | |
| | 1-7/16" | 119256 | 117167 | 1.2 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | 119257 | 117168 | 1.2 | | | |
| | 1-9/16" | | 119258 | 1.2 | | | |
| | 1-5/8" | | 117092 | 1.2 | | | |
| | 1-11/16" | | 117093 | 1.1 | | | |
| | 1-3/4" | | 117094 | 1 | | | |
| | 1-13/16" | | 119262 | 1 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | | 117095 | 0.9 | | | |

Δ Key furnished for these sizes ONLY

\+ These sizes are STEEL

\# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult Dodge

| TL Bush Size | Bore | P/N Integral Key | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|---|
| 2012 (cont) | 1-15/16" # | | 117169 | 0.9 | 1/2 x 3/16 | 1/2 x 1/4 | 1/2 x 7/16 Δ |
| | 2" # | | 117170 | 0.9 | | | |
| | 2-1/8" + | | 117177 | 0.9 | | | |
| | 14 mm | | 119664 | 1.7 | 5 x 2.3 mm | 5 x 5.3 mm | 5 x 5 mm |
| | 16 mm | | 119665 | 1.7 | | | |
| | 18 mm | | 119666 | 1.6 | 6 x 2.8 mm | 6 x 3.5 mm | 6 x 6 mm |
| | 19 mm | | 119574 | 1.6 | | | |
| | 20 mm | | 119607 | 1.6 | | | |
| | 22 mm | | 119667 | 1.6 | | | |
| | 24 mm | | 119608 | 1.5 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 25 mm | | 119609 | 1.5 | | | |
| | 28 mm | | 119610 | 1.5 | | | |
| | 30 mm | | 119611 | 1.4 | | | |
| | 32 mm | | 119612 | 1.4 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |
| | 35 mm | | 119613 | 1.3 | | | |
| | 38 mm | | 119614 | 1.3 | | | |
| | 40 mm | | 119615 | 1.2 | 12 X 3.3 mm | 12 X 5 mm | 12 X 8 mm |
| | 42 mm | | 119616 | 1.1 | | | |
| | 45 mm | | 119617 | 1 | 14 X 3.8 mm | 14 X 5.5 mm | 14 X 9 mm |
| | 48 mm | | 119668 | 0.9 | | | |
| 2517 | 1/2" | | 119100 | 3.7 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 5/8" | | 119102 | 3.6 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 11/16" | | 119103 | 3.5 | | | |
| | 3/4" | | 119104 | 3.4 | | | |
| | 13/16" | | 119105 | 3.4 | | | |
| | 7/8" | | 119106 | 3.3 | | | |
| | 15/16" | | 119107 | 3.3 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1" | | 119108 | 3.3 | | | |
| | 1-1/16" | | 119109 | 3.2 | | | |
| | 1-1/8" | | 119110 | 3.2 | | | |
| | 1-3/16" | | 119111 | 3.2 | | | |
| | 1-1/4" | | 119112 | 3.2 | | | |
| | 1-5/16" | | 119113 | 3.1 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | | 119114 | 3.1 | | | |
| | 1-7/16" | | 119115 | 3 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | | 119116 | 2.9 | | | |
| | 1-9/16" | | 119117 | 2.9 | | | |
| | 1-5/8" | 119144 | 119118 | 2.8 | | | |
| | 1-11/16" | | 119119 | 2.8 | | | |
| | 1-3/4" | | 119120 | 2.7 | | | |
| | 1-13/16" | | 119121 | 2.6 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | | 119122 | 2.5 | | | |
| | 1-15/16" | 119123 | 117173 | 2.4 | | | |
| | 2" | 119124 | 117174 | 2.3 | | | |
| | 2-1/16" | | 119125 | 2.3 | | | |
| | 2-1/8" | | 117096 | 2.2 | | | |
| | 2-3/16" | | 117175 | 2.1 | | | |
| | 2-1/4" | | 117097 | 2 | | | |
| | 2-5/16" | | 119129 | 1.9 | 5/8 x 3/16 | 5/8 x 5/16 | 5/8 x 1/2 Δ |
| | 2-3/8" | | 117098 | 1.9 | | | |
| | 2-7/16" # | | 117176 | 1.8 | | | |
| | 2-1/2" # | | 117099 | 1.8 | | | |
| | 2-5/8" + | | 117111 | 1.8 | | | |
| | 2-11/16" + | | 117115 | 1.8 | | | |
| | 14 mm | | 119669 | 3.6 | 5 x 2.3 mm | 5 x 5.3 mm | 5 x 5 mm |
| | 16 mm | | 119670 | 3.6 | | | |
| | 18 mm | | 119671 | 3.5 | 6 x 2.8 mm | 6 x 3.5 mm | 6 x 6 mm |
| | 19 mm | | 119672 | 3.4 | | | |
| | 20 mm | | 119618 | 3.4 | | | |
| | 22 mm | | 119619 | 3.3 | | | |
| | 24 mm | | 119620 | 3.3 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 25 mm | | 119621 | 3.2 | | | |
| | 28 mm | | 119622 | 3.1 | | | |
| | 30 mm | | 119623 | 3.1 | | | |

# Specification

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore | P/N Integral Key | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|---|
| 2517 (cont) | 32 mm | | **119624** | 3 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |
| | 35 mm | | **119625** | 2.9 | | | |
| | 38 mm | | **119626** | 2.9 | | | |
| | 40 mm | | **119627** | 2.8 | 12 X 3.3 mm | 12 X 5 mm | 12 X 8 mm |
| | 42 mm | | **119628** | 2.6 | | | |
| | 45 mm | | **119629** | 2.5 | 14 X 3.8 mm | 14 X 5.5 mm | 14 X 9 mm |
| | 48 mm | | **119630** | 2.4 | | | |
| | 50 mm | | **119640** | 2.3 | | | |
| | 55 mm | | **119641** | 2 | 16 X 4.3 mm | 16 X 6 mm | 16 X 10 mm |
| | 60 mm | | **119642** | 1.7 | 18 X 4.4 mm | 18 X 7 mm | 18 X 11 mm |
| | 65 mm | | **119643** | 1.4 | | | |

| TL Bush Size | Bore | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| 2525 | 3/4" | **119304** | 4.9 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 7/8" | **119306** | 4.8 | | | |
| | 15/16" | **119307** | 4.8 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1" | **119308** | 4.8 | | | |
| | 1-1/8" | **119310** | 4.6 | | | |
| | 1-3/16" | **119311** | 4.5 | | | |
| | 1-1/4" | **119312** | 4.4 | | | |
| | 1-3/8" | **119314** | 4.2 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-7/16" | **119315** | 4.2 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **119316** | 4 | | | |
| | 1-5/8" | **119318** | 3.8 | | | |
| | 1-11/16" | **119319** | 3.8 | | | |
| | 1-3/4" | **119320** | 3.7 | | | |
| | 1-13/16" | **119321** | 3.2 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | **119322** | 3.4 | | | |
| | 1-15/16" | **119323** | 3.2 | | | |
| | 2" | **119324** | 3.1 | | | |
| | 2-1/8" | **119326** | 2.9 | | | |
| | 2-3/16" | **119327** | 2.5 | | | |
| | 2-1/4" | **119328** | 2.3 | 5/8 x 3/16 | 5/8 x 5/16 | 5/8 x 1/2 Δ |
| | 2-5/16" | **119329** | 2 | | | |
| | 2-3/8" | **119330** | 2 | | | |
| | 2-7/16" | **119331** | 2 | | | |
| | 2-1/2" | **119332** | 2 | | | |
| 3020 | 7/8" | **117103** | 6.5 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 15/16" | **117101** | 6.5 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1" | **117102** | 6.5 | | | |
| | 1-1/8" | **117104** | 6.4 | | | |
| | 1-3/16" | **117105** | 6.4 | | | |
| | 1-1/4" | **117106** | 6.3 | | | |
| | 1-5/16" | **117107** | 6.1 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | **117108** | 6 | | | |
| | 1-7/16" | **117109** | 6 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **117110** | 5.9 | | | |
| | 1-9/16" | **117135** | 5.9 | | | |
| | 1-5/8" | **117112** | 5.9 | | | |
| | 1-11/16" | **117113** | 5.7 | | | |
| | 1-3/4" | **117114** | 5.6 | | | |
| | 1-13/16" | **117136** | 5.5 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | **117116** | 5.4 | | | |
| | 1-15/16" | **117117** | 5.3 | | | |
| | 2" | **117118** | 5.2 | | | |
| | 2-1/16" | **117119** | 5 | | | |
| | 2-1/8" | **117120** | 5 | | | |
| | 2-3/16" | **117121** | 4.9 | | | |
| | 2-1/4" | **117122** | 4.8 | | | |

Δ Key furnished for these sizes ONLY

\+ These sizes are STEEL

\# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult Dodge

| TL Bush Size | Bore | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| 3020 (cont) | 2-5/16" | **117137** | 4.6 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8" | **117124** | 4.5 | | | |
| | 2-7/16" | **117125** | 4.4 | | | |
| | 2-1/2" | **117126** | 4.3 | | | |
| | 2-5/8" | **117128** | 4 | | | |
| | 2-11/16" | **117129** | 3.9 | | | |
| | 2-3/4" | **117130** | 3.7 | | | |
| | 2-13/16" | **117139** | 3.7 | 3/4 x 1/8 | 3/4 x 3/8 | 3/4 x 1/2 Δ |
| | 2-7/8" | **117132** | 3.6 | | | |
| | 2-15/16" # | **117133** | 3.6 | | | |
| | 3" # | **117134** | 3.4 | | | |
| | 3-1/8" + | **117178** | 3.3 | 3/4 x 1/4 | 3/4 x 3/8 | 3/4 x 5/8 Δ |
| | 3-3/16" + | **117179** | 3.3 | | | |
| | 3-1/4" + | **117180** | 3.3 | | | |
| | 24 mm | **119673** | 6.5 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 25 mm | **119674** | 6.5 | | | |
| | 28 mm | **119675** | 6.4 | | | |
| | 30 mm | **119676** | 6.4 | | | |
| | 32 mm | **119677** | 6.3 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |
| | 35 mm | **119678** | 6 | | | |
| | 38 mm | **119679** | 5.9 | | | |
| | 40 mm | **119680** | 5.9 | 12 X 3.3 mm | 12 X 5 mm | 12 X 8 mm |
| | 42 mm | **119681** | 5.8 | | | |
| | 45 mm | **119682** | 5.6 | 14 X 3.8 mm | 14 X 5.5 mm | 14 X 9 mm |
| | 48 mm | **119644** | 5.5 | | | |
| | 50 mm | **119645** | 5.2 | | | |
| | 55 mm | **119646** | 5 | 16 X 4.3 mm | 16 X 6 mm | 16 X 10 mm |
| | 60 mm | **119647** | 4.9 | 18 X 4.4 mm | 18 X 7 mm | 18 X 11 mm |
| | 65 mm | **119648** | 4.3 | | | |
| | 70 mm | **119649** | 3.7 | 20 X 4.9 mm | 20 X 7.5 mm | 20 X 12 mm |
| | 75 mm | **119650** | 3.5 | | | |
| | 80 mm + | **117721** | 4 | 22 X 5.4 mm | 22 X 9 mm | 22 X 14 mm |
| 3030 | 15/16" | **117004** | 10 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1" | **117005** | 9.4 | | | |
| | 1-1/8" | **117007** | 9.4 | | | |
| | 1-3/16" | **117008** | 9.2 | | | |
| | 1-1/4" | **117009** | 9 | | | |
| | 1-5/16" | **117010** | 8.9 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | **117011** | 8.8 | | | |
| | 1-7/16" | **117012** | 8.6 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **117013** | 8.5 | | | |
| | 1-9/16" | **117014** | 8.4 | | | |
| | 1-5/8" | **117015** | 8.2 | | | |
| | 1-11/16" | **117016** | 8 | | | |
| | 1-3/4" | **117017** | 7.8 | | | |
| | 1-13/16" | **117018** | 7.6 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | **117019** | 7.5 | | | |
| | 1-15/16" | **117020** | 7.4 | | | |
| | 2" | **117021** | 7.3 | | | |
| | 2-1/16" | **117022** | 7.2 | | | |
| | 2-1/8" | **117023** | 7.1 | | | |
| | 2-3/16" | **117024** | 6.9 | | | |
| | 2-1/4" | **117025** | 6.7 | | | |
| | 2-5/16" | **117026** | 6.6 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8" | **117027** | 6.4 | | | |
| | 2-7/16" | **117028** | 6.2 | | | |
| | 2-1/2" | **117029** | 6.1 | | | |
| | 2-5/8" | **117031** | 6 | | | |
| | 2-11/16" | **117032** | 5.9 | | | |
| | 2-3/4" | **117033** | 5.6 | | | |
| | 2-7/8" | **117035** | 5.3 | 3/4 x 1/8 | 3/4 x 3/8 | 3/4 x 1/2 Δ |
| | 2-15/16" # | **117036** | 5 | | | |
| | 3" # | **117037** | 4.9 | | | |
| | 3-1/8" + | **117181** | 4.7 | | | |
| | 3-3/16" + | **117182** | 4.7 | | | |
| | 3-1/4" + | **117183** | 4.7 | 3/4 x 1/4 | 3/4 x 3/8 | 3/4 x 5/8 Δ |
| | 28 mm | **119808** | 9.4 | 8 X 3.3 mm | 8 X 4 mm | 8 X 7 mm |
| | 32 mm | **119809** | 9 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |
| | 38 mm | **119810** | 8.4 | | | |
| | 48 mm | **119811** | 7.6 | 14 X 3.8 mm | 14 X 5.5 mm | 14 X 9 mm |

# Specification

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| 3030 (cont) | 55 mm | **119812** | 6.9 | 16 X 4.3 mm | 16 X 6 mm | 16 X 10 mm |
| | 60 mm | **119813** | 6.4 | 18 X 4.4 mm | 18 X 7 mm | 18 X 11 mm |
| | 80 mm + | **119895** | 4 | 22 X 5.4 mm | 22 X 9 mm | 22 X 14 mm |
| 3525 | 1-3/16" | **119702** | 16 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1-1/4" | **119703** | 14.6 | | | |
| | 1-5/16" | **119791** | 14.6 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | **119704** | 14.3 | | | |
| | 1-7/16" | **119734** | 14.2 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **119705** | 14 | | | |
| | 1-9/16" | **119792** | 14 | | | |
| | 1-5/8" | **119735** | 14 | | | |
| | 1-11/16" | **119706** | 13.9 | | | |
| | 1-3/4" | **119707** | 13.4 | | | |
| | 1-13/16" | **119793** | 13.3 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | **119708** | 13.2 | | | |
| | 1-15/16" | **119709** | 13 | | | |
| | 2" | **119710** | 13 | | | |
| | 2-1/8" | **119711** | 12.6 | | | |
| | 2-3/16" | **119712** | 12.4 | | | |
| | 2-1/4" | **119713** | 12.3 | | | |
| | 2-5/16" | **119736** | 12.2 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8" | **119714** | 12 | | | |
| | 2-7/16" | **119715** | 11.7 | | | |
| | 2-1/2" | **119716** | 11.5 | | | |
| | 2-9/16" | **119795** | 11.4 | | | |
| | 2-5/8" | **119717** | 11.1 | | | |
| | 2-11/16" | **119718** | 10.7 | | | |
| | 2-3/4" | **119719** | 10.4 | | | |
| | 2-13/16" | **119796** | 10.3 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-7/8" | **119720** | 10.1 | | | |
| | 2-15/16" | **119721** | 10.5 | | | |
| | 3" | **119722** | 9.5 | | | |
| | 3-1/16" | **119797** | 9.4 | | | |
| | 3-1/8" | **119723** | 9.3 | | | |
| | 3-3/16" | **119724** | 8.6 | | | |
| | 3-1/4" | **119725** | 8.8 | | | |
| | 3-5/16" | **119737** | 8.6 | 7/8 x 1/8 | 7/8 x 7/16 | 7/8 x 9/16 Δ |
| | 3-3/8" | **119726** | 8.5 | 7/8 x 3/16 | 7/8 x 7/16 | 7/8 x 5/8 Δ |
| | 3-7/16" | **119727** | 8.2 | | | |
| | 3-1/2" | **119728** | 8 | | | |
| | 3-9/16" | **119798** | 8 | | | |
| | 3-5/8" # | **119729** | 7.9 | | | |
| | 3-11/16" # | **119730** | 7.9 | | | |
| | 3-3/4" # | **119731** | 7.9 | | | |
| | 3-13/16" # | **119799** | 7.9 | 1 x 1/4 | 1 x 1/2 | 1 x 3/4 Δ |
| | 3-7/8" # | **119732** | 7.9 | | | |
| | 3-15/16" # | **119733** | 7.9 | | | |
| 3535 | 1-3/16" | **117207** | 15.2 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1-1/4" | **117208** | 14.9 | | | |
| | 1-3/8" | **117209** | 14.8 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-7/16" | **117210** | 14.6 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **117211** | 14.4 | | | |
| | 1-5/8" | **117212** | 14.1 | | | |
| | 1-11/16" | **117213** | 14 | | | |
| | 1-3/4" | **117214** | 14 | | | |
| | 1-7/8" | **117215** | 13.6 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-15/16" | **117216** | 13.4 | | | |
| | 2" | **117217** | 13.1 | | | |
| | 2-1/8" | **117218** | 12.6 | | | |
| | 2-3/16" | **117219** | 12.4 | | | |
| | 2-1/4" | **117220** | 12.2 | | | |

Δ Key furnished for these sizes ONLY

\+ These sizes are STEEL

\# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult Dodge

| TL Bush Size | Bore | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| 3535 (cont) | 2-5/16" | **117237** | 12 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8" | **117221** | 11.7 | | | |
| | 2-7/16" | **117222** | 11.7 | | | |
| | 2-1/2" | **117223** | 11 | | | |
| | 2-5/8" | **117224** | 10.9 | | | |
| | 2-11/16" | **117225** | 10.7 | | | |
| | 2-3/4" | **117226** | 10 | | | |
| | 2-7/8" | **117227** | 9.8 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-15/16" | **117228** | 9.7 | | | |
| | 3" | **117229** | 9.2 | | | |
| | 3-1/8" | **117230** | 9.2 | | | |
| | 3-3/16" | **117231** | 8.8 | | | |
| | 3-1/4" | **117232** | 8.7 | | | |
| | 3-5/16" | **117236** | 8.6 | 7/8 x 1/8 | 7/8 x 7/16 | 7/8 x 9/16 Δ |
| | 3-3/8" | **117233** | 8.7 | 7/8 x 3/16 | 7/8 x 7/16 | 7/8 x 5/8 Δ |
| | 3-7/16" | **117234** | 8.3 | | | |
| | 3-1/2" | **117235** | 8 | | | |
| | 3-5/8" # | **117707** | 7.1 | 7/8 x 1/4 | 7/8 x 7/16 | 7/8 x 11/16 Δ |
| | 3-11/16" # | **117708** | 6.8 | 7/8 x 3/16 | 7/8 x 7/16 | 7/8 x 5/8 Δ |
| | 3-3/4" # | **117709** | 6.4 | | | |
| | 3-7/8" # | **117710** | 6 | 1 x 1/4 | 1 x 1/2 | 1 x 3/4 Δ |
| | 3-15/16" # | **117703** | 5.6 | | | |
| | 32 mm | **119814** | 14.6 | 10 X 3.3 mm | 10 X 5 mm | 10 X 8 mm |
| | 38 mm | **119815** | 14 | | | |
| | 48 mm | **119816** | 13.2 | 14 X 3.8 mm | 14 X 5.5 mm | 14 X 9 mm |
| | 50 mm | **117738** | 13 | | | |
| | 55 mm | **119817** | 11.1 | 16 X 4.3 mm | 16 X 6 mm | 16 X 10 mm |
| | 60 mm | **119683** | 11.1 | 18 X 4.4 mm | 18 X 7 mm | 18 X 11 mm |
| | 65 mm | **117737** | 11 | | | |
| | 75 mm | **117722** | 10 | 20 X 4.9 mm | 20 X 7.5 mm | 20 X 12 mm |
| | 80 mm | **117297** | 10 | 22 X 5.4 mm | 22 X 9 mm | 22 X 14 mm |
| | 85 mm | **393170** | 10 | | | |
| | 90 mm | **426013** | 10 | 25 X 5.4 mm | 25 X 9 mm | 25 x 14 mm |
| | 95 mm | **117728** | 10 | | | |
| 4030 | 1-7/16" | **119738** | 24 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **119739** | 22 | | | |
| | 1-9/16" | **119770** | 21.9 | | | |
| | 1-5/8" | **119740** | 21.8 | | | |
| | 1-11/16" | **119771** | 21.5 | | | |
| | 1-3/4" | **119772** | 21.2 | | | |
| | 1-13/16" | **119773** | 21 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | **119774** | 20.9 | | | |
| | 1-15/16" | **119775** | 20.7 | | | |
| | 2" | **119741** | 20.6 | | | |
| | 2-1/16" | **119776** | 20.6 | | | |
| | 2-1/8" | **119742** | 20.7 | | | |
| | 2-3/16" | **119743** | 20.4 | | | |
| | 2-1/4" | **119744** | 20.1 | | | |
| | 2-5/16" | **119777** | 20 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8" | **119745** | 19.5 | | | |
| | 2-7/16" | **119746** | 19.3 | | | |
| | 2-1/2" | **119778** | 19.2 | | | |
| | 2-9/16" | **119779** | 19.1 | | | |
| | 2-5/8" | **119747** | 19 | | | |
| | 2-11/16" | **119780** | 18.4 | | | |
| | 2-3/4" | **119748** | 17.7 | | | |
| | 2-13/16" | **119781** | 17.5 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-7/8" | **119749** | 17.2 | | | |
| | 2-15/16" | **119750** | 17.2 | | | |
| | 3" | **119751** | 17 | | | |
| | 3-1/16" | **119782** | 16.8 | | | |
| | 3-1/8" | **119752** | 16.5 | | | |
| | 3-3/16" | **119783** | 15.9 | | | |
| | 3-1/4" | **119753** | 15.4 | | | |

# Specification

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| 4030 (cont) | 3-5/16" | **119784** | 14.9 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-3/8" | **119754** | 14.6 | | | |
| | 3-7/16" | **119755** | 14.1 | | | |
| | 3-1/2" | **119756** | 13.4 | | | |
| | 3-9/16" | **119785** | 13.3 | | | |
| | 3-5/8" | **119757** | 13.2 | | | |
| | 3-11/16" | **119786** | 13 | | | |
| | 3-3/4" | **119758** | 12.7 | 7/8 x 3/16 | 7/8 x 7/16 | 7/8 x 5/8 Δ |
| | 3-13/16" | **119787** | 12.7 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 3-7/8" | **119759** | 12.6 | 1 x 1/4 | 1 x 1/2 | 1 x 3/4 Δ |
| | 3-15/16" | **119760** | 12.6 | | | |
| | 4" | **119761** | 12.6 | | | |
| | 4-1/8" # | **119788** | 12.6 | | | |
| | 4-3/16" # | **119762** | 12.6 | | | |
| | 4-1/4" # | **119763** | 12.6 | | | |
| | 4-3/8" # | **119764** | 12.6 | | | |
| | 4-7/16" # | **119765** | 11.8 | | | |
| 4040 | 1-7/16" | **117310** | 24 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **117311** | 22 | | | |
| | 1-5/8" | **117312** | 22 | | | |
| | 1-11/16" | **117313** | 21.9 | | | |
| | 1-3/4" | **117314** | 21.9 | | | |
| | 1-7/8" | **117315** | 21 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-15/16" | **117316** | 21.2 | | | |
| | 2" | **117317** | 21.1 | | | |
| | 2-1/8" | **117318** | 20.6 | | | |
| | 2-3/16" | **117319** | 20.3 | | | |
| | 2-1/4" | **117320** | 20.2 | | | |
| | 2-3/8" | **117321** | 19.6 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-7/16" | **117322** | 19.3 | | | |
| | 2-1/2" | **117323** | 18.8 | | | |
| | 2-5/8" | **117324** | 18.7 | | | |
| | 2-11/16" | **117325** | 18.3 | | | |
| | 2-3/4" | **117326** | 18.2 | | | |
| | 2-13/16" | **117267** | 17.8 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-7/8" | **117327** | 17.5 | | | |
| | 2-15/16" | **117328** | 17.2 | | | |
| | 3" | **117329** | 16.8 | | | |
| | 3-1/8" | **117330** | 16.2 | | | |
| | 3-3/16" | **117331** | 15.8 | | | |
| | 3-1/4" | **117332** | 15.5 | | | |
| | 3-3/8" | **117333** | 14.8 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-7/16" | **117334** | 14.4 | | | |
| | 3-1/2" | **117335** | 14 | | | |
| | 3-5/8" | **117337** | 13.5 | | | |
| | 3-11/16" | **117340** | 13.5 | 7/8 x 3/16 | 7/8 x 7/16 | 7/8 x 5/8 Δ |
| | 3-3/4" | **117336** | 13.5 | | | |
| | 3-7/8" | **117341** | 12.9 | 1 x 1/4 | 1 x 1/2 | 1 x 3/4 Δ |
| | 3-15/16" | **117338** | 12.5 | | | |
| | 4" | **117352** | 12 | | | |
| | 4-1/8" # | **117714** | 11.2 | | | |
| | 4-3/16" # | **117715** | 10.7 | | | |
| | 4-1/4" # | **117716** | 10.3 | | | |
| | 4-3/8" # | **117717** | 9.5 | | | |
| | 4-7/16" # | **117704** | 8.9 | | | |
| | 48 mm | **119818** | 21 | 14 X 3.8 mm | 14 X 5.5 mm | 14 X 9 mm |
| | 55 mm | **119819** | 20.4 | 16 X 4.3 mm | 16 X 6 mm | 16 X 10 mm |
| | 60 mm | **119820** | 19.5 | 18 X 4.4 mm | 18 X 7 mm | 18 X 11 mm |
| | 75 mm | **117723** | 10 | 20 X 4.9 mm | 20 X 7.5 mm | 20 X 12 mm |
| | 80 mm | **117724** | 10 | 22 X 5.4 mm | 22 X 9 mm | 22 X 14 mm |
| | 90 mm | **117726** | 10 | 25 X 5.4 mm | 25 X 9 mm | 25 x 14 mm |
| | 95 mm | **117725** | 10 | | | |
| | 100 mm | **117729** | 10 | 28 X 6.4 mm | 28 X 10 mm | 28 X 16 mm |

Δ Key furnished for these sizes ONLY

\+ These sizes are STEEL

\# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult Dodge

| TL Bush Size | Bore | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| 4535 | 1-15/16" | **114765** | 31 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 2" | **114766** | 29.7 | | | |
| | 2-1/16" | **114767** | 29.5 | | | |
| | 2-1/8" | **114768** | 29.3 | | | |
| | 2-3/16" | **114769** | 29 | | | |
| | 2-1/4" | **114770** | 28.8 | | | |
| | 2-5/16" | **114771** | 28.6 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8" | **114772** | 27.4 | | | |
| | 2-7/16" | **114773** | 28 | | | |
| | 2-1/2" | **114774** | 26.7 | | | |
| | 2-9/16" | **114775** | 26.4 | | | |
| | 2-5/8" | **114776** | 25.9 | | | |
| | 2-11/16" | **114777** | 25.4 | | | |
| | 2-3/4" | **114778** | 25 | | | |
| | 2-13/16" | **114779** | 24.9 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-7/8" | **114780** | 24.8 | | | |
| | 2-15/16" | **114781** | 24.2 | | | |
| | 3" | **114782** | 24.2 | | | |
| | 3-1/16" | **114783** | 24.2 | | | |
| | 3-1/8" | **114784** | 24.1 | | | |
| | 3-3/16" | **114785** | 23.8 | | | |
| | 3-1/4" | **114786** | 23.1 | | | |
| | 3-5/16" | **114787** | 22.7 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-3/8" | **114788** | 22.4 | | | |
| | 3-7/16" | **114789** | 21.5 | | | |
| | 3-1/2" | **114790** | 21.3 | | | |
| | 3-9/16" | **114791** | 21.1 | | | |
| | 3-5/8" | **114792** | 21 | | | |
| | 3-11/16" | **114793** | 20.3 | | | |
| | 3-3/4" | **114794** | 19.9 | | | |
| | 3-13/16" | **114795** | 19.6 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 3-7/8" | **114796** | 19.3 | | | |
| | 3-15/16" | **114797** | 18.9 | | | |
| | 4" | **114798** | 18.7 | | | |
| | 4-1/8" | **114799** | 18.6 | | | |
| | 4-3/16" | **114800** | 18.5 | | | |
| | 4-1/4" | **114801** | 17.8 | | | |
| | 4-3/8" | **114802** | 16.8 | 1 x 1/4 | 1 x 1/2 | 1 x 3/4 Δ |
| | 4-7/16" | **114803** | 15.4 | | | |
| | 4-1/2" | **114804** | 15.3 | | | |
| | 4-3/4" # | **114805** | 15.2 | 1-1/4 x 1/4 | 1-1/4 x 5/8 | 1-1/4 x 7/8 Δ |
| | 4-7/8" # | **114806** | 15.1 | | | |
| | 4-15/16" # | **114807** | 14.9 | | | |
| 4545 | 1-15/16" | **117416** | 29.9 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 2" | **117417** | 29.8 | | | |
| | 2-1/8" | **117849** | 29.8 | | | |
| | 2-3/16" | **117419** | 29 | | | |
| | 2-3/8" | **117421** | 28.2 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-7/16" | **117422** | 27.9 | | | |
| | 2-1/2" | **117850** | 27.5 | | | |
| | 2-5/8" | **117424** | 27 | | | |
| | 2-3/4" | **117426** | 26.5 | | | |
| | 2-7/8" | **117427** | 25.7 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-15/16" | **117428** | 25.3 | | | |
| | 3" | **117429** | 25.2 | | | |
| | 3-1/8" | **117430** | 24.3 | | | |
| | 3-3/16" | **117431** | 24.2 | | | |
| | 3-1/4" | **117432** | 23.9 | | | |
| | 3-3/8" | **117433** | 22.8 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-7/16" | **117434** | 22.6 | | | |
| | 3-1/2" | **117435** | 22.1 | | | |
| | 3-5/8" | **117413** | 21.2 | | | |
| | 3-3/4" | **117436** | 20.3 | | | |
| | 3-7/8" | **117437** | 19.5 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 3-15/16" | **117438** | 19 | | | |
| | 4" | **117439** | 18.6 | | | |
| | 4-1/8" | **117444** | 17.5 | | | |
| | 4-3/16" | **117443** | 17.1 | | | |
| | 4-1/4" | **117441** | 17 | | | |
| | 4-3/8" | **117442** | 16.9 | 1 x 1/4 | 1 x 1/2 | 1 x 3/4 |

# Specification

## TAPER-LOCK Bushings - Stock Bore

| TL Bush Size | Bore | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| 4545 (cont) | 4-7/16” | **117440** | 16.5 | 1 x 1/4 | 1 x 1/2 | 1 x 3/4 Δ |
| | 4-1/2” | **117447** | 15.9 | | | |
| | 4-3/4” # | **117718** | 13.9 | 1-1/4 x 1/4 | 1-1/4 x 5/8 | 1-1/4 x 7/8 Δ |
| | 4-7/8” # | **117719** | 12.9 | | | |
| | 4-15/16” # | **117705** | 12.5 | | | |
| 5040 | 2-7/16” | **114865** | 39.5 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-1/2” | **114866** | 38.3 | | | |
| | 2-9/16” | **114867** | 37.7 | | | |
| | 2-5/8” | **114868** | 37.1 | | | |
| | 2-11/16” | **114869** | 36.9 | | | |
| | 2-3/4” | **114870** | 36.6 | | | |
| | 2-13/16” | **114871** | 36.5 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-7/8” | **114872** | 36.4 | | | |
| | 2-15/16” | **114873** | 36.2 | | | |
| | 3” | **114874** | 35.6 | | | |
| | 3-1/16” | **114875** | 35.2 | | | |
| | 3-1/8” | **114876** | 34.8 | | | |
| | 3-3/16” | **114877** | 33.9 | | | |
| | 3-1/4” | **114878** | 33.2 | | | |
| | 3-5/16” | **114879** | 33 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-3/8” | **114880** | 32.7 | | | |
| | 3-7/16” | **114881** | 32 | | | |
| | 3-1/2” | **114882** | 31.7 | | | |
| | 3-9/16” | **114883** | 31.4 | | | |
| | 3-5/8” | **114884** | 31.1 | | | |
| | 3-11/16” | **114885** | 30.4 | | | |
| | 3-3/4” | **114886** | 29.7 | | | |
| | 3-13/16” | **114887** | 29.4 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 3-7/8” | **114888** | 29 | | | |
| | 3-15/16” | **114889** | 28.7 | | | |
| | 4” | **114890** | 27.8 | | | |
| | 4-1/8” | **114891** | 27.5 | | | |
| | 4-3/16” | **114892** | 27.2 | | | |
| | 4-1/4” | **114893** | 27 | | | |
| | 4-3/8” | **114894** | 26 | | | |
| | 4-7/16” | **114895** | 25.1 | | | |
| | 4-1/2” | **114896** | 23.6 | | | |
| | 4-3/4” | **114897** | 22.9 | 1-1/4 x 1/4 | 1-1/4 x 5/8 | 1-1/4 x 7/8 Δ |
| | 4-7/8” | **114898** | 22.2 | | | |
| | 4-15/16” | **114899** | 20.6 | | | |
| | 5” | **114900** | 20.5 | | | |

Δ Key furnished for these sizes ONLY

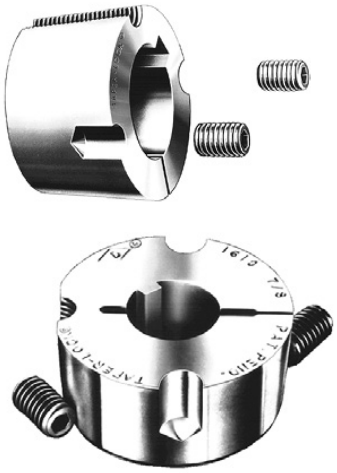
\+ These sizes are STEEL

\# Refer to torque capacity ratings on page PT6-3. If service factor of 2.0 or greater is required consult Dodge

| TL Bush Size | Bore | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| 5050 | 2-7/16” | **117458** | 39 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-11/16” | **117450** | 37.4 | | | |
| | 2-15/16” | **117459** | 36 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 3-3/8” | **117452** | 33 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-7/16” | **117460** | 32.6 | | | |
| | 3-5/8” | **117453** | 31.2 | | | |
| | 3-7/8” | **117454** | 29.3 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 3-15/16” | **117461** | 28.6 | | | |
| | 4” | **117466** | 28.3 | | | |
| | 4-1/4” | **117465** | 26.2 | | | |
| | 4-3/8” | **117469** | 25 | | | |
| | 4-7/16” | **117462** | 24.4 | | | |
| | 4-1/2” | **117467** | 23.9 | | | |
| | 4-5/8” | **117734** | 23 | 1-1/4 x 1/4 | 1-1/4 x 5/8 | 1-1/4 x 7/8 Δ |
| | 4-7/8” | **117468** | 22.3 | | | |
| | 4-15/16” | **117463** | 21.4 | | | |
| | 5” | **117464** | 20.9 | | | |
| | 110 mm | **117736** | 26.2 | 28 X 6.4 mm | 28 X 10 mm | 28 X 16 mm |
| 6050 | 4-7/16” | **117474** | 63.6 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 4-15/16” | **117473** | 58.2 | 1-1/4 x 5/8 | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 |
| | 5-7/16” | **117475** | 52.3 | | | |
| | 5-15/16” | **117476** | 57.2 | 1-1/2 x 3/4 | 1-1/2 x 3/4 | 1-1/2 x 1-1/2 |
| | 6” | **117477** | 46.4 | | | |
| 7060 | 4-15/16” | **117490** | 92 | 1-1/4 x 5/8 | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 |
| | 5-7/16” | **117491** | 84.5 | | | |
| | 5-15/16” | **117492** | 78.2 | 1-1/2 x 3/4 | 1-1/2 x 3/4 | 1-1/2 x 1-1/2 |
| | 6” | **117493** | 76.6 | | | |
| | 6-7/16” | **117494** | 68.1 | | | |
| | 6-1/2” | **117495** | 68.7 | | | |
| | 6-15/16” | **117496** | 62.1 | 1-3/4 x 3/4 | 1-3/4 x 3/4 | 1-3/4 x 1-1/2 |
| | 7” # | **117497** | 60.6 | | | |
| 8065 | 5-7/16” | **117479** | 98.6 | 1-1/4 x 5/8 | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 |
| | 5-15/16” | **117480** | 105.7 | 1-1/2 x 3/4 | 1-1/2 x 3/4 | 1-1/2 x 1-1/2 |
| | 6-7/16” | **117481** | 102.3 | | | |
| | 6-1/2” | **117482** | 101.8 | | | |
| | 6-15/16” | **117488** | 92 | 1-3/4 x 3/4 | 1-3/4 x 3/4 | 1-3/4 x 1-1/2 |
| | 7” | **117483** | 91.1 | | | |
| | 7-1/2” | **117503** | 89.9 | | | |
| | 8” # | **117484** | 89.9 | 2 x 3/4 | 2 x 3/4 | 2 x 1-1/2 |
| 10085 | 7” | **117486** | 245 | 1-3/4 x 3/4 | 1-3/4 x 3/4 | 1-3/4 x 1-1/2 |
| | 8” | **117485** | 219 | 2 x 3/4 | 2 x 3/4 | 2 x 1-1/2 |
| | 8-1/4” | **117411** | 210 | | | |
| | 9” | **117487** | 190 | | | |
| | 10” | **117510** | 157.5 | 2-1/2 x 7/8 | 2-1/2 x 7/8 | 2-1/2 x 1-3/4 |
| 120100 | 8” | **117522** | 410 | 2 x 3/4 | 2 x 3/4 | 2 x 1-1/2 |
| | 8-1/2” | **117523** | 395 | | | |
| | 9” | **117520** | 380 | | | |
| | 9-1/2” | **117524** | 365 | 2-1/2 x 7/8 | 2-1/2 x 7/8 | 2-1/2 x 1-3/4 |
| | 10” | **117521** | 350 | | | |
| | 10-1/2” | **117525** | 335 | | | |
| | 11” | **117526** | 320 | | | |
| | 11-1/2” | **117527** | 305 | 3 x 1 | 3 x 1 | 3 x 2 |
| | 12” # | **117508** | 290 | | | |

# Specification

## TAPER-LOCK Bushings - Reborable



**NOTE:**
All reborable bushings are stocked without sawsplit to facilitate re-machining. Sawsplit must be made in bushing to allow it to compress for proper gripping of the shaft. Factory rebore and keyseat service as listed in MLP price book includes sawsplit

| TL Bush | Sintered Steel | | Cast Iron | | Ductile Iron | | Steel | | Stainless Steel | |
|---|---|---|---|---|---|---|---|---|---|---|
| Size | Bore | P/N | Bore | P/N | Bore | P/N | Bore | P/N | Bore | P/N |
| 1008 | 1/2" | **119187** | – | – | – | – | 1/2" | **119432** | 1/2" | **119410** |
| 1108 | 1/2" | **119361** | – | – | – | – | 1/2" | **119433** | 1/2" | **119411** |
| 1210 | 1/2" | **119206** | – | – | – | – | 1/2" | **119434** | 1/2" | **119412** |
| 1215 | 1/2" | **119023** | – | – | – | – | 1/2" | **119435** | 1/2" | **119413** |
| 1310 | 1/2" | **119386** | – | – | – | – | 1/2" | **119436** | 1/2" | **119414** |
| 1610 | 1/2" | **119209** | – | – | – | – | 1/2" | **119421** | 1/2" | **119415** |
| 1615 | 1/2" | **119067** | – | – | – | – | 1/2" | **119437** | 1/2" | **119416** |
| 2012 | 1/2" | **119272** | – | – | – | – | 1/2" | **119422** | 1/2" | **119417** |
| 2517 | 1/2" | **119141** | – | – | – | – | 1" | **119423** | 5/8" | **119418** |
| 2525 | 1/2" | **396172** | – | – | – | – | 1-7/16" | **119429** | – | – |
| 3020 | 7/8" | **117147** | – | – | – | – | 1-7/16" | **119430** | 7/8" | **119419** |
| 3020 | 1-11/16" | **117149** | – | – | – | – | – | – | – | – |
| 3030 | – | – | 15/16" | **117045** | – | – | 1-7/16" | **119431** | – | – |
| 3525 | – | – | 1-3/16" | **119700** | 1-3/16" | **119701** | – | – | – | – |
| 3535 | – | – | 1-3/16" | **117250** | 1-7/16" | **117205** | – | – | – | – |
| 4030 | – | – | 1-7/16" | **119789** | 1-15/16" | **119790** | – | – | – | – |
| 4040 | – | – | 1-7/16" | **117345** | 1-15/16" | **117307** | – | – | – | – |
| 4535 | – | – | 1-15/16" | **119766** | 2-7/16" | **119767** | – | – | – | – |
| 4545 | – | – | 1-15/16" | **117448** | 2-7/16" | **117414** | – | – | – | – |
| 5040 | – | – | 2-7/16" | **119768** | 2-15/16" | **119769** | – | – | – | – |
| 5050 | – | – | 2-7/16" | **117451** | 2-15/16" | **117455** | – | – | – | – |
| 6050 | – | – | 3-7/16" | **117472** | 3-7/16" | **117471** | – | – | – | – |
| 7060 | – | – | 3-15/16" | **117498** | 3-15/16" | **117505** | – | – | – | – |
| 8065 | – | – | 4-7/16" | **117502** | 4-7/16" | **117506** | – | – | – | – |
| 10085 | – | – | 7" | **117489** | – | – | – | – | – | – |
| 120100 | – | – | 8" | **117504** | – | – | – | – | – | – |

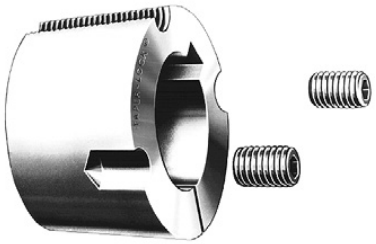
### TAPER-LOCK Bushings - Maximum Bore Capacities (Inches)

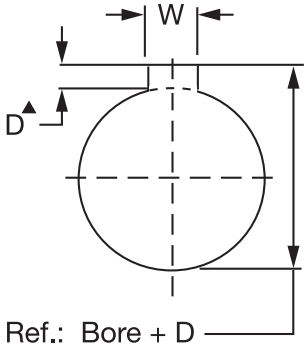
| TL Bush Size | Sintered Steel | | | Cast Iron | | | Ductile Iron | | | Steel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Full Key | Shallow Key | No * Key | Full Key | Shallow Key | No * Key | Full Key | Shallow Key | No * Key | Full Key | Shallow Key | No * Key |
| 1008 | 7/8" | 1" | 1" | – | – | – | – | – | – | 7/8" | 1" | 1" |
| 1108 | 1" | 1-1/8" | 1-1/8" | – | – | – | – | – | – | 1" | 1-1/8" | 1-1/8" |
| 1210 | 1-1/4" | 1-1/4" | 1-1/4" | – | – | – | – | – | – | 1-1/4" | 1-1/4" | 1-1/4" |
| 1215 | 1-1/4" | 1-1/4" | 1-1/4" | – | – | – | – | – | – | 1-1/4" | 1-1/4" | 1-1/4" |
| 1310 | 1-3/8" | 1-3/8" | 1-3/8" | – | – | – | – | – | – | 1-3/8" | 1-7/16" | 1-7/16" |
| 1610 | 1-1/2" | 1-5/8" | 1-5/8" | – | – | – | – | – | – | 1-5/8" | 1-11/16" | 1-11/16" |
| 1615 | 1-1/2" | 1-5/8" | 1-5/8" | – | – | – | – | – | – | 1-5/8" | 1-11/16" | 1-11/16" |
| 2012 | 1-7/8" | 2" | 2" | – | – | – | – | – | – | 2" | 2-1/8" | 2-1/8" |
| 2517 | 2-1/4" | 2-1/2" | 2-1/2" | – | – | – | – | – | – | 2-7/16" | 2-11/16" | 2-11/16" |
| 2525 | – | – | – | 2-1/4" | 2-1/2" | 2-1/2" | – | – | – | 2-3/8" | 2-11/16" | 2-11/16" |
| 3020 | 2-3/4" | 3" | 3" | 2-3/4" | 3" | 3" | – | – | – | 3" | 3-1/4" | 3-1/4" |
| 3030 | – | – | – | 2-3/4" | 3" | 3" | – | – | – | 3" | 3-1/4" | 3-1/4" |
| 3525 | – | – | – | 3-1/4" | 3-1/2" | 3-1/2" | 3-1/2" | 3-15/16" | 3-15/16" | – | – | – |
| 3535 | – | – | – | 3-1/4" | 3-1/2" | 3-1/2" | 3-1/2" | 3-15/16" | 3-15/16" | – | – | – |
| 4030 | – | – | – | 3-5/8" | 4" | 4" | 4" | 4-7/16" | 4-7/16" | – | – | – |
| 4040 | – | – | – | 3-5/8" | 4" | 4" | 4" | 4-7/16" | 4-7/16" | – | – | – |
| 4535 | – | – | – | 4-1/2" | 4-1/2" | 4-1/2" | 4-1/2" | 4-15/16" | 4-15/16" | – | – | – |
| 4545 | – | – | – | 4-1/2" | 4-1/2" | 4-1/2" | 4-1/2" | 4-15/16" | 4-15/16" | – | – | – |
| 5040 | – | – | – | 4-1/2" | 5" | 5" | 5" | 5-5/16" | 5-5/16" | – | – | – |
| 5050 | – | – | – | 4-1/2" | 5" | 5" | 5" | 5-5/16" | 5-5/16" | – | – | – |
| 6050 | – | – | – | 6" | 6" | 6" | 6" | 6" | 6" | – | – | – |
| 7060 | – | – | – | 7" | 7" | 7" | 7" | 7" | 7" | – | – | – |
| 8065 | – | – | – | 8" | 8" | 8" | 8" | 8" | 8" | – | – | – |
| 10085 | – | – | – | 10" | 10" | 10" | 10" | 10" | 10" | – | – | – |
| 120100 | – | – | – | 12" | 12" | 12" | 12" | 12" | 12" | – | – | – |

* Verify torque capacity: Contact Application Engineering for assistance

# Specification

## TAPER-LOCK Bushings - Reborable






ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH.

▲ Depth measured at centerline

### TAPER-LOCK Bushings - Maximum Bore Capacities (Metric)

| TL Bush Size | Min Bore | Sintered Steel | | | Cast Iron | | | Ductile Iron | | | Steel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Full Key | Shallow Key | No Key* | Full Key | Shallow Key | No Key* | Full Key | Shallow Key | No Key* | Full Key | Shallow Key | No Key* |
| 1008 | 13 | 22 | 25 | 25 | – | – | – | – | – | – | 22 | 22 | 26 |
| 1108 | 13 | 25 | 25 | 29 | – | – | – | – | – | – | 25 | 28 | 29 |
| 1210 | 13 | 32 | 32 | 32 | – | – | – | – | – | – | 32 | 32 | 32 |
| 1215 | 13 | 32 | 32 | 32 | – | – | – | – | – | – | 32 | 32 | 32 |
| 1310 | 13 | 35 | 35 | 35 | – | – | – | – | – | – | 35 | 35 | 36 |
| 1610 | 13 | 40 | 40 | 40 | – | – | – | – | – | – | 42 | 42 | 44 |
| 1615 | 13 | 39 | 39 | 39 | – | – | – | – | – | – | 42 | 42 | 44 |
| 2012 | 13 | 50 | 50 | 51 | – | – | – | – | – | – | 50 | 50 | 55 |
| 2517 | 13 | 60 | 60 | 64 | – | – | – | – | – | – | 65 | 65 | 68 |
| 2525 | 20 | – | – | – | 60 | 60 | 64 | – | – | – | 65 | 65 | 68 |
| 3020 | 24 | 75 | 75 | 76 | 75 | 75 | 76 | – | – | – | 80 | 80 | 82 |
| 3030 | 24 | – | – | – | 75 | 75 | 76 | – | – | – | 80 | 80 | 82 |
| 3525 | 31 | – | – | – | 90 | 90 | 90 | 95 | 95 | 100 | – | – | – |
| 3535 | 31 | – | – | – | 85 | 85 | 85 | 95 | 95 | 100 | – | – | – |
| 4030 | 37 | – | – | – | 100 | 100 | 102 | 110 | 115 | 115 | – | – | – |
| 4040 | 37 | – | – | – | 100 | 100 | 102 | 105 | 105 | 113 | – | – | – |
| 4535 | 50 | – | – | – | 110 | 110 | 114 | 115 | 125 | 125 | – | – | – |
| 4545 | 50 | – | – | – | 110 | 110 | 114 | 115 | 115 | 125 | – | – | – |
| 5040 | 61 | – | – | – | 125 | 125 | 127 | 127 | 127 | 134 | – | – | – |
| 5050 | 61 | – | – | – | 125 | 125 | 127 | 127 | 127 | 134 | – | – | – |
| 6050 | 88 | – | – | – | 152 | 152 | 152 | 152 | 152 | 152 | – | – | – |
| 7060 | 100 | – | – | – | 177 | 177 | 177 | 180 | 180 | 180 | – | – | – |
| 8065 | 117 | – | – | – | 203 | 203 | 203 | 203 | 203 | 203 | – | – | – |
| 10085 | 178 | – | – | – | 254 | 254 | 254 | 254 | 254 | 254 | – | – | – |
| 120100 | 204 | – | – | – | 304 | 304 | 304 | 304 | 304 | 304 | – | – | – |

**NOTE:** ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH
MM Bore and Keyway dimensions conform to ISO standard recommendation R773, for "Free" fit

* Verify torque capability. Contact Application Engineering for assistance.

**REFERENCE:**

1 inch = 25.4 millimeters

1 millimeter = 0.03937 inches

# Specification

## TAPER-LOCK Weld-On Hubs

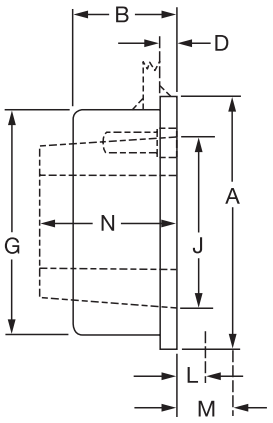
Dodge Weld-On hubs are made of 1015-1025 steel, drilled, tapped, and taper bored to receive TAPER-LOCK bushings. They are useful for welding into fan rotors, pulleys, plate sprockets, impellers, agitators, etc. which must be firmly mounted onto shafting. Four types of hubs are available from stock:

**TYPE W/WA:** Rugged, full length size for single-hub heavy-duty applications.

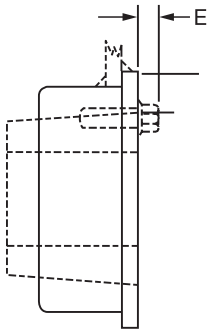
**TYPE K:** More compact design, especially useful for two-hub construction such as conveyor pulleys.

**TYPE S:** Originally designed for use in smaller sprockets using up to Taper-Lock size 3535 bushings. Suitable for many other lighter-duty applications.

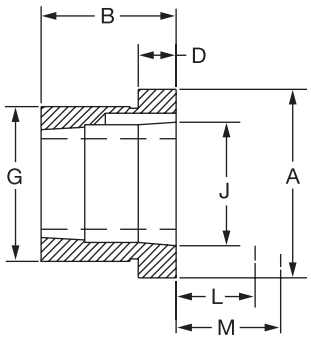
**TYPE F:** Features a larger flange diameter that can be welded into standard steel tubing to fabricate conveyor pulleys or process rolls.



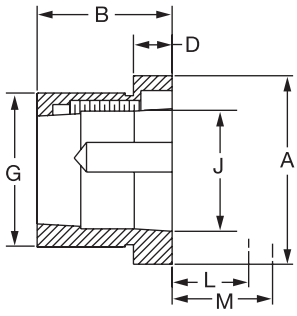

K25 to K50




K60 to K120




W12 to WA30




WA35 to WA100

### TAPER-LOCK Type K And Type W/WA Weld-On Hubs

| Hub No. | Part No. | Uses Bush. | Max. Bore | Wt. lbs. | Dimensions A | B+ | D | E | G | J Ref. | L++ | M** | N | Tolerances G Dimension |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W12 | **228010** | 1215 | 1-1/4 | 1.2 | 2.88 | 1.50 | 0.63 | – | 2.500* | 1.88 | 1.38 | 1.63 | 1.50 | * +.000/-.002 |
| W16 | **228011** | 1615 | 1-11/16 | 1.3 | 3.25 | 1.50 | 0.63 | – | 2.875* | 2.25 | 1.38 | 1.63 | 1.50 | @ +.000/-.003 |
| W25 | **228012** | 2517 | 2-11/16 | 3.9 | 4.88 | 1.75 | 0.75 | – | 4.375* | 3.38 | 1.63 | 2.25 | 1.75 | ~ +.000/-.004 |
| WA30 | **228087** | 3030 | 3-1/4 | 8.6 | 5.50 | 3.00 | 0.75 | – | 5.125* | 4.25 | 1.81 | 2.69 | 3.00 | – – |
| WA35 | **228088** | 3535 | 3-15/16 | 15 | 6.75 | 3.50 | 1.00 | – | 6.250* | 5.00 | 2.00 | 3.33 - | 3.50 | B Dimension |
| WA40 | **228089** | 4040 | 4-7/16 | 29 | 7.75 | 4.00 | 1.00 | – | 7.250* | 5.75 | 2.38 | 4.13 | 4.00 | W/WA Hubs Only |
| WA45 | **228090** | 4545 | 4-15/16 | 42 | 8.75 | 4.50 | 1.00 | – | 8.000* | 6.38 | 2.63 | 4.75 | 4.50 | + +.001/-.125 |
| WA50 | **228091** | 5050 | 5 | 57 | 9.50 | 5.00 | 1.00 | – | 8.750@ | 7.00 | 2.19 | 5.25 | 5.00 | |
| WA60 | **228092** | 6050 | 6 | 115 | 13.25 | 5.00 | 1.25 | 1.44 | 12.250~ | 9.25 | 1.63 | 4.33 | 5.00 | |
| WA70 | **228093** | 7060 | 7 | 158 | 14.5 | 6.00 | 1.25 | 1.44 | 13.500~ | 10.25 | 1.63 | 4.33 | 6.00 | |
| WA80 | **228094** | 8065 | 8 | 180 | 15.25 | 6.50 | 1.25 | 1.44 | 14.125~ | 11.25 | 1.63 | 4.33 | 6.50 | |
| WA100 | **228095** | 10085 | 10 | 340 | 19.75 | 8.50 | 1.50 | 1.75 | 18.750~ | 14.75 | 2.00 | 5.33 | 8.50 | |
| K25 | **207156** | 2517 | 2-11/16 | 3.6 | 4.88 | 1.50 | 0.38 | – | 4.375* | 3.38 | 1.63 | 2.25 | 1.75 | |
| K30 | **207157** | 3020 | 3-1/4 | 7.8 | 5.50 | 1.63 | 0.75 | – | 5.125* | 4.25 | 1.81 | 2.69 | 2.00 | |
| K35 | **228080** | 3535 | 3-15/16 | 9.8 | 6.75 | 1.63 | 0.75 | – | 6.250* | 5.00 | 2.00 | 3.33 | 3.50 | |
| K40 | **228081** | 4040 | 4-7/16 | 10.8 | 7.75 | 2.13 | 0.50 | – | 7.250* | 5.75 | 2.63 | 4.13 | 4.00 | |
| K45 | **228082** | 4545 | 4-15/16 | 15.2 | 8.50 | 2.63 | 0.63 | – | 8.000* | 6.83 | 2.63 | 4.75 | 4.50 | |
| K50 | **228083** | 5050 | 5 | 29 | 9.25 | 2.88 | 0.63 | – | 8.750@ | 7.00 | 2.81 | 5.25 | 5.00 | |
| K60 | **228084** | 6050 | 6 | 44 | 12.75 | 2.88 | 0.63 | 1.44 | 12.250~ | 9.25 | 1.63 | 4.33 | 5.00 | |
| K70 | **228085** | 7060 | 7 | 60 | 14.00 | 3.38 | 0.75 | 1.44 | 13.500~ | 10.25 | 1.63 | 4.33 | 6.00 | |
| K80 | **228086** | 8065 | 8 | 65 | 14.75 | 3.63 | 0.75 | 1.44 | 14.125~ | 11.25 | 1.63 | 4.33 | 6.5. | |
| K100 | **228079** | 10085 | 10 | 128 | 19.25 | 4.13 | 1.00 | 1.75 | 18.750~ | 14.75 | 2.00 | 5.33 | 8.50 | |
| K120 | **228058** | 120100 | 12 | 225 | 22.25 | 5.38 | 1.00 | 1.75 | 21.750~ | 17.25 | 2.00 | 5.33 | 10.00 | |

++ Wrench clearance required to install bushing. ** Wrench clearance required to remove bushing.

# Specification

## TAPER-LOCK Weld-On Hubs

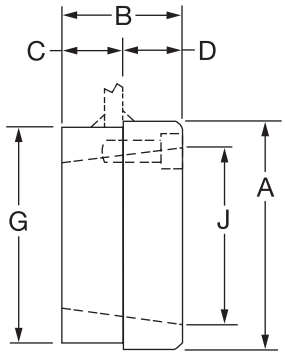
### Type S Weld-On Hubs

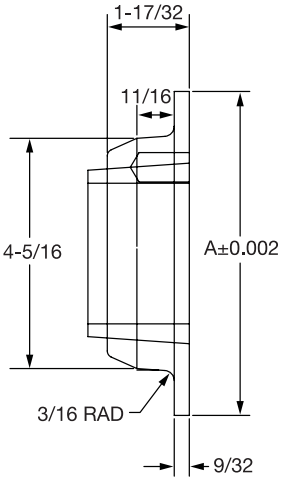
| Hub No. | Part No. | Uses Bush. | Bore Range | Wt. | Dimensions | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | A | B | C | D | G | G Toler. | J Ref. |
| S16-4 | **097023** | 1610 | 1/2 to 1-11/16" | .90 | 3.00 | 1.00 | 0.275 | .73 | 2.875 | +.000/-.002 | 2.25 |
| S16-6 | **097024** | 1610 | 1/2 to 1-11/16" | .90 | 3.00 | 1.00 | 0.45 | .55 | 2.875 | +.000/-.002 | 2.25 |
| S20-6 | **097025** | 2012 | 1/2 to 2-1/8" | 1.80 | 3.56 | 1.25 | 0.45 | .80 | 3.438 | +.000/-.002 | 2.75 |
| S20-8 | **097015** | 2012 | 1/2 to 2-1/8" | 1.40 | 3.56 | 1.25 | 0.57 | .68 | 3.438 | +.000/-.002 | 2.75 |
| S25-6 | **097016** | 2517 | 1/2 to 2-11/16" | 2.60 | 4.25 | 1.75 | 0.45 | 1.3 | 4.125 | +.000/-.002 | 3.33 |
| S25-8 | **097017** | 2517 | 1/2 to 2-11/16" | 2.60 | 4.25 | 1.75 | 0.565 | 1.19 | 4.125 | +.000/-.002 | 3.33 |
| S25-10 | **097018** | 2517 | 1/2 to 2-11/16" | 2.50 | 4.25 | 1.75 | 0.685 | 1.07 | 4.125 | +.000/-.002 | 3.33 |
| S25-16 | **097019** | 2517 | 1/2 to 2-11/16" | 2.40 | 4.25 | 1.75 | 1.09 | .66 | 4.125 | +.000/-.002 | 3.33 |
| S30-10 | **097020** | 3020 | 15/16 to 3-1/4" | 4.30 | 5.25 | 2.00 | 0.675 | 1.33 | 5.125 | +.000/-.002 | 4.25 |
| S30-16 | **097021** | 3020 | 15/16 to 3-1/4" | 4.20 | 5.25 | 2.00 | 1.09 | .91 | 5.125 | +.000/-.002 | 4.25 |
| S35 | **097022** | 3535 | 1-3/16 to 3-15/16" | 12.80 | 6.50 | 3.50 | 1.16 | 2.34 | 6.375 | +.000/-.002 | 5.00 |

### TAPER-LOCK Type F Weld-On Hubs

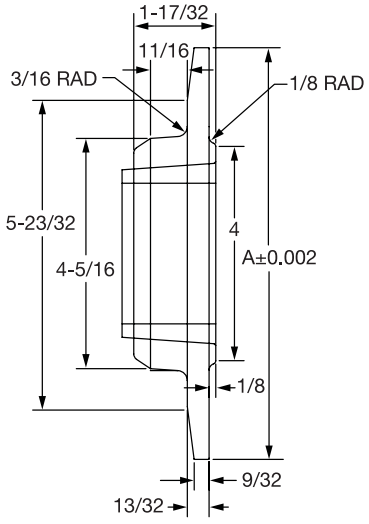
| Hub No. | Part No. | Uses Bush. | Bore Range | Wt. | A |
|---|---|---|---|---|---|
| 6F25P | **226091** | 2517 | 1/2 to 2-11/16" | 3.9 | 6.048 |
| 6F25A | **226026** | 2517 | 1/2 to 2-11/16" | 3.8 | 5.685 |
| 6F25B | **226027** | 2517 | 1/2 to 2-11/16" | 3.8 | 5.664 |
| 6F25C | **226028** | 2517 | 1/2 to 2-11/16" | 3.8 | 5.625 |
| 6F25D | **226029** | 2517 | 1/2 to 2-11/16" | 3.8 | 5.579 |
| 6F25E | **226030** | 2517 | 1/2 to 2-11/16" | 3.8 | 5.537 |
| 8F25P | **226093** | 2517 | 1/2 to 2-11/16" | 6.3 | 7.962 |
| 8F25A | **226031** | 2517 | 1/2 to 2-11/16" | 6.2 | 7.685 |
| 8F25B | **226032** | 2517 | 1/2 to 2-11/16" | 6.2 | 7.664 |
| 8F25C | **226033** | 2517 | 1/2 to 2-11/16" | 6.2 | 7.625 |
| 8F25D | **226034** | 2517 | 1/2 to 2-11/16" | 6.2 | 7.579 |
| 8F25E | **226007** | 2517 | 1/2 to 2-11/16" | 6.2 | 7.537 |
| F30 | **226101** | 3020 | 15/16 to 3-1/4" | 5.3 | 5.75 |

**Type S**

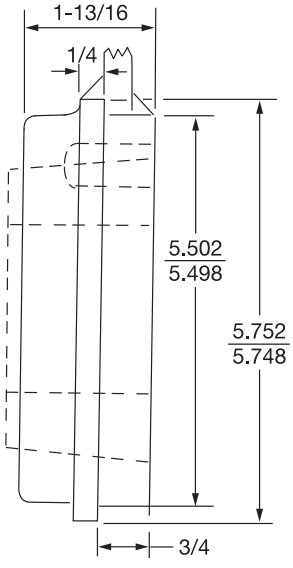





8F25



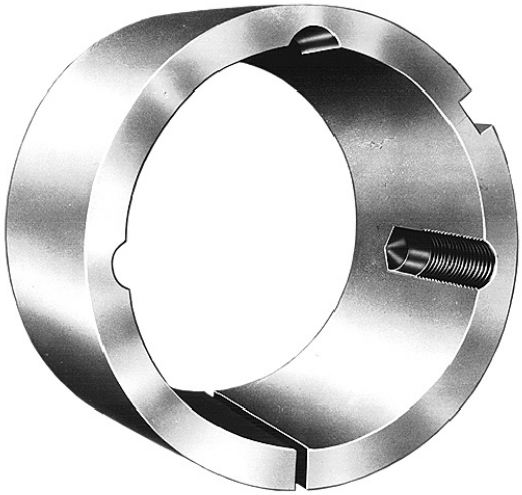

6F25

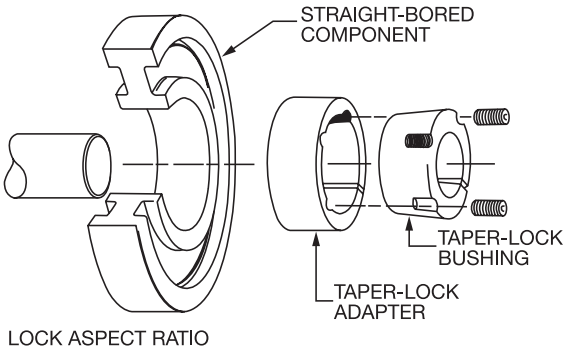


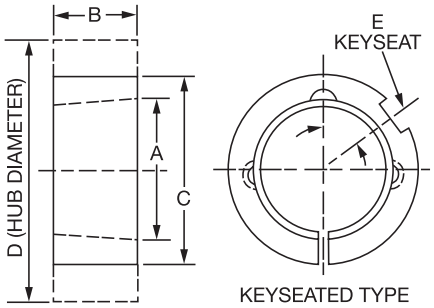

F30

# Specification

## TAPER-LOCK Adapters






Adapters for TAPER-LOCK bushings are recommended for use where it is more convenient to straight bore than to drill, tap and taper bore hubs to accommodate bushings.

The adapter is a gray iron, taper-bored sleeve which fits into the straight bore of a hub. The bushing simply fits inside the adapter which is tapped for the bushing screws. When tightening the locking screws, adapter is expanded against the hub bore contracting the bushing tightly upon the shaft. See page PT6-3 for bushing data and wrench space required.

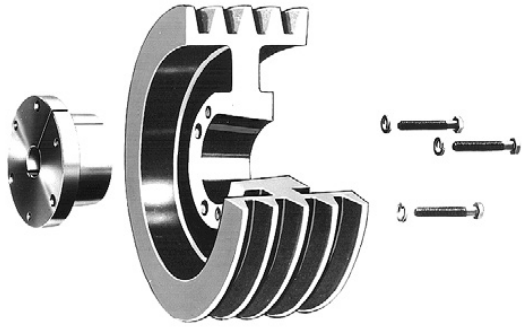
**TAPER-LOCK Adapters**

| Adapter No. | Type | For Use With Bush. No. | Adapter Part No. | Adapter Wt. | A Ref. | B | C* | D: Req'd Hub Dia. † | | E |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Class 30 Gray Iron | Steel | Keyseat |
| 1215B | Keyseated | 1215 | **120011** | .7 | 1.88 | 1.50 | 2-3/8 | 3.38 | 3.25 | 1/4 x 1/8 |
| 1615B | Keyseated | 1615 | **120012** | .9 | 2.25 | 1.50 | 2-3/4 | 3.75 | 3.50 | 3/8 x 1/8 |
| 2517B | Keyseated | 2517 | **120013** | 2.2 | 3.38 | 1.75 | 4-1/8 | 5.50 | 5.00 | 5/8 x 1/8 |
| 2525B | Keyseated | 2525 | **120014** | 3.2 | 3.38 | 2.50 | 4-1/8 | 5.25 | 5.00 | 5/8 x 1/8 |
| 3030B | Keyseated | 3030 | **120015** | 5.8 | 4.25 | 3.00 | 5-1/8 | 6.88 | 6.25 | 3/4 x 3/16 |
| 3535B | Keyseated | 3535 | **120016** | 11.3 | 5.00 | 3.50 | 6-1/4 | 8.38 | 7.88 | 7/8 x 3/16 |
| 4040B | Keyseated | 4040 | **120017** | 17.3 | 5.75 | 4.00 | 7-1/4 | 10.13 | 9.38 | 1 x 3/16 |
| 4545B | Keyseated | 4545 | **120018** | 21.9 | 6.38 | 4.50 | 7-7/8 | 11.00 | 10.25 | 1 x 3/16 |

* 001 to +.003 tolerance recommended for bore of hub.

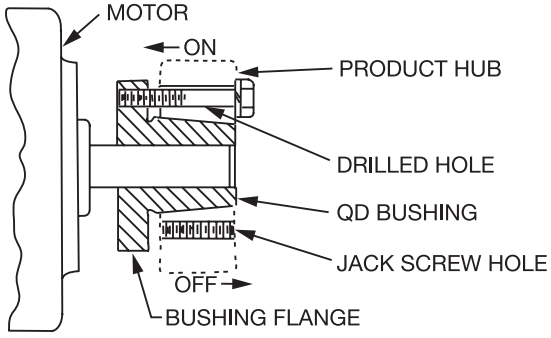
† For reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the application.
Consult factory giving full information on the proposed design. Hub diameters shown are based on 30,000 and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 30 gray iron and steel hubs.

# Features/Benefits
## QD Bushings

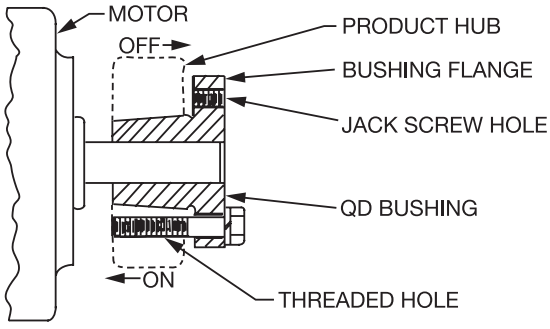


- Easy on/Easy off
- Manufactured precisely to industry standards
- Conventional or Reverse Mounting, including sizes M thru W - Dodge exclusive!
- QD is a registered trademark of Emerson Electric

CONVENTIONAL




REVERSE




## Conventional Mounting

### Easy On

- Place bushing in product
- Align clearance holes in product with threaded holes in bushing
- Install screws and lockwashers thru clearance holes, finger tight
- Slide assembly onto shaft, flange first
- Locate assembly on shaft for proper drive alignment
- Tighten cap screws alternately and evenly to specified torque

### Easy Off

- Remove cap screws and install in product threaded holes
- Alternately and evenly tighten screws until bushing grip is released
- Flanged Design

## Reverse Mounting

### Easy On

- Place bushing in product
- Align clearance holes in product with threaded holes in bushing
- Install screws and lockwashers thru clearance holes, finger tight
- Slide assembly onto shaft, flange outward
- Locate assembly on shaft for proper drive alignment
- Tighten cap screws alternately and evenly to specified torque

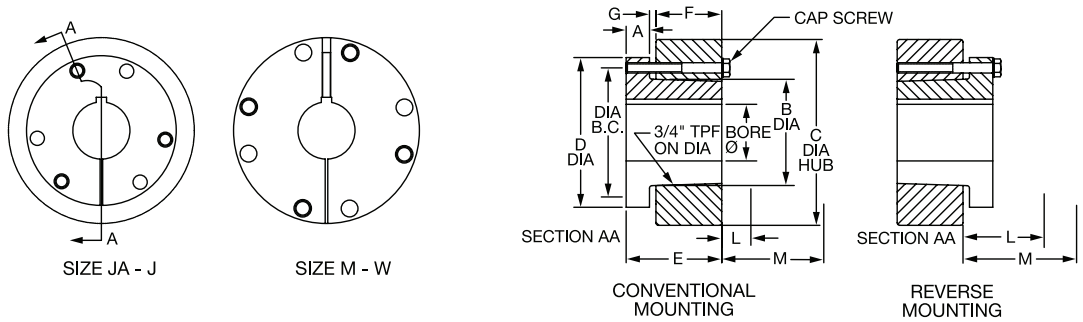
### Easy Off

- Remove cap screws and reinstall in flange threaded holes
- Alternately and evenly tighten screws until bushing grip is released

**IMPORTANT! Do not use lubricants or anti-seize compounds on tapered bore or bushing surfaces.**
**Complete installation instructions are available at dodge.ptplace.com**

# Specification

## QD Bushings - Dimensions




### QD Bushing Ratings And Dimensions

| Bush. Symb. | Ratings (Lb-in) Bush. Torque Cap.* | Bore Range | | | | Dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Min. | Max. Bore for: | | | A | B Dia. | C Hub Dia. | | D Dia. | E | F | G |
| | | | Full KW | Shallow KW | No KW | | | CI 30 Iron | Steel | | | | |
| H | 1000 | 3/8 | 1-1/4 | 1-1/2 | 1-9/16 | 0.35 | 1.63 | 3.00 | 2.375 | 2.50 | 1.35 | 0.94 | 0.12 |
| JA | 1000 | 1/2 | 1 | 1-3/16 | 1-1/4 | 0.31 | 1.38 | 3.93 | 2.25 | 2.00 | 1.00 | 0.56 | 0.12 |
| SH | 3500 | 1/2 | 1-3/8 | 1-5/8 | 1-11/16 | 0.38 | 1.88 | 4.75 | 3.00 | 2.63 | 1.25 | 0.81 | 0.12 |
| SDS | 5000 | 1/2 | 1-5/8 | 1-15/16 | 2 | 0.43 | 2.18 | 4.75 | 3.50 | 3.18 | 1.31 | 0.75 | 0.12 |
| SD | 5000 | 1/2 | 1-5/8 | 1-15/16 | 2 | 0.43 | 2.18 | 3.81 | 3.50 | 3.18 | 1.81 | 1.25 | 0.12 |
| SK | 7000 | 1/2 | 2-1/8 | 2-1/2 | 2-5/8 | 0.50 | 2.81 | 4.75 | 4.50 | 3.88 | 1.88 | 1.25 | 0.22 |
| SF | 11000 | 1/2 | 2-5/16 | 2-15/16 | – | 0.50 | 3.13 | 6.38 | 5.50 | 4.63 | 2.00 | 1.25 | 0.22 |
| E | 20000 | 7/8 | 2-7/8 | 3-1/2 | – | 0.88 | 3.83 | 7.50 | 6.50 | 6.00 | 2.63 | 1.63 | 0.25 |
| F | 30000 | 1 | 3-1/4 | 3-15/16 | 4 | 0.81 | 4.43 | 7.75 | 7.25 | 6.63 | 3.63 | 2.50 | 0.34 |
| J | 45000 | 1-1/2 | 3-3/4 | 4-1/2 | – | 1.13 | 5.14 | 9.00 | 8.00 | 7.25 | 4.63 | 3.18 | 0.38 |
| M | 85000 | 2 | 4-3/4 | 5-1/2 | – | 1.25 | 6.50 | 11.38 | 10.00 | 9.00 | 6.75 | 5.18 | 0.41 |
| N | 150000 | 2-7/16 | 5 | 6 | – | 1.50 | 7.00 | 12.00 | – | 10.00 | 8.12 | 6.25 | 0.56 |
| P | 250000 | 2-15/16 | 5-15/16 | 7 | – | 1.75 | 8.25 | 14.00 | – | 11.75 | 9.38 | 7.25 | 0.63 |
| W | 375000 | 4 | 7-1/2 | 8-1/2 | – | 2.00 | 10.42 | 17.00 | – | 15.00 | 11.38 | 9.00 | 0.50 |
| S | 625000 | 5-1/2 | 9 | 10 | – | 3.25 | 12.13 | 19.00 | – | 17.75 | 15.75 | 12.00 | 0.75 |

* Torque ratings apply when bushing installation screws are tightened to listed torque. Important: Do not over-torque screws. This can lead to hub damage

### Installation Information

| Bush. Sym. | Installation Screws | | | | Required Wrench Clearance | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B. C. Dia. | Qty. | Size | Screw Torque (Lb - in) | Conventional Mounting | | | | Reverse Mounting | | | |
| | | | | | L-Install | | M-Remove | | L-Install | | M-Remove | |
| | | | | | # | @ | # | @ | # | @ | # | @ |
| H | 2 | 2 | 1/4-20 x 7/8 | 90 | 0.41 | 2.53 | 1.13 | 3.25 | 1.13 | 3.25 | 1.56 | 3.68 |
| JA | 1.65 | 3 | 10-24 x 1 | 60 | 0.41 | 2.53 | 1.13 | 3.25 | 1.13 | 3.25 | 1.56 | 3.68 |
| SH | 2.25 | 3 | 1/4-20x 1-3/8 | 108 | 0.54 | 2.61 | 1.51 | 3.58 | 1.51 | 3.58 | 2.08 | 4.13 |
| SDS | 2.69 | 3 | 1/4-20 x 1-3/8 | 108 | 0.59 | 2.66 | 1.56 | 3.63 | 1.56 | 3.63 | 2.13 | 4.18 |
| SD | 2.69 | 3 | 1/4-20 x 1-7/8 | 108 | 0.66 | 2.72 | 2.06 | 4.13 | 2.06 | 4.13 | 2.63 | 4.68 |
| SK | 3.31 | 3 | 5/16-18 x 2 | 180 | 0.72 | 2.66 | 2.19 | 4.19 | 2.25 | 4.25 | 2.32 | 4.94 |
| SF | 3.88 | 3 | 3/8-16 x 2 | 360 | 0.78 | 2.78 | 2.25 | 4.23 | 2.30 | 4.30 | 3.19 | 5.18 |
| E | 5.00 | 3 | 1/2 -13 x 2-3/4 | 720 | 1.12 | 3.06 | 3.00 | 4.93 | 3.05 | 5.00 | 4.30 | 6.25 |
| F | 5.63 | 3 | 9/16-12 x 3-5/8 | 900 | 1.09 | 2.91 | 3.94 | 5.75 | 3.99 | 5.81 | 5.31 | 7.12 |
| J | 6.25 | 3 | 5/8-11 x 4-1/2 | 1620 | 1.28 | 3.09 | 4.81 | 6.62 | 3.80 | 5.62 | 5.37 | 7.18 |
| M | 7.88 | 4 | 3/4-10 x 6-3/4 | 2700 | 2.16 | 4.03 | 7.69 | 9.56 | – | – | – | – |
| N | 8.50 | 4 | 7/8-9 x 8 | 3600 | 2.28 | – | 9.25 | – | – | – | – | – |
| P | 10.00 | 4 | 1-8 x 9-1/2 | 5400 | 3.13 | – | 10.88 | – | – | – | – | – |
| W | 12.75 | 4 | 1-1/8-7 x 11-1/2 | 7200 | 3.88 | – | 13.38 | – | – | – | – | – |
| S | 15.00 | 5 | 1-1/4 -7x 15 | 9000 | 3.75 | – | 16.50 | – | – | – | – | – |

# Using Open-End Wrench
@ Using Socket Wrench

**NOTE: Installation and maintenance instructions for Dodge products available at dodge.ptplace.com**

# Specification

## Bushings For Bushed FHP Sheave - Stock Bore

| QD Bush Size | BORE | P/N Keyway | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| H | 3/8” | **121129** | 0.85 | None | | |
| | 7/16” | **121130** | 0.82 | | | |
| | 1/2” | **121131** | 0.81 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16” | **121133** | 0.80 | | | |
| | 5/8” | **122050** | 0.78 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 11/16” | **121134** | 0.76 | | | |
| | 3/4” | **121162 +** | 0.74 | | | |
| | 3/4” | **122051** | 0.74 | | | |
| | 13/16” | **121136** | 0.70 | | | |
| | 7/8” | **121163 +** | 0.68 | | | |
| | 7/8” | **122052** | 0.68 | | | |
| | 15/16” | **121138** | 0.66 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1” | **121164 +** | 0.62 | | | |
| | 1” | **122053** | 0.62 | | | |
| | 1-1/16” | **121140** | 0.59 | | | |
| | 1-1/8” | **121186 +** | 0.56 | | | |
| | 1-1/8” | **122054** | 0.56 | | | |
| | 1-3/16” | **121187 +** | 0.52 | | | |
| | 1-3/16” | **122055** | 0.52 | | | |
| | 1-1/4” | **122056** | 0.49 | | | |
| | 1-5/16” | **121144** | 0.44 | 5/16 x 1/16 | 5/16 x 5/32 | 5/16 x 7/32 * |
| | 1-3/8” | **121145** | 0.43 | | | |
| | 1-7/16” | **121146** | 0.38 | 3/8 x 1/16 | 3/8 x 3/16 | 3/8 x 1/4 * |
| | 1-1/2” | **121147** | 0.34 | | | |
| | 14MM | **121148** | 0.79 | 5 x 2.3MM | 5 x 3MM | 5 x 5MM |
| | 19MM | **121149** | 0.74 | 6 x 2.8MM | 6 x 3.5MM | 6 x 6MM |
| | 20MM | **121467** | 0.73 | | | |
| | 25MM | **121151** | 0.63 | 8 X 3.3MM | 8 X 4MM | 8 X 7MM |
| | 28MM | **151152** | 0.57 | | | |
| | 30MM | **121153** | 0.53 | | | |
| | 32MM | **121154** | 0.50 | 10 x 3.3MM | 10 X 5MM | 10 X 7MM |

P/N’s marked (+) are Integral Key Bushings

Bore sizes marked (#) will be supplied with 1/2” wide keyway unless the 5/8” wide keyway

is specified when ordering

* Key furnished for these sizes ONLY

## QD Bushings - Stock Bore

| QD Bush Size | Bore | P/N | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| JA | 1/2” | **120332** | 0.46 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16” | **120333** | 0.46 | | | |
| | 5/8” | **120334** | 0.45 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 11/16” | **120335** | 0.43 | | | |
| | 3/4” | **120336** | 0.41 | | | |
| | 13/16” | **120337** | 0.40 | | | |
| | 7/8” | **120338** | 0.37 | | | |
| | 15/16” | **120339** | 0.35 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1” | **120340** | 0.33 | | | |
| | 1-1/16” | **120341** | 0.34 | 1/4 x 1/16 | 1/4 x 1/8 | 1/4 x 3/16 * |
| | 1-1/8” | **120342** | 0.31 | | | |
| | 1-3/16” | **120343** | 0.29 | | | |
| | 1-1/4” | **120344** | 0.25 | None | | |
| | 19MM | **117049** | 0.42 | 6 x 2.8MM | 6 x 3.5MM | 6 x 6MM |
| | 20MM | **120329** | 0.41 | | | |
| | 22MM | **117043** | 0.40 | | | |
| SH | 1/2” | **120345** | 1.16 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16” | **120346** | 1.14 | | | |
| | 5/8” | **120347** | 1.14 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 11/16” | **120348** | 1.14 | | | |
| | 3/4” | **120349** | 1.10 | | | |
| | 13/16” | **120350** | 1.07 | | | |
| | 7/8” | **120351** | 1.04 | | | |
| | 15/16” | **120352** | 1.00 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1” | **120353** | 0.98 | | | |
| | 1-1/16” | **120354** | 0.94 | | | |
| | 1-1/8” | **120355** | 0.91 | | | |
| | 1-3/16” | **120356** | 0.88 | | | |
| | 1-1/4” | **120357** | 0.84 | | | |
| | 1-5/16” | **120358** | 0.82 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8” | **120359** | 0.80 | | | |
| | 1-7/16” | **120360** | 0.79 | 3/8 x 1/16 | 3/8 x 3/16 | 3/8 x 1/4 * |
| | 1-1/2” | **120361** | 0.75 | | | |
| | 1-9/16” | **120362** | 0.90 | | | |
| | 1-5/8” | **120363** | 0.64 | | | |
| | 1-11/16” | **120580** | 0.55 | None | | |
| | 24MM | **120088** | 1.00 | 8 X 3.3MM | 8 X 4MM | 8 X 7MM |
| | 25MM | **120089** | 0.99 | | | |
| | 28MM | **120090** | 0.93 | | | |
| | 30MM | **120091** | 0.87 | | | |
| | 32MM | **120092** | 0.82 | 10 X 3.3MM | 10 X 5MM | 10 X 8MM |
| | 35MM | **120093** | 0.74 | | | |

# Specification

## QD Bushings - Stock Bore

| QD Bush Size | Bore | P/N | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| SDS | 1/2” | **120388** | 1.65 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16” | **120389** | 1.65 | | | |
| | 5/8” | **120390** | 1.61 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 11/16” | **120391** | 1.60 | | | |
| | 3/4” | **120392** | 1.58 | | | |
| | 13/16” | **120393** | 1.54 | | | |
| | 7/8” | **120394** | 1.54 | | | |
| | 15/16” | **120395** | 1.50 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1” | **120396** | 1.46 | | | |
| | 1-1/16” | **120397** | 1.43 | | | |
| | 1-1/8” | **120398** | 1.38 | | | |
| | 1-3/16” | **120399** | 1.36 | | | |
| | 1-1/4” | **120400** | 1.32 | | | |
| | 1-5/16” | **120401** | 1.26 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8” | **120402** | 1.24 | | | |
| SDS (cont) | 1-7/16” | **120403** | 1.19 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2” | **120404** | 1.15 | | | |
| | 1-9/16” | **120405** | 1.11 | | | |
| | 1-5/8” | **120406** | 1.08 | | | |
| | 1-11/16” | **120407** | 1.08 | 3/8 x 1/8 | 3/8 x 3/16 | 3/8 x 5/16 * |
| | 1-3/4” | **120408** | 1.02 | | | |
| | 1-13/16” | **120409** | 0.98 | 1/2 x 1/16 | 1/2 x 1/4 | 1/2 x 5/16 * |
| | 1-7/8” | **120410** | 0.92 | | | |
| | 1-15/16” | **120411** | 0.87 | | | |
| | 2” | **120412** | 0.77 | None | | |
| | 24MM | **120094** | 1.47 | 8 X 3.3MM | 8 X 4MM | 8 X 7MM |
| | 25MM | **120095** | 1.47 | | | |
| | 28MM | **120096** | 1.41 | | | |
| | 30MM | **120097** | 1.36 | | | |
| | 32MM | **120098** | 1.31 | 10 X 3.3MM | 10 X 5MM | 10 X 8MM |
| | 35MM | **120099** | 1.22 | | | |
| | 38MM | **120100** | 1.00 | | | |
| | 40MM | **120101** | 1.01 | 12 X 3.3MM | 12 X 5MM | 12 X 8MM |
| | 42MM | **120102** | 1.02 | | | |

| QD Bush Size | Bore | P/N | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| SD | 1/2” | **120364** | 2.07 | 1/8 x 1/16 | 1/8 x 1/16 | 1/8 x 1/8 |
| | 9/16” | **120365** | 2.05 | | | |
| | 5/8” | **120366** | 2.03 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 11/16” | **120367** | 2.00 | | | |
| | 3/4” | **120368** | 2.00 | | | |
| | 13/16” | **120369** | 2.00 | | | |
| | 7/8” | **120370** | 1.88 | | | |
| | 15/16” | **120371** | 1.85 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1” | **120372** | 1.80 | | | |
| | 1-1/16” | **120373** | 1.79 | | | |
| | 1-1/8” | **120374** | 1.72 | | | |
| | 1-3/16” | **120375** | 1.67 | | | |
| | 1-1/4” | **120376** | 1.62 | | | |
| | 1-5/16” | **120377** | 1.55 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8” | **120378** | 1.50 | | | |
| | 1-7/16” | **120379** | 1.44 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2” | **120380** | 1.36 | | | |
| | 1-9/16” | **120381** | 1.29 | | | |
| | 1-5/8” | **120382** | 1.29 | | | |
| | 1-11/16” | **120383** | 1.20 | | | |
| | 1-3/4” | **120384** | 1.19 | 3/8 x 1/8 | 3/8 x 3/16 | 3/8 x 5/16 * |
| | 1-13/16” | **120385** | 1.15 | 1/2 x 1/16 | 1/2 x 1/4 | 1/2 x 5/16 * |
| | 1-7/8” | **120386** | 1.07 | | | |
| | 1-15/16” | **120387** | 1.00 | | | |
| | 2” | **120581** | 0.84 | None | | |
| | 24MM | **120103** | 1.84 | 8 X 3.3MM | 8 X 4MM | 8 X 7MM |
| | 25MM | **120104** | 1.82 | | | |
| | 28MM | **120105** | 1.72 | | | |
| | 30MM | **120106** | 1.66 | | | |
| | 32MM | **120107** | 1.58 | 10 X 3.3MM | 10 X 5MM | 10 X 8MM |
| | 35MM | **120108** | 1.49 | | | |
| | 38MM | **120109** | 1.37 | | | |
| | 40MM | **120110** | 1.28 | 12 X 3.3MM | 12 X 5MM | 12 X 8MM |
| | 42MM | **120111** | 1.18 | | | |

P/N’s marked (+) are Integral Key Bushings

Bore sizes marked (#) will be supplied with 1/2” wide keyway unless the 5/8” wide keyway

is specified when ordering

* Key furnished for these sizes ONLY

# Specification

## QD Bushings - Stock Bore

| QD Bush Size | Bore | P/N | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| SF (cont) | 1-5/16" | **120461** | 4.71 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | **120462** | 4.61 | | | |
| | 1-7/16" | **120463** | 4.57 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **120464** | 4.48 | | | |
| | 1-9/16" | **120465** | 4.42 | | | |
| | 1-5/8" | **120466** | 4.32 | | | |
| | 1-11/16" | **120467** | 4.31 | | | |
| | 1-3/4" | **120468** | 4.16 | | | |
| | 1-13/16" | **120469** | 4.06 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | **120470** | 4.00 | | | |
| | 1-15/16" | **120471** | 3.87 | | | |
| | 2" | **120472** | 3.78 | | | |
| | 2-1/16" | **120473** | 3.70 | | | |
| | 2-1/8" | **120474** | 3.57 | | | |
| | 2-3/16" | **120475** | 3.45 | | | |
| | 2-1/4" | **120476** | 3.38 | | | |
| | 2-5/16" | **120477** | 3.32 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8" | **120478** | 3.39 | 5/8 x 3/16 | 5/8 x 5/16 | 5/8 x 1/2 * |
| | 2-7/16" | **120479** | 3.26 | | | |
| | 2-1/2" | **120592** | 3.16 | | | |
| | 2-5/8" | **120482** | 2.91 | 5/8 x 1/16 | 5/8 x 5/16 | 5/8 x 3/8 * |
| | 2-11/16" | **120483** | 2.80 | | | |
| | 2-3/4" | **120484** | 2.59 | | | |
| | 2-13/16" | **120485** | 2.50 | 3/4 x 1/16 | 3/4 x 3/8 | 3/4 x 7/16 * |
| | 2-7/8" | **120486** | 2.35 | 3/4 x 1/32 | 3/4 x 3/8 | 3/4 x 13/32 * |
| | 2-15/16" | **120487** | 2.22 | | | |
| | 28MM | **120124** | 5.00 | 8 X 3.3MM | 8 X 4MM | 8 X 7MM |
| | 30MM | **120125** | 4.90 | | | |
| | 32MM | **120126** | 4.77 | 10 X 3.3MM | 10 X 5MM | 10 X 8MM |
| | 35MM | **120127** | 4.61 | | | |
| | 38MM | **120128** | 4.48 | | | |
| | 40MM | **120129** | 4.42 | 12 X 3.3MM | 12 X 5MM | 12 X 8MM |
| | 42MM | **120130** | 4.32 | | | |
| | 45MM | **120071** | 4.16 | 14 X 3.8MM | 14 X 5.5MM | 14 X 9MM |
| | 48MM | **120131** | 4.00 | | | |
| | 50MM | **120132** | 3.87 | | | |
| | 55MM | **120133** | 3.57 | 16 X 4.3MM | 16 X 6MM | 16 X 10MM |
| | 60MM | **120134** | 3.39 | 18 X 4.4MM | 18 X 7MM | 18 X 11MM |
| E | 7/8" | **120488** | 11.80 | 3/16 x 3/32 | 3/16 x 3/32 | 3/16 x 3/16 |
| | 1" | **120490** | 11.65 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1-1/8" | **120492** | 11.46 | | | |
| | 1-3/16" | **120493** | 11.40 | | | |
| | 1-1/4" | **120494** | 11.33 | | | |
| | 1-5/16" | **120495** | 11.26 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-3/8" | **120496** | 11.20 | | | |
| | 1-7/16" | **120497** | 11.13 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2" | **120498** | 10.86 | | | |
| | 1-9/16" | **120499** | 10.82 | | | |
| | 1-5/8" | **120500** | 10.69 | | | |
| | 1-11/16" | **120501** | 10.56 | | | |
| | 1-3/4" | **120502** | 10.46 | | | |
| E (cont) | 1-13/16" | **120503** | 10.16 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8" | **120504** | 10.16 | | | |
| | 1-15/16" | **120505** | 10.16 | | | |
| | 2" | **120506** | 10.01 | | | |
| | 2-1/16" | **120507** | 9.85 | | | |
| | 2-1/8" | **120508** | 9.73 | | | |
| | 2-3/16" | **120509** | 9.42 | | | |
| | 2-1/4" | **120510** | 9.42 | | | |
| | 2-5/16" | **120511** | 9.07 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8" | **120512** | 8.95 | | | |
| | 2-7/16" | **120513** | 8.77 | | | |
| | 2-1/2" | **120514** | 8.72 | | | |
| | 2-5/8" | **120516** | 8.37 | | | |
| | 2-11/16" | **120517** | 8.05 | | | |
| | 2-3/4" | **120518** | 7.90 | | | |
| | 2-13/16" | **120519** | 7.70 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-7/8" | **120520** | 7.32 | | | |
| | 2-15/16" | **120521** | 7.53 | 3/4 x 1/8 | 3/4 x 3/8 | 3/4 x 1/2 * |
| | 3" | **120522** | 7.31 | | | |
| | 3-1/8" | **120524** | 6.90 | | | |
| | 3-3/16" | **120525** | 6.69 | | | |
| | 3-1/4" | **120526** | 6.48 | | | |
| | 3-5/16" | **120527** | 6.10 | 7/8 x 1/8 | 7/8 x 7/16 | 7/8 x 9/16 * |
| | 3-3/8" | **120528** | 6.21 | 7/8 x 1/16 | 7/8 x 7/16 | 7/8 x 1/2 * |
| | 3-7/16" | **120529** | 5.86 | | | |
| | 3-1/2" | **120530** | 5.73 | | | |
| | 28MM | **120073** | 10.20 | 8 X 3.3MM | 8 X 4MM | 8 X 7MM |
| | 30MM | **120074** | 10.20 | | | |
| | 32MM | **120075** | 10.20 | 10 X 3.3MM | 10 X 5MM | 10 X 8MM |
| | 35MM | **120135** | 10.20 | | | |
| | 38MM | **120136** | 10.00 | | | |
| | 40MM | **120137** | 10.88 | 12 X 3.3MM | 12 X 5MM | 12 X 8MM |
| | 42MM | **120138** | 9.80 | | | |
| | 45MM | **120141** | 9.60 | 14 X 3.8MM | 14 X 5.5MM | 14 X 9MM |
| | 48MM | **120139** | 10.26 | | | |
| | 50MM | **120140** | 10.06 | | | |
| | 55MM | **120142** | 9.56 | 16 X 4.3MM | 16 X 6MM | 16 X 10MM |
| | 60MM | **120143** | 9.10 | 18 X 4.4MM | 18 X 7MM | 18 X 11MM |
| | 65MM | **120144** | 9.60 | | | |
| | 70MM | **120145** | 7.87 | 20 X 4.9MM | 20 x 7.5MM | 20 X 12MM |
| | 75MM | **120146** | 7.28 | | | |

P/N's marked (+) are Integral Key Bushings

Bore sizes marked (#) will be supplied with 1/2" wide keyway unless the 5/8" wide keyway

is specified when ordering

* Key furnished for these sizes ONLY

# Specification

## QD Bushings - Stock Bore

| QD Bush Size | Bore | P/N | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| F | 1” | **120531** | 19.41 | 1/4 x 1/8 | 1/4 x 1/8 | 1/4 x 1/4 |
| | 1-1/8” | **120533** | 19.15 | | | |
| | 1-3/16” | **120534** | 18.00 | | | |
| | 1-1/4” | **120535** | 18.99 | | | |
| | 1-3/8” | **120537** | 18.68 | 5/16 x 5/32 | 5/16 x 5/32 | 5/16 x 5/16 |
| | 1-7/16” | **120538** | 18.56 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-1/2” | **120539** | 18.48 | | | |
| | 1-9/16” | **120540** | 18.40 | | | |
| | 1-5/8” | **120541** | 18.15 | | | |
| | 1-11/16” | **120542** | 17.91 | | | |
| | 1-3/4” | **120543** | 16.77 | | | |
| | 1-13/16” | **120544** | 17.62 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-7/8” | **120545** | 16.41 | | | |
| | 1-15/16” | **120546** | 16.00 | | | |
| | 2” | **120547** | 16.00 | | | |
| | 2-1/16” | **120548** | 16.00 | | | |
| | 2-1/8” | **120549** | 15.95 | | | |
| | 2-3/16” | **120550** | 15.95 | | | |
| | 2-1/4” | **120551** | 15.95 | | | |
| F (cont) | 2-5/16” | **120552** | 15.95 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-3/8” | **120553** | 15.50 | | | |
| | 2-7/16” | **120554** | 15.50 | | | |
| | 2-1/2” | **120555** | 15.37 | | | |
| | 2-5/8” | **120557** | 14.86 | | | |
| | 2-11/16” | **120558** | 14.50 | | | |
| | 2-3/4” | **120559** | 14.37 | | | |
| | 2-13/16” | **120560** | 14.00 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-7/8” | **120561** | 14.02 | | | |
| | 2-15/16” | **120562** | 13.47 | | | |
| | 3” | **120563** | 13.20 | | | |
| | 3-1/8” | **120565** | 12.67 | | | |
| | 3-3/16” | **120566** | 12.50 | | | |
| | 3-1/4” | **120567** | 12.00 | | | |
| | 3-3/8” | **120569** | 12.00 | 7/8 x 3/16 | 7/8 x 7/16 | 7/8 x 5/8 * |
| | 3-7/16” | **120570** | 11.88 | | | |
| | 3-1/2” | **120571** | 11.40 | | | |
| | 3-5/8” | **120573** | 10.53 | | | |
| | 3-11/16” | **120574** | 14.00 | | | |
| | 3-3/4” | **120575** | 9.89 | | | |
| | 3-7/8” | **120577** | 9.26 | 1 x 1/8 | 1 x 1/2 | 1 x 5/8 * |
| | 3-15/16” | **120578** | 9.23 | | | |
| | 4” | **120579** | 7.96 | None | | |
| | 45MM | **120076** | 16.20 | 14 X 3.8MM | 14 X 5.5MM | 14 X 9MM |
| | 48MM | **120147** | 16.00 | | | |
| | 50MM | **120148** | 15.80 | | | |
| | 55MM | **120149** | 15.80 | 16 X 4.3MM | 16 X 6MM | 16 X 10MM |
| | 60MM | **120150** | 15.80 | 18 X 4.4MM | 18 X 7MM | 18 X 11MM |
| | 65MM | **120151** | 14.30 | | | |
| | 70MM | **120152** | 14.30 | 20 X 4.9MM | 20 x 7.5MM | 20 X 12MM |
| | 75MM | **120153** | 13.50 | | | |
| | 80MM | **120154** | 12.55 | 22 X 5.4MM | 22 X 9MM | 22 X 14MM |
| | 85MM | **120155** | 10.60 | | | |
| | 90MM | **120077** | 10.50 | 25 X 5.4MM | 25 X 9MM | 25 X 14MM |

| QD Bush Size | Bore | P/N | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| J | 1-1/2” | **120600** | 28.97 | 3/8 x 3/16 | 3/8 x 3/16 | 3/8 x 3/8 |
| | 1-5/8” | **120601** | 28.61 | | | |
| | 1-3/4” | **120603** | 28.28 | | | |
| | 1-7/8” | **120604** | 27.79 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 1-15/16” | **120605** | 27.53 | | | |
| | 2” | **120606** | 27.33 | | | |
| | 2-1/8” | **120607** | 26.74 | | | |
| | 2-3/16” | **120608** | 26.37 | | | |
| | 2-1/4” | **120609** | 26.32 | | | |
| | 2-3/8” | **120610** | 25.65 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-7/16” | **120611** | 25.52 | | | |
| | 2-1/2” | **120612** | 25.05 | | | |
| | 2-5/8” | **120613** | 24.50 | | | |
| | 2-11/16” | **120614** | 24.18 | | | |
| | 2-3/4” | **120615** | 23.86 | | | |
| J (cont) | 2-7/8” | **120617** | 23.15 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-15/16” | **120618** | 23.07 | | | |
| | 3” | **120619** | 22.43 | | | |
| | 3-1/8” | **120620** | 21.68 | | | |
| | 3-3/16” | **120621** | 21.35 | | | |
| | 3-1/4” | **120622** | 20.98 | | | |
| | 3-3/8” | **120623** | 20.33 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-7/16” | **120624** | 21.13 | | | |
| | 3-1/2” | **120625** | 19.58 | | | |
| | 3-5/8” | **120626** | 18.44 | | | |
| | 3-11/16” | **120627** | 18.04 | | | |
| | 3-3/4” | **120628** | 17.62 | | | |
| | 3-7/8” | **120629** | 17.94 | 1 x 1/8 | 1 x 1/2 | 1 x 5/8 * |
| | 3-15/16” | **120630** | 17.38 | | | |
| | 4” | **120631** | 16.62 | | | |
| | 4-1/8” | **120632** | 15.69 | | | |
| | 4-3/16” | **120633** | 14.55 | | | |
| | 4-1/4” | **120634** | 14.68 | | | |
| | 4-3/8” | **120635** | 14.00 | | | |
| | 4-7/16” | **120636** | 13.49 | | | |
| | 4-1/2” | **120637** | 12.67 | | | |
| | 50MM | **120157** | 26.50 | 14 X 3.8MM | 14 X 5.5MM | 14 X 9MM |
| | 55MM | **120158** | 25.60 | 16 X 4.3MM | 16 X 6MM | 16 X 10MM |
| | 60MM | **120159** | 25.82 | 18 X 4.4MM | 18 X 7MM | 18 X 11MM |
| | 65MM | **120160** | 25.25 | | | |
| | 70MM | **120161** | 24.04 | 20 X 4.9MM | 20 x 7.5MM | 20 X 12MM |
| | 75MM | **120162** | 21.90 | | | |
| | 80MM | **120163** | 20.90 | 22 X 5.4MM | 22 X 9MM | 22 X 14MM |
| | 85MM | **120164** | 20.52 | | | |
| | 90MM | **120165** | 18.10 | 25 X 5.4MM | 25 X 9MM | 25 X 14MM |
| | 95MM | **120166** | 16.80 | | | |
| | 100MM | **120167** | 16.50 | 28 X 6.4MM | 28 X 10MM | 28 X 16MM |

P/N’s marked (+) are Integral Key Bushings

Bore sizes marked (#) will be supplied with 1/2” wide keyway unless the 5/8” wide keyway

is specified when ordering

* Key furnished for these sizes ONLY

# Specification

## QD Bushings - Stock Bore

| QD Bush Size | Bore | P/N | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| M | 2” | **119900** | 62.65 | 1/2 x 1/4 | 1/2 x 1/4 | 1/2 x 1/2 |
| | 2-1/8” | **119901** | 62.65 | | | |
| | 2-3/16” | **119902** | 61.58 | | | |
| | 2-1/4” | **119903** | 61.14 | | | |
| | 2-3/8” | **119904** | 59.50 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-7/16” | **119905** | 59.35 | | | |
| | 2-1/2” | **119906** | 59.21 | | | |
| | 2-5/8” | **119907** | 58.69 | | | |
| | 2-3/4” | **119908** | 57.86 | | | |
| | 2-7/8” | **119909** | 56.57 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 2-15/16” | **119910** | 56.17 | | | |
| | 3” | **119911** | 56.10 | | | |
| | 3-1/8” | **119912** | 55.82 | | | |
| | 3-3/16” | **119913** | 53.84 | | | |
| | 3-1/4” | **119914** | 53.42 | | | |
| | 3-3/8” | **119915** | 52.06 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-7/16” | **119916** | 52.04 | | | |
| | 3-1/2” | **119917** | 51.12 | | | |
| | 3-5/8” | **119918** | 50.08 | | | |
| | 3-11/16” | **119919** | 49.00 | | | |
| | 3-3/4” | **119920** | 48.47 | | | |
| | 3-7/8” | **119921** | 47.03 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 3-15/16” | **119922** | 46.26 | | | |
| | 4” | **119923** | 46.09 | | | |
| | 4-1/8” | **119924** | 44.31 | | | |
| | 4-3/16” | **119925** | 43.64 | | | |
| | 4-1/4” | **119926** | 42.81 | | | |
| M (cont) | 4-3/8” | **119927** | 41.46 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 4-7/16” | **119928** | 40.60 | | | |
| | 4-1/2” | **119929** | 40.27 | | | |
| | 4-11/16” | **119930** | 37.12 | 1-1/4 x 5/8 | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 |
| | 4-3/4” | **119931** | 37.00 | | | |
| | 4-7/8” | **119932** | 36.89 | 1-1/4 x 1/4 | 1-1/4 x 5/8 | 1-1/4 x 7/8 * |
| | 4-15/16” | **119933** | 36.13 | | | |
| | 5” | **119934** | 35.66 | | | |
| | 5-1/8” | **119899** | 35.00 | | | |
| | 5-3/16” | **119894** | 35.00 | | | |
| | 5-1/4” | **119935** | 30.00 | | | |
| | 5-7/16” | **119936** | 30.00 | | | |
| | 5-1/2” | **119937** | 29.00 | | | |

P/N’s marked (+) are Integral Key Bushings

Bore sizes marked (#) will be supplied with 1/2” wide keyway unless the 5/8” wide keyway

is specified when ordering

* Key furnished for these sizes ONLY

| QD Bush Size | Bore | P/N | WT. | Bushing Keyway | Shaft Keyway REF | Key Size REF |
|---|---|---|---|---|---|---|
| N | 2-7/16” | **119940** | 87.57 | 5/8 x 5/16 | 5/8 x 5/16 | 5/8 x 5/8 |
| | 2-15/16” | **119941** | 83.00 | 3/4 x 3/8 | 3/4 x 3/8 | 3/4 x 3/4 |
| | 3-7/16” | **119942** | 80.00 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-1/2” | **119980** | 80.00 | | | |
| | 3-3/4” | **119943** | 80.00 | | | |
| | 3-7/8” | **119944** | 80.00 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 3-15/16” | **119945** | 80.00 | | | |
| | 4” | **119946** | 80.00 | | | |
| | 4-3/16” | **119947** | 80.00 | | | |
| | 4-1/4” | **119948** | 80.00 | | | |
| | 4-3/8” | **119982** | 79.00 | | | |
| | 4-7/16” | **119949** | 78.00 | | | |
| | 4-1/2” | **119950** | 77.00 | | | |
| | 4-11/16” | **119983** | 76.00 | 1-1/4 x 5/8 | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 |
| | 4-3/4” | **119951** | 75.00 | | | |
| | 4-7/8” | **119952** | 74.00 | | | |
| | 4-15/16” | **119953** | 73.00 | | | |
| | 5” | **119954** | 72.00 | | | |
| | 5-1/8” | **119955** | 71.00 | 1-1/4 x 1/4 | 1-1/4 x 5/8 | 1-1/4 x 7/8 * |
| | 5-3/16” | **119986** | 70.50 | | | |
| | 5-1/4” | **119956** | 70.00 | | | |
| | 5-7/16” | **119957** | 52.19 | | | |
| | 5-1/2” | **119958** | 49.02 | | | |
| | 5-3/4” | **119959** | 49.00 | 1-1/2 x 1/8 | 1-1/2 x 3/4 | 1-1/2 x 7/8 * |
| | 5-7/8” | **119960** | 44.00 | | | |
| | 5-15/16” | **119961** | 43.00 | | | |
| | 6” | **119962** | 42.00 | | | |
| P | 3-7/16” | **119965** | 134.00 | 7/8 x 7/16 | 7/8 x 7/16 | 7/8 x 7/8 |
| | 3-15/16” | **119966** | 122.00 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 4” | **119987** | 122.00 | | | |
| | 4-7/16” | **119967** | 122.40 | | | |
| | 4-1/2” | **119968** | 121.00 | | | |
| | 4-3/4” | **119969** | 120.00 | 1-1/4 x 5/8 | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 |
| | 4-7/8” | **119985** | 120.00 | | | |
| | 4-15/16” | **119970** | 119.00 | | | |
| | 5” | **119971** | 115.00 | | | |
| | 5-3/16” | **119984** | 114.00 | | | |
| | 5-7/16” | **119972** | 113.00 | | | |
| | 5-1/2” | **119973** | 100.00 | | | |
| | 5-15/16” | **119974** | 94.00 | 1-1/2 x 1/4 | 1-1/2 x 3/4 | 1-1/2 x 1 * |
| | 6” | **119975** | 93.70 | | | |
| | 6-7/16” | **119976** | 83.50 | | | |
| | 6-1/2” | **119977** | 80.50 | | | |
| | 7” | **119978** | 68.00 | 1-3/4 x 1/8 | 1-3/4 x 3/4 | 1-3/4 x 7/8 * |
| W | 4-1/4” | **120180** | 260.00 | 1 x 1/2 | 1 x 1/2 | 1 x 1 |
| | 4-7/16” | **120181** | 256.60 | | | |
| | 4-1/2” | **120182** | 255.40 | | | |
| | 4-3/4” | **120183** | 250.00 | 1-1/4 x 5/8 | 1-1/4 x 5/8 | 1-1/4 x 1-1/4 |
| | 5” | **120186** | 244.30 | | | |
| | 5-3/8” | **120188** | 235.30 | | | |
| | 5-1/2” | **120189** | 232.20 | | | |
| | 5-3/4” | **120190** | 225.70 | 1-1/2 x 3/4 | 1-1/2 x 3/4 | 1-1/2 x 1-1/2 |
| | 5-7/8” | **120191** | 222.30 | | | |
| | 5-15/16” | **120192** | 220.00 | | | |
| | 6” | **120193** | 218.90 | | | |
| | 6-1/2” | **120194** | 215.00 | | | |
| | 6-3/4” | **120328** | 210.00 | 1-3/4 x 3/4 | 1-3/4 x 3/4 | 1-3/4 x 1-1/2 |
| | 7” | **120196** | 184.90 | | | |
| | 7-1/4” | **120197** | 184.40 | | | |
| | 7-1/2” | **120198** | 175.80 | | | |
| | 7-3/4” | **120199** | 172.00 | 2 x 1/4 | 2 x 3/4 | 2 x 1 * |
| | 8” | **120200** | 159.70 | | | |
| S | ▼ Bushings size available please call Dodge for information | | | | | |

# Specification

## QD Reborable

| QD Bush Size | Sintered Steel | | Cast Iron | | Ductile Iron | |
|---|---|---|---|---|---|---|
| | Bore | P/N | Bore | P/N | Bore | P/N |
| QT (L) | 3/8” | **120595** | – | – | – | – |
| JA | 1/2” | **120050** | – | – | – | – |
| SH | 1/2” | **120051** | – | – | 1/2” | **119876** |
| SDS | 1/2” | **120052** | – | – | 1-7/16” | **119877** |
| SD | 1/2” | **120053** | – | – | 1-9/16” | **119878** |
| SK | 1/2” | **120054** | – | – | 2” | **119879** |
| SF | 1/2” | **120055** | – | – | 2-5/16” | **119880** |
| E | – | – | 7/8” | **120056** | 7/8” | **119881** |
| F | – | – | 1” | **120057** | 1” | **119875** |
| J | – | – | 1-1/2” | **120058** | 1-1/2” | **119883** |
| M | – | – | 2” | **119938** | 2” | **119884** |
| N | – | – | 2-7/16” | **119963** | 2-7/16” | **119885** |
| P | – | – | 3-7/16” | **119979** | 3-7/16” | **119886** |
| W | – | – | 4” | **120276** | – | – |
| S | – | – | 5-1/2” | **394059** | – | – |

**NOTE:** All reborable bushings are stocked without sawsplit to facilitate re-maching. Sawsplit must be made in bushing to allow it to compress for proper gripping of the shaft. Factory rebore and keyseat service as listed in MLP price book includes sawsplit.

## QD - Maximum Bore Capacities

| QD Bush Size | Sintered Steel | | | Cast Iron | | | Ductile Iron | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Full Key | Shallow Key | Metric | Full Key | Shallow Key | Metric | Full Key | Shallow Key | No Key* | Metric |
| QT (L) | – | – | – | – | – | – | – | – | – | – |
| JA | 1” | 1-1/16” | 25 | – | – | – | 1” | 1-3/16” | 1-1/4” | 25 |
| SH | 1-1/4” | 1-1/4” | 30 | – | – | – | 1-3/8” | 1-5/8” | 1-11/16” | 35 |
| SDS | 1-9/16” | 1-5/8” | 40 | – | – | – | 1-5/8” | 1-15/16” | 2” | 42 |
| SD | 1-9/16” | 1-9/16” | 40 | – | – | – | 1-11/16” | 1-15/16” | 2” | 42 |
| SK | 2” | 2-1/16” | 50 | – | – | – | 2-1/2” | 2-1/2” | 2-5/8” | 55 |
| SF | 2-1/4” | 2-3/8” | 55 | – | – | – | 2-5/16” | 2-15/16” | 2-15/16” | 65 |
| E | – | – | – | 2-3/4” | 3” | 70 | 2-7/8” | 3-1/2” | 3-1/2” | 89 |
| F | – | – | – | 3-1/4” | 3-7/16” | 90 | 3-1/4” | 3-15/16” | 4” | 101 |
| J | – | – | – | 3-3/4” | 3-7/8” | 100 | 3-3/4” | 4-1/2” | 4-1/2” | 114 |
| M | – | – | – | 4-3/4” | 5” | 120 | 4-3/4” | 5-1/2” | 5-1/2” | 139 |
| N | – | – | – | 5” | 5-1/4” | 130 | 5” | 6” | 6” | 149 |
| P | – | – | – | 5-1/2” | 7” | 160 | 5-1/2” | 7” | 7” | 177 |
| W | – | – | – | 6-1/2” | 8” | 165 | 6-1/2” | 8-1/2” | 8-1/2” | 216 |
| S | – | – | – | 8-1/4” | 8-1/4” | 209 | 8-1/4 | 10” | 10” | 250 |

**NOTE:** ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH
MM Bore and Keyway dimensions conform to ISO standard recommendation R773, for “Free” fit

**REFERENCE:**

1 inch = 25.4 millimeters

1 millimeter = .03937 inches

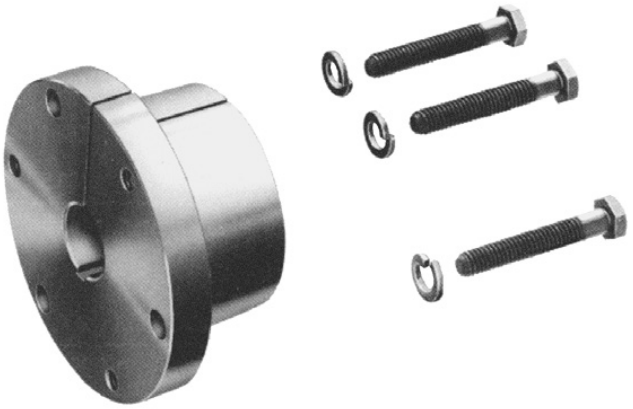
* Verify torque capacity: Contact Application Engineering for assistance

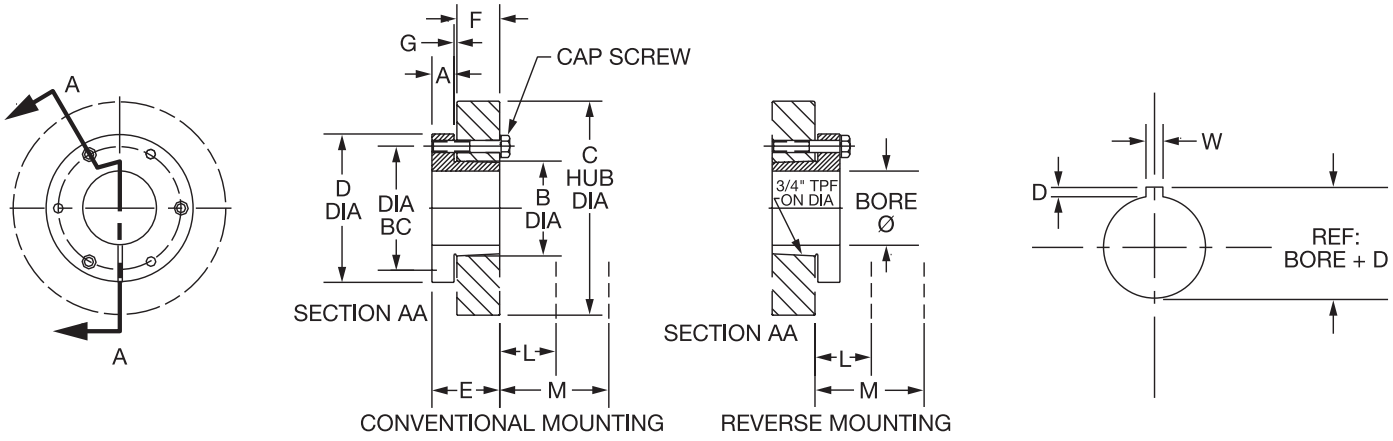
# Specification

## QD Bushing - Metric Bore/Metric Hardware

### Features

- Dodge QD-style bushings stocked in popular finish bore sizes and minimum plain bore, for custom reboring
- Dodge Metric QD bushings supplied with metric hex-head cap screws and lock washers
- Stock reborable bushings available for custom reboring
- Reboring and sawsplit available from Dodge for nominal extra charge
  NOTE: Rebore by others must be sawsplit after rebore
- Can be used with Dodge HTD sprockets for conventional mounting only (English thread hardware required for demounting.)





# Specification

## QD Bushing - Metric Bore/Metric Hardware

### Stock Reborable Bushings and Specifications

| Bush Sym | Ductile Iron Part No. | Max Bore | Stock Bore | Dimensions (MM) A MM | B MM | C Hub Dia Iron | C Hub Dia Steel | D MM | E MM | F MM | G MM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **H** | **119861** | 35 | 10.00 | 6.40 | 41.40 | 76.20 | 69.90 | 63.50 | 33.30 | 22.20 | 4.80 |
| **JA** | **119860** | 25 | 12.70 | 7.90 | 35.10 | 99.80 | 57.20 | 50.80 | 25.40 | 14.20 | 3.10 |
| **SH** | **119862** | 36 | 12.70 | 10.90 | 47.80 | 120.70 | 76.20 | 66.80 | 33.30 | 20.60 | 3.10 |
| **SDS** | **119863** | 42 | 36.51 | 10.90 | 55.40 | 120.70 | 88.90 | 80.80 | 33.30 | 19.10 | 3.10 |
| **SD** | **119864** | 42 | 39.69 | 10.90 | 55.40 | 96.80 | 88.90 | 80.80 | 46.00 | 31.80 | 3.10 |
| **SK** | **119865** | 55 | 50.80 | 14.20 | 71.40 | 120.70 | 114.30 | 98.60 | 49.00 | 31.80 | 5.60 |
| **SF** | **119866** | 60 | 58.74 | 16.00 | 79.50 | 162.10 | 139.70 | 117.60 | 52.30 | 31.80 | 5.60 |
| **E** | **119867** | 82 | 22.20 | 22.40 | 97.30 | 190.50 | 165.10 | 152.40 | 69.90 | 41.40 | 6.40 |
| **F** | **119868** | 92 | 25.40 | 25.40 | 115.50 | 196.90 | 184.20 | 168.40 | 95.30 | 63.50 | 8.60 |
| **J** | **119869** | 104 | 38.10 | 28.70 | 130.60 | 228.60 | 203.20 | 184.20 | 117.60 | 80.80 | 9.70 |
| **M** | **119870** | 130 | 50.80 | 31.80 | 165.10 | 289.10 | 254.00 | 228.60 | 171.50 | 131.60 | 10.40 |

| Bushing Type | Torque Capacity (Nm) | Bolt Center Dia (mm) | Bolt Qty | Bolt Length (mm) | Bolt Size | Bolt Torque (Nm) |
|---|---|---|---|---|---|---|
| H | 113 | 50.8 | 2 | 22 | M6 x 1 | 9.6 |
| JA | 113 | 42.3 | 3 | 25 | M5 x 0.8 | 5.6 |
| SH | 395 | 57.2 | 3 | 35 | M6 x 1 | 11.5 |
| SDS | 565 | 68.3 | 3 | 35 | M6 x 1 | 11.5 |
| SD | 565 | 68.3 | 3 | 50 | M6 x 1 | 11.5 |
| SK | 781 | 84.1 | 3 | 50 | M8 x 1.25 | 20.5 |
| SF | 1243 | 98.4 | 3 | 50 | M10 x 1.5 | 34.0 |
| E | 2260 | 127.0 | 3 | 70 | M12 x 1.75 | 77.0 |
| F | 3390 | 142.9 | 3 | 100 | M14 x 2 | 100.0 |
| J | 5085 | 158.8 | 3 | 120 | M16 x 2 | 194.5 |
| M | 9600 | 200.0 | 4 | 180 | M20 x 2.5 | 256.0 |

## QD Bushing - Metric Series

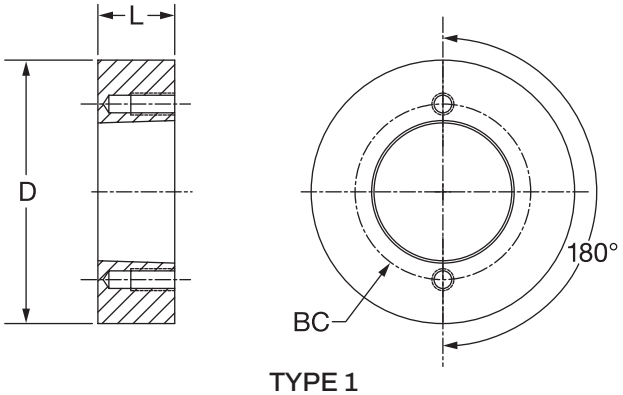
### Metric QD Bushing - Metric Hardware

| MM Bore | Bushing No. H | JA | SH | SDS | SD | SK | SF | E | F | MM Keyway W | D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | – | **117377** | – | – | – | – | – | – | – | 5 | 2.30 |
| 19 | – | **117371** | – | – | – | – | – | – | – | 6 | 2.80 |
| 20 | – | **117372** | **117378** | **117385** | – | – | – | – | – | 6 | 2.80 |
| 24 | – | **117373** | **117379** | **117386** | **117531** | **117540** | – | – | – | 8 | 3.30 |
| 25 | **117356** | **117374*** | **117380** | **117387** | **117532** | **117541** | **117553** | – | – | 8 | 3.30 |
| 28 | – | – | **117381** | **117388** | **117533** | **117542** | **117554** | – | – | 8 | 3.30 |
| 30 | **117357** | – | **117382** | **117389** | **117534** | **117543** | **117555** | – | – | 8 | 3.30 |
| 32 | **117358*** | – | **117383*** | **117390** | **117535** | **117544** | **117556** | – | – | 10 | 3.30 |
| 35 | – | – | **117384*** | **117391** | **117536** | **117545** | **117557** | – | – | 10 | 3.30 |
| 38 | – | – | – | **117392** | **117537** | **117546** | **117558** | – | – | 10 | 3.30 |
| 40 | – | – | – | **117393** | **117538** | **117547** | **117559** | **117571*** | **117583*** | 12 | 3.30 |
| 42 | – | – | – | **117394*** | **117539*** | **117548** | **117560** | – | **117584*** | 12 | 3.30 |
| 45 | – | – | – | – | – | **117549** | **117561** | – | – | 14 | 3.80 |
| 48 | – | – | – | – | – | **117550** | **117562** | – | – | 14 | 3.80 |
| 50 | – | – | – | – | – | **117551** | **117563** | **117575*** | **117587*** | 14 | 3.80 |
| 55 | – | – | – | – | – | **117552*** | **117564** | **117576*** | **117588*** | 16 | 4.30 |
| 60 | – | – | – | – | – | – | **117565*** | – | **117589*** | 18 | 4.40 |

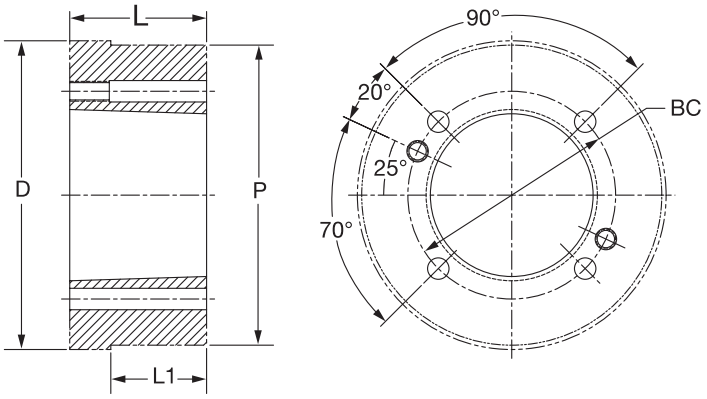
Part Numbers marked (*) are Ductile Iron

# Specification
## QD Hubs

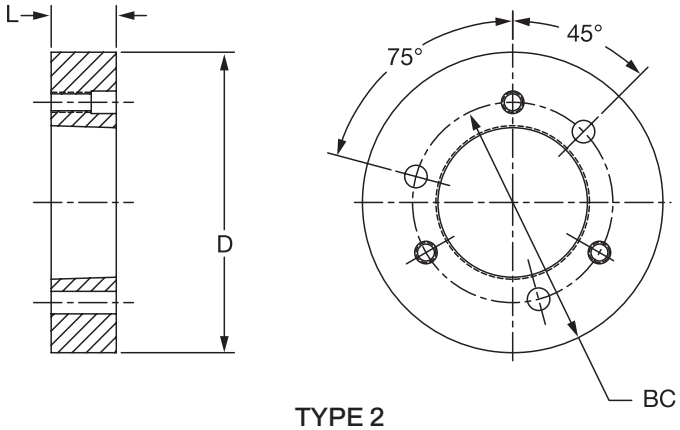
Dodge QD Weld-On hubs are useful for welding into fan rotors, pulleys, plate sprockets, impellers, agitators, etc. which require secure mounting to the shaft. These hubs are made of low carbon steel for good welding compatibility. The data tabulation shows the standard QD bushings that are used with these hubs.




TYPE 1




TYPE 3




TYPE 2

| Hub No. | Part No. | For Bush | Bore Range | Wt. Lbs. | Type | Dimensions | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | D* | L | BC | P | L1 | Thread Size |
| H-A | **228465** | H | 3/8 to 1-1/2” | 0.6 | 1 | 2.375 | 0.88 | 2.00 | 2.50 | 0.17 | 1/4-20 NC x 3/4 |
| JA-A | **228466** | JA | 1/2 to 1-1/4” | 0.4 | 2 | 2.250 | 0.56 | 1.66 | – | – | 10-24 NC x 1 |
| SH-A | **228467** | SH | 1/2 to 1-11/16” | 1.0 | 2 | 3.000 | 0.81 | 2.25 | – | – | 1/4-20 NC x 1-3/8 |
| SDS-A | **228468** | SDS | 1/2 to 2” | 1.3 | 2 | 3.500 | 0.75 | 2.6 | – | – | 1/4-20 NC x 1-3/8 |
| SK-A | **228469** | SK | 1/2 to 2-5/8” | 3.0 | 2 | 4.375 | 1.25 | 3.31 | – | – | 5/16-18 NC x 2 |
| SF-A | **228470** | SF | 1/2 to 2-15/16” | 4.0 | 2 | 5.000 | 1.25 | 3.88 | – | – | 3/8-16 NC x 2 |
| E-A | **228471** | E | 7/8 to 3-1/2” | 9.0 | 2 | 6.250 | 1.63 | 5.00 | – | – | 1/2-13 NC x 2-3/4 |
| F-A | **228472** | F | 1 to 4” | 16.0 | 2 | 7.000 | 2.50 | 5.63 | – | – | 9/16-12 NC x 3-5/8 |
| J-A | **228473** | J | 1-1/2 to 4-1/2” | 22.5 | 2 | 7.750 | 3.19 | 6.25 | – | – | 5/8-11 NC x 4-1/2 |
| M-A | **228474** | M | 2 to 5-1/2” | 50.0 | 3 | 9.250 | 5.19 | 7.88 | 9.50 | 3.56 | 3/4-10 NC x 6-3/4 |
| N-A | **228475** | N | 2-7/16 to 5-7/8” | 75.0 | 3 | 10.250 | 6.25 | 8.50 | 10.50 | 4.50 | 7/8-9 NC x 8 |
| P-A | **228476** | P | 2-15/16 to 7” | 155.0 | 2 | 13.000 | 7.25 | 10.00 | – | – | 1-8 NC x 9-1/2 |
| W-A | **228477** | W | 4 to 8-1/2” | 300.0 | 2 | 15.500 | 9.00 | 12.75 | – | – | 1-1/16-7 NC x 11/12 |

Mounting:

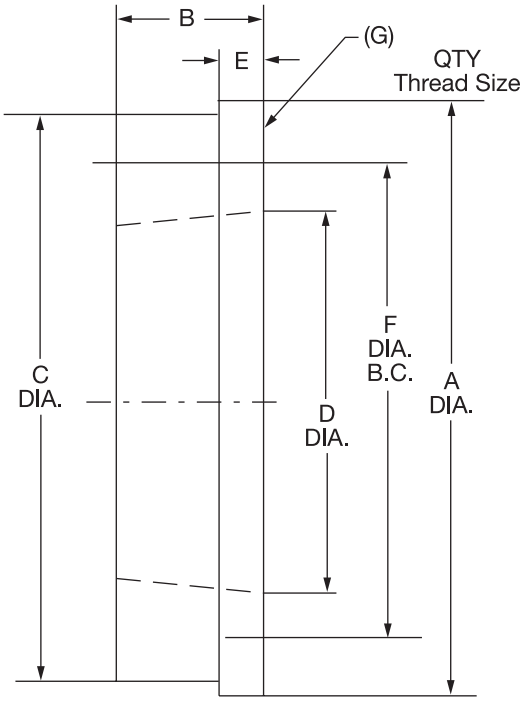
Type 1: Reverse only
Type 2: Conventional or Reverse
Type 3: Conventional Only

* Tolerance:

H-A Thru J-A = (+0.000”/-0.002”)
M-A Thru W-A = (+0.000”/-0.003”)

# Specification

## QD Weld-On Hubs For Conveyor Pulleys




Dodge QD Weld-On Hubs for conveyor pulleys are specifically designed for use in the end disc of a conveyor pulley. Their short length through bore provides more forgiveness under the operating stresses of the pulley, These hubs are manufactured from low Carbon steel for good welding compatibility

**QD Weld-On Hubs For Conveyor Pulleys**

| Hub No. | Part No. | For Bush. | Bore Range | Wt. Lbs. | Dimensions | | | | | | Installation Screws | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | A | B | C # | D (ref) | E | F | Qty | Thread Size |
| SF | **228110** | SF | 1/2 to 2-15/16” | 3.9 | 5.00 | 1.00 | 4.750 | 3.13 | 0.44 | 3.88 | 3 | 3/8-16 NC x 2 |
| E | **228111** | E | 7/8 to 3-1/2” | 6.6 | 6.25 | 1.13 | 6.000 | 3.52 | 0.50 | 5.00 | 3 | 1/2-13 NC x 2-1/4 |
| F | **228112** | F | 1 to 4” | 9.3 | 7.00 | 1.25 | 6.750 | 4.44 | 0.56 | 5.63 | 3 | 9/16-12 NC x 3-5/8 |
| JS | **228113** | J | 1-1/2 to 4-1/2” | 17 | 8.25 | 1.63 | 8.000 | 5.14 | 0.63 | 6.25 | 3 | 5/8-11 NC x 2-1/2 |
| MS | **228114** | M | 2 to 5-1/2” | 22 | 9.50 | 2.38 | 9.250 | 6.50 | 0.75 | 7.88 | 4 | 3/4-10 NC-10 x 3 |
| NS | **228115** | N | 2-7/16 to 5-7/8” | 29 | 10.25 | 2.38 | 10.000 | 7.00 | 0.81 | 8.50 | 4 | 7/8-9 NC x 3-1/2 |
| PS | **228116** | P | 2-15/16 to 7” | 75 | 12.25 | 2.88 | 12.000 | 8.25 | 0.88 | 10.00 | 4 | 1-8 NC x 4-1/2 |
| WS | **228117** | W | 4 to 8-1/2” | 85 | 15.25 | 3.33 | 14.875 | 10.42 | 0.94 | 12.75 | 4 | 1-1/8-7 NC x 5 |
| SS | **228118** | S | 5-1/2 to 10” | 139 | 17.50 | 3.88 | 17.000 | 12.13 | 1.13 | 15.00 | 5 | 1-1/4-7 NC x 5 |
| ZS | **228119** | Z | 7 to 12” | 236 | 22.00 | 4.88 | 21.500 | 15.98 | 1.25 | 19.00 | 5 | 1-1/8-7 NC x 5 |

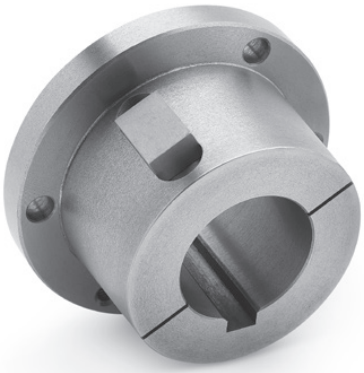
# +.000/-.010” Tolerance

# Features/Benefits
## Split Taper Bushings



### Features

- Keyed to both shaft and hub. External key provides positive drive with no torque on the cap screws.
- Double split barrel improves true concentricity - grips the shaft with positive clamp fit.
- Manufactured precisely to industry standards.
- The taper on all split taper bushings is 3/4" per foot on diameter.
- Split taper bushing is the preferred bushing style in the HVAC industry.



### How to order

Example: **P1X1-7/16**

**P1 X 1-7/16**

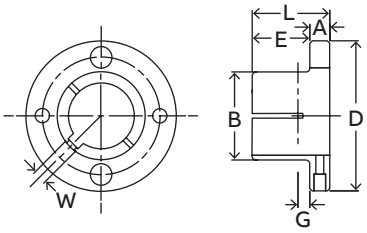
**P1: Bushing size**

**1-1/16: Bore size** (1-1/16")
Inch bore sizes are designated with the whole inch followed by the fraction. For example, a 1.5" diameter bore would be 1-1/2".

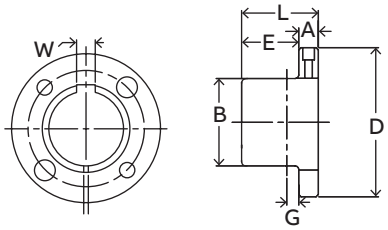
# Features/Benefits

## Split Taper Bushings

Type 1

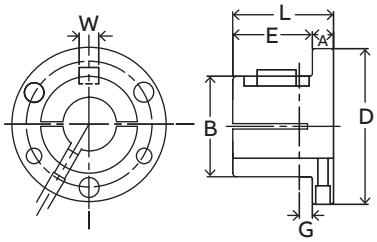



G & H type 1

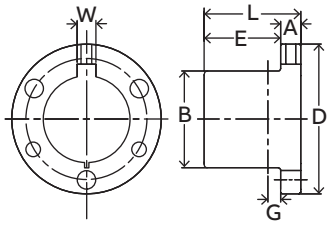



G & H type 2

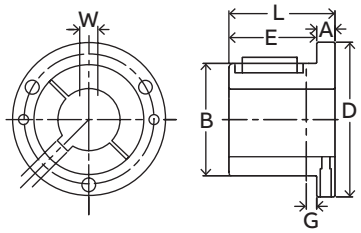
Type 2



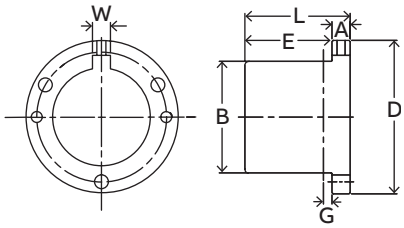

P, B, Q, & R type 1




P, B, Q, & R type 2




S type 1




S type 2

Note: Setscrew in G and R bushings only. No setscrew in H, P, B, and Q bushings.

| Size | Dimensions | | | | | | | | | Max bore range | | Cap screws | | Av. wt. lbs. | Wrench torque in.-lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | L | A | E | B Large end | B Small end | D | M | W | G | Type 1 | Type 2 | No. | Size | | |
| G | 1 | 1/4 | 3/4 | 1.172 | 1.133 | 2 | 1-9/16 | – | 3/16 | 3/8 - 15/16 | 1 | 2 | 1/4-20 UNC X 5/8 | .5 | 95 |
| H | 1-9/32 | 9/32 | 1 | 1.625 | 1.570 | 2-1/2 | 2 | – | 1/8 | 3/8 - 1-3/8 | 1-7/16 - 1-1/2 | 2 | 1/4-20 UNC X 7/8 | .8 | 95 |
| P1 | 1-15/16 | 13/32 | 1-17/32 | 1.9375 | 1.8555 | 3 | 2-7/16 | 3/8 | 7/32 | 1/2 - 1-7/16 | 1-1/2 - 1-3/4 | 3 | 5/16-18 UNC X 1 | 1.3 | 192 |
| P2 | 2-15/16 | 13/32 | 2-17/32 | 1.9375 | 1.7930 | 3 | 2-7/16 | 3/8 | 7/32 | 3/4 - 1-7/16 | 1-1/2 - 1-3/4 | 3 | 5/16-18 UNC X 1 | 1.5 | 192 |
| B | 1-15/16 | 1/2 | 1-7/16 | 2.625 | 2.5567 | – | 3-1/8 | 1/2 | 7/32 | 1/2 - 1-15/16 | 2 - 2-7/16 | 3 | 5/16-18 UNC X 1-1/4 | 1.8 | 192 |
| Q1 | 2-1/2 | 17/32 | 1-31/32 | 2.875 | 2.7657 | 4-1/8 | 3-3/8 | 1/2 | 7/32 | 5/8 - 2-1/16 | 2-1/8 - 2-11/16 | 3 | 3/8-16 UNC X 1-1/4 | 3.5 | 348 |
| Q2 | 3-1/2 | 17/32 | 2-31/32 | 2.875 | 2.7032 | 4-1/8 | 3-3/8 | 1/2 | 7/32 | 1 - 2-1/16 | 2-1/8 - 2-5/8 | 3 | 3/8-16 UNC X 1-1/4 | 4.5 | 348 |
| R1 | 2-7/8 | 5/8 | 2-1/4 | 4.000 | 3.8750 | 5-3/8 | 4-5/8 | 3/4 | 1/4 | 1-1/8 - 2-13/16 | 2- 7/8 - 3-3/4 | 3 | 3/8-16 UNC X 1-3/4 | 7.5 | 348 |
| R2 | 4-7/8 | 5/8 | 4-1/4 | 4.000 | 3.7500 | 5-3/8 | 4-5/8 | 3/4 | 1/4 | 1-3/8 - 2-13/16 | 2-7/8 - 3-5/8 | 3 | 3/8-16 UNC X 1-3/4 | 11 | 348 |
| S1 | 4-3/8 | 3/4 | 3-5/8 | 4.625 | 4.4180 | 6-3/8 | 5-3/8 | 3/4 | 5/16 | 1-11/16 - 3-3/16 | 3-1/4 - 4-1/4 | 3 | 1/2-13 UNC X 2-1/4 | 13.5 | 840 |

* Please contact Dodge for lead time and availability.

# Specification
## Split Taper Bushings



**BK² bushings standard stock bores (inches)**

| | Part number | Description | Keyseat | Weight |
|---|---|---|---|---|
| G | 471500 | G x 3/8-KW | None | 0.4 |
| | 471501 | G x 7/16-KW | None | 0.4 |
| | 471502 | G x 1/2 -KW | 1/8 X 7/16 | 0.4 |
| | 471503 | G x 9/16-KW | 1/8 X 7/16 | 0.4 |
| | 471504 | G x 5/8-KW | 3/16 X 3/32 | 0.3 |
| | 471505 | G x 11/16-KW | 3/16 X 3/32 | 0.3 |
| | 471506 | G x 3/4-KW | 3/16 X 3/32 | 0.3 |
| | 471507 | G x 13/16-KW | 3/16 X 3/32 | 0.3 |
| | 471508 | G x 7/8-KW | 3/16 X 3/32 | 0.3 |
| | 471509 | G x 15/16-KW | 1/4 X 1/8 | 0.2 |
| | 471510 | G x 1-KW | 1/4 X 1/8 | 0.2 |
| | 471511 | G x 10MM-KW | 4 X 1.8MM | 0.3 |
| | 471512 | G x 11MM-KW | 4 X 1.8MM | 0.3 |
| | 471513 | G x 12MM-KW | 4 X 1.8MM | 0.3 |
| | 471514 | G x 14MM-KW | 5 x 2.3mm | 0.3 |
| | 471515 | G x 16MM-KW | 5 x 2.3mm | 0.3 |
| | 471516 | G x 18MM-KW | 6 x 2.8mm | 0.3 |
| | 471517 | G x 19MM-KW | 6 x 2.8mm | 0.3 |
| | 471518 | G x 20MM-KW | 6 x 2.8mm | 0.3 |
| | 471519 | G x 22MM-KW | 6 x 2.8mm | 0.3 |
| | 471520 | G x 24MM-KW | 8 x 3.3mm | 0.3 |
| | 471521 | G x 25MM-KW | 8 x 3.3mm | 0.3 |
| H-plus with integral key | 121161 | H-PLUS X 5/8-IK | 3/16 x 3/32 | 0.8 |
| | 121162 | H-PLUS X 3/4-IK | 3/16 X 3/32 | 0.7 |
| | 121163 | H-PLUS X 7/8-IK | 3/16 X 3/32 | 0.7 |
| | 121164 | H-PLUS X 1-IK | 1/4 x 1/8 | 0.6 |
| | 121186 | H-PLUS X 1-1/8-IK | 1/4 X 1/8 | 0.6 |
| | 121187 | H-PLUS X 1-3/16-IK | 1/4 X 1/8 | 0.5 |
| | 121202 | H-PLUS X 1-1/4-IK | 1/4 X 1/8 | 0.5 |
| | 121169 | H-PLUS X 24MM-IK | 8 x 3.3mm | 0.6 |
| | 121170 | H-PLUS X 25MM-IK | 8 x 3.3mm | 0.6 |
| H | 121129 | H X 3/8-NK | None | 0.8 |
| | 121130 | H X 7/16-NK | None | 0.8 |
| | 121131 | H X 1/2-KW | 1/8 x 1/16 | 0.8 |
| | 121133 | H X 9/16-KW | 1/8 x 1/16 | 0.8 |
| | 122050 | H X 5/8-KW | 3/16 x 3/32 | 0.8 |
| | 121134 | H X 11/16-KW | 3/16 x 3/32 | 0.8 |
| | 122051 | H X 3/4-KW | 3/16 x 3/32 | 0.7 |
| | 121136 | H X 13/16-KW | 3/16 x 3/32 | 0.7 |
| | 122052 | H X 7/8-KW | 3/16 x 3/32 | 0.7 |
| | 121138 | H X 15/16-KW | 1/4 x 1/8 | 0.7 |
| | 122053 | H X 1-KW | 1/4 x 1/8 | 0.6 |
| | 121140 | H X 1-1/16-KW | 1/4 x 1/8 | 0.6 |
| | 122054 | H X 1-1/8-KW | 1/4 x 1/8 | 0.6 |
| | 122055 | H X 1-3/16-KW | 1/4 x 1/8 | 0.5 |
| | 122056 | H X 1-1/4-KW | 1/4 x 1/8 | 0.5 |
| | 121144 | H X 1-5/16-KW | 5/16 x 1/16 | 0.4 |
| | 121145 | H X 1-3/8-KW | 5/16 x 1/16 | 0.4 |
| | 121146 | H X 1-7/16-KW | 3/8 x 1/16 | 0.4 |
| | 121147 | H X 1-1/2-KW | 3/8 x 1/16 | 0.3 |
| | 121148 | H X 14MM-KW | 5 x 2.3mm | 0.8 |
| | 121165 | H X 15MM-KW | 5 x 2.3mm | 0.8 |
| | 121166 | H X 16MM-KW | 5 x 2.3mm | 0.8 |
| | 121167 | H X 18MM-KW | 6 x 2.8mm | 0.7 |
| | 121149 | H X 19MM-KW | 6 x 2.8mm | 0.7 |
| | 121469 | H X 20MM-KW | 6 x 2.8mm | 0.7 |
| | 121168 | H X 22MM-KW | 6 x 2.8mm | 0.7 |
| | 121150 | H X 24MM-KW | 8 X 3.3mm | 0.6 |
| | 121151 | H X 25MM-KW | 8 X 3.3mm | 0.6 |
| | 121152 | H X 28MM-KW | 8 X 3.3mm | 0.6 |
| | 121153 | H X 30MM-KW | 8 X 3.3mm | 0.5 |
| | 121154 | H X 32MM-KW | 10 x 3.3mm | 0.5 |
| | 121173 | H X 35MM-KW | 10 x 3.3mm | 0.4 |
| | 121174 | H X 38MM-KW | 10 x 1.3mm | 0.3 |

| | Part number | Description | Keyseat | Weight |
|---|---|---|---|---|
| P1 | 471522 | P1 x 1/2-KW | 1/8 X 1/16 | 2.5 |
| | 471523 | P1 x 9/16-KW | 1/8 X 1/16 | 1.8 |
| | 471524 | P1 x 5/8-KW | 3/16 X 3/32 | 2.4 |
| | 471525 | P1 x 21/32-KW | 3/16 X 3/32 | 1.7 |
| | 471526 | P1 x 11/16-KW | 3/16 X 3/32 | 1.7 |
| | 471527 | P1 x 3/4-KW | 3/16 X 3/32 | 2.3 |
| | 471528 | P1 x 25/32-KW | 3/16 X 3/32 | 1.6 |
| | 471529 | P1 x 13/16-KW | 3/16 X 3/32 | 1.6 |
| | 471530 | P1 x 7/8-KW | 3/16 X 3/32 | 2.2 |
| | 471531 | P1 x 15/16-KW | 1/4 X 1/8 | 2.1 |
| | 471532 | P1 x 31/32-KW | 1/4 X 1/8 | 1.5 |
| | 471533 | P1 x 1-KW | 1/4 X 1/8 | 2.1 |
| | 471534 | P1 x 1-1/16-KW | 1/4 X 1/8 | 1.4 |
| | 471535 | P1 x 1-1/8-KW | 1/4 X 1/8 | 2 |
| | 471536 | P1 x 1-3/16-KW | 1/4 X 1/8 | 1.9 |
| | 471537 | P1 x 1-1/4-KW | 1/4 X 1/8 | 2 |
| | 471538 | P1 x 1-5/16-KW | 5/16 X 5/32 | 1.2 |
| | 471539 | P1 x 1-3/8-KW | 5/16 X 5/32 | 1.8 |
| | 471540 | P1 x 1-3/8 KW 3/8-KW | 3/8 X 3/16 | 1.1 |
| | 471541 | P1 x 1-7/16-KW | 3/8 X 3/16 | 1.7 |
| | 471542 | P1 x 1-1/2-KW | 3/8 X 3/16 | 0.9 |
| | 471543 | P1 x 1-9/16-KW | 3/8 X 3/16 | 0.9 |
| | 471544 | P1 x 1-5/8-KW | 3/8 X 3/16 | 0.8 |
| | 471545 | P1 x 1-11/16-KW | 3/8 X 3/16 | 0.8 |
| | 471546 | P1 x 1-3/4-KW | 3/8 X 3/16 | 0.7 |
| | 471547 | P1 x 14MM-KW | 5 x 2.3mm | 2.1 |
| | 471548 | P1 x 15MM-KW | 5 x 2.3mm | 2.1 |
| | 471549 | P1 x 16MM-KW | 5 x 2.3mm | 2.1 |
| | 471550 | P1 x 18MM-KW | 6 x 2.8mm | 2.1 |
| | 471551 | P1 x 19MM-KW | 6 x 2.8mm | 2.1 |
| | 471552 | P1 x 20MM-KW | 6 x 2.8mm | 2.1 |
| | 471553 | P1 x 22MM-KW | 6 x 2.8mm | 2.1 |
| | 471554 | P1 x 24MM-KW | 8 x 3.3mm | 2.2 |
| | 471555 | P1 x 25MM-KW | 8 x 3.3mm | 2.1 |
| | 471556 | P1 x 28MM-KW | 8 x 3.3mm | 1.4 |
| | 471557 | P1 x 30MM-KW | 8 x 3.3mm | 1.4 |
| | 471558 | P1 x 32MM-KW | 10 x 3.3mm | 1.4 |
| | 471559 | P1 x 35MM-KW | 10 x 3.3mm | 1.4 |
| | 471560 | P1 x 36MM-KW | 10 x 3.3mm | 1 |
| | 471561 | P1 x 38MM-KW | 10 x 3.3mm | 1 |
| | 471562 | P1 x 39MM-KW | 12 x 3.3mm | 1 |
| | 471563 | P1 x 40MM-KW | 12 x 3.3mm | 1 |
| | 471564 | P1 x 42MM-KW | 12 x 3.3mm | 0.9 |
| P2 | 471565 | P2 x 1/2-KW | 1/8 X 1/16 | 2.8 |
| | 471566 | P2 x 5/8-KW | 3/16 X 3/32 | 2.7 |
| | 471567 | P2 x 3/4-KW | 3/16 X 3/32 | 2.6 |
| | 471568 | P2 x 13/16-KW | 3/16 X 3/32 | 2.2 |
| | 471569 | P2 x 7/8-KW | 3/16 X 3/32 | 2.5 |
| | 471570 | P2 x 15/16-KW | 1/4 X 1/8 | 2 |
| | 471571 | P2 x 1-KW | 1/4 X 1/8 | 2.4 |
| | 471572 | P2 x 1-1/16-KW | 1/4 X 1/8 | 1.9 |
| | 471573 | P2 x 1-1/8-KW | 1/4 X 1/8 | 2.3 |
| | 471574 | P2 x 1-3/16-KW | 1/4 X 1/8 | 1.7 |
| | 471575 | P2 x 1-1/4-KW | 1/4 X 1/8 | 2.2 |
| | 471576 | P2 x 1-5/16-KW | 5/16 X 5/32 | 1.5 |
| | 471577 | P2 x 1-3/8-KW | 5/16 X 5/32 | 2.1 |
| | 471578 | P2 x 1-3/8KW3/8-KW | 3/8 X 3/16 | 1.4 |
| | 471579 | P2 x 1-7/16-KW | 3/8 X 3/16 | 1.8 |
| | 471580 | P2 x 1-1/2-KW | 3/8 X 3/16 | 1.6 |
| | 471581 | P2 x 1-9/16-KW | 3/8 X 3/16 | 1.1 |
| | 471582 | P2 x 1-5/8-KW | 3/8 X 3/16 | 1.5 |
| | 471583 | P2 x 1-11/16-KW | 3/8 X 3/16 | 0.8 |
| | 471584 | P2 x 1-3/4-KW | 3/8 X 3/16 | 1.4 |

*** Please contact Dodge for lead time and availability.**

# Specification

## Split Taper Bushings

**BK² bushings standard stock bores (inches)**

| | Part number | Description | Keyseat | Weight |
|---|---|---|---|---|
| B | 471585 | B x 1/2-KW | 1/8 X 7/16 | 3.7 |
| | 471586 | B x 9/16-KW | 1/8 X 7/16 | 3.2 |
| | 471587 | B x 5/8-KW | 3/16 X 3/32 | 3.6 |
| | 471588 | B x 11/16-KW | 3/16 X 3/32 | 3.2 |
| | 471589 | B x 3/4-KW | 3/16 X 3/32 | 3.5 |
| | 471590 | B x 13/16-KW | 3/16 X 3/32 | 3.1 |
| | 471591 | B x 7/8-KW | 3/16 X 3/32 | 3.5 |
| | 471592 | B x 15/16-KW | 1/4 X 1/8 | 3 |
| | 471593 | B x 1-KW | 1/4 X 1/8 | 3.4 |
| | 471594 | B x 1-1/16-KW | 1/4 X 1/8 | 2.9 |
| | 471595 | B x 1-1/8-KW | 1/4 X 1/8 | 3.3 |
| | 471596 | B x 1-3/16-KW | 1/4 X 1/8 | 2.8 |
| | 471597 | B x 1-1/4-KW | 1/4 X 1/8 | 3.2 |
| | 471598 | B x 1-5/16-KW | 5/16 X 5/32 | 2.7 |
| | 471599 | B x 1-3/8-KW | 3/8 X 3/16 | 2.6 |
| | 471600 | B x 1-3/8 KW 3/8-KW | 3/8 X 3/16 | 2.6 |
| | 471601 | B x 1-7/16-KW | 3/8 X 3/16 | 2.5 |
| | 471602 | B x 1-1/2-KW | 3/8 X 3/16 | 2.9 |
| | 471603 | B x 1-9/16-KW | 3/8 X 3/16 | 2.4 |
| | 471604 | B x 1-5/8-KW | 3/8 X 3/16 | 2.3 |
| | 471605 | B x 1-11/16-KW | 3/8 X 3/16 | 2.2 |
| | 471606 | B x 1-3/4-KW | 3/8 X 3/16 | 2.6 |
| | 471607 | B x 1-13/16-KW | 1/2 X 1/4 | 2.1 |
| | 471608 | B x 1-7/8-KW | 1/2 X 1/4 | 2.2 |
| | 471609 | B x 1-15/16-KW | 1/2 X 1/4 | 1.9 |
| | 471610 | B x 2-KW | 1/2 X 1/4 | 2 |
| | 471611 | B x 2-1/16-KW | 1/2 X 1/4 | 1.7 |
| | 471612 | B x 2-1/8-KW | 1/2 X 1/4 | 1.9 |
| | 471613 | B x 2-3/16-KW | 1/2 X 1/4 | 1.5 |
| | 471614 | B x 2-1/4-KW | 1/2 X 1/4 | 1.7 |
| | 471615 | B x 2-5/16-KW | 5/8 X 5/16 | 1.2 |
| | 471616 | B x 2-3/8-KW | 5/8 X 5/16 | 1.6 |
| | 471617 | B x 2-7/16-KW | 5/8 X 5/16 | 1.4 |
| | 471618 | B x 15MM-KW | 5 x 2.3mm | 3.7 |
| | 471619 | B x 16MM-KW | 5 x 2.3mm | 3.7 |
| | 471620 | B x 18MM-KW | 6 x 2.8mm | 3.7 |
| | 471621 | B x 19MM-KW | 6 x 2.8mm | 3.7 |
| | 471622 | B x 20MM-KW | 6 x 2.8mm | 3.7 |
| | 471623 | B x 22MM-KW | 6 x 2.8mm | 3.7 |
| | 471624 | B x 24MM-KW | 8 x 3.3mm | 3.7 |
| | 471625 | B x 25MM-KW | 8 x 3.3mm | 3.7 |
| | 471626 | B x 28MM-KW | 8 x 3.3mm | 3.3 |
| | 471627 | B x 30MM-KW | 8 x 3.3mm | 3.3 |
| | 471628 | B x 32MM-KW | 10 x 3.3mm | 3.3 |
| | 471629 | B x 35MM-KW | 10 x 3.3mm | 3.3 |
| | 471630 | B x 36MM-KW | 10 x 3.3mm | 3.3 |
| | 471631 | B x 38MM-KW | 10 x 3.3mm | 3.3 |
| | 471632 | B x 39MM-KW | 12 x 3.3mm | 3.3 |
| | 471633 | B x 40MM-KW | 12 x 3.3mm | 3.3 |
| | 471634 | B x 42MM-KW | 12 x 3.3mm | 3.3 |
| | 471635 | B x 45MM-KW | 14 x 3.8mm | 2.2 |
| | 471636 | B x 48MM-KW | 14 x 3.8mm | 2.2 |
| | 471637 | B x 50MM-KW | 14 x 3.8mm | 2.2 |
| | 471638 | B x 55MM-KW | 16 x 4.3mm | 2.2 |
| | 471639 | B x 60MM-KW | 18 x 4.4mm | 2.2 |
| Q1 | 471640 | Q1 x 5/8-KW | 3/16 X 3/32 | 4.8 |
| | 471641 | Q1 x 3/4-KW | 3/16 X 3/32 | 4.8 |
| | 471642 | Q1 x 13/16-KW | 3/16 X 3/32 | 4.7 |
| | 471643 | Q1 x 7/8-KW | 3/16 X 3/32 | 4.7 |
| | 471644 | Q1 x 15/16-KW | 1/4 X 1/8 | 4.6 |
| | 471645 | Q1 x 1-KW | 1/4 X 1/8 | 4.6 |
| | 471646 | Q1 x 1-1/16-KW | 1/4 X 1/8 | 4.5 |
| | 471647 | Q1 x 1-1/8-KW | 1/4 X 1/8 | 4.4 |
| | 471648 | Q1 x 1-3/16-KW | 1/4 X 1/8 | 4.3 |

| | Part number | Description | Keyseat | Weight |
|---|---|---|---|---|
| Q1 | 471649 | Q1 x 1-1/4-KW | 1/4 X 1/8 | 4.3 |
| | 471650 | Q1 x 1-5/16-KW | 5/16 X 5/32 | 4.2 |
| | 471651 | Q1 x 1-3/8-KW | 5/16 X 5/32 | 4.1 |
| | 471652 | Q1 x 1-3/8 KW 3/8-KW | 3/8 X 3/16 | 4.1 |
| | 471653 | Q1 x 1-7/16-KW | 3/8 X 3/16 | 4 |
| | 471654 | Q1 x 1-1/2-KW | 3/8 X 3/16 | 3.9 |
| | 471655 | Q1 x 1-9/16-KW | 3/8 X 3/16 | 3.8 |
| | 471656 | Q1 X 1-5/8-KW | 3/8 X 3/16 | 3.7 |
| | 471657 | Q1 x 1-11/16-KW | 3/8 X 3/16 | 3.6 |
| | 471658 | Q1 x 1-3/4-KW | 3/8 X 3/16 | 3.5 |
| | 471659 | Q1 x 1-13/16-KW | 1/2 X 1/4 | 3.4 |
| | 471660 | Q1 x 1-7/8-KW | 1/2 X 1/4 | 3.3 |
| | 471661 | Q1 x 1-15/16-KW | 1/2 X 1/4 | 3.2 |
| | 471662 | Q1 x 2-KW | 1/2 X 1/4 | 3 |
| | 471663 | Q1 x 2-1/16-KW | 1/2 X 1/4 | 2.9 |
| | 471664 | Q1 x 2-1/8-KW | 1/2 X 1/4 | 2.8 |
| | 471665 | Q1 x 2-3/16-KW | 1/2 X 1/4 | 2.6 |
| | 471666 | Q1 x 2-1/4-KW | 1/2 X 1/4 | 2.5 |
| | 471667 | Q1 x 2-5/16-KW | 5/8 X 5/16 | 2.3 |
| | 471668 | Q1 x 2-3/8-KW | 5/8 X 5/16 | 2.2 |
| | 471669 | Q1 x 2-7/16-KW | 5/8 X 5/16 | 2 |
| | 471670 | Q1 x 2-1/2-KW | 5/8 X 5/16 | 1.9 |
| | 471671 | Q1 x 2-9/16-KW | 5/8 X 5/16 | 1.7 |
| | 471672 | Q1 x 2-5/8-KW | 5/8 X 5/16 | 1.6 |
| | 471673 | Q1 x 2-11/16-KW | 5/8 X 5/16 | 1.5 |
| | 471674 | Q1 x 19MM-KW | 6 x 2.8mm | 4.7 |
| | 471675 | Q1 x 20MM-KW | 6 x 2.8mm | 4.7 |
| | 471676 | Q1 x 22MM-KW | 6 x 2.8mm | 4.7 |
| | 471677 | Q1 x 24MM-KW | 8 x 3.3mm | 4.7 |
| | 471678 | Q1 x 25MM-KW | 8 x 3.3mm | 4.7 |
| | 471679 | Q1 x 28MM-KW | 8 x 3.3mm | 3.8 |
| | 471680 | Q1 x 30MM-KW | 8 x 3.3mm | 3.8 |
| | 471681 | Q1 x 32MM-KW | 10 x 3.3mm | 3.8 |
| | 471682 | Q1 x 35MM-KW | 10 x 3.3mm | 3.8 |
| | 471683 | Q1 x 36MM-KW | 10 x 3.3mm | 3.8 |
| | 471684 | Q1 x 38MM-KW | 10 x 3.3mm | 3.8 |
| | 471685 | Q1 x 39MM-KW | 12 x 3.3mm | 3.8 |
| | 471686 | Q1 x 40MM-KW | 12 x 3.3mm | 3.8 |
| | 471687 | Q1 x 42MM-KW | 12 x 3.3mm | 3.2 |
| | 471688 | Q1 x 45MM-KW | 14 x 3.8mm | 3.2 |
| | 471689 | Q1 x 48MM-KW | 14 x 3.8mm | 3.2 |
| | 471690 | Q1 x 50MM-KW | 14 x 3.8mm | 3.1 |
| | 471691 | Q1 x 55MM-KW | 16 x 4.3mm | 2.2 |
| | 471692 | Q1 x 60MM-KW | 18 x 4.4mm | 2.2 |
| | 471693 | Q1 x 65MM-KW | 18 x 4.4mm | 1.7 |
| Q2 | 471694 | Q2 x 1-KW | 1/4 X 1/8 | 5.9 |
| | 471695 | Q2 x 1-1/16-KW | 1/4 X 1/8 | 5.8 |
| | 471696 | Q2 x 1-1/8-KW | 1/4 X 1/8 | 5.7 |
| | 471697 | Q2 x 1-3/16-KW | 1/4 X 1/8 | 5.6 |
| | 471698 | Q2 x 1-1/4-KW | 1/4 X 1/8 | 5.5 |
| | 471699 | Q2 x 1-5/16-KW | 5/16 X 5/32 | 5.4 |
| | 471700 | Q2 x 1-3/8-KW | 5/16 X 5/32 | 5.2 |
| | 471700 | Q2 x 1-3/8-KW | 3/8 X 3/16 | 5.2 |
| | 471701 | Q2 x 1-3/8 KW 3/8-KW | 3/8 X 3/16 | 5.2 |
| | 471702 | Q2 x 1-7/16-KW | 3/8 X 3/16 | 5.1 |
| | 471703 | Q2 x 1-1/2-KW | 3/8 X 3/16 | 5 |
| | 471704 | Q2 x 1-9/16-KW | 3/8 X 3/16 | 4.9 |
| | 471705 | Q2 x 1-5/8-KW | 3/8 X 3/16 | 4.7 |
| | 471706 | Q2 x 1-11/16-KW | 3/8 X 3/16 | 4.6 |
| | 471707 | Q2 x 1-3/4-KW | 3/8 X 3/16 | 4.4 |
| | 471708 | Q2 x 1-13/16-KW | 1/2 X 1/4 | 4.3 |
| | 471709 | Q2 x 1-7/8-KW | 1/2 X 1/4 | 4.1 |
| | 471710 | Q2 x 1-15/16-KW | 1/2 X 1/4 | 3.9 |
| | 471711 | Q2 x 2-KW | 1/2 X 1/4 | 3.7 |
| | 471712 | Q2 x 2-1/16-KW | 1/2 X 1/4 | 3.6 |

# Specification

## Split Taper Bushings



**BK² bushings standard stock bores (inches)**

| | Part number | Description | Keyseat | Weight |
|---|---|---|---|---|
| Q2 | 471713 | Q2 x 2-1/8-KW | 1/2 X 1/4 | 3.4 |
| | 471714 | Q2 x 2-3/16-KW | 1/2 X 1/4 | 3.2 |
| | 471715 | Q2 x 2-1/4-KW | 1/2 X 1/4 | 3 |
| | 471716 | Q2 x 2-5/16-KW | 5/8 X 5/16 | 2.8 |
| | 471717 | Q2 x 2-3/8-KW | 5/8 X 5/16 | 2.6 |
| | 471718 | Q2 x 2-7/16-KW | 5/8 X 5/16 | 2.3 |
| | 471719 | Q2 x 2-1/2-KW | 5/8 X 5/16 | 2.1 |
| | 471720 | Q2 x 2-9/16-KW | 5/8 X 5/16 | 1.9 |
| | 471721 | Q2 x 2-5/8-KW | 5/8 X 5/16 | 1.7 |
| | 471722 | Q2 x 38MM-KW | 10 x 3.3mm | 5 |
| R1 | 471723 | R1 x 1-1/8-KW | 1/4 X 1/8 | 10.1 |
| | 471724 | R1 x 1-3/16-KW | 1/4 X 1/8 | 10 |
| | 471725 | R1 x 1-1/4-KW | 1/4 X 1/8 | 9.9 |
| | 471726 | R1 x 1-5/16-KW | 5/16 X 5/32 | 9.8 |
| | 471727 | R1 x 1-3/8-KW | 5/16 X 5/32 | 9.7 |
| | 471727 | R1 x 1-3/8-KW | 3/8 X 3/16 | 9.7 |
| | 471728 | R1 x 1-3/8 KW 3/8-KW | 3/8 X 3/16 | 9.7 |
| | 471729 | R1 x 1-7/16-KW | 3/8 X 3/16 | 9.6 |
| | 471730 | R1 x 1-1/2-KW | 3/8 X 3/16 | 9.5 |
| | 471731 | R1 x 1-9/16-KW | 3/8 X 3/16 | 9.4 |
| | 471732 | R1 x 1-5/8-KW | 3/8 X 3/16 | 9.3 |
| | 471733 | R1 x 1-11/16-KW | 3/8 X 3/16 | 9.2 |
| | 471734 | R1 x 1-3/4-KW | 3/8 X 3/16 | 9 |
| | 471735 | R1 x 1-13/16-KW | 1/2 X 1/4 | 8.9 |
| | 471736 | R1 x 1-7/8-KW | 1/2 X 1/4 | 8.8 |
| | 471737 | R1 x 1-15/16-KW | 1/2 X 1/4 | 8.6 |
| | 471738 | R1 x 2-KW | 1/2 X 1/4 | 8.5 |
| | 471739 | R1 x 2-1/16-KW | 1/2 X 1/4 | 8.3 |
| | 471740 | R1 x 2-1/8-KW | 1/2 X 1/4 | 8.2 |
| | 471741 | R1 x 2-3/16-KW | 1/2 X 1/4 | 8 |
| | 471742 | R1 x 2-1/4-KW | 1/2 X 1/4 | 7.9 |
| | 471743 | R1 x 2-5/16-KW | 5/8 X 5/16 | 7.7 |
| | 471744 | R1 x 2-3/8-KW | 5/8 X 5/16 | 7.5 |
| | 471745 | R1 x 2-7/16-KW | 5/8 X 5/16 | 7.3 |
| | 471746 | R1 x 2-1/2-KW | 5/8 X 5/16 | 7.2 |
| | 471747 | R1 x 2-9/16-KW | 5/8 X 5/16 | 7 |
| | 471748 | R1 x 2-5/8-KW | 5/8 X 5/16 | 8.8 |
| | 471749 | R1 x 2-11/16-KW | 5/8 X 5/16 | 6.6 |
| | 471750 | R1 x 2-3/4-KW | 5/8 X 5/16 | 6.4 |
| | 471751 | R1 x 2-13/16-KW | 3/4 X 3/8 | 6.2 |
| | 471752 | R1 x 2-7/8-KW | 3/4 X 3/8 | 6 |
| | 471753 | R1 x 2-15/16-KW | 3/4 X 3/8 | 4.4 |
| | 471754 | R1 x 3-KW | 3/4 X 3/8 | 5.6 |
| | 471755 | R1 x 3-1/16-KW | 3/4 X 3/8 | 5.3 |
| | 471756 | R1 x 3-1/8-KW | 3/4 X 3/8 | 5.1 |
| | 471757 | R1 x 3-3/16-KW | 3/4 X 3/8 | 4.9 |
| | 471758 | R1 x 3-1/4-KW | 3/4 X 3/8 | 4.6 |
| | 471759 | R1 x 3-3/8-KW | 7/8 X 7/16 | 4.2 |
| | 471760 | R1 x 3-7/16-KW | 7/8 X 7/16 | 3.9 |
| | 471761 | R1 x 3-1/2-KW | 7/8 X 7/16 | 3.6 |
| | 471762 | R1 x 3-5/8-KW | 7/8 X 7/16 | 3.1 |
| | 471763 | R1 x 3-11/16-KW | 7/8 X 7/16 | 2.9 |
| | 471764 | R1 x 3-3/4-KW | 7/8 X 7/16 | 2.6 |
| | 471765 | R1 x 28MM-KW | 8 x 3.3mm | 10.1 |
| | 471766 | R1 x 30MM-KW | 8 x 3.3mm | 10.1 |
| | 471767 | R1 x 32MM-KW | 10 x 3.3mm | 10.1 |
| | 471768 | R1 x 35MM-KW | 10 x 3.3mm | 10.1 |
| | 471769 | R1 x 36MM-KW | 10 x 3.3mm | 10.1 |
| | 471770 | R1 x 38MM-KW | 10 x 3.3mm | 10.1 |
| | 471771 | R1 x 39MM-KW | 12 x 3.3mm | 10.1 |
| | 471772 | R1 x 40MM-KW | 12 x 3.3mm | 10.1 |
| | 471773 | R1 x 42MM-KW | 12 x 3.3mm | 9.2 |
| | 471774 | R1 x 45MM-KW | 14 x 3.8mm | 9.2 |
| | 471775 | R1 x 48MM-KW | 14 x 3.8mm | 8.7 |
| | 471776 | R1 x 50MM-KW | 14 x 3.8mm | 8.7 |

| | Part number | Description | Keyseat | Weight |
|---|---|---|---|---|
| R1 | 471777 | R1 x 55MM-KW | 16 x 4.3mm | 8.7 |
| | 471778 | R1 x 60MM-KW | 18 x 4.4mm | 7.6 |
| | 471779 | R1 x 65MM-KW | 18 x 4.4mm | 7 |
| | 471780 | R1 x 70MM-KW | 20 x 4.9mm | 6.4 |
| | 471781 | R1 x 75MM-KW | 20 x 4.9mm | 6.4 |
| | 471782 | R1 x 80MM-KW | 22 x 5.4mm | 4.5 |
| | 471783 | R1 x 90MM-KW | 25 x 5.4mm | 3.5 |
| | 471784 | R1 x 95MM-KW | 25 x 5.4mm | 3.5 |
| R2 | 471785 | R2 x 1-3/8-KW | 5/16 X 5/32 | 14.9 |
| | 471786 | R2 x 1-7/16-KW | 3/8 X 3/16 | 14.7 |
| | 471787 | R2 x 1-1/2-KW | 3/8 X 3/16 | 14.5 |
| | 471788 | R2 x 1-9/16-KW | 3/8 X 3/16 | 14.4 |
| | 471789 | R2 x 1-5/8-KW | 3/8 X 3/16 | 14.2 |
| | 471790 | R2 x 1-11/16-KW | 3/8 X 3/16 | 13.9 |
| | 471791 | R2 x 1-3/4-KW | 3/8 X 3/16 | 13.7 |
| | 471792 | R2 x 1-13/16-KW | 1/2 X 1/4 | 13.5 |
| | 471793 | R2 x 1-7/8-KW | 1/2 X 1/4 | 13.3 |
| | 471794 | R2 x 1-15/16-KW | 1/2 X 1/4 | 13 |
| | 471795 | R2 x 2-KW | 1/2 X 1/4 | 12.8 |
| | 471796 | R2 x 2-1/16-KW | 1/2 X 1/4 | 12.5 |
| | 471797 | R2 x 2-1/8-KW | 1/2 X 1/4 | 12.3 |
| | 471798 | R2 x 2-3/16-KW | 1/2 X 1/4 | 12 |
| | 471799 | R2 x 2-1/4-KW | 1/2 X 1/4 | 11.7 |
| | 471800 | R2 x 2-5/16-KW | 5/8 X 5/16 | 11.5 |
| | 471801 | R2 x 2-3/8-KW | 5/8 X 5/16 | 11.2 |
| | 471802 | R2 x 2-7/16-KW | 5/8 X 5/16 | 10.2 |
| | 471803 | R2 x 2-1/2-KW | 5/8 X 5/16 | 10.6 |
| | 471804 | R2 x 2-9/16-KW | 5/8 X 5/16 | 10.2 |
| | 471805 | R2 x 2-5/8-KW | 5/8 X 5/16 | 9.9 |
| | 471806 | R2 x 2-11/16-KW | 5/8 X 5/16 | 9.6 |
| | 471807 | R2 x 2-3/4-KW | 5/8 X 5/16 | 9.4 |
| | 471808 | R2 x 2-13/16-KW | 3/4 X 3/8 | 8.9 |
| | 471809 | R2 x 2-7/8-KW | 3/4 X 3/8 | 8.6 |
| | 471810 | R2 x 2-15/16-KW | 3/4 X 3/8 | 8.5 |
| | 471811 | R2 x 3-KW | 3/4 X 3/8 | 7.8 |
| | 471812 | R2 x 3-1/16-KW | 3/4 X 3/8 | 7.4 |
| | 471813 | R2 x 3-1/8-KW | 3/4 X 3/8 | 7.1 |
| | 471814 | R2 x 3-3/16-KW | 3/4 X 3/8 | 6.7 |
| | 471815 | R2 x 3-1/4-KW | 3/4 X 3/8 | 6.3 |
| | 471816 | R2 x 3-3/8-KW | 7/8 X 7/16 | 8 |
| | 471817 | R2 x 3-7/16-KW | 7/8 X 7/16 | 7.7 |
| | 471818 | R2 x 3-1/2-KW | 7/8 X 7/16 | 7.7 |
| | 471819 | R2 x 3-5/8-KW | 7/8 X 7/16 | 7.5 |
| | 471820 | R2 x 35MM-KW | 10 x 3.3mm | 14.9 |
| | 471821 | R2 x 36MM-KW | 10 x 3.3mm | 14.7 |
| | 471822 | R2 x 38MM-KW | 10 x 3.3mm | 14.5 |
| | 471823 | R2 x 39MM-KW | 12 x 3.3mm | 14.4 |
| | 471824 | R2 x 40MM-KW | 12 x 3.3mm | 14.2 |
| | 471825 | R2 x 42MM-KW | 12 x 3.3mm | 13.9 |
| | 471826 | R2 x 45MM-KW | 14 x 3.8mm | 13.7 |
| | 471827 | R2 x 48MM-KW | 14 x 3.8mm | 13.5 |
| | 471828 | R2 x 50MM-KW | 14 x 3.8mm | 13.3 |
| | 471829 | R2 x 55MM-KW | 16 x 4.3mm | 13 |
| | 471830 | R2 x 60MM-KW | 18 x 4.4mm | 12.8 |
| | 471831 | R2 x 65MM-KW | 18 x 4.4mm | 12.5 |
| | 471832 | R2 x 70MM-KW | 20 x 4.9mm | 12.3 |
| | 471833 | R2 x 75MM-KW | 20 x 4.9mm | 12 |
| | 471834 | R2 x 80MM-KW | 22 x 5.4mm | 11.7 |
| | 471835 | R2 x 85MM-KW | 22 x 5.4mm | 11.5 |
| | 471836 | R2 x 90MM-KW | 25 x 5.4mm | 11.2 |

# Specification

## Split Taper Bushings

**Split taper bushings standard stock bores (inches)**

| | Part number | Description | Keyseat | Weight |
|---|---|---|---|---|
| S1 | 471837 | S1 x 1-11/16-KW | 3/8 X 3/16 | 18.9 |
| | 471838 | S1 x 1-3/4-KW | 3/8 X 3/16 | 18.7 |
| | 471839 | S1 x 1-7/8-KW | 1/2 X 1/4 | 18.3 |
| | 471840 | S1 x 1-15/16-KW | 1/2 X 1/4 | 18.1 |
| | 471841 | S1 x 2-KW | 1/2 X 1/4 | 17.8 |
| | 471842 | S1 x 2-1/16-KW | 1/2 X 1/4 | 17.6 |
| | 471843 | S1 x 2-1/8-KW | 1/2 X 1/4 | 17.4 |
| | 471844 | S1 x 2-3/16-KW | 1/2 X 1/4 | 17.1 |
| | 471845 | S1 x 2-1/4-KW | 1/2 X 1/4 | 16.9 |
| | 471846 | S1 x 2-5/16-KW | 5/8 X 5/16 | 16.6 |
| | 471847 | S1 x 2-3/8-KW | 5/8 X 5/16 | 16.4 |
| | 471848 | S1 x 2-7/16-KW | 5/8 X 5/16 | 16.1 |
| | 471849 | S1 x 2-1/2-KW | 5/8 X 5/16 | 15.8 |
| | 471850 | S1 x 2-9/16-KW | 5/8 X 5/16 | 15.6 |
| | 471851 | S1 x 2-5/8-KW | 5/8 X 5/16 | 15.3 |
| | 471852 | S1 x 2-11/16-KW | 5/8 X 5/16 | 15 |
| | 471853 | S1 x 2-3/4-KW | 5/8 X 5/16 | 14.7 |
| | 471854 | S1 x 2-7/8-KW | 3/4 X 3/8 | 14 |
| | 471855 | S1 x 2-15/16-KW | 3/4 X 3/8 | 13.7 |
| | 471856 | S1 x 3-KW | 3/4 X 3/8 | 13.4 |
| | 471857 | S1 x 3-1/8-KW | 3/4 X 3/8 | 12.7 |
| | 471858 | S1 x 3-3/16-KW | 3/4 X 3/8 | 12.3 |
| | 471859 | S1 x 3-1/4-KW | 3/4 X 3/8 | 12 |
| | 471860 | S1 x 3-3/8-KW | 7/8 X 7/16 | 11.3 |
| | 471861 | S1 x 3-7/16-KW | 7/8 X 7/16 | 10.9 |
| | 471862 | S1 x 3-1/2-KW | 7/8 X 7/16 | 10.5 |
| | 471863 | S1 x 3-5/8-KW | 7/8 X 7/16 | 9.7 |
| | 471864 | S1 x 3-11/16-KW | 7/8 X 7/16 | 9.3 |
| | 471865 | S1 x 3-3/4-KW | 7/8 X 7/16 | 8.9 |
| | 471866 | S1 x 3-7/8-KW | 1 X 1/2 | 8 |
| | 471867 | S1 x 3-15/16-KW | 1 X 1/2 | 7.6 |
| | 471868 | S1 x 4-KW | 1 X 1/2 | 7.4 |
| | 471869 | S1 x 4-1/8-KW | 1 X 1/2 | 6.2 |
| | 471870 | S1 x 4-3/16-KW | 1 X 1/2 | 5.8 |
| | 471871 | S1 x 4-1/4-KW | 1 X 1/2 | 5.3 |

# Accessories Products


| | |
|---|---|
| ACC-2 | V-belt tools |
| ACC-5 | Roller Chain tools |
| ACC-6 | Shaft collars |
| ACC-7 | Motor Mounts |
| ACC-9 | Grip tight Bushings |
| ACC-11 | Idler Brackets and Bushings |

# Accessories Products
## V-belt tools

### V-Belt Groove and Belt Gage

When V-belt sections or sheave groove need to be identified thisset of molded plastic gages can be the handiest thing in your tool box. Includes eight gages for grooves and two for belts covering Classical A thru E, A/B Combination grooves and Narrow 3V, 5V and 8V. They are pinned together so that the individual gages will not become lost.

**Part No. 121294**
Wt. - 0.12 Lb

# Accessories Products

## V-belt tools

### V-Belt Tension Tester

This convenient tool facilitates easy checking of belt tension on drives having two or more belts. Scales are provided for reading both the required force and the distance of belt deflection which are used in properly tensioning belts. Force range is 0 - 35 lbs.

**Part No. 109082**
Wt. - 0.5 Lb.

### Precision Laser Alignment Device

Identifies common types of pulley misalignment.

**Part No. 109993**
Wt. - 30 Lb

### Double Barrel Tension Tester

Maximum deflection force: 66 lbs. For use with all multiple V-belts and large synchronous belts.

**Part No. 109991**
Wt. - 0.5 Lb

### Five Barrel Tension Tester

Maximum deflection force: 165 lbs. For use with multiple V-belts and large synchronous belts.

**Part No. 109992**
Wt. - 1 Lb.

### Sonic Tension Meter - Model 507C

The Sonic Tension Meter is an electronic device that measures the natural frequency of a free stationary belt span and instantly computes the static belt tensions based upon the belt span length, belt width, and belt type. The Sonic Tension Meter can accurately measure belt tensions for both synchronous and v-belts. Other features include:

- Output readings can be switched between pounds, kilograms, newtons and hertz
- Auto gain control automatically adjusts meter sensitivity
- Auto frequency range filters for background noise
- Frequency range from 10 - 5,000 Hz

| | | |
|---|---|---|
| Sonic Tension Meter - Model 507C (Comes with meter) | **Part No. 109994** | Wt. - 1.0 Lb. |
| ☼ Flexible Sensor | **Part No. 109995** | Wt. - 0.2 Lb. |
| Cord Sensor | **Part No. 109996** | Wt. - 0.2 Lb. |
| ☼ Inductive Sensor (magnets included) | **Part No. 109997** | Wt. - 0.2 Lb. |

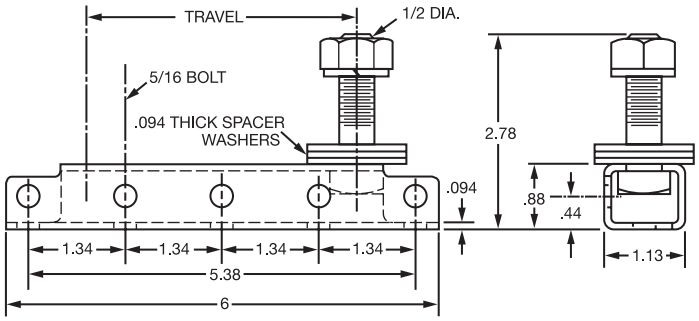
☼ Optional accesories

# Accessories Products

## Tensioner Frame, Idler Sprockets

Proper chain tension is necessary for normal life expectancy. It's also a prime consideration for the efficient, quiet operation of the drive.

The tensioner frame shown below provides an economical means of locating an idler sprocket on a 1/2, diameter machine bolt or a 5/8, diameter spacer. Frame can be mounted in several positions on surfaces either parallel or perpendicular to the chain, suitable for either conventional or cantilever mounting.



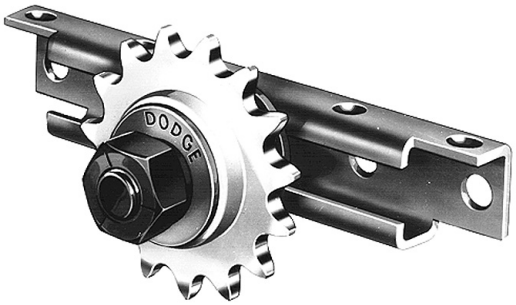

### Idler Sprockets

Although these idler sprockets are designed to be used with the frames shown above, they can be mounted on standard machine bolts as shown in table below.

Idler sprockets will operate at the same speeds permitted for driver sprockets of the same number of teeth. They are machined all over with teeth hardened to assure smooth-running drives. They are available with either bronze sleeve or ball bearings in the sprocket bore. The sleeve bearing runs on a hardened and ground steel journal. The ball bearings are double-sealed and prelubricated.

### Chain Tensioner Frame, P/N 102050

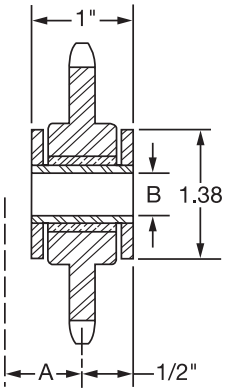
This formed steel frame has mounting holes in the bottom and one side so it can be mounted in several positions on surfaces parallel



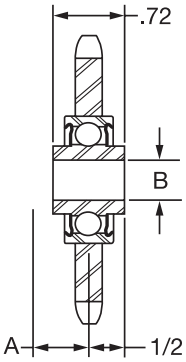

or perpendicular to the chain. Included is a 5/8" O.D. sleeve and a 1/2" diameter machine bolt to use with 1/2" and 5/8" bore idler sprockets.

Spacer washers may be used to obtain the chain clearance required. Idler sprocket table below shows minimum space required for chain clearance.

Part Number **102050**
Weight .73 lbs




**SLEEVE BEARING TYPE**




**BALL BEARING TYPE**

| For Chain: No. | Pitch | Description + | Part No. | No. of Spkt. Teeth | Spkt. O.D. | Brg. Type | Wt. | A * | B † | Ref. Old No. |
|---|---|---|---|---|---|---|---|---|---|---|
| 35 | 3/8" | 31E20 | **102052** | 20 | 2.593 | Brz. | 53 | .59 | 1/2 | CT320 |
| | | 35BB20H | **102060** | | | Ball | .30 | .44 | 5/8 | 320H |
| 41-40 | 1/2" | 41E15 | **102053** | 15 | 2.652 | Brz. | .58 | .59 | 1/2 | CT415 |
| 40 | | 40BB17H | **102061** | 17 | 2.974 | Ball | .50 | .44 | 5/8 | 417H |
| | | 40BB18H | **102070** | 18 | 3.14 | Ball | .53 | .44 | 5/8 | – |
| 50 | 5/8" | 51E15 | **102054** | 15 | 3.315 | Brz | .83 | .72 | 1/2 | CT515 |
| | | 50BB15H | **102062** | | | Ball | .60 | .56 | 5/8 | 515H |
| | | 50BB17H | **102073** | 17 | .372 | Ball | .78 | .56 | 5/8 | – |
| 60, 60H | 3/4" | 61E14 | **102055** | 14 | 3.736 | Brz. | 1.09 | .81 | 1/2 | CT614 |
| | | 60BB13H | **102063** | 13 | 3.493 | Ball | .90 | .66 | 5/8 | 613H |
| | | 60BB15H | **Δ** | 15 | 3.98 | Ball | 1.06 | .66 | 5/8 | – |
| 80,80H | 1" | 80BB12H | **102064** | 12 | 4.332 | Ball | 1.5 | .69 | 5/8 | 812H |

* Minimum space required for chain clearance.

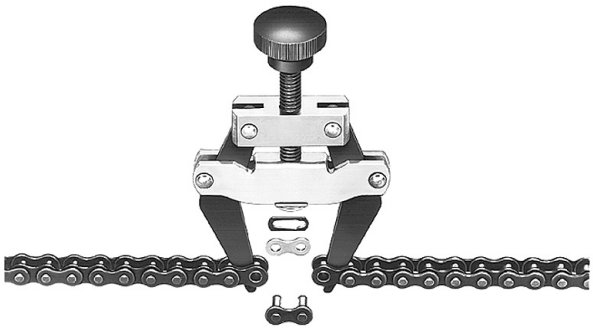
† Size of standard machine bolt on which sprocket can be mounted.

Δ Non-Stock. Allow 2-4 weeks delivery.

\+ "H" suffix indicates hardened teeth

# Accessories Products

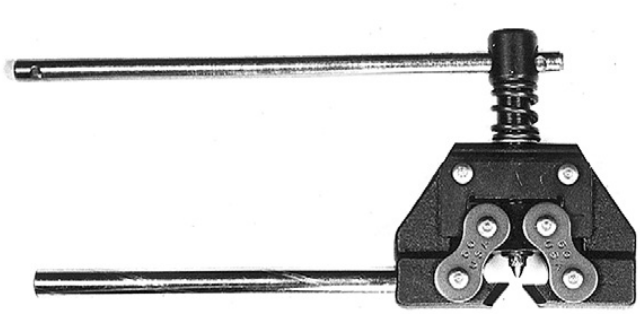
## Chain Tools



### Chain Assembly Tools

This unique tool was designed to make sizes 35-240 chain installation easy. By hooking the two jaws into each end of the chain and turning the screw (handle) until the two ends almost meet, the connecting link can be inserted and fastened in place. The photo shows the Model 35 tool. The Model 80 uses a T-handle instead of a knob.

| For Chain Nos. | Jaw Spread of Tool | Part No. | Wt. (Lbs.) |
|---|---|---|---|
| 35 thru 60 | 2” | **098190** | .4 |
| 80 thru 240 | 5” | **098191** | 2.2 |



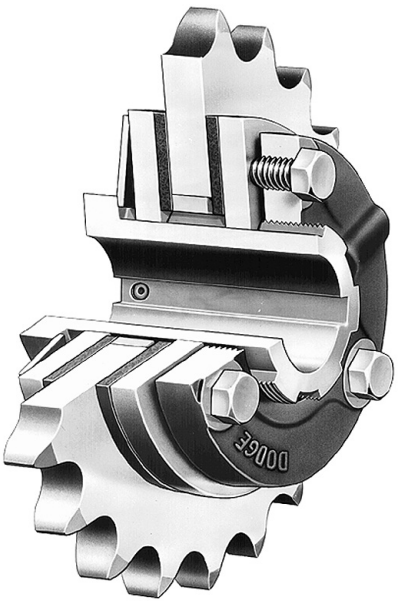
### Chain Pin Extractors (Chain Breaker)

This fast working tool is practical for removing chain pins when roller chain needs to be disconnected or when various lengths of chain need to be made up.
Three sizes of pin extractors are available to use on riveted and cottered chain, sizes 25-160. This tool, if properly used, will not damage chain, and pins can be reused.

| For Chain Nos. | Part No. | Ref. Model No. | Wt. (Lbs.) | Replacement Parts | |
|---|---|---|---|---|---|
| | | | | Screw and Tip | Tip Only |
| 25 thru 50 | **098175** | 101-1 | 1.0 | **391301*** | **098180** |
| 60 thru 80 | **098176** | 101-2 | 1.9 | **391304** | **098181** |
| 100 thru 160 | **098177** | 101-3 | 8.5 | **391308** | **098182** |

* Includes handle

## Torque-Tamer torque overload clutch offers overload protection that’s a cinch to adjust.



See Torque-Tamer Section for complete specifications and ordering information.

# Accessories Products

## Shaft Collars

### Solid Steel Shaft Collars

| Shaft Size | Part Number | | Dimensions | | | |
|---|---|---|---|---|---|---|
| | Steel | Stainless | O.D. | Width | Screw | Wt. |
| 1/8 | – | **456225** | 3/8 | 1/4 | #6 | 0.01 |
| 3/16 | **040001** | **456226** | 7/16 | 1/4 | #8 | 0.01 |
| 1/4 | **040002** | **456227** | 1/2 | 5/16 | #10 | 0.01 |
| 5/16 | **040003** | **456228** | 5/8 | 5/16 | #10 | 0.02 |
| 3/8 | **040004** | **456229** | 3/4 | 3/8 | 1/4 | 0.03 |
| 7/16 | **040005** | | 7/8 | 7/16 | 1/4 | 0.05 |
| 1/2 | **040006** | **456230** | 1 | 7/16 | 1/4 | 0.07 |
| 9/16 | **040007** | | 1 | 7/16 | 1/4 | 0.06 |
| 5/8 | **040008** | **456231** | 1-1/8 | 1/2 | 5/16 | 0.09 |
| 11/16 | **040009** | | 1-1/4 | 9/16 | 5/16 | 0.13 |
| 3/4 | **040010** | **456232** | 1-1/4 | 9/16 | 5/16 | 0.12 |
| 13/16 | **040011** | | 1-1/4 | 9/16 | 5/16 | 0.11 |
| 7/8 | **040012** | **456233** | 1-1/2 | 9/16 | 5/16 | 0.18 |
| 15/16 | **040013** | | 1-1/2 | 9/16 | 5/16 | 0.17 |
| 1 | **040014** | **456234** | 1-1/2 | 5/8 | 5/16 | 0.17 |
| 1-1/16 | **040015** | | 1-3/4 | 5/8 | 5/16 | 0.26 |
| 1-1/8 | **040016** | **456235** | 1-3/4 | 5/8 | 5/16 | 0.24 |
| 1-3/16 | **040017** | | 2 | 11/16 | 3/8 | 0.38 |
| 1-1/4 | **040018** | **456236** | 2 | 11/16 | 3/8 | 0.36 |
| 1-5/16 | **010019** | | 2-1/8 | 11/16 | 3/8 | 0.41 |
| 1-3/8 | **040020** | | 2-1/8 | 3/4 | 3/8 | 0.42 |
| 1-7/16 | **040021** | | 2-1/4 | 3/4 | 3/8 | 0.48 |
| 1-1/2 | **040022** | **456237** | 2-1/4 | 3/4 | 3/8 | 0.45 |
| 1-9/16 | **040023** | | 2-1/2 | 13/16 | 3/8 | 0.67 |
| 1-5/8 | **040024** | | 2-1/2 | 13/16 | 3/8 | 0.63 |
| 1-11/16 | **040025** | | 2-1/2 | 13/16 | 3/8 | 0.59 |
| 1-3/4 | **040026** | **456238** | 2-5/8 | 7/8 | 1/2 | 0.71 |
| 1-7/8 | **040027** | | 2-3/4 | 7/8 | 1/2 | 0.76 |
| 1-15/16 | **040028** | | 3 | 7/8 | 1/2 | 0.98 |
| 2 | **040029** | **456239** | 3 | 7/8 | 1/2 | 0.93 |
| 2-3/16 | **040030** | | 3-1/4 | 15/16 | 1/2 | 1.16 |
| 2-1/4 | **040031** | | 3-1/4 | 15/16 | 1/2 | 1.11 |
| 2-7/16 | **040032** | | 3-1/2 | 1 | 1/2 | 1.36 |
| 2-1/2 | **040033** | | 3-1/2 | 1 | 1/2 | 1.30 |
| 2-15/16 | **040034** | | 4 | 1-1/8 | 1/2 | 1.83 |

| Bore Tolerance | |
|---|---|
| **Bore** | **Tolerance** |
| 1/8 - 1/2 | +0.0005/+0.0025 |
| 9/16 - 2 | +0.0005/+0.0030 |
| >2 | +0.0010/+0.0040 |

### Solid Iron Shaft Collars

| Shaft Size | Part Number | Dimensions | | |
|---|---|---|---|---|
| | | O.D. | Width | Wt. |
| 1-15/16 | **010020** | 3-3/8 | 1-3/8 | 1.75 |
| 2 | **010021** | 3-3/8 | 1-3/8 | 1.75 |
| 2-3/16 | **010024** | 3-3/4 | 1-3/8 | 3 |
| 2-7/16 | **010028** | 4-1/4 | 1-1/2 | 3 |
| 2-1/2 | **010029** | 4-1/4 | 1-1/2 | 3 |
| 2-11/16 | **010032** | 4-3/4 | 1-1/2 | 5 |
| 2-15/16 | **010036** | 5 | 1-5/8 | 5 |
| 3-3/16 | **010039** | 5-1/2 | 1-5/8 | 7 |
| 3-7/16 | **010043** | 5-3/4 | 1-3/4 | 8 |
| 3-15/16 | **010048** | 6-1/2 | 1-7/8 | 10.5 |
| 4-7/16 | **010051** | 7-1/4 | 2 | 13.5 |
| 4-15/16 | **010054** | 8 | 2-1/8 | 17 |
| 5-7/16 | **010055** | 8-3/4 | 2-1/8 | 20 |
| 5-15/16 | **010056** | 9-1/4 | 2-1/4 | 22 |
| 6 | **010057** | 9-1/4 | 2-1/4 | 22 |
| 6-1/2 | **010058** | 10 | 2-1/4 | 25 |
| 7 | **010059** | 10-1/2 | 2-3/8 | 30 |
| 7-1/2 | **010060** | 11-3/8 | 2-1/2 | 35 |
| 8 | **010061** | 12-1/8 | 2-7/8 | 45 |

| Bore Tolerance | |
|---|---|
| **Bore** | **Tolerance** |
| <1-1/2 | +0.002/+0.004 |
| 1-9/16 - 2-1/2 | +0.003/+0.005 |
| 2-9/16 - 4 | +0.003/+0.006 |
| 4-1/16 - 6 | +0.003/+0.007 |
| 6-1/16 - 8 | +0.004/+0.008 |

### Split Iron Shaft Collars

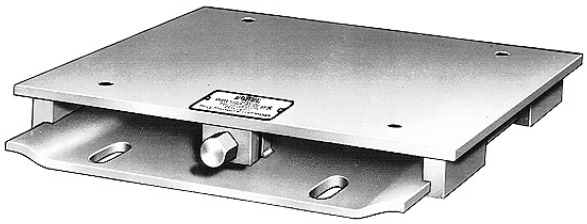
| Shaft Size | Part Number | Dimensions | | |
|---|---|---|---|---|
| | | O.D. | Width | Wt. |
| 1-1/8 | **010075** | 3-1/8 | 1-1/4 | 1.3 |
| 1-3/16 | **010076** | 3-1/8 | 1-1/4 | 1.3 |
| 1-1/4 | **010077** | 3-1/8 | 1-1/4 | 1.3 |
| 1-5/16 | **010078** | 3-3/8 | 1-7/16 | 1.5 |
| 1-7/16 | **010080** | 3-3/8 | 1-7/16 | 1.5 |
| 1-1/2 | **010081** | 3-3/8 | 1-7/16 | 1.5 |
| 1-11/16 | **010084** | 3-3/4 | 1-9/16 | 2.3 |
| 1-3/4 | **010085** | 3-3/4 | 1-9/16 | 2.3 |
| 1-15/16 | **010088** | 4-1/16 | 1-3/4 | 2.8 |
| 2 | **010089** | 4-1/16 | 1-3/4 | 2.8 |
| 2-3/16 | **010092** | 4-1/2 | 1-7/8 | 3.0 |
| 2-1/4 | **010093** | 4-1/2 | 1-7/8 | 3.0 |
| 2-7/16 | **010096** | 4-7/8 | 2 | 4.0 |
| 2-1/2 | **010097** | 4-7/8 | 2 | 4.0 |
| 2-11/16 | **010100** | 5-5/16 | 2-1/16 | 5.0 |
| 2-15/16 | **010104** | 5-5/8 | 2-5/16 | 5.8 |
| 3 | **010105** | 5-5/8 | 2-5/16 | 5.8 |
| 3-3/16 | **010107** | 6-1/16 | 2-3/8 | 8.5 |
| 3-7/16 | **010110** | 6-7/8 | 2-9/16 | 9.8 |
| 3-11/16 | **010112** | 6-13/16 | 2-5/8 | 10.0 |
| 3-15/16 | **010114** | 7-3/16 | 2-3/4 | 11.0 |
| 4-7/16 | **010117** | 8-1/8 | 3-5/16 | 16.5 |
| 4-15/16 | **010120** | 8-3/4 | 3-1/2 | 20.5 |
| 5-7/16 | **010123** | 9-5/8 | 3-3/4 | 28.0 |
| 5-15/16 | **010126** | 10-1/8 | 4-1/16 | 30.0 |
| 6 | **010127** | 10-1/8 | 4-1/16 | 30.0 |
| 6-1/2 | **010128** | 11 | 4-1/4 | 41.0 |
| 7 | **010129** | 12 | 4-1/2 | 46.0 |
| 7-1/2 | **010130** | 12-15/16 | 4-11/16 | 56.0 |
| 8 | **010131** | 13-5/8 | 5-1/16 | 69.0 |

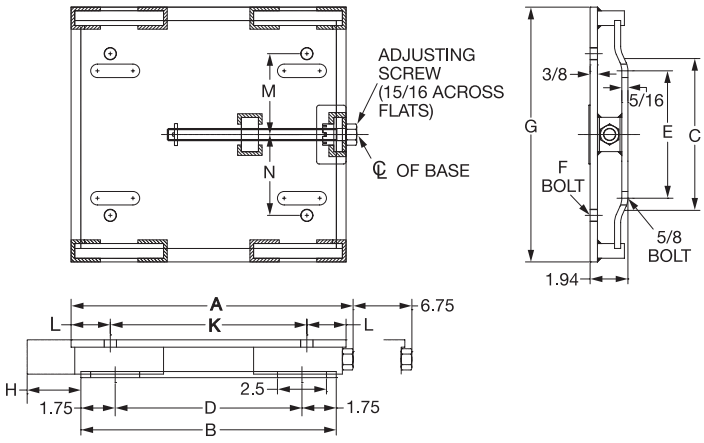
| Bore Tolerance | |
|---|---|
| **Bore** | **Tolerance** |
| <1-1/2 | +0.002/+0.004 |
| 1-9/16 - 2-1/2 | +0.003/+0.005 |
| 2-9/16 - 4 | +0.003/+0.006 |
| 4-1/16 - 6 | +0.003/+0.007 |
| 6-1/16 - 8 | +0.004/+0.008 |

# Accessories Products

## Dodge Motor Bases

### Type B Slide Motor Bases






Type B motor bases are made of fabricated steel and include all of the same quality features as the Type A bases. Type B bases were primarily designed to be used where a base of heavier construction is required.
Order by base number. Bases are tapped to receive popular NEMA frames and can be tapped on order for others by specifying the frame size required. See table below.

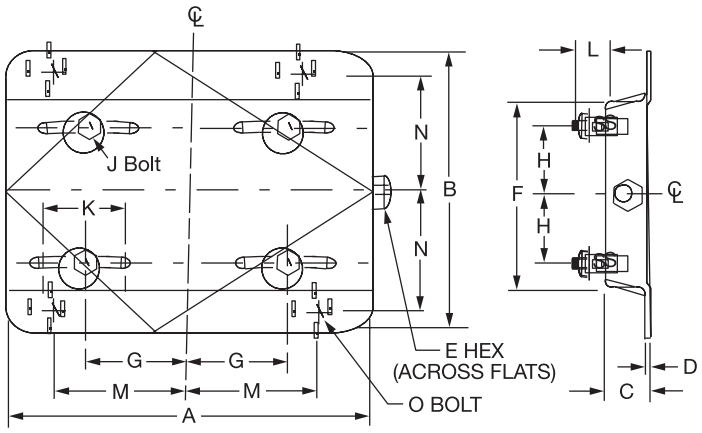
| Base No. Part No. | NEMA Motor Frame No. 1750 RPM | NEMA Motor Frame No. 1160 RPM | Wt. | A | B | C | D | E | F * | G | H | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11B **122114** | 254, 254U | 254, 254U | 37 | 14.38 | 13 | 9.25 | 9.5 | 6.5 | 1/2 | 13 | 3.88 | 10.0 | 2.0 | 4.13 | 4.13 |
| | 215* | 215*, 215T* | | | | | | | 3/8 | | | 8.5 | 2.75 | 3.5 | 3.5 |
| | 184T* | 184T* | | | | | | | 3/8 | | | 7.5 | 3.25 | 2.75 | 2.75 |
| | 213T* | 213T* | | | | | | | 3/8 | | | 8.5 | 2.75 | 2.75 | 2.75 |
| 22B **122115** | 284, 284U | 284, 284U | 37 | 14.38 | 13 | 9.25 | 9.5 | 6.5 | 1/2 | 13 | 3.88 | 11.0 | 1.5 | 4.75 | 4.75 |
| | 256U* | 256U*, 265T* | | | | | | | 1/2 | | | 10.0 | 2.0 | 5.0 | 5.0 |
| | 215T* | – | | | | | | | 3/8 | | | 8.5 | 2.75 | 3.5 | 3.5 |
| | 254T* | 254T* | | | | | | | 1/2 | | | 10.0 | 2.0 | 4.13 | 4.13 |
| 33B **122116** | 324, 324U | 324, 324U | 48 | 16.38 | 14 | 11.5 | 10.5 | 7.75 | 5/8 | 15.75 | 4.38 | 12.5 | 1.75 | 5.25 | 5.25 |
| | 326, 326U | 326, 326U | | | | | | | 5/8 | | | 12.5 | 1.75 | 6.0 | 6.0 |
| | 286U*, 286T* | 286U*, 286T* | | | | | | | 1/2 | | | 11.0 | 2.5 | 5.5 | 5.5 |
| | 256T* | – | | | | | | | 1/2 | | | 10.0 | 3.0 | 5.0 | 5.0 |
| | 284T* | 284T* | | | | | | | 1/2 | | | 11.0 | 2.5 | 4.15 | 4.75 |
| 45B **122118** | 364, 364U | 364, 364U | 56 | 18.38 | 16 | 12.25 | 12.5 | 8 | 5/8 | 16.5 | 4.38 | 14.0 | 2.0 | 5.13 | 6.13 |
| | 365 | 365 | | | | | | | 5/8 | | | 14.0 | 2.0 | 6.13 | 6.13 |
| | 324T* | 324T* | | | | | | | 5/8 | | | 12.5 | 2.75 | 5.75 | 4.75 |

* Bases are tapped with national coarse threads for those motor frames not marked with an asterisk.
Bases for motor frames marked with an asterisk will be drilled and tapped on order at an extra charge and will require "F" diameter bolts and nuts – when ordering specify NEMA motor frame size.

# Accessories Products

## Adjustable NEMA Motor Bases

Dodge Adjustable motor bases provide a convenient method for mounting standard NEMA-frame motors. Hex- screw “E” is used to adjust the drive center distance over range “K” for tensioning V-Belt and Synchronous belt drives. Once the drive is tensioned, bolts “J” are tightened for a secure, stable mounting of the motor.



Style A

Style B

| Base No. | Part No. | Wt. | Style | Dimensions | | | | | | | | | | | Bolt Dimensions | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A | B | C | D | F | G | H | K | L | M | N | Adj. | Hex | J | O |
| 56 | **122090** | 3.0 | A | 10.63 | 6.50 | 1.13 | 0.08 | 4.50 | 2.44 | 1.50 | 3.00 | 0.87 | 3.81 | 2.88 | 3/8 | 9/16 | 5/16 | 3/8 |
| 143 | **122091** | 5.0 | A | 10.50 | 7.50 | 1.13 | 0.12 | 5.50 | 2.75 | 2.00 | 3.00 | 0.81 | 3.75 | 3.38 | 3/8 | 9/16 | 5/16 | 3/8 |
| 145 | **122092** | 6.0 | A | 10.50 | 8.50 | 1.13 | 0.12 | 6.50 | 2.75 | 2.50 | 3.00 | 0.81 | 3.75 | 3.88 | 3/8 | 9/16 | 5/16 | 3/8 |
| 182 | **122093** | 9.0 | A | 12.75 | 9.50 | 1.50 | 0.13 | 6.50 | 3.75 | 2.25 | 3.00 | 1.25 | 4.50 | 4.25 | 1/2 | 3/4 | 3/8 | 1/2 |
| 184 | **122094** | 9.5 | A | 12.75 | 10.50 | 1.50 | 0.13 | 7.50 | 3.75 | 2.75 | 3.00 | 1.25 | 4.50 | 4.75 | 1/2 | 3/4 | 3/8 | 1/2 |
| 213 | **122095** | 13.5 | A | 15.00 | 11.00 | 1.75 | 0.16 | 7.50 | 4.25 | 2.75 | 3.50 | 1.25 | 5.25 | 4.75 | 1/2 | 3/4 | 3/8 | 1/2 |
| 215 | **122096** | 15.5 | A | 15.00 | 12.50 | 1.75 | 0.16 | 9.00 | 4.25 | 3.50 | 3.50 | 1.25 | 5.25 | 5.50 | 1/2 | 3/4 | 3/8 | 1/2 |
| 254 | **122097** | 17.5 | B | 17.75 | 15.13 | 2.00 | 0.19 | 10.75 | 5.00 | 4.13 | 4.00 | 1.44 | 6.25 | 6.63 | 5/8 | 15/16 | 1/2 | 5/8 |
| 256 | **122098** | 18.5 | B | 17.75 | 16.88 | 2.00 | 0.19 | 12.50 | 5.00 | 5.00 | 4.00 | 1.44 | 6.25 | 7.50 | 5/8 | 15/16 | 1/2 | 5/8 |
| 284 | **122099** | 21.0 | B | 19.75 | 16.88 | 2.00 | 0.19 | 12.50 | 5.50 | 4.75 | 4.50 | 1.69 | 7.00 | 7.50 | 5/8 | 15/16 | 1/2 | 5/8 |
| 286 | **122100** | 22.0 | B | 19.75 | 18.38 | 2.00 | 0.19 | 14.00 | 5.50 | 5.50 | 4.50 | 1.69 | 7.00 | 8.25 | 5/8 | 15/16 | 1/2 | 5/8 |
| 324 | **122101** | 31.0 | B | 22.75 | 19.25 | 2.50 | 0.19 | 14.00 | 6.25 | 5.25 | 5.25 | 2.19 | 8.00 | 8.25 | 3/4 | 1-1/8 | 5/8 | 3/4 |
| 326 | **122102** | 32.0 | B | 22.75 | 20.75 | 2.50 | 0.19 | 15.50 | 6.25 | 6.00 | 5.25 | 2.19 | 8.00 | 9.25 | 3/4 | 1-1/8 | 5/8 | 3/4 |
| 364 | **122103** | 44.0 | B | 25.50 | 20.50 | 2.50 | 0.25 | 15.50 | 7.00 | 5.63 | 6.00 | 2.06 | 9.00 | 9.13 | 3/4 | 1-1/8 | 5/8 | 3/4 |
| 365 | **122104** | 45.0 | B | 25.50 | 21.50 | 2.50 | 0.25 | 16.50 | 7.00 | 6.13 | 6.00 | 2.06 | 9.00 | 9.63 | 3/4 | 1-1/8 | 5/8 | 3/4 |

# Accessories Products

## GRIP-TIGHT Bushings

GRIP-TIGHT is a revolutionary bushing system that will decrease maintenance costs and increase productivity and uptime. The 360° contact provides a secure fit onto the shaft, reduces vibration, eliminates shaft damage and makes the use of keys obsolete.

**Features and Benefits:**

- Concentric contact on shaft for better grip
- Less vibration
- Superior balanced system
- No keyways required
- No fretting corrosion
- Can be used with commercial shafting
- Reduction in material cost
- Easy on, reliable mounting
- Same bushing concept used in bearings, fan hubs, and sheaves

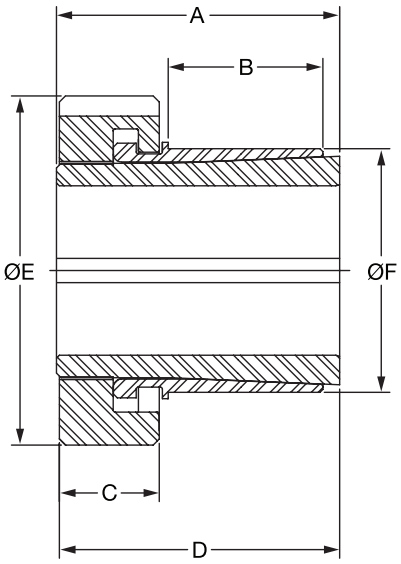
**Possible Application:**

- Fan hub
- Sheave and sprockets
- Couplings

**NOTE: Installation and maintenance instructions for Dodge products are available on dodge.ptplace.com**

# Accessories Products

## GRIP-TIGHT Bushings - Dimensions



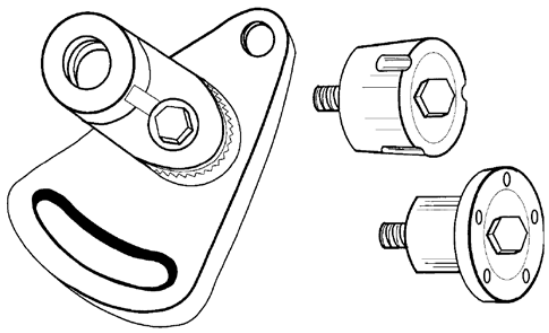

| Shaft Size* | Series | Part Number | A | B | C | D | E | F +.002/-.000 | Recommended Housing Bore Tolerance | Locknut Rotation From Zero |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 205 | **111940** | 1.46 | 0.80 | 0.52 | 1.43 | 1.80 | 1.256 | +.0040" - 0 | 2/3 Turn |
| 1-3/16 | 206 | **111941** | 1.61 | 0.94 | 0.53 | 1.58 | 2.00 | 1.445 | +.0040" - 0 | 2/3 Turn |
| 1-7/16 | 207 | **111942** | 1.62 | 0.98 | 0.53 | 1.59 | 2.30 | 1.693 | +.0040" - 0 | 2/3 Turn |
| 1-1/2 | 208 | **111943** | 1.84 | 1.12 | 0.53 | 1.81 | 2.50 | 1.932 | +.0040" - 0 | 2/3 Turn |
| 1-11/16 | 209 | **111944** | 1.85 | 1.15 | 0.53 | 1.82 | 2.67 | 2.080 | +.0047" - 0 | 2/3 Turn |
| 1-15/16 | 210 | **111945** | 1.86 | 1.16 | 0.53 | 1.83 | 2.94 | 2.312 | +.0047" - 0 | 1 Turn |
| 2-3/16 | 211 | **111946** | 1.93 | 1.23 | 0.53 | 1.90 | 3.25 | 2.564 | +.0047" - 0 | 1 Turn |
| 2-7/16 | 212 | **111947** | 2.12 | 1.33 | 0.60 | 2.09 | 3.50 | 2.782 | +.0047" - 0 | 1 Turn |
| 2-11/16 | 214 | **111948** | 2.39 | 1.59 | 0.62 | 2.36 | 3.81 | 3.083 | +.0047" - 0 | 1 Turn |
| 2-15/16 | 215 | **111949** | 2.56 | 1.66 | 0.75 | 2.53 | 4.25 | 3.410 | +.0055" - 0 | 1 Turn |
| 3-7/16 | 218 | **111950** | 2.77 | 1.83 | 0.75 | 2.94 | 4.50 | 3.962 | +.0055" - 0 | 1 Turn |

* Other shaft sizes available upon request

**NOTE: Installation and maintenance instructions for Dodge products available at dodge.ptplace.com**

# Accessories Products

## Idler Brackets and Bushings



- Double Adjustable Bracket for Maximum Flexibility
- Positive Ratchet Locking Between Base and Arm
- Idler Bushings in TAPER-LOCK® and QD* Style
- Use with Stock Products, such as: Sheaves, Roller Chain Sprockets, HTD Sprockets · Compatible with Products Machined for: TAPER-LOCK 1610, 2012 and 2517 Bushings; QD SK, SF and E Bushings

*QD is a registered trademark of Emerson Electric.

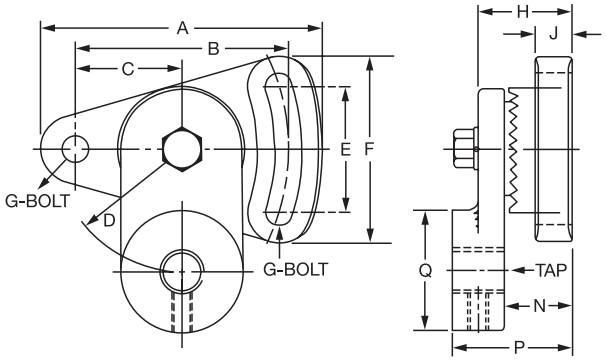
### Bracket Specs

| | | Model No. | | |
|---|---|---|---|---|
| | | 5 | 10 | 20 |
| Part Number | | 115982 | 115986 | 115987 |
| WT. | | 3.40 | 3.40 | 13.50 |
| DIM. | A | 4.62 | 4.63 | 6.94 |
| | B | 3.50 | 3.50 | 5.25 |
| | C | 1.75 | 1.75 | 2.62 |
| | D | 2.00 | 2.00 | 5.00 |
| DIM. | E | 2.06 | 2.06 | 3.00 |
| | F | 3.06 | 3.06 | 4.56 |
| | G | 3/8 | 3/8 | 5/8 |
| | H | 1.63 | 1.63 | 2.38 |
| DIM. | J | 0.62 | 0.62 | 0.88 |
| | N | 1.16 | 1.16 | 1.63 |
| | P | 2.01 | 2.01 | 2.94 |
| | Q | 2.00 | 2.00 | 3.00 |
| | THD | 5/8-18 | 1/2-13 | 1-14 |

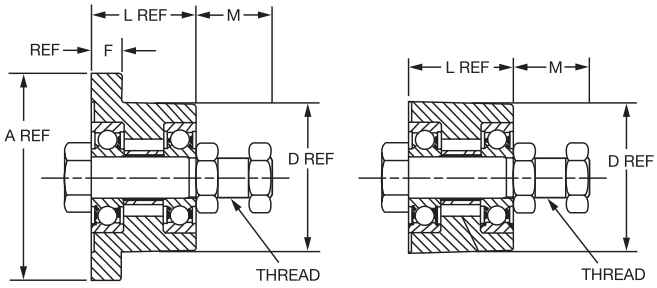
### Bushing Specs

| Taper-Lock | | 1610-IDL | 2012-IDL | 2517-IDL |
|---|---|---|---|---|
| Part Number | | 115985 | 115983 | 115984 |
| For Brkt No. | | 5 | 10 | 10 |
| DIM. | D | 2.25 | 2.75 | 3.38 |
| | L | 1.00 | 1.25 | 1.75 |
| | M | 1.38 | 1.56 | 1.56 |
| | THD | 5/8 -18 | 3/4-16 | 3/4-16 |
| | WT. | 1.0 | 1.6 | 3.0 |
| Bearings | | 6003 | 6204 | 6304 |

### Idler Brackets




### Idler Bushings




| QD | | SH-IDL | SD-IDL | SK-IDL | SK-IDL - Large | SF-IDL | E-IDL | E-IDL - Large |
|---|---|---|---|---|---|---|---|---|
| Part Number | | 115978 | 115979 | 115988 | 115980 | 115989 | 115990 | 424063 |
| For Brkt No. | | – | – | 10 | – | 20 | 20 | – |
| DIM. | A | 2.63 | 3.18 | 3.88 | 3.88 | 4.63 | 6.00 | 6.00 |
| | D | 1.88 | 2.18 | 2.81 | 2.81 | 3.13 | 3.83 | 3.83 |
| | F | 0.43 | 0.43 | 0.56 | 0.56 | 0.63 | 0.88 | 0.88 |
| | L | 1.31 | 1.81 | 1.94 | 1.94 | 2.08 | 2.75 | 2.75 |
| | M | 1.69 | 1.69 | 1.44 | 1.44 | 2.13 | 2.19 | 2.19 |
| | Thd. | 3/4-10 | 3/4-10 | 3/4-16 | 1-8 | 1-14 | 1-14 | 1-1/4 - 12 |
| | Wt. | 2.10 | 2.50 | 2.80 | 2.80 | 5.00 | 8.60 | 12.50 |
| Bearings | | 6004 | 6204 | 6304 | 6206 | 6206 | 6306 | 6307 |

**Dodge Industrial, Inc.**
1061 Holland Road, Simpsonville, SC 29681
+1 864 297 4800

**dodgeindustrial.com**

Dodge Industrial, Inc. reserves all rights in this document and in the subject matter and illustrations contained therein. We reserve the right to modify contents without prior notice and do not accept responsibility for potential errors or possible lack of information in this document. Dodge Industrial, Inc. Terms and Conditions apply. Any reproduction, disclosure to third parties or utilization of its contents–in whole or in parts–is forbidden without prior written consent of Dodge Industrial, Inc.

© Copyright Dodge Industrial, Inc. All rights reserved. Specifications subject to change without notice.
An RBC Bearings company.

CA3GN01-1.24