



**Made-To-Order  
Split Steel Sheaves  
For OEM Quantities**



When it comes to durability and a great price, Maurey Manufacturing's comprehensive line of split steel sheaves offers end users the best of both worlds. A strong precision weld provides a superior bond between the sheave and its machined hub. All hubs are also precision bored and keyed from solid steel, thus offering excellent field performance for many years. These sheaves meet the high market demand for a product that is very economical; stronger than our welded two-piece stamped steel sheaves, yet does not require the rugged cast iron construction of our standard sheave line. Contact us now at 1-800-284-2161 to discover how these sheaves can save your company money.

#### **APPLICATIONS**

- Outdoor Power Equipment
- Air Compressors
- Air Handling Units
- Other Light Duty Applications

#### **KEY FEATURES**

- Made in the USA
- Precision Welded
- Solid Steel Hubs
- Economical Product

***MAUREY MANUFACTURING IS YOUR SOURCE FOR BOTH  
CAST IRON AND SPLIT STEEL SHEAVES!!!***

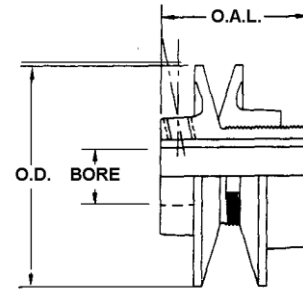


## Variable pitch diameter sheaves...machined for

- Longer Belt Wear
- Closer Operating Tolerance:
- Quiet Performance (Decreased Decible Count)
- Finer Appearance
- Smooth, Quiet, Vibration Free Operation



Permits variation of as much as 30% in speed when used with sheave of a fixed diameter

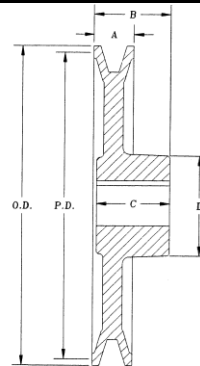


OUTSIDE DIAMETER INCHES	PART NUMBER	STOCK BORES AVAILABLE INCHES				PITCH DIAMETER INCHES						OVERALL WIDTH INCHES	APPROX WEIGHT LBS
						3L BELTS		A or 4L BELTS		B or 5L BELTS			
						MIN	MAX	MIN	MAX	MIN	MAX		
2.32	1VL25	1/2	5/8			1.4	2.4					1-19/32	0.7
2.87	1VL30	1/2	5/8			1.8	2.7					1-21/32	1.1
3.15	1VL34	1/2	5/8	3/4		1.7	2.5	1.9	2.9	2.4	3.2	1-11/16	1.1
3.75	1VL40	1/2	5/8	3/4		2.3	3.1	2.4	3.4	2.7	3.7	1-11/16	1.3
4.15	1VL44	1/2	5/8	3/4	7/8	2.7	3.5	2.8	3.8	3.1	4.1	1-11/16	1.3
4.75	1VM50	1/2	5/8	3/4	7/8	3.3	4.1	3.4	4.4	3.7	4.7	1-7/8	2.8

For Standard Keyway Dimension Refer to Chart in Section A



## Hi-Q® sheaves for air movement systems



With a spoke design that minimizes air resistance these Maurey sheaves assure utmost efficiency on air conditioning and similar installations. A special annealing process makes the spokes and the entire pulley extra strong. Balanced and true running, they assure quiet, efficient and low cost power transmission. Pulleys have rust-resistant finish. For "A" section belts

DIAMETER		PART NUMBER	STOCK BORES (NO KEYWAY)				DIMENSIONS, INCHES			WEIGHT Lbs
O.D. Inches	P.D. Inches		5/8"	3/4"	7/8"	1"	A	B	C	
4.93	4.78	AL54	X	X	***	X	19/32	1-1/16	1-1/16	1.1
5.93	5.78	AL64	X	X	***	X	19/32	1-1/16	1-1/16	1.2
6.93	6.78	AL74	X	X	***	X	19/32	1-1/16	1-1/16	1.5
7.93	7.78	AL84	X	X	***	X	19/32	1-1/16	1-1/16	1.8
8.93	8.78	AL94		X	***	X	19/32	1-1/16	1-1/16	2.4
9.93	9.78	AL104		X	***	X	19/32	1-1/16	1-1/16	2.9
10.93	10.78	AL114		X	***	X	19/32	1-1/16	1-1/16	3.1
11.93	11.78	AL124		X	***	X	19/32	1-1/16	1-1/16	3.8
7.2	7.0	AC72K	X	X	X	X	3/4	1-1/4	1-1/8	2.4
8.2	8.0	AC82K	X	X	X	X	3/4	1-1/4	1-1/8	2.7
9.2	9.0	AC92K	X	X	X	X	3/4	1-1/4	1-1/8	3.1
10.2	10.0	AC102K	X	X	X	X	3/4	1-1/4	1-1/8	3.4
11.2	11.0	AC112K	X	X	X	X	3/4	1-1/4	1-1/8	4.7
12.2	12.0	AC122K	X	X	X	X	3/4	1-1/4	1-1/8	4.9
14.2	14.0	AC142K		X	X	X	3/4	1-1/4	1-1/8	7.0

\*\*\* Non-Stock Bore Consult Factory



**maurey**

**Hi-Q® cast iron variable pitch sheaves**

- Permits Variation of as much as 30% in speed when used with sheaves of fixed diameter



- Hassle free adjustment is allowed by Maurey's patented (#3,661,023) internal key which locks down on the flats in the threads by simply torquing down the setscrew (Type "S" has no internal key). There is no need to remove parts.



- Available in package quantities for air movement OEM units. Light duty diameter companion sheaves also available (See Section A)

**TYPE S -**

One setscrew over flat. Machined all over to assure close balance

**TYPE M & L -**

One setscrew with Maurey patented lock key that allows simple adjustment to stationary pulley. All components individually balanced before assembly to assure close balancing tolerances

SINGLE GROOVE VARIABLE PITCH SHEAVES											
O.D. Diameter Inches	Part Number	Type	STOCK BORES MARKED X							Overall Width Inches	Approx Weight Lbs
			1/2	5/8	3/4	7/8	1	1-1/8	1-3/8		
3.25	8325	S	X	X	X					1-3/4	1.3
3.25	8325	M*				X	X	X		1-3/4	1.8
3.75	8350	M*				X	X	X		1-3/4	2.2
4.15	8400	M				X	X	X		1-3/4	2.6
4.75	8450	M				X	X	X		1-3/4	3.0
5.35	8550	M				X	X	X		1-3/4	4.0
6.00	8575	L				X		X	X	1-3/4	4.2
6.00	8600	M		X	X	X	X	X		1-3/4	4.4
6.00	8600	L							X	1-3/4	5.5
6.75	8670	M			X	X	X	X		1-3/4	6.3
6.75	8670	L							X	1-3/4	6.3
7.37	8740	M				X	X	X		1-3/4	7.2
7.37	8740	L							X	1-3/4	7.2

Dimensions Held to commercially acceptable tolerances

For Std. Keyway Dimensions Refer to Chart in Section A

\* - Two Setscrews 180 Degrees Apart Over Flats In Place of Integral Locking Key

SINGLE GROOVE VARIABLE PITCH SHEAVES													
PART NUMBER	TYPE	PITCH DIAMETER AND PITCH RANGE											
		3L BELTS				"A" HY-T "AX" TORQUE-FLEX				"B" HY-T "BX" TORQUE FLEX			
		MIN PITCH	TURNS OPEN	MAX PITCH	TURNS OPEN	MIN PITCH	TURNS OPEN	MAX PITCH	TURNS OPEN	MIN PITCH	TURNS OPEN	MAX PITCH	TURNS OPEN
8250	S	1.6	4	2.4	0								
8325	S	2.2	4	3.0	0	2.4	5	3.4	0				
8325	M	2.2	4	3.0	0	2.8	4	3.4	0				
8350	S & M	2.7	4	3.5	0	2.9	5	3.9	0	3.0	7	4.0	2
8400	S & M	3.1	4	3.9	0	3.3	5	4.3	0	3.4	7	4.4	2
8450	S & M	3.7	4	4.5	0	3.9	5	4.9	0	4.0	7	5.0	2
8550	S & M	4.3	4	5.1	0	4.5	5	5.5	0	4.6	7	5.6	2
8575	L	4.3	4	5.1	0	4.6	5	5.6	0	4.6	7	6.0	2
8600	M & L	4.9	4	5.7	0	5.2	5	6.2	0	5.3	7	6.3	2
8670	M & L					5.9	5	6.9	0	6.0	7	7.0	2
8740	M & L					6.5	5	7.5	0	6.6	7	7.6	2



# maurey Hi-Q® cast iron variable pitch sheaves



- Cast iron construction. All cast iron sheaves are zinc phosphated for rust resistance
- When ordering variable pitch sheaves, specify bore with part number. For example: D8325 x 5/8"
- Horsepower Ratings  
TYPE S - Fractional H.P.  
TYPE M & L - Up to and including 10 H.P. per groove

TYPE S - One setscrew over flat. Machined all over to assure close balance  
 TYPE M & L - One setscrew with Maurey patented lock key that allows simple adjustment to stationary pulley. All components individually balanced before assembly to assure close balancing tolerances

TWO GROOVE VARIABLE PITCH SHEAVES												
O.D. Diameter Inches	Part Number	Type	STOCK BORES MARKED X								Overall Width Inches	Approx Weight Lbs
			1/2	5/8	3/4	7/8	1	1-1/8	1-3/8	1-5/8 *		
3.25	D8325	M*	X	X	X	X	X	X			3	3.3
3.75	D8350	M*		X	X	X	X	X			3	4.1
4.15	D8400	M		X	X	X	X	X			3-3/8	5.1
4.75	D8450	M		X	X	X	X	X			3-3/8	6.0
5.35	D8550	M		X	X	X	X	X			3-3/8	7.0
5.35	D8550	L							X	X	3-3/8	8.5
6.00	D8575	L				X		X	X	X	3-3/8	8.7
6.00	D8600	M			X	X	X	X			3-3/8	8.7
6.00	D8600	L							X	X	3-3/8	10.1
6.75	D8670	M			X	X	X	X			3-3/8	12.4
6.75	D8670	L							X	X	3-3/8	12.4
7.35	D8740	M			X	X	X	X			3-3/8	14.8
7.35	D8740	L							X	X	3-3/8	14.8

\* Two Setscrews 180 Degrees Apart Over Flats In place of Integral Locking Key

Dimensions Held to commercially acceptable tolerances

▲ For Std Keyway Dimensions See Chart in Section A

- Shallow keyseat 3/8" x 1/16". A 3/8" x 1/4" key is furnished.

TWO GROOVE VARIABLE PITCH SHEAVES													
PART NUMBER	TYPE	PITCH DIAMETER AND PITCH RANGE											
		3L BELTS				"A" HY-T "AX" TORQUE-FLEX				"B" HY-T "BX" TORQUE FLEX			
		MIN PITCH	TURNS OPEN	MAX PITCH	TURNS OPEN	MIN PITCH	TURNS OPEN	MAX PITCH	TURNS OPEN	MIN PITCH	TURNS OPEN	MAX PITCH	TURNS OPEN
D8325	M	2.2	4	3.0	0	2.8	4	3.4	0				
D8350	M	2.7	4	3.5	0	2.9	5	3.9	0	3.0	7	4.0	2
D8400	M	3.1	4	3.9	0	3.3	5	4.3	0	3.4	7	4.4	2
D8450	M	3.7	4	4.5	0	3.9	5	4.9	0	4.0	7	5.0	2
D8550	M & L					4.5	5	5.5	0	4.6	7	5.6	2
D8575	L					4.8	5	5.8	0	4.9	7	6.3	2
D8600	M & L					5.2	5	6.2	0	5.3	7	6.3	2
D8670	M & L					5.9	5	6.9	0	6.0	7	7.0	2
D8740	M & L					6.5	5	7.5	0	6.6	7	7.6	2





# Hi-Q® cast iron variable pitch sheaves



 Permits Variation of as much as 30% in speed when used with sheaves of fixed diameter

 Removable lock key in common commercial design (Style 2 parts).

 Strong cast iron construction ensures long life of groove and bore and keyway.



**TYPE 1 -** One setscrew over flat. Machined all over to assure close balance

**TYPE 2 -** One setscrew over removable lock key. Key must be replaced and locked in position by setscrew(s) before operation. All components are individually balanced before assembly to assure close balancing tolerances.

SINGLE GROOVE VARIABLE PITCH SHEAVES											
O.D. Diameter Inches	Part Number	Type	STOCK BORES MARKED X							Overall Width Inches	Approx Weight Lbs
			1/2	5/8	3/4	7/8	1	1-1/8	1-3/8		
2.32	1VP25	1	X	X						1-19/32	0.7
2.87	1VP30	1	X	X						1-21/32	1.1
3.15	1VP34	1	X	X	X	X				1-7/8	1.4
3.75	1VP40	1	X	X	X	X				1-7/8	1.9
4.15	1VP44	1	X	X	X					1-7/8	2.4
4.15	1VP44	2				X	X	X		1-7/8	2.9
4.75	1VP50	1	X	X	X					2	2.9
4.75	1VP50	2				X	X	X		1-7/8	3.6
5.35	1VP56	1	X	X	X					1-7/8	3.8
5.35	1VP56	2				X	X	X		1-7/8	4.4
6.00	1VP60 *	2				X		X	X	1-21/32	6.5
6.00	1VP62 *	2		X	X	X	X	X	X	1-29/32	6.1
6.50	1VP65 *					X				1-21/32	6.8
6.55	1VP68 *	2			X	X	X	X	X	1-29/32	7.3
7.10	1VP71 *	2						X	X	1-21/32	8.2
7.50	1VP75 *	2				X	X	X	X	1-21/32	9.2

Dimensions Held to commercially acceptable tolerances For Standard Keyway Dimensions See Chart in Section A  
\* - HAS NO HUB PROJECTION

SINGLE GROOVE VARIABLE PITCH SHEAVES													
PART NUMBER	TYPE	PITCH DIAMETER AND PITCH RANGE											
		3L BELTS				"A" HY-T "AX" TORQUE-FLEX				"B" HY-T "BX" TORQUE FLEX			
		MIN PITCH	TURNS OPEN	MAX PITCH	TURNS OPEN	MIN Datum	TURNS OPEN	MAX Datum	TURNS OPEN	MIN Datum	TURNS OPEN	MAX Datum	TURNS OPEN
1VP25	1	1.4	4	2.2	0								
1VP30	1	1.8	4	2.7	0								
1VP34	1	1.7	4	2.5	0	1.9	5	2.9	0	2.4	5	3.2	1
1VP40	1	2.3	4	3.1	0	2.4	5	3.4	0	2.7	6	3.7	1
1VP44	1 & 2	2.7	4	3.5	0	2.8	5	3.8	0	3.1	6	4.1	1
1VP50	1 & 2	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1
1VP56	1 & 2	3.9	4	4.7	0	4.0	5	5.0	0	4.3	6	5.3	1
1VP60	2					4.2	5	5.2	0	4.3	6	5.5	0
1VP62	2	4.5	4	5.3	0	4.6	5	5.6	0	4.9	6	5.9	1
1VP65	2					4.7	5	5.7	0	4.8	6	6.0	0
1VP68	2	5.1	4	5.9	0	5.2	5	6.2	0	5.5	6	6.5	1
1VP71	2					5.3	5	6.3	0	5.4	6	6.6	0
1VP75	2					5.7	5	6.7	0	5.8	6	7.0	0

Not recommended for use with this belt cross section.



# Hi-Q® cast iron variable pitch sheaves



Strong cast iron construction ensures long life of groove and bore and keyway.



Removable lock key in common commercial design (Style 2 parts).



**Horsepower Ratings**

TYPE 1 - Fractional H.P.

TYPE 2 - Up to and including 10 H.P. per groove



**TYPE 1 -** One setscrew over flat. Machined all over to assure close balance

**TYPE 2 -** One setscrew over removable lock key. Key must be replaced and locked in position by setscrew(s) before operation. All components are individually balanced before assembly to assure close balancing tolerances.

TWO GROOVE VARIABLE PITCH SHEAVES												
O.D. Diameter Inches	Part Number	Type	STOCK BORES MARKED X								Overall Width Inches	Approx Weight Lbs
			1/2	5/8	3/4	7/8	1	1-1/8	1-3/8	1-5/8		
3.35	2VP36	1	X	X	•	X	X	X			3	3.4
3.95	2VP42	1		X	•	X	X	X			3	4.4
4.75	2VP50	2		X	•	X	X	X			3	6.3
5.35	2VP56	2			•	X	X	X	X	X	3	7.8
6.00	2VP60	2			•	X	X	X	X	X	3-1/4	10.6
5.95	2VP62	2			•	X	X	X	X	X	3	10.0
6.50	2VP65	2			•				X		3-1/4	12.3
6.55	2VP68	2			•	X	X	X	X	X	3	11.7
7.50	2VP75	2			•		X	X	X	X	3-1/4	16.5

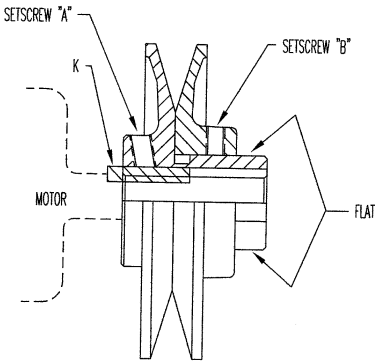
Dimensions Held to commercially acceptable tolerances

▲ For Std. Keyway Dimensions See Chart in Section A

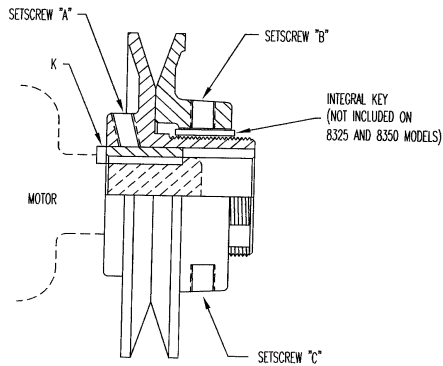
TWO GROOVE VARIABLE PITCH SHEAVES													
PART NUMBER	TYPE	PITCH DIAMETER AND PITCH RANGE											
		3L BELTS				"A" HY-T "AX" TORQUE-FLEX				"B" HY-T "BX" TORQUE FLEX			
		MIN PITCH	TURNS OPEN	MAX PITCH	TURNS OPEN	MIN Datum	TURNS OPEN	MAX Datum	TURNS OPEN	MIN Datum	TURNS OPEN	MAX Datum	TURNS OPEN
2VP36	1	1.9	4	2.7	0	2.0	5	3.0	0	2.5	5	3.3	1
2VP42	1	2.5	4	3.3	0	2.6	5	3.6	0	2.9	6	3.9	1
2VP50	2	3.3	4	4.1	0	3.4	5	4.4	0	3.7	6	4.7	1
2VP56	2	3.9	4	4.7	0	4.0	5	5.0	0	4.3	6	5.3	1
2VP60	2					4.2	5	5.2	0	4.3	6	5.5	0
2VP62	2	4.5	4	5.3	0	4.6	5	5.6	0	4.9	6	5.9	1
2VP65	2					4.7	5	5.7	0	4.8	6	6.0	0
2VP68	2	5.1	4	5.9	0	5.2	5	6.2	0	5.5	6	6.5	1
2VP75	2					5.7	5	6.7	0	5.8	6	7.0	0

Not recommended for use with this belt cross section.

# SINGLE GROOVE VARIABLE PITCH INSTALLATION INSTRUCTIONS



**DO NOT OPERATE  
SHEAVE WITH FLANGE  
END PROTRUDING  
BEYOND STEM**



**STYLE "S"**

**STYLE "M" AND "L"**

MOTOR MUST BE LOCKED OUT AND ALL APPLICABLE SAFETY PRECAUTIONS MUST BE FOLLOWED WHEN ADJUSTING DRIVE.

Place sheave on shaft with hub (body) side towards the motor. Place keystone "K" (not provided unless a rectangular key is required) in keyseat between shaft and bore of body. (Note: 1/2 inch bores do not have keyslots).

Align shafts and drive and lock variable pitch sheave on shaft using setscrew "A". Use between 135 in-lbs and 150 in-lbs of torque. **NOTE: Using higher than recommended installation torque may cause damage to the sheave.**

Loosen setscrew "B" (and "C" if available) and adjust sheave to desired pitch by opening the appropriate number of turns from the first flat after the full closed position. **NOTE: Each turn changes the pitch line by 0.5 inch.**

- 4.1. On style "S" sheaves, visually locate the setscrew "B" over the flat on the body stem. Lock the setscrew down using between 135 in-lbs and 150 in-lbs of torque.
- 4.2. On 8325 & 8350 "M" style sheaves, locate either setscrew "B" or "C" over the flat on the body stem. Lock both setscrews down using between 135 in-lbs and 150 in-lbs of torque.
- 4.3. On 8400 and larger "M" and "L" style sheaves, locate Maurey Integral Quick Key over the flat (TIP keep finger on key while adjusting it to feel it seat on flat). Lock down using between 135 in-lbs and 150 in-lbs of torque. KEY MUST BE LOCKED OVER FLAT FOR PROPER OPERATION.

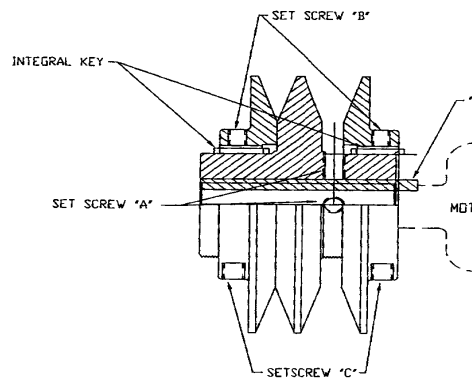
Place belt over sheaves (DO NOT PRY BELTS OVER SHEAVES). Adjust drive to proper tension. Lock motor in place.

Additional adjustments may be made by loosening the belts and following steps 2 through 5 above.

**NOTE: ALL SETSCREWS MUST BE LOCKED IN PLACE PRIOR TO STARTING THE DRIVE. DAMAGE MAY BE DONE TO SHEAVES AND EQUIPMENT IF SETSCREWS ARE NOT PROPERLY LOCKED IN PLACE. ADDITIONAL DRIVE AND SETSCREW TIGHTENING SHOULD BE PERFORMED AFTER TWENTY-FOUR HOURS OF OPERATION.**

OUTER DIA.	PART NO.	STYLE	BORES
2.50	8250	S	1/2, 5/8, 3/4
3.25	8325	S	1/2, 5/8, 3/4
3.25	8325	M	7/8, 1, 1-1/8
3.75	8350	S	1/2, 5/8, 3/4
3.75	8350	M	7/8, 1, 1-1/8
4.15	8400	S	1/2, 5/8, 3/4
4.15	8400	M	7/8, 1, 1-1/8
4.75	8450	S	1/2, 5/8, 3/4
4.75	8450	M	7/8, 1, 1-1/8
5.35	8550	S	5/8, 3/4
5.35	8550	M	7/8, 1, 1-1/8
6.00	8575	M	7/8, 1-1/8, 1-3/8
6.00	8600	M	5/8, 3/4, 7/8, 1, 1-1/8
6.00	8600	L	1-3/8
6.75	8670	M	3/4, 7/8, 1, 1-1/8
6.75	8670	L	1-3/8
7.37	8740	M	3/4, 7/8, 1, 1-1/8
7.37	8740	L	1-3/8

# DOUBLE GROOVE VARIABLE PITCH INSTALLATION INSTRUCTIONS



STYLE "M" AND "L"

**DO NOT OPERATE  
SHEAVE WITH FLANGE  
END PORTRUDING  
BEYOND BODY STEM**

1. MOTOR MUST BE LOCKED OUT AND ALL APPLICABLE SAFETY PRECAUTIONS MUST BE FOLLOWED WHEN ADJUSTING DRIVE.
2. Place sheave on shaft with hub (body) setscrew side towards the motor (setscrew on body between flange and center piece). Place keystock "K" (not provided unless a rectangular key is required) in keyseat between shaft and bore of body. (Note: 1/2 inch bores do not have keyways).
3. Align shafts and drive and lock variable pitch sheave on shaft using setscrews "A". Use between 135 in-lbs and 150 in-lbs of torque. **NOTE: Using higher than recommended installation torque may cause damage to the sheave.**
4. Loosen setscrew "B" (and "C" if available) and adjust sheave flange to desired pitch by opening the appropriate number of turns from the first flat after the full closed position. Each turn changes the pitch line by 0.5 inch. **Front and back side flange setscrews may be 180 degrees apart when over first flat and in final locking position.**
  - 4.1 On D8325 & D8350 model sheaves, visually locate the setscrew "B" over the flat on the body stem. Lock the setscrews "B" AND "C" down using between 135 in-lbs and 150 in-lbs of torque.
  - 4.2 On all other model sheaves, locate Maurey Integral Quick Key over the flat (TIP keep finger on key while adjusting it to feel it seat on flat). Lock down using between 135 in-lbs and 150 in-lbs of torque. **KEY MUST BE LOCKED OVER FLAT FOR PROPER OPERATION.**

Place belt over sheaves (DO NOT PRY BELTS OVER SHEAVES). Adjust drive to proper tension. Lock motor in place. Additional adjustments may be made by loosening the belts and following steps 2 through 5 above.

**NOTE: ALL SETSCREWS MUST BE LOCKED IN PLACE PRIOR TO STARTING THE DRIVE. DAMAGE MAY BE DONE TO SHEAVES AND EQUIPMENT IF SETSCREWS ARE NOT PROPERLY LOCKED IN PLACE. ADDITIONAL DRIVE AND SETSCREW TIGHTENING SHOULD BE PERFORMED AFTER TWENTY-FOUR HOURS OF OPERATION.**

**TIP: IF ONE BELT APPEARS LOOSE, REMOVE TENSION FROM THE DRIVE AND ADJUST LOOSE SIDE FLANGE BY ONE HALF TURN.**

OUTER DIA.	PART NO.	STYLE	BORES
3.25	D8325	M	1/2, 5/8, 3/4, 7/8, 1, 1-1/8
3.75	D8350	M	5/8, 3/4, 7/8, 1, 1-1/8
4.15	D8400	M	5/8, 3/4, 7/8, 1, 1-1/8
4.75	D8450	M	5/8, 3/4, 7/8, 1, 1-1/8
5.35	D8550	M	5/8, 3/4, 7/8, 1, 1-1/8
5.35	D8550	L	1-3/8, 1-5/8
6.00	D8575	L	7/8, 1-1/8, 1-3/8, 1-5/8
6.00	D8600	M	3/4, 7/8, 1, 1-1/8
6.00	D8600	L	1-3/8, 1-5/8
6.75	D8670	M	3/4, 7/8, 1, 1-1/8
6.75	D8670	L	1-3/8, 1-5/8
7.35	D8740	M	3/4, 7/8, 1, 1-1/8
7.35	D8740	L	1-3/8, 1-5/8

# the fast easy way to determine the bore size you need **NEMA Motor Standards**

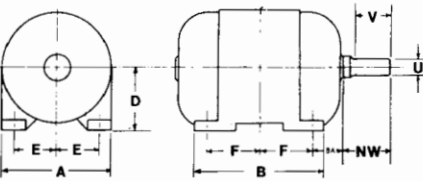
## NEMA Frame and HP Assignments for open type polyphase squirrel-cage 60 cycle motors

MOTOR HP	3500 RPM				1750 RPM				1160 RPM				860 RPM			
	FRAME & SHAFT SIZE				FRAME & SHAFT SIZE				FRAME & SHAFT SIZE				FRAME & SHAFT SIZE			
	OLD	SHAFT	1956 & T	SHAFT	OLD	SHAFT	1956 & T	SHAFT	OLD	SHAFT	1956 & T	SHAFT	OLD	SHAFT	1956 & T	SHAFT
1/2													204	3/4	182	7/8
3/4									203	3/4	182	7/8	224	1	184	7/8
1					203	3/4	182	7/8	204	3/4	184	7/8	225	1	213	1 1/8
1 1/2	203	3/4	182	7/8	204	3/4	184	7/8	224	1	184	7/8	254	1 1/8	213	1 1/8
2	204	3/4	184	7/8	224	1	184	7/8	225	1	213	1 1/8	254	1 1/8	215	1 1/8
3	224	1	184	7/8	225	1	213	1 1/8	254	1 1/8	215	1 1/8	284	1 1/4	254U	1 3/8
5	225	1	213	1 1/8	254	1 1/8	215	1 1/8	284	1 1/4	254U	1 3/8	324	1 5/8	256U	1 3/8
7 1/2	254	1 1/8	215	1 1/8	284	1 1/4	254U	1 3/8	324	1 5/8	256U	1 3/8	326	1 5/8	284U	1 5/8
10	284	1 1/4	254U	1 3/8	324	1 5/8	256U	1 3/8	326	1 5/8	284U	1 5/8	364	1 7/8	286U	1 5/8
15	324	1 5/8	256U	1 3/8	326	1 5/8	284U	1 5/8	364	1 7/8	324U	1 7/8	365	1 7/8	326U	1 7/8
20	326	1 5/8	284U	1 5/8	364	1 7/8	286U	1 5/8	365	1 7/8	326U	1 7/8			364U	2 1/8
25	364S	1 5/8	286U	1 5/8	364	1 7/8	324U	1 7/8			364U	2 1/8			365U	2 1/8
30	364S	1 5/8	324S	1 5/8	365	1 7/8	326U	1 7/8			365U	2 1/8			404U	2 3/8
40	365S	1 5/8	326S	1 5/8			364U	2 1/8			404U	2 3/8			405U	2 3/8
50			364US	1 7/8			365US	1 7/8			405U	2 3/8			444U	2 7/8
60			365US	1 7/8			404US	2 1/8			444U	2 7/8			445U	2 7/8
75			404US	2 1/8			405US	2 1/8			445U	2 7/8			444T	3 3/8
100			405US	2 1/8			444US	2 1/8			444T	3 3/8			445T	3 3/8
125			444US	2 1/8			445US	2 1/8			445T	3 3/8				
150			405US	2 1/8			444TS	2 3/8								
200			444TS	2 3/8			445TS	2 3/8								
250			445TS	2 3/8												

NOTE: Suffix S Denotes short shaft motor for direct coupled service. For belt drives consult motor manufacturer.

### NEMA MOTOR FRAME DIMENSIONS

Standardized motor dimensions as established by the National Electrical Manufacturers Association (NEMA) are tabulated at right and apply to all motors listed in the MotorBook which carry a NEMA frame designation.



All dimensions in inches.

(\*) Dimension D will never be greater than the above values on rigid mount motors, but it may be less so that shims may be required for coupled or geared machines. When exact dimension is required, shims up to 1/32" may be necessary on frame sizes whose dimension D is 8" or less, on larger frames shims up to 1/16" may be necessary.

(+) Certain Nema 56 frame motors have 1/2" dia. x 1 1/2" long shaft with 3/16" flat. These exceptions are noted in this Manual.

Effective length of keyway.  
Also has additional mounting holes in base spaced at NEMA 56 frame "2F" dimensions.

(S) Dimension "V" is the length of shaft available for coupling, pinion or pulley hub — this is a minimum value.

FRAME NO.	SHAFT	KEY				DIMENSIONS INCHES								FRAME NO.	SHAFT	KEY				DIMENSIONS INCHES							
		U	V	W	T	A	B	D	E	F	BA	U	V			W	T	L	A	B	D	E	F	BA			
143T	3/8	2	3/16	3/16	1 1/8	7	6	3 1/2	2 3/4	2	2 1/4	365	1 1/8	5 3/8	1/2	1/2	4 1/4	18	16 1/4	9	7	6 1/4	5 7/8				
145T	3/8	2	3/16	3/16	1 1/8	7	6	3 1/2	2 3/4	2 1/2	2 1/4	365S	1 1/8	3	3/8	3/8	1 7/8	18	16 1/4	9	7	6 1/4	5 7/8				
182	3/8	2	3/16	3/16	1 1/8	9	6 1/2	4 1/2	3 3/4	2 1/4	2 3/4	365U	2 1/8	6 1/8	1/2	1/2	5	18	16 1/4	9	7	6 1/4	5 7/8				
182T	1 1/8	2 1/2	1/4	1/4	1 3/4	9	6 1/2	4 1/2	3 3/4	2 1/4	2 3/4	365US	1 1/8	3 1/2	1/2	1/2	2	18	16 1/4	9	7	6 1/4	5 7/8				
184	1 1/8	2 1/2	1/4	1/4	1 3/4	9	7 1/2	4 1/2	3 3/4	2 3/4	2 3/4	365TS	2 1/8	5 3/8	3/8	3/8	4 1/4	18	16 1/4	9	7	6 1/4	5 7/8				
184T	1 1/8	2 1/2	1/4	1/4	1 3/4	9	7 1/2	4 1/2	3 3/4	2 3/4	2 3/4																
203	3/4	2	3/16	3/16	1 1/8	10	7 1/2	5	4	2 3/4	3 3/8	365TS	1 1/8	3 1/2	1/2	1/2	2	18	16 1/4	9	7	6 1/4	5 7/8				
204	3/4	2	3/16	3/16	1 1/8	10	8 1/2	5	4	3 1/4	3 3/8	404	2 1/8	6 1/8	1/2	1/2	5	20	16 1/4	10	8	6 1/4	6 1/8				
213	1 1/8	2 3/4	1/4	1/4	2	10 1/2	7 1/2	5 1/4	4 1/4	2 3/4	3 1/2	404S	1 1/8	3 1/2	1/2	1/2	2	20	16 1/4	10	8	6 1/4	6 1/8				
213T	1 1/8	3 1/8	3/16	3/16	2 1/8	10 1/2	7 1/2	5 1/4	4 1/4	2 3/4	3 1/2	404U	2 1/8	6 7/8	3/8	3/8	5 1/2	20	16 1/4	10	8	6 1/4	6 1/8				
215	1 1/8	2 3/4	1/4	1/4	2	10 1/2	9	5 1/4	4 1/4	3 1/2	3 1/2	404US	2 1/8	4	1/2	1/2	2 3/4	20	16 1/4	10	8	6 1/4	6 1/8				
215T	1 1/8	3 1/8	3/16	3/16	2 1/8	10 1/2	9	5 1/4	4 1/4	3 1/2	3 1/2																
224	1	2 3/4	1/4	1/4	2	11	8 3/4	5 1/2	4 1/2	3 3/4	3 1/2	404T	2 1/8	7	3/4	3/4	5 3/8	20	16 1/4	10	8	6 1/4	6 1/8				
225	1	2 3/4	1/4	1/4	2	11	9 1/8	5 1/2	4 1/2	3 3/4	3 1/2	404TS	2 1/8	4	1/2	1/2	2 3/4	20	16 1/4	10	8	6 1/4	6 1/8				
254	1 1/8	3 1/8	1/4	1/4	2 1/8	12 1/2	10 3/4	6 1/4	5	4 1/4	4 1/4	405	2 1/8	6 1/8	1/2	1/2	5	20	17 3/4	10	8	6 1/4	6 1/8				
254U	1 1/8	3 1/8	3/16	3/16	2 1/8	12 1/2	10 3/4	6 1/4	5	4 1/4	4 1/4	405S	1 1/8	3 1/2	1/2	1/2	2	20	17 3/4	10	8	6 1/4	6 1/8				
254T	1 1/8	3 3/4	3/8	3/8	2 7/8	12 1/2	10 3/4	6 1/4	5	4 1/4	4 1/4	405U	2 1/8	6 7/8	3/8	3/8	5 1/2	20	17 3/4	10	8	6 1/4	6 1/8				
256U	1 1/8	3 1/2	3/8	3/8	2 3/4	12 1/2	12 1/2	6 1/4	5	5	4 1/4	405US	2 1/8	4	1/2	1/2	2 3/4	20	17 3/4	10	8	6 1/4	6 1/8				
256T	1 1/8	3 3/4	3/8	3/8	2 7/8	12 1/2	12 1/2	6 1/4	5	5	4 1/4	405T	2 1/8	7	3/4	3/4	5 3/8	20	17 3/4	10	8	6 1/4	6 1/8				
256T	1 1/8	3 3/4	3/8	3/8	2 7/8	12 1/2	12 1/2	6 1/4	5	5	4 1/4																
284	1 1/4	3 1/2	1/4	1/4	2 3/4	14	12 1/2	7	5 1/2	4 3/4	4 3/4	405TS	2 1/8	4	1/2	1/2	2 3/4	20	17 3/4	10	8	6 1/4	6 1/8				
284U	1 1/4	4 1/8	3/8	3/8	3 3/4	14	12 1/2	7	6 1/4	5 1/4	5 1/4	444	2 1/8	6 7/8	3/8	3/8	5 1/2	22	18 1/2	11	9	7 1/4	7 1/2				
284T	1 1/4	4 3/8	1/2	1/2	3 1/4	14	12 1/2	7	5 1/2	4 3/4	4 3/4	444S	2 1/8	4	1/2	1/2	2 3/4	22	18 1/2	11	9	7 1/4	7 1/2				
284TS	1 1/4	3	3/8	3/8	3 1/4	14	12 1/2	7	5 1/2	4 3/4	4 3/4	444U	2 1/8	8 3/4	3/4	3/4	7	22	18 1/2	11	9	7 1/4	7 1/2				
286U	1 1/4	4 3/8	3/8	3/8	3 3/4	14	14	7	5 1/2	5 1/2	4 3/4	444US	2 1/8	4	1/2	1/2	2 3/4	22	18 1/2	11	9	7 1/4	7 1/2				
286T	1 1/4	4 3/8	1/2	1/2	3 1/4	14	14	7	5 1/2	5 1/2	4 3/4	444T	2 1/8	3 3/8	1/4	1/4	3 3/8	22	18 1/2	11	9	7 1/4	7 1/2				
286TS	1 1/4	3	3/8	3/8	1 7/8	14	14	7	5 1/2	5 1/2	4 3/4	444TS	2 1/8	4 1/2	3/8	3/8	3	22	18 1/2	11	9	7 1/4	7 1/2				
324	1 5/8	4 3/8	3/8	3/8	3 3/4	16	14	8	6 1/4	5 1/4	5 1/4	445	2 3/8	6 7/8	3/8	3/8	5 1/2	22	20 1/2	11	9	8 1/4	7 1/2				
324U	1 1/8	5 3/8	1/2	1/2	4 1/4	16	14	8	6 1/4	5 1/4	5 1/4	445S	2 1/8	4	1/2	1/2	2 3/4	22	20 1/2	11	9	8 1/4	7 1/2				
324S	2 1/8	3	3/8	3/8	1 7/8	16	14	8	6 1/4	5 1/4	5 1/4	445U	2 1/8	8 3/4	3/4	3/4	7	22	20 1/2	11	9	8 1/4	7 1/2				
324T	2 1/8	5 1/2	1/2	1/2	3 7/8	16	14	8	6 1/4	5 1/4	5 1/4	445US	2 1/8	4	1/2	1/2	2 3/4	22	20 1/2	11	9	8 1/4	7 1/2				
324TS	1 1/8	3 1/2	1/2	1/2	2	16	14	8	6 1/4	5 1/4	5 1/4	445T	3 3/8	8 1/4	7/8	7/8	6 7/8	22	20 1/2	11	9	8 1/4	7 1/2				
326	1 1/8	4 3/8	3/8	3/8	3 3/4	16	15 1/2	8	6 1/4	6	5 1/4	445TS	2 3/8	4 1/2	3/8	3/8	3	22	20 1/2	11	9	8 1/4	7 1/2				
326U	1 1/8	5 3/8	1/2	1/2	4 1/4	16	15 1/2	8	6 1/4	6	5 1/4	504U	2 1/8	8 3/8	3/4	3/4	7 1/4	25	21	12 1/2	10	8	8 1/2				
326S	2 1/8	3	3/8	3/8	1 7/8	16	15 1/2	8	6 1/4	6	5 1/4	504S	2 1/8	4	1/2	1/2	2 3/4	25	21	12 1/2	10	8	8 1/2				
326T	1 1/8	5 1/2	1/2	1/2	3 7/8	16	15 1/2	8	6 1/4	6	5 1/4	505	2 1/8	8 3/4	3/4	3/4	7 1/4	25	23	12 1/2	10	8	8 1/2				
326TS	1 1/8	3 1/2	1/2	1/2	2	16	15 1/2	8	6 1/4	6	5 1/4	505S	2 1/8	4	1/2	1/2	2 3/4	25	23	12 1/2	10	9	8 1/2				
364	1 1/8	5 3/8	1/2	1/2	4 1/4	18	15 1/4	9	7	5 5/8	5 7/8	445TS	2 3/8	4 1/2	3/8	3/8	3	22	20 1/2	11	9	8 1/4	7 1/2				
364S	1 1/8	3	3/8	3/8	1 7/8	18	15 1/4	9	7	5 5/8	5 7/8	504U</															