

- Unvented gearhousing for universal horizontal mounting
- Hardened helical output gearing
- Bronze worm gear for high shock load capability
- Hardened and ground worm hobbled on the motor shaft for high strength and long life
- Models with accessory shafts are ideal for mounting encoders or brakes
- See Page 36 for capacitors and terminal boxes
- See pages 43 and 44 for reference dimensions

Variable Speed—Pacesetter Inverter Duty AC Gearmotors

Fixed Speed Rating						Variable Speed (SOA) Ratings ¹						Product Type	230V Model No.	230/460V Model No.
Speed (rpm)	Torque (lb-in.)	HP	(230V) A	(230/460V) A	Gear Ratio	Speed Range (rpm)	Frequency Range (Hz)	Torque Type	Torque @ 10 Hz (lb-in.)	Torque @ 60 Hz (lb-in.)	Torque @ 90 Hz (lb-in.)			
Three-Phase, Inverter Duty, Non-synchronous (TEFC)														
6	380				280	0.6-8.2			380	380	380	42R6BFPP-GB	2236	—
14	290	3/8	1.9	—	120	1.5-19	10-90	constant	290	290	290		2237	—
28	230				60	3.0-38			230	230	230		2238	—
Hollow Shaft														
6	380				280	0.6-8.2			380	380	380	42R6BFPP-GB/H	2336	2636
14	290	3/8	1.9	1.90/0.95	120	1.5-19	10-90	constant	290	290	290		2337	2637
28	230				60	3.0-38			230	230	230		2338	2639



Type 42R-GB and 42R-GB/H Hollow Shaft (Inverter Duty)

Fixed Speed—AC Gearmotors

Speed (rpm)	Rated Torque (lb-in.)	Motor HP	V	Hz	Ph	Amps	Gear Ratio	Radial Load (lbs.)	Capacitor (µF/VAC)	Product Type	Model Number
Permanent Split Capacitor, Non-synchronous											CAPACITOR IS REQUIRED
5.9	380						280				5266
8.9	375						190				5264
14	290	1/6	115	60	1	2.0	120	200	25.0/370	42R5BFCI-GB	5262
21	278						80				5261
28	209						60				5260
Three-phase, Non-synchronous											
5.9	380						280				5276
8.9	375						190				5274
14	290	1/4	230/460	60	3	1.2/0.6	120	200	—	42R5BFPP-GB	5272
21	307						80				5271
28	230						60				5270
Permanent Split Capacitor, Non-synchronous Hollow Shaft											CAPACITOR IS REQUIRED
5.9	380						280				8266
8.9	375	1/6	115	60	1	2.0	190	200	25.0/370	42R5BFCI-GB/H	8264
14	290						120				8262



Type 42R-GB and 42R-GB/H Hollow Shaft

Permanent Magnet DC Gearmotors

Speed (rpm)	Rated Torque (lb-in.)	Rated Current (Amps)		Peak Torque (lb-in.)	Motor HP	FF	Gear Ratio	Radial Load (lbs.)	Product Type ²	Accy Shaft		No Accy Shaft	
		24V	90/130V							24V	90/130V		
33A-GB 90/130V Models With Class F Temperature Rating													
6.2 / 8.9	380 / 380			600			280		33A5BEPM-GB				6066
9.1 / 13	358 / 375			600	1/8 / 1/4	1.4 / 1.0	190	200					6064
14 / 21	251 / 290			464			120						6062
29 / 42	151 / 200			368			60						6060
90/130V Hollow Shaft													
6.2 / 8.9	380 / 380			600			280		33A5BEPM-GB/H				7066
9.1 / 13	358 / 375			600	1/8 / 1/4	1.4 / 1.0	190	200					7064
14 / 21	251 / 290			464			120						7062
29 / 42	151 / 200			368			60						7060
42A-GB 130 V Models With Class B Temperature Rating										24V		130V Only	
8.9	380			600			280		42A5BEPM-GB	4866	4766	4466	4066
13	375			600	1/4	1.0	190	200		4864	4764	4464	4064
21	290	8.8	1.8	464			120			4862	4762	4462	4062
42	213			368			60			4860	4760	4460	4060



Type 33A-GB



Type 33A-GB/H Hollow Shaft

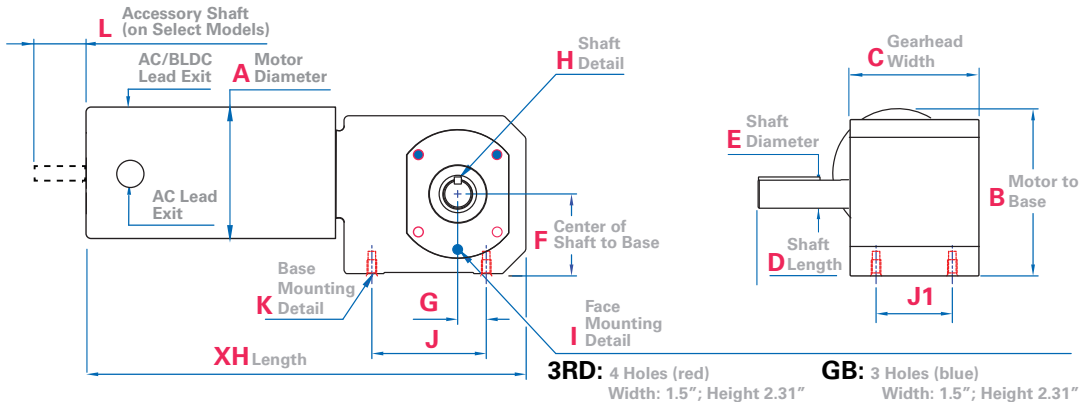


Type 42A-GB

¹ SOA: Contact the factory for detailed speed/torque information (Safe Operating Area). See page 21; ² The fifth character of the product type changes from "B" to "F" for accessory ready models

Save Time, Space and Money with Hollow Shaft Gearmotors

Hollow shaft gearmotors connect directly to the driven load, reducing the overall space required by the gearmotor and eliminating expensive shaft couplings, mounting hardware, chains and sprockets. Hollow shaft flange mounting can also eliminate the need for a support bearing on one side of a conveyor roller.

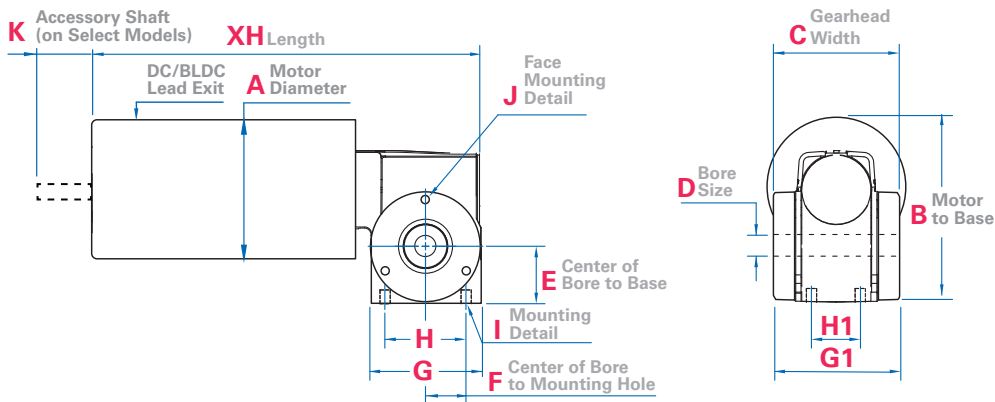


Gearhead Type 3RD, GB, pages 18-19

	Product Type	Wt. (lbs.)	XH Length	A Dia-meter	B Motor to Base	C Gear-head Width	D Shaft Length	E Shaft Diameter	F Shaft to Base	G Shaft to Mounting Hole Center	H Shaft Detail	I Face Mounting Detail	J Mounting Hole Length	J1 Mounting Hole Width	K Base Mounting Detail	L Acc'y Shaft	Cord/Lead Length (in.)
Type 3RD Gearmotor																	
30R-3RD	30R2	9.0	8.140	3.36	4.812	3.60	1.50	.500	1.562	.625	Flat	[4]10-32 UNF-2B x .31 Deep Min.	2.000	2.50	[4]1/4 -20 UNF-2B .31 deep	No	12
	30R4	10.5	8.640														24
24A-3RD	24A2	9.0	8.07	2.42	4.147	3.60	1.50	.500	1.562	.625	Flat	[4]10-32 UNF-2B x .31 Deep Min.	2.000	2.50	[4]1/4 -20 UNF-2B .31 deep	No	24
	24A4	10.5	8.82														12 or 24
22B-3RD	22B2	6.5	8.085	2.378	4.377	3.60	1.50	.500	1.562	.625	Flat	[4]10-32 UNF-2B x .31 Deep Min.	2.000	2.50	[4]1/4 -20 UNF-2B .31 deep	No	12 or 24
	22B4	6.5	9.045														12 or 24
Type GB Gearmotor																	
42R-GB	42R5	17.5	11.458	4.73	5.06	3.335	2.38	.750	2.150	.75	Key	[3]5/16 -18 UNF-2B x .50 Deep Max. on 2.913 B.C.	3.00	2.00	[4]1/4 -20 UNF-2B .40 Deep Min.	No	12
	42R6	19.5	11.893				2.38	.750									[4]1/4 -20 UNF-2B .40 Deep Min.
33A-GB	33A5	13.6	11.067	3.39	4.38	3.335	2.38	.750	2.150	.75	Key	[3]5/16 -18 UNF-2B x .50 Deep Max. on 2.913 B.C.	3.00	2.00	[4]1/4 -20 UNF-2B .40 Deep Min.	Yes	12
	33A7	14.9	12.268				2.362	.748									[4] M6 X 1-6H .45 Deep Max.
42A-GB	42A5	18.0	11.554	4.26	4.82	3.335	2.38	.750	2.150	.75	Key	[3]5/16 -18 UNF-2B x .50 Deep Max. on 2.913 B.C.	3.00	2.00	[4]1/4 -20 UNF-2B .45 Deep Min.	Yes	24

Hollow Shaft Gearmotor Dimensions

Dimensions (in inches) are for reference only. For CAD drawings and specs, visit bodine-electric.com.

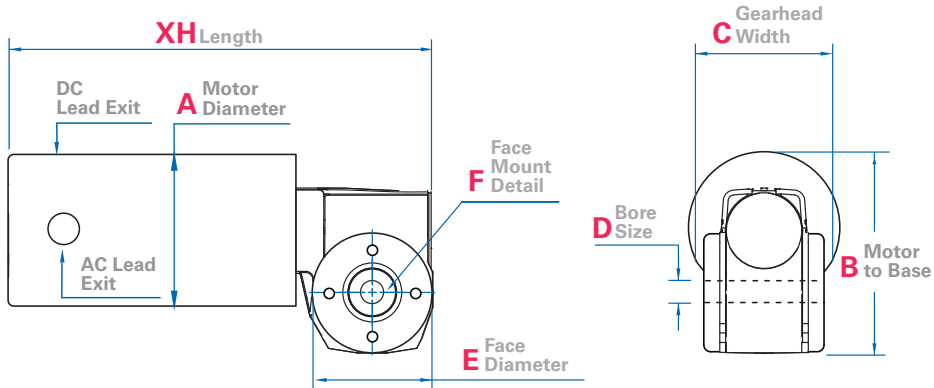


Gearhead Type 3F/H, pages 13-14 (Mounts from Gearhead)

	Weight (lbs.)	XH Length	A Dia-meter	B Motor to Base	C Gearhead Width	D Bore Size	E Bore to Base	F Bore to Mtg. Hole	G Base Length	G1 Base Width	H Mounting Hole Length	H1 Mounting Hole Width	I Mounting Detail	J Face Mount Detail	K Acc'y Shaft	Cord/Lead Length (in.)
24A4-3F/H	5.3	7.422	2.42	3.57	3.085	.502	1.280	1.000	2.56	3.085	2.00	1.188	[4] 1/4 -20 UNF-2B .35 Min. Deep on 2.125 B.C.	Yes	24	
22B4-3F/H	5.4	7.677	2.378	3.80											No	12 or 24
22B4-3F/H INTEGRA	5.4	8.79	2.93	3.823											No	None

Only the first four characters of the product type are relevant to dimensions

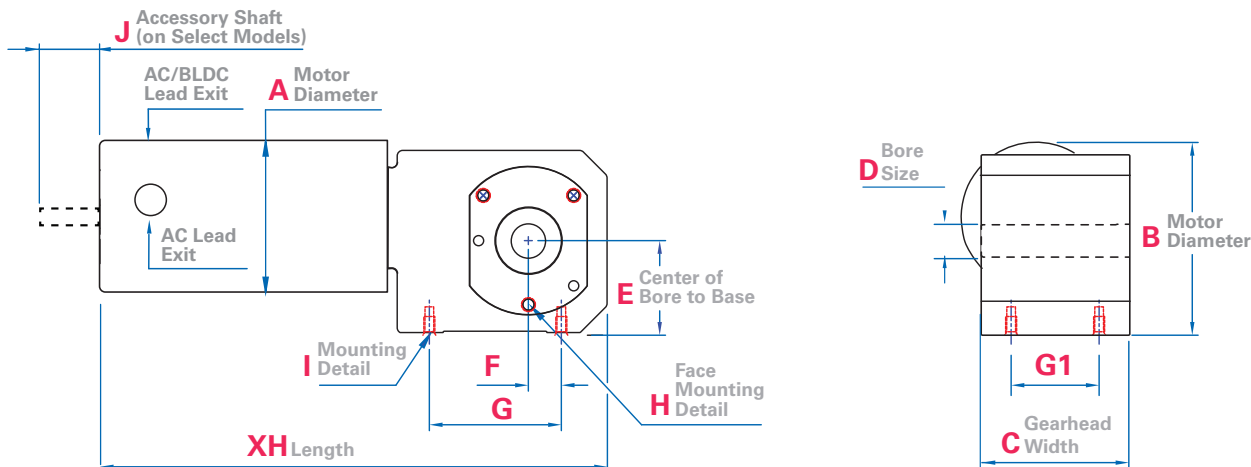
5L/H Hollow Shaft Gearmotor Dimensions



Gearhead Type 5L/H, pages 15-16 (Face Mount)

	Product Type	Weight (lbs.)	XH Length	A Diameter	B Motor to Base	C Gearhead Width	D Bore Size	E Face Diameter	F Face Mount Detail	Lead/Cord Length (in.)
33A-5L/H	33A5		9.711	3.39	5.04	2.740	.627	3.50	[4] 1/4-20 UNF-2B x .44 Min. Deep on 2.375 B.C.	24
42R-5L/H	42R6		10.540	4.73	5.71					None

GB/H Right Angle Gearmotor Dimensions



Type GB/H, page 19 (Face Mount)

	Product Type	Wt. (lbs.)	XH Length	A Dia-meter	B Motor to Base	C Gearhead Width	D Bore Size	E Bore to Base	F Center of Shaft to Mounting Hole	G Mounting Hole Length	G1 Mounting Hole Width	H Face Mounting Detail	I Mounting Detail	J Acc'y Shaft	Lead/Cord Length (in.)
42R-GB/H	42R5	17.5	11.456	4.73	5.06	3.335	.752	2.150	.75	3.00	2.00	[3] 5/16-18 UNF-2B x .44 Max. Deep on 2.913 B.C.	[4] 1/4-20 UNF-2B x .40 Min. Deep	No	12
	42R6	19.5	11.893											24	
33A-GB/H	33A5	13.6	11.067	3.39	4.38									No	24
42A-GB/H	42A5	19.5	11.554	4.26	4.82									Yes	24

Only the first four characters of the product type are relevant to dimensions