Selecting a Gearmotor

A gearmotor is an electro/mechanical device using an electric motor to drive a geartrain encased in a housing. The geartrain reduces output speed while increasing available torque. Gearmotors move an object in a given direction at a rate of speed (RPM), and provide the required twisting force (torque). Select your model once load input performance requirements are identified. You must know the speed and torque requirements of the load to be driven. Unusual loads or harsh environments need to be considered before selecting a driving device. Horsepower (HP) is not a factor in selecting a standard gearmotor, since each model is designed for a specific performance level.

Parallel-Shaft have helical and spur gears. First stage gears are phenolic, nylon, or steel and typically helical for low noise. Subsequent gears are usually metallic (sintered or hardened cut steel) depending on the performance level of the gearmotor. Parallel-shaft models offer high efficiency in compact sizes.

Right-Angle include mainly worm-type gears of precision-machined steel. Worm wheel is often bronze, but may be phenolic or cast iron. These gearmotors can be heavier construction, handle higher shock loads, and run quieter than comparably-sized parallel-shaft designs, but often less efficiently.

Parallel-Shaft 4ZJ45

Mechanical Considerations

Speed. How fast should equipment or an object move? Output speeds are available from less than 1/2 rpm (revolution per minute) to nearly 350 rpm, depending on motor type and gear ratio. Based on your application, you may need to consider whether additional modified speeds will be produced through sheaves or sprocket type drive systems before determining gearmotor output speed.

Starting Torque provides initial power to get things moving. On large conveyors, starting torque requirement may be high while a small rotating display cabinet may require very little torque to overcome resistance. Small gearmotors typically have "start" and "run" torque specifications shown due to their lower overall output capabilities. Starting torque ratings can be lower than maximum running torque ratings. Heavier duty gearmotors are usually only rated for their full-load (running) torque capability since starting torque is relatively high.

Running Torque (Full Load) is the continuous twisting force to keep things moving after initial start and must maintain power under all variable load situations to provide adequate service. Running torque listed in the catalog is the maximum torque available for safe, continuous operation. Frequent starts and stops will require use of starting torque more frequently. This could result in excessive heat build-up, causing premature motor failure.

From	Into	Multiply By
in.-lb.	ft.-lb.	0.0833
ft.-lb.	in.-lb.	12
in.-oz.	in.-lb.	0.0625
in.-lb.	in.-oz.	16

How To Measure Torque

Caution: Disconnect Power Before Proceeding

Torque required to drive a machine may be measured by using a flat grooved pulley, a cord and a spring scale rated in lbs. Pulley must be rigidly attached to machine's drive shaft, with cord wrapped several times around pulley. Do not allow cord to overlap. The other end is tied to the scale. When the scale is pulled, it will turn the pulley. When the pulley first starts to turn, the scale will register starting force required in pounds.

Force registered on scale, in pounds, when multiplied by radius of pulley (radius is measured from the center of machine shaft to center of cord), in inches, yields the starting torque, in in.-lbs. required by machine.

If torque characteristics of the machine (load) vary during its operating cycle, torque must be determined at the point in the cycle where it is the greatest.

If pulley can be turned (by pulling on cord) at a rate equal to normal speed of driven equipment, an indication of running torque can be obtained. If load of machine is almost entirely due to friction, running requirement will be essentially the same regardless of speed. However, if load is primarily the result of inertia or windage (air drag), characteristics of the inertia or windage elements must be known.

Electrical Considerations

Before you can select the best gearmotor for your application, you need to identify your intended power supply. AC and DC input gearmotors from 12VDC to 460VAC are available. This chart provides typical characteristics of different motor types as a guide for your selection.

Type	Starting Torque	Reversible	Speed Controllable	Features
Shaded Pole	Low	No	No	Rugged, Relative Low Cost
PSC	Medium	Yes	No	Reversible, Quiet Operation
Split-Phase	Med/High	Yes	No	Fairly High Start Torque
Capacitor-Start	High	Yes	No	Heavy-Duty Start-Ups, Dual Voltage
3-Phase	High	Yes	No*	Simple, Reliable, High Start Power and Efficiency
DC	High	Yes	Yes†	Speed Controllable, High Start Torque
Universal AC/DC	High	Yes	Yes†	Speed Controllable, Relatively Low Cost, Simple Operation

**** Inverter-Duty motors can be controlled with an inverter. † Performance matched speed controls are available for many catalog gearmotor listings.***

Loads

Driven items connected to and driven by the gearmotor output shaft constitute the load. Not all loads coupled to gearmotors have steady speed and torque requirements. Some loads demand power surges from the gearmotor during running cycle. This can be abusive to gears. Also, environmental conditions and space restrictions need to be taken into account. Two types of loads that require careful consideration before selecting a gearmotor are Overhung (Radial) Load and Shock Load.

Overhung (Radial) Load (OHL) is the perpendicular force pushing against the side of an output shaft. This force is either from a weight hanging on the output shaft or from a sprocket, pulley or gear being used on the shaft. Every gearmotor has an OHL specification which should not be exceeded.

If you plan to use a sprocket, pulley, gear or any weight suspended directly on the shaft, calculate OHL to aid selection of the gearmotor. First, use the formula below to determine the pounds of load. Second, multiply pounds of load by the appropriate drive factor at right to determine actual OHL ratings in pounds on center of output shaft.

$$\frac{\text{Full-Load Torque (Requirement of Gearmotor)} \times 2}{\text{Pitch Dia. of Sprocket, Pulley or Gear}} = \text{Lbs. of Load}$$

Shock Load. Some applications subject gearmotors to loads that transmit shock or abrupt peak loads back to the gearmotor. Shock load can create peak loads several times greater than gearmotor torque rating. For example, when a heavy object accidentally is dropped on a running conveyor, this causes shock to gears and may even break them. Be sure the gearmotor is rated high enough to handle maximum anticipated shock load conditions.

115VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: heat-treated cut steel and acetal
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: impedance

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1.1 RPM	50 in-lb	41 lb	1/670 hp	3231:1	0.38	4 in	**1MBF3**
2.2 RPM	32 in-lb	41 lb	1/476 hp	1526:1	0.38	4 in	**1MBF4**
6.6 RPM	25 in-lb	41 lb	1/229 hp	504:1	0.38	4 in	**1MBF5**
11.5 RPM	26 in-lb	41 lb	1/138 hp	294:1	0.57	3 7/8 in	**1MBF6**
20 RPM	15 in-lb	41 lb	1/139 hp	168:1	0.57	3 7/8 in	**1MBF7**
30.6 RPM	12 in-lb	41 lb	1/112 hp	107:1	0.57	3 7/8 in	**1MBF8**
66 RPM	4.7 in-lb	41 lb	1/148 hp	51:1	0.57	3 7/8 in	**1MBF9**
130 RPM	2.7 in-lb	41 lb	1/145 hp	26:1	0.57	3 7/8 in	**1MBG1**
197 RPM	2.2 in-lb	41 lb	1/195 hp	16:1	0.38	3 1/2 in	**1MBG2**

115VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: gasketed die-cast zinc with screws
- Lubrication: grease filled
- Gears: hardened steel and phenolic
- Bearings: roller on case; ball and porous bronze sleeve on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Insulation: Class B

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1.1 RPM	100 in-lb	54 lb	1/316 hp	3231:1	0.62	4 3/4 in	**1MBG3**
6.7 RPM	50 in-lb	41 lb	1/111 hp	504:1	0.62	4 3/4 in	**1MBG4**
13 RPM	50 in-lb	18 lb	1/64 hp	252:1	1.2	4 5/8 in	**1MBG5**
214 RPM	5 in-lb	2 lb	1/43 hp	16:1	1.4	4 7/8 in	**1MBG6**
368 RPM	3.3 in-lb	1 lb	1/42 hp	9:1	1.4	4 7/8 in	**1MBG7**

115VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Ambient: 40°C

Nameplate RPM	Starting Torque	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Gearmotor Mounting Position	Item No.
Magnetic Brake									
25 RPM	11 in-lb	13 in-lb	30 lb	1/70 hp	125.5:1	0.75	4 1/8 in	All Angle	**52JD92**
50 RPM	4.5 in-lb	6 in-lb	30 lb	1/70 hp	69.2:1	0.75	4 1/8 in		**52JD93**
Cone Brake									
25 RPM	11 in-lb	13 in-lb	30 lb	1/70 hp	125.5:1	0.75	4 1/8 in	Horizontal	**52JD91**
50 RPM	4.5 in-lb	6 in-lb	30 lb	1/70 hp	69.2:1	0.75	4 1/8 in		**52JD94**

115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Brake	Full Load Amps	Length Less Shaft	Item No.
115V AC, 60 Hz								
7 RPM	30 in-lb	30 lb	1/100 hp	439.3:1	Magnetic	0.52	3 1/4 in	**52JE19**
7 RPM	30 in-lb	30 lb	1/100 hp	439.3:1	Cone	0.52	3 1/2 in	**52JE20**
230V AC, 50 Hz (3 leads)								
5.8 RPM	30 in-lb	30 lb	1/100 hp	439.3:1	Magnetic	0.26	3 1/4 in	**52JE18**

A.

B.

115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on both case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115V AC, 60 Hz								
A	1.1 RPM	50 in-lb	30 lb	1/250 hp	2847:1	0.38	2 3/8 in	**52JE26**
A	6.9 RPM	35 in-lb	30 lb	1/100 hp	439.3:1	0.52	2 3/8 in	**52JE27**
B	18 RPM	13 in-lb	30 lb	1/100 hp	172:1	0.50	2 3/4 in	**52JE29**
B	25 RPM	9.3 in-lb	30 lb	1/100 hp	114.3:1	0.50	2 3/8 in	**52JE30**
B	35 RPM	8.3 in-lb	30 lb	1/100 hp	86.8:1	0.50	2 3/8 in	**52JE31**
B	50 RPM	4.2 in-lb	30 lb	1/100 hp	69.15:1	0.50	2 3/8 in	**52JE28**
230V AC, 50 Hz								
A	0.9 RPM	50 in-lb	30 lb	1/250 hp	2847:1	0.25	2 5/8 in	**52JE21**
A	5.8 RPM	35 in-lb	30 lb	1/100 hp	439.3:1	0.26	2 3/4 in	**52JE22**
B	16 RPM	13 in-lb	30 lb	1/100 hp	167.4:1	0.25	2 3/8 in	**52JE24**
B	21 RPM	9.3 in-lb	30 lb	1/100 hp	114.3:1	0.25	2 3/8 in	**52JE25**
B	41 RPM	4.2 in-lb	30 lb	1/100 hp	69.15:1	0.26	2 3/8 in	**52JE23**

A.

B.

115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Ambient: 40°C

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115V AC, 60 Hz								
A	6 RPM	72 in-lb	30 lb	1/60 hp	529.2:1	1.0	4 5/8 in	**52JE02** *
A	6.3 RPM	120 in-lb	30 lb	1/60 hp	529.2:1	1.5	4 1/4 in	**52JD98**
A	25 RPM	22 in-lb	30 lb	1/60 hp	145:1	1.3	4 5/8 in	**52JD99**
A	22 RPM	21 in-lb	30 lb	1/60 hp	145:1	1.3	4 5/8 in	**52JE03** *
A	50 RPM	12 in-lb	30 lb	1/60 hp	63.4:1	1.3	4 1/4 in	**52JE01**
A	50 RPM	12 in-lb	30 lb	1/60 hp	63.4:1	1.3	4 5/8 in	**52JE04** *
B	10 RPM	65 in-lb	30 lb	1/60 hp	294:1	1.9	4 25/32 in	**52JD97**
230V AC, 50 Hz (3 leads)								
A	5 RPM	120 in-lb	30 lb	1/60 hp	529.2:1	0.75	4 1/4 in	**52JD95**
230V AC, 60/50 Hz (3 leads)								
A	5 RPM	72 in-lb	30 lb	1/60 hp	529.2:1	0.55	4 5/8 in	**52JD96** *†

** Includes magnetic clapper brake. † Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.*

52JE05

Commonly used in pellet and corn stoves and other appliances requiring higher torque

115VAC Shaded Pole Parallel-Shaft Gearmotors

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: Delrin and sintered steel
- Bearings: needle on case; porous bronze sleeve on motor
- Mounting: all-position
- 60/50 Hz
- Ambient: 40°C

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Thermal Protection	CW ROTATION Item No.	CCW ROTATION Item No.
1 RPM	150 in-lb	30 lb	1/200 hp	2851.8:1	0.45	3 3/8 in	Impedance	**52JE10**	**52JE05**
2 RPM	135 in-lb	30 lb	1/30 hp	1428.7:1	0.45	3 3/8 in	Impedance	**52JE09**	**52JE06**
4 RPM	70 in-lb	30 lb	1/60 hp	823.4:1	0.45	3 3/8 in	Impedance	**52JE11**	—
4 RPM	75 in-lb	30 lb	1/60 hp	823.4:1	0.45	3 3/8 in	Impedance	—	**52JE07**
6 RPM	100 in-lb	30 lb	1/50 hp	525:1	1.30	3 5/8 in	Auto	**52JE12**	**52JE08**
10 RPM	100 in-lb	30 lb	1/50 hp	333.6:1	1.30	3 3/8 in	Auto	**52JE13**	—
25 RPM	45 in-lb	30 lb	1/50 hp	145:1	1.30	3 3/8 in	Auto	**52JE14**	—
50 RPM	25 in-lb	30 lb	1/50 hp	63.4:1	1.30	3 3/8 in	Auto	**52JE15**	—

52JE16

115 and 230VAC Shaded Pole Parallel-Shaft Gearmotors

- Enclosure: open
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position
- Rotation: clockwise facing output shaft
- Thermal protection: impedance
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
115V AC, 60 Hz							
4.6 RPM	18 in-lb	30 lb	1/250 hp	709.17:1	0.32	2 7/8 in	**52JE17**
230V AC, 50 Hz (3 leads)							
4.1 RPM	18 in-lb	30 lb	1/250 hp	709.17:1	0.32	2 7/8 in	**52JE16**

1LNF7

115VAC Shaded Pole Parallel-Shaft Gearmotors

- Enclosure: open
- Gearcase: die-cast zinc with screws and gasketed cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: needle on cover; ball bearing and bronze on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: auto
- Insulation: Class A

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
1 RPM	100 in-lb	56 lb	1/80 hp	2976:1	0.5	4 1/4 in	**1LNG2**
4 RPM	130 in-lb	56 lb	1/80 hp	762:1	0.7	4 1/4 in	**1LNF7**
6 RPM	150 in-lb	65 lb	1/50 hp	529:1	1.3	4 5/8 in	**1LNF8**
26 RPM	45 in-lb	15 lb	1/50 hp	126:1	1	4 5/8 in	**1LNF9**
52 RPM	25 in-lb	10 lb	1/50 hp	63:1	1.3	4 5/8 in	**1LNG1**

A. and B.

C.

D.

115VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

- Enclosure: open
- Gearcase: die-cast zinc with steel cover
- Lubrication: grease filled
- Gears: sintered steel
- Bearings: porous bronze sleeve on case and motor
- Mounting: all-position (**A.** and **D.** only); output shaft horizontal (**B.** and **C.** only)
- 60/50 Hz
- Rotation: reversible
- Thermal protection: auto
- Capacitor: 2MDV3 required (sold separately on Grainger.com)
- Brake: friction (**B.** and **C.** only)
- Ambient: 40°C

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
A	4 RPM	30 in-lb	30 lb	1/100 hp	643.5:1	0.35	3 1/2 in	**52JE32** *
	20 RPM	13 in-lb	30 lb	1/100 hp	123:1	0.35	3 1/2 in	**52JE36**
	30 RPM	7.5 in-lb	30 lb	1/100 hp	99.8:1	0.35	3 1/2 in	**52JE33**
	60 RPM	4 in-lb	30 lb	1/100 hp	49.9:1	0.35	3 1/2 in	**52JE34**
	100 RPM	2 in-lb	30 lb	1/100 hp	30.6:1	0.35	3 1/2 in	**52JE35**
B	1 RPM	42 in-lb	30 lb	1/100 hp	2541:1	0.35	3 7/8 in	**52JE38**
	4 RPM	26 in-lb	30 lb	1/100 hp	654.2:1	0.35	3 7/8 in	**52JE39**
	7 RPM	18 in-lb	30 lb	1/100 hp	360:1	0.35	3 7/8 in	**52JE40**
C	12 RPM	11 in-lb	30 lb	1/100 hp	256:1	0.35	3 7/8 in	**52JE41**
	18 RPM	8 in-lb	30 lb	1/100 hp	174.7:1	0.35	3 7/8 in	**52JE42**
	25 RPM	6 in-lb	30 lb	1/100 hp	124:1	0.35	3 7/8 in	**52JE43**
	55 RPM	2.6 in-lb	30 lb	1/100 hp	57:1	0.35	3 7/8 in	**52JE44**
	98 RPM	1.5 in-lb	30 lb	1/100 hp	30.6:1	0.35	3 7/8 in	**52JE45**
D	10 RPM	30 in-lb	30 lb	1/100 hp	281:1	0.35	4 in	**52JE37**

** Shaft dia.: 0.313".*

115VAC Shaded Pole Parallel-Shaft Gearmotors

Dayton

- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: acetal and steel
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft
- Thermal protection: none
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Open, Fan-Cooled, No Brake							
7 RPM	113 in-lb	150 lb	1/10 hp	250:1	2.6	7 7/8 in	**1LPN5**
13 RPM	113 in-lb	150 lb	1/10 hp	128:1	2.6	7 7/8 in	**1LPN2**
30 RPM	113 in-lb	150 lb	1/10 hp	52:1	2.6	7 7/8 in	**1LPL8**
60 RPM	59 in-lb	150 lb	1/10 hp	27:1	2.6	7 7/8 in	**1LPL6**
Open, Fan-Cooled, Power Off Disc Brake							
2 RPM	113 in-lb	150 lb	1/10 hp	750:1	2.6	8 7/8 in	**1LPN7**
7 RPM	113 in-lb	150 lb	1/10 hp	250:1	2.6	8 7/8 in	**1LPN4**
13 RPM	113 in-lb	150 lb	1/10 hp	128:1	2.6	8 7/8 in	**1LPN1**
30 RPM	113 in-lb	150 lb	1/10 hp	52:1	2.6	8 7/8 in	**1LPL7**
60 RPM	59 in-lb	150 lb	1/10 hp	27:1	2.6	8 7/8 in	**1LPL2**
TEFC, No Brake							
2 RPM	113 in-lb	150 lb	1/20 hp	750:1	1.6	7 1/2 in	**1LPN8**
7 RPM	113 in-lb	150 lb	1/20 hp	250:1	1.6	7 1/2 in	**1LPN6**
13 RPM	113 in-lb	150 lb	1/20 hp	128:1	1.6	7 1/2 in	**1LPN3**
30 RPM	42 in-lb	150 lb	1/20 hp	52:1	1.6	7 1/2 in	**1LPL9**

1LPL2

115/230 and 115VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel
- Bearings: needle throughout; ball on motor
- Mounting: all-position, optional mounting bracket 2A754 (sold separately on Grainger.com)
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to 5X400 (sold separately on Grainger.com) using 1 disc in brake

Note: Ratings shown are at 60 Hz. Gearmotors 2H604 and 2H602 are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
TENV, 115/230V AC, 60/50 Hz							
4.6 RPM	160 in-lb	115 lb	1/20 hp	362:1	0.38/0.22	7 1/2 in	**2H604**
17 RPM	150 in-lb	150 lb	1/20 hp	96:1	0.56/0.29	6 3/4 in	**2H602**
Open, 115V AC, 60 Hz							
33 RPM	165 in-lb	130 lb	1/10 hp	49:1	1.05	7 1/2 in	**2H600**
63 RPM	90 in-lb	230 lb	1/10 hp	25:1	1.05	7 1/2 in	**2H598**
124 RPM	47 in-lb	220 lb	1/10 hp	13:1	1.05	7 1/2 in	**2H596**

2H604

2H600

115, 230, and 115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

Note: Ratings shown are at 60 Hz. 60/50-Hz gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating. 6Z081, 6Z082, 6Z083, 6A197, 6Z084, and 6A196 are operable at 60 Hz only.

A.
Shown with conduit box accessory

A.

- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: 1st stage steel, subsequent stages steel or heat-treated powdered metal
- Bearings: Heavy-duty needle on case; ball on motor
- Mounting: all-position (optional mounting bracket 2A754)
- Rotation: reversible
- Thermal protection: none; impedance on 6Z073 to 6Z076
- Ambient: 40°C
- Brake: adaptable to 5X400 (sold separately on Grainger.com)

B.

B.

- Enclosure: totally enclosed, nonventilated
- Gearcase: CNC machined, die-cast aluminum
- Lubrication: grease-filled
- Gears: first stage high-strength polymer and powdered metal
- Bearings: ball bearings for motor, needle for output shaft
- Mounting: all-position (optional mounting bracket 2A754)
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400 (sold separately on Grainger.com)

C.

C.

- Enclosure: totally enclosed, nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: steel, 1st stage acetal
- Bearings: sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Capacitor Req.	Item No.
Open, 115V AC, 60/50 Hz									
A	1.2 RPM	100 in-lb	90 lb	1/80 hp	1369:1	0.3	7 1/4 in	2MDV3	**6Z073**
	2.3 RPM	100 in-lb	90 lb	1/80 hp	702:1	0.3	7 1/4 in	2MDV3	**6Z074**
	4.5 RPM	100 in-lb	90 lb	1/80 hp	361:1	0.3	7 1/4 in	2MDV3	**6Z075**
	8.8 RPM	76 in-lb	90 lb	1/80 hp	186:1	0.3	7 1/4 in	2MDV3	**6Z076**
	16 RPM	100 in-lb	90 lb	1/20 hp	96:1	0.62	7 3/8 in	2MDV6	**6Z077**
	32 RPM	96 in-lb	90 lb	1/20 hp	49:1	0.62	7 3/8 in	2MDV6	**6Z078**
	63 RPM	49 in-lb	90 lb	1/20 hp	25:1	0.62	7 3/8 in	2MDV6	**6Z079**
	95 RPM	30 in-lb	90 lb	1/20 hp	17:1	0.62	7 3/8 in	2MDV6	**6A195**
	124 RPM	25 in-lb	90 lb	1/20 hp	13:1	0.62	7 3/8 in	2MDV6	**6Z080**
Open, 230V AC, 60/50 Hz									
A	1.2 RPM	100 in-lb	90 lb	1/80 hp	1369:1	0.2	7 7/8 in	Included	**1L532**
	2.3 RPM	100 in-lb	90 lb	1/80 hp	702:1	0.2	7 7/8 in	Included	**1L525**
	4.5 RPM	100 in-lb	90 lb	1/80 hp	362:1	0.2	7 7/8 in	Included	**1L522**
	8.8 RPM	76 in-lb	90 lb	1/80 hp	186:1	0.2	7 7/8 in	Included	**1L519**
	17 RPM	100 in-lb	90 lb	1/20 hp	96:1	0.3	8 1/4 in	Included	**1L526**
	32 RPM	86 in-lb	90 lb	1/20 hp	49:1	0.3	8 1/4 in	Included	**1L524**
	63 RPM	46 in-lb	90 lb	1/20 hp	25:1	0.3	8 1/4 in	Included	**1L521**
	95 RPM	30 in-lb	90 lb	1/20 hp	17:1	0.3	8 1/4 in	Included	**1L518**
TENV, 115V AC, 60 Hz									
A	17 RPM	100 in-lb	90 lb	1/20 hp	96:1	0.6	7 3/8 in	2MDV6	**6Z081**
	33 RPM	96 in-lb	90 lb	1/20 hp	49:1	0.6	7 3/8 in	2MDV6	**6Z082**
	63 RPM	49 in-lb	90 lb	1/20 hp	25:1	0.6	7 3/8 in	2MDV6	**6Z083**
	95 RPM	30 in-lb	90 lb	1/20 hp	17:1	0.6	7 3/8 in	2MDV6	**6A197**
	124 RPM	25 in-lb	90 lb	1/20 hp	13:1	0.6	7 3/8 in	2MDV6	**6Z084**
	154 RPM	20 in-lb	90 lb	1/20 hp	10:1	0.6	7 3/8 in	2MDV6	**6A196**

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Capacitor Req.	Item No.
TENV, 230V AC, 60/50 Hz									
A	17 RPM	100 in-lb	90 lb	1/20 hp	96:1	0.3	8 in	Included	**1L527**
	32 RPM	86 in-lb	90 lb	1/20 hp	49:1	0.3	8 in	Included	**1L523**
	63 RPM	46 in-lb	90 lb	1/20 hp	25:1	0.3	8 in	Included	**1L520**
	95 RPM	30 in-lb	90 lb	1/20 hp	17:1	0.3	8 in	Included	**1L517**
	124 RPM	25 in-lb	90 lb	1/20 hp	13:1	0.3	8 in	Included	**1L530**
	154 RPM	18 in-lb	90 lb	1/20 hp	10:1	0.3	8 in	Included	**1L528**
TENV, 115V AC, 60/50 Hz									
B	16 RPM	67 in-lb	50 lb	1/25 hp	106:1	0.52	6 1/3 in	2MDV4	**453R93**
	29 RPM	50 in-lb	50 lb	1/25 hp	58.5:1	0.51	6 1/3 in	2MDV4	**453R94**
	60 RPM	30 in-lb	50 lb	1/25 hp	28.3:1	0.52	6 1/3 in	2MDV4	**453R95**
	105 RPM	20 in-lb	50 lb	1/25 hp	15.9:1	0.53	6 1/3 in	2MDV4	**453R96**
	139 RPM	14 in-lb	50 lb	1/25 hp	12.1:1	0.52	6 1/3 in	2MDV4	**453R97**
	164 RPM	12 in-lb	50 lb	1/25 hp	10.2:1	0.52	6 1/3 in	2MDV4	**453R98**
TENV, 115/230V AC, 60/50 Hz									
C	4 RPM	50 in-lb	50 lb	1/20 hp	491:1	0.62/0.33	6 1/8 in	Included	**1LPU6**
	7 RPM	50 in-lb	50 lb	1/20 hp	239:1	0.62/0.33	6 1/8 in	Included	**1LPU7**
	36 RPM	50 in-lb	50 lb	1/20 hp	47:1	0.62/0.33	5 3/4 in	Included	**1LPU8**
	68 RPM	30 in-lb	50 lb	1/20 hp	26:1	0.62/0.33	5 3/4 in	Included	**1LPU9**
	96 RPM	20 in-lb	50 lb	1/20 hp	18:1	0.62/0.33	5 3/4 in	Included	**1LPV1**
	181 RPM	12 in-lb	50 lb	1/20 hp	10:1	0.62/0.33	5 3/4 in	Included	**1LPV2**

Description	For Use With	Item No.
Accessories		
L-Shaped Mounting Bracket	A and B Gearmotors	**2A754**
Conduit Box	A and B Gearmotors	**4JV45**

115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

A.

B.

C.

- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: needle throughout with thrust ball on case and ball on motor
- Mounting: all position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to 5X400 (**A.** and **B.** units), sold separately on Grainger.com

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
TENV									
A	1.2 RPM	710 in-lb	900 lb	1/58 hp	1427:1	0.36/0.21	9 15/16 in	**2H618**	
TEFC									
B	6 RPM	710 in-lb	900 lb	1/6 hp	276:1	2.1/1.1	11 5/8 in	**2H616**	*
	12 RPM	700 in-lb	900 lb	1/6 hp	138:1	2.1/1.1	11 5/8 in	**2H614**	*
	14 RPM	630 in-lb	900 lb	1/6 hp	116:1	2.1/1.1	11 5/8 in	**2H612**	*
C	30 RPM	660 in-lb	650 lb	1/2 hp	54:1	5.2/2.8	16 in	**2H610**	†
	58 RPM	490 in-lb	600 lb	1/2 hp	28:1	5.2/2.8	16 in	**2H608**	†
	81 RPM	345 in-lb	550 lb	1/2 hp	20:1	5.2/2.8	16 in	**2H606**	†

** Capacitor remotely mounted. † No rear-shaft extension.*

115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed fan cooled
- Gearcase: machined die-cast aluminum
- Lubrication: permanent heavy-duty gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: ball and needle on case, ball on motor
- Mounting: all position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Motor dia.: **A.** 4", **B.** 5.5"
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to 5X400 (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

A.

B.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
A	6 RPM	500 in-lb	300 lb	1/12 hp	266:1	1.2/0.63	9 1/2 in	1	**1LPX6**
	10 RPM	500 in-lb	300 lb	1/12 hp	164:1	1.2/0.63	9 1/2 in	1	**1LPX5**
	14 RPM	340 in-lb	300 lb	1/12 hp	114:1	1.2/0.63	9 1/2 in	1	**1LPX3**
B	15 RPM	500 in-lb	400 lb	1/5 hp	108:1	2.05/1.05	10 in	2	**1LPX4**
	20 RPM	500 in-lb	400 lb	1/5 hp	80:1	2.05/1.05	10 in	2	**1LPX2**
	30 RPM	360 in-lb	400 lb	1/5 hp	54:1	2.05/1.05	10 in	2	**1LPX1**
	43 RPM	265 in-lb	400 lb	1/5 hp	38:1	2.05/1.05	10 in	2	**1LPW9**
	63 RPM	180 in-lb	400 lb	1/5 hp	26:1	2.05/1.05	10 in	2	**1LPW8**
	91 RPM	130 in-lb	400 lb	1/5 hp	18:1	2.05/1.05	10 in	2	**1LPW7**
	156 RPM	77 in-lb	400 lb	1/5 hp	10:1	2.05/1.05	10 in	2	**1LPW6**

115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: heat-treated steel/phenolic
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor included
- Brake: adaptable to 5X400 using 1 disc in brake (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

1LPL3

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6 RPM	600 in-lb	250 lb	1/12 hp	267:1	1.2/0.63	9 7/8 in	**1LPL5**
12 RPM	400 in-lb	250 lb	1/12 hp	135:1	1.2/0.63	9 7/8 in	**1LPL4**
20 RPM	250 in-lb	250 lb	1/12 hp	81:1	1.2/0.63	9 7/8 in	**1LPL3**

Scan. Order. Done.
Details on page A1.

A.

B.

115/230VAC Permanent Split Capacitor Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Capacitor: included
- Brake: adaptable to 5X400 using number of discs shown in table (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
A	15 RPM	202 in-lb	175 lb	1/15 hp	107:1	1.2/0.63	8 3/4 in	1	4Z518
	30 RPM	135 in-lb	175 lb	1/15 hp	53:1	1.2/0.63	8 3/4 in	1	4Z519
	45 RPM	92 in-lb	175 lb	1/15 hp	35:1	1.2/0.63	8 3/4 in	1	4Z520
	70 RPM	61 in-lb	175 lb	1/15 hp	23:1	1.2/0.63	8 3/4 in	1	4Z521
	97 RPM	43 in-lb	175 lb	1/15 hp	17:1	1.2/0.63	8 3/4 in	1	4Z522
	139 RPM	30 in-lb	175 lb	1/15 hp	12:1	1.2/0.63	8 3/4 in	1	4Z523
B	7.8 RPM	320 in-lb	175 lb	1/12 hp	216:1	2.0/1.0	9 9/16 in	1	6Z816
	16 RPM	385 in-lb	175 lb	1/6 hp	102:1	2.1/1.1	9 9/16 in	1	6Z817
	30 RPM	278 in-lb	175 lb	1/6 hp	58:1	2.1/1.1	9 9/16 in	2	6Z818
	41 RPM	210 in-lb	175 lb	1/6 hp	43:1	2.1/1.1	9 9/16 in	2	6Z819
	60 RPM	157 in-lb	175 lb	1/6 hp	28:1	2.1/1.1	9 9/16 in	2	6Z820
	93 RPM	100 in-lb	175 lb	1/6 hp	19:1	2.1/1.1	9 9/16 in	2	6Z821
	161 RPM	60 in-lb	175 lb	1/6 hp	11:1	2.1/1.1	9 9/16 in	2	6Z822

6MK74

Dayton

115/230VAC Permanent Split Capacitor and 230/460VAC 3-Phase Parallel-Shaft Gearmotors

- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened, AGMA Class 9
- Bearings: motor has ball bearings; gearbox has needle bearings and thrust ball bearings throughout
- Oversized output bearings for greater overhung load capacity
- Mounting: all-position, except shaft up (optional bracket 6XF03 for base mounting)
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- 3/16" x 1" key

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Permanent Split Capacitor, TENV, 115/230V AC, Capacitor Included							
5 RPM	310 in-lb	565 lb	1/12 hp	336:1	1.30/0.65	9 3/4 in	6MK70
9 RPM	341 in-lb	491 lb	1/12 hp	180:1	1.30/0.65	9 3/4 in	6MK71
Permanent Split Capacitor, TEFC, 115/230V AC, Capacitor Included							
29 RPM	270 in-lb	327 lb	1/6 hp	58:1	2.90/1.45	11 3/4 in	6MK74
40 RPM	180 in-lb	303 lb	1/6 hp	43:1	2.90/1.45	11 3/4 in	6MK76
340 RPM	25 in-lb	190 lb	1/6 hp	5:1	2.90/1.45	11 3/4 in	6MK81
3-Phase, TEFC, 230/460V AC, Conduit Box Included							
58 RPM	320 in-lb	300 lb	1/3 hp	30:1	1.60/0.80	11 7/8 in	6MK82
85 RPM	218 in-lb	300 lb	1/3 hp	20:1	1.60/0.80	11 7/8 in	6MK83
173 RPM	109 in-lb	300 lb	1/3 hp	10:1	1.60/0.80	11 7/8 in	6MK84

Description	Item No.
Accessories	
L-Shaped Mounting Bracket	6XF03
Conduit Box	6XF01

6K331

115VAC Split-Phase Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400 brake using number of discs shown in table (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	No. of Brake Discs Req.	Item No.
14 RPM	350 in-lb	175 lb	1/12 hp	127:1	1.75	9 3/8 in	1	6K325
27 RPM	275 in-lb	175 lb	1/6 hp	65:1	3.8	9 7/8 in	2	6K328
40 RPM	225 in-lb	175 lb	1/6 hp	43:1	3.8	9 7/8 in	2	6K329
60 RPM	150 in-lb	175 lb	1/6 hp	28:1	3.8	9 7/8 in	2	6K331
90 RPM	100 in-lb	175 lb	1/6 hp	19:1	3.8	9 7/8 in	2	6K332
135 RPM	65 in-lb	175 lb	1/6 hp	13:1	3.8	9 7/8 in	2	6K334

115VAC Shaded Pole and Split-Phase Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed fan cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty needle roller and thrust ball bearings on case; ball on motor
- Mounting: all-position
- 60 Hz
- Rotation: clockwise facing output shaft on shaded pole models; reversible on split-phase models
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400. 1 brake disk required for all units (sold separately on Grainger.com)

3M326

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
Shaded Pole							
4.1 RPM	200 in-lb	175 lb	1/40 hp	396:1	1.5	8 3/8 in	**3M326**
6.1 RPM	200 in-lb	175 lb	1/40 hp	265:1	1.5	8 3/8 in	**3M327**
14 RPM	200 in-lb	175 lb	1/20 hp	118:1	1.9	8 1/2 in	**3M328**
30 RPM	126 in-lb	175 lb	1/15 hp	53:1	2.3	8 7/8 in	**3M329**
70 RPM	55 in-lb	175 lb	1/15 hp	23:1	2.3	8 7/8 in	**3M330**
Split-Phase							
14 RPM	200 in-lb	175 lb	1/15 hp	118:1	1.5	9 7/8 in	**2Z817**
30 RPM	125 in-lb	175 lb	1/15 hp	53:1	1.5	9 7/8 in	**6K303**
68 RPM	55 in-lb	175 lb	1/15 hp	23:1	1.5	9 7/8 in	**2Z818**
100 RPM	38 in-lb	175 lb	1/15 hp	17:1	1.5	9 7/8 in	**2Z841**

A.

B.

115VAC Split-Phase Parallel-Shaft Gearmotors

Dayton

- Enclosure: open dripproof
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: cut steel and phenolic
- Bearings: **A.** porous bronze sleeve on case; ball on motor **B.** ball on case and motor
- Mounting: all-position
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
A	6 RPM	600 in-lb	300 lb	1/4 hp	286:1	3.1	9 7/8 in	**1LPP7**	*
	12 RPM	600 in-lb	300 lb	1/2 hp	144:1	3.3	9 5/8 in	**1LPP6**	*
	18 RPM	550 in-lb	300 lb	1/3 hp	97:1	3.6	9 5/8 in	**1LPP5**	*
	30 RPM	400 in-lb	190 lb	1/4 hp	57:1	3.9	9 5/8 in	**1LPP4**	
	40 RPM	330 in-lb	190 lb	1/4 hp	43:1	4.1	9 5/8 in	**1LPP3**	
	60 RPM	200 in-lb	190 lb	1/4 hp	29:1	3.9	9 5/8 in	**1LPP2**	
	90 RPM	150 in-lb	150 lb	1/4 hp	19:1	4.1	9 5/8 in	**1LPP1**	
	120 RPM	100 in-lb	110 lb	1/4 hp	14:1	3.9	9 5/8 in	**1LPN9**	
B	31 RPM	800 in-lb	400 lb	1/2 hp	56:1	8.3	10 in	**1LPU5**	
	62 RPM	400 in-lb	400 lb	1/2 hp	28:1	8.3	10 in	**1LPU4**	
	92 RPM	287 in-lb	400 lb	1/2 hp	19:1	8.3	10 in	**1LPU3**	

** Output torque is gear limited.*

Dayton

115VAC Split-Phase and 208-230/460VAC 3-Phase Parallel-Shaft Gearmotors

- Enclosure: open dripproof
- Gearcase: cast-iron
- Lubrication: factory filled with AGMA4 oil
- Gears: steel
- Bearings: ball on case; ball on motor
- Mounting: horizontal
- 60 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C

4FDY9

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Dimensions (in.) A	C	E	H	N	S	U	Z	Shaft Length	Item No.
Split-Phase, 115V AC															
45 RPM	438 in-lb	385 lb	1/3 hp	38:1	5.9	7.13	14.27	3.125	0.410	.2500 x 1.375	4.375 in	1"	4.750	2.25"	**4FDY9**
89 RPM	219 in-lb	245 lb	1/3 hp	19:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.81"	5/8 in	4.688	1.63"	**4FDZ1**
157 RPM	125 in-lb	245 lb	1/3 hp	11:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.812"	5/8 in	4.688	1.63"	**4FDZ2**
288 RPM	69 in-lb	245 lb	1/3 hp	6:1	5.9	6.50	13.65	2.750	0.344	.1875 x 1.125	3.812 in	5/8 in	4.688	1.63 in	**4FDZ3**
3-Phase, 208-230/460V AC															
157 RPM	125 in-lb	245 lb	1/3 hp	11:1	1.4-1.3/0.7	6.50	13.65	2.750	0.344	.1875 x 1.125	3.81"	5/8 in	5.125	1.63"	**4FDZ4**

3-Phase
4Z384

Dayton

115VAC Split-Phase and 208-230/460VAC 3-Phase Parallel-Shaft Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: heavy-duty ball and needle roller, and thrust balls on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: for split-phase adaptable to 4Z447; for 3-phase adaptable to 2LYV2 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
Split-Phase, 115V AC, Overhung Load 325 lb							
5.4 RPM	1,087 in-lb	¼ hp	316:1	4	12 5/16 in	**6Z399**	
8.5 RPM	974 in-lb	¼ hp	210:1	4	12 5/16 in	**6Z400**	
12 RPM	992 in-lb	¼ hp	143:1	4	12 5/16 in	**6K351**	
18 RPM	800 in-lb	¼ hp	95:1	4	12 5/16 in	**6Z401**	
18 RPM	1,017 in-lb	⅓ hp	95:1	5.5	12 5/16 in	**6Z402**	
22 RPM	1,105 in-lb	½ hp	80:1	7.8	12 ¾ in	**6Z403**	
27 RPM	500 in-lb	¼ hp	64:1	4	12 5/16 in	**6K352**	
27 RPM	700 in-lb	⅓ hp	64:1	5.5	12 5/16 in	**6K396**	
39 RPM	450 in-lb	⅓ hp	43:1	5.5	12 5/16 in	**2Z842**	
41 RPM	700 in-lb	½ hp	43:1	7.8	12 ¾ in	**6K375**	
59 RPM	240 in-lb	¼ hp	29:1	4	12 5/16 in	**6K353**	
59 RPM	320 in-lb	⅓ hp	29:1	5.5	12 5/16 in	**6K369**	
61 RPM	480 in-lb	½ hp	29:1	7.8	12 ¾ in	**6K583**	
89 RPM	220 in-lb	⅓ hp	19:1	5.5	12 5/16 in	**2Z843**	
91 RPM	320 in-lb	½ hp	19:1	7.8	12 ¾ in	**6K383**	
134 RPM	100 in-lb	¼ hp	13:1	4	12 5/16 in	**6K354**	
137 RPM	215 in-lb	½ hp	13:1	7.8	12 ¾ in	**6K506**	
153 RPM	125 in-lb	⅓ hp	11:1	5.5	12 5/16 in	**2Z844**	
276 RPM	70 in-lb	⅓ hp	6:1	5.5	12 5/16 in	**2Z845**	
3-Phase, 208-230/460V AC, Overhung Load 325 lb							
18 RPM	1,028 in-lb	⅓ hp	95:1	1.32/0.66	12 5/16 in	**6Z404**	*
21 RPM	1,017 in-lb	½ hp	80:1	1.79/0.89	12 5/16 in	**6Z405**	
27 RPM	687 in-lb	⅓ hp	64:1	1.32/0.66	12 5/16 in	**4Z384**	*
40 RPM	483 in-lb	⅓ hp	43:1	1.32/0.66	12 5/16 in	**4Z385**	*
40 RPM	737 in-lb	½ hp	43:1	1.79/0.89	12 5/16 in	**4Z390**	
59 RPM	493 in-lb	½ hp	29:1	1.79/0.89	12 5/16 in	**4Z391**	
60 RPM	322 in-lb	⅓ hp	29:1	1.32/0.66	12 5/16 in	**4Z386**	*
89 RPM	327 in-lb	½ hp	19:1	1.79/0.89	12 5/16 in	**4Z392**	
90 RPM	214 in-lb	⅓ hp	19:1	1.32/0.66	12 5/16 in	**4Z387**	*
133 RPM	219 in-lb	½ hp	13:1	1.79/0.89	12 5/16 in	**4Z393**	
155 RPM	124 in-lb	⅓ hp	11:1	1.32/0.66	12 5/16 in	**4Z388**	*
276 RPM	105 in-lb	½ hp	6:1	1.79/0.89	12 5/16 in	**4Z394**	
279 RPM	69 in-lb	⅓ hp	6:1	1.32/0.66	12 5/16 in	**4Z389**	*

Operable on 190/380V, 50 Hz at 5/6 of 60 Hz ratings for HP and RPM.

A.

B.

C.

Dayton

230VAC Inverter-Duty 3-Phase Parallel-Shaft Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Operating range: 6 to 90 Hz
- Constant torque: 6 to 60 Hz
- Constant HP: 60 to 90 Hz
- No gear-limited ratios
- Lubrication: lifetime oil sealed
- Gears: hardened steel, AGMA Class 9
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: thermostat
- Ambient: 40°C

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	
A	60 RPM	244 in-lb	257 lb	¼ hp	28:1	0.75	11 9/32 in	**4ZJ52**	*
	90 RPM	165 in-lb	238 lb	¼ hp	19:1	0.75	11 9/32 in	**4ZJ54**	*
	155 RPM	91.7 in-lb	206 lb	¼ hp	11:1	0.75	11 9/32 in	**4ZJ55**	*
B	19 RPM	717 in-lb	900 lb	¼ hp	90:1	0.75	10 ¾ in	**4ZJ49**	
	24 RPM	580 in-lb	750 lb	¼ hp	70:1	0.75	10 ¾ in	**4ZJ50**	
	63.1 RPM	440 in-lb	600 lb	½ hp	28:1	1.6	14 ⅝ in	**4ZJ53**	
C	29 RPM	941 in-lb	600 lb	½ hp	59:1	1.6	13 ⅞ in	**4ZJ51**	
	282 RPM	100 in-lb	491 lb	½ hp	6:1	1.6	13 ⅞ in	**4ZJ56**	

Unit has rear shaft extension.

230/460VAC Helical Inverter-Duty 3-Phase Inline Gearmotors

NORD DRIVESYSTEMS

- Enclosure: totally enclosed fan-cooled/IP55
- Washdown duty
- Lubrication: oil-filled
- 60/50 Hz
- Mounting: factory-filled with oil for horizontal foot mount, other mounting positions obtainable by field modifications
- Finish: cast-aluminum

NordBloc motors have 20:1 variable torque (VT) and 5:1 constant torque (CT). Unicase 1-pc. housing is dimensionally interchangeable with SEW Eurodrive.

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60-Hz rating.

5NUA2

Series	Mounting Dim. (in.) A	B	E	F	Outline Dim. (in.) BA	D	V
SK172.1	5.31	5.45	4.33	4.33	2.28	2.95	1.57
SK372.1	5.71	6.3	4.33	5.12	2.95	3.54	1.97
SK572.1/SK573.1	7.48	7.87	5.31	6.5	3.94	4.53	2.75
SK673.1	8.27	9.25	5.91	7.68	3.94	5.12	2.75
SK772.1/SK773.1	9.06	9.65	6.69	8.07	4.53	5.51	3.15
SK873.1	11.42	12.2	8.46	10.24	5.51	7.09	3.94

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Shaft Dia. (Dim. U)	Keyway Size	Length Less Shaft	Mfr. Model	Item No.
28 RPM	1,328 in-lb	1,311 lb	½ hp	60.8:1	1.90/0.95	1"	¼ in x ⅛ in x 1¼ in	15 9/10 in	SK372.1-71L/4, 60.83	**5NUA2**
28 RPM	3,983 in-lb	2,271 lb	1 hp	60.9:1	1.57	1 ¼ in	5/16 in x 5/32 in x 2⅛ in	17 31/32 in	SK573.1-80LP/4, 60.97, 1.25	**39RK85**
28 RPM	3,983 in-lb	2,271 lb	1 hp	60.9:1	1.57	1 ⅜ in	5/16 in x 5/32 in x 2⅛ in	17 31/32 in	SK573.1-80LP/4, 60.97	**39RK79**
29 RPM	15,045 in-lb	3,766 lb	5 hp	61:1	6.5	2 ⅛ in	½ in x ¼ in x 2⅝ in	24 ⅛ in	SK873.1-112MP/4, 61.07	**39RL04**
31 RPM	7,523 in-lb	2,111 lb	3 hp	57.6:1	3.84	1 ⅝ in	⅜ in x 3/16 in x 2¼ in	20 45/64 in	SK773.1-100LP/4, 57.64	**39RK83**
40 RPM	1,505 in-lb	1,189 lb	1 hp	43.2:1	1.57	1 in	¼ in x ⅛ in x 1¼ in	16 29/32 in	SK372.1-80LP/4, 43.26	**39RL01**
40 RPM	7,700 in-lb	1,389 lb	5 hp	43.4:1	6.5	1 ⅝ in	⅜ in x 3/16 in x 2¼ in	22 37/64 in	SK773.1-112MP/4, 43.43	**39RK98**
43 RPM	5,664 in-lb	2,241 lb	3 hp	41.5:1	3.84	1 ⅜ in	5/16 in x 5/32 in x 2⅛ in	21 17/32 in	SK673.1-100LP/4, 41.54	**39RK94**
44 RPM	752 in-lb	629 lb	½ hp	38.7:1	1.90/0.95	¾ in	3/16 in x 3/32 in x 1¼ in	13 7/20 in	SK172.1-71L/4, 38.75	**5NUA5**
51 RPM	761 in-lb	629 lb	½ hp	34.5:1	1.90/0.95	¾ in	3/16 in x 3/32 in x 1¼ in	13 7/20 in	SK172.1-71L/4, 34.52	**5NUA9**
51 RPM	1,682 in-lb	1,224 lb	1 hp	33.8:1	1.57	1 in	¼ in x ⅛ in x 1¼ in	16 29/32 in	SK372.1-80LP/4, 33.84	**39RK87**
57 RPM	3,894 in-lb	1,561 lb	3 hp	30.9:1	3.84	1 ¼ in	5/16 in x 5/32 in x 2⅛ in	20 49/64 in	SK573.1-100LP/4, 30.93	**39RL02**
65 RPM	7,257 in-lb	1,639 lb	5 hp	26.8:1	6.5	1 ⅝ in	⅜ in x 3/16 in x 2¼ in	22 37/64 in	SK772.1-112MP/4, 26.86	**39RK82**
71 RPM	814 in-lb	629 lb	½ hp	24.8:1	1.90/0.95	¾ in	3/16 in x 3/32 in x 1¼ in	13 7/20 in	SK172.1-71L/4, 24.8	**5NUC3**
75 RPM	1,770 in-lb	1,237 lb	1 hp	23:1	3.14/1.57	1 in	¼ in x ⅛ in x 1¼ in	16 29/32 in	SK372.1-80LP/4, 23	**39RK99**
90 RPM	3,540 in-lb	1,846 lb	3 hp	19.5:1	3.84	1 ¼ in	5/16 in x 5/32 in x 2⅛ in	20 49/64 in	SK572.1-100LP/4, 19.57, 1.25	**39RK97**
90 RPM	3,540 in-lb	1,846 lb	3 hp	19.5:1	3.84	1 ⅜ in	5/16 in x 5/32 in x 2⅛ in	20 49/64 in	SK572.1-100LP/4, 19.57	**39RK86**
90 RPM	3,540 in-lb	1,109 lb	5 hp	19.5:1	6.5	1 ⅜ in	5/16 in x 5/32 in x 2⅛ in	22 ⅝ in	SK572.1-112MP/4, 19.57	**39RK77**
110 RPM	752 in-lb	630 lb	1 hp	15.7:1	1.57	¾ in	3/16 in x 3/32 in x 1¼ in	14 15/64 in	SK172.1-80LP/4, 15.76	**39RL03**
111 RPM	289 in-lb	629 lb	½ hp	15.7:1	1.90/0.95	¾ in	3/16 in x 3/32 in x 1¼ in	13 7/20 in	SK172.1-71L/4, 15.76	**5NUC8**
114 RPM	3,806 in-lb	1,209 lb	5 hp	15.3:1	6.5	1 ¼ in	5/16 in x 5/32 in x 2⅛ in	22 ⅝ in	SK572.1-112MP/4, 15.38	**39RL07**
130 RPM	3,629 in-lb	1,796 lb	3 hp	13.6:1	3.84	1 ¼ in	5/16 in x 5/32 in x 2⅛ in	20 49/64 in	SK572.1-100LP/4, 13.67, 1.25	**39RK93**
130 RPM	3,629 in-lb	1,796 lb	3 hp	13.6:1	3.84	1 ¼ in	5/16 in x 5/32 in x 2⅛ in	20 49/64 in	SK572.1-100LP/4, 13.67	**39RK90**

230/460VAC Helical Bevel Inverter-Duty 3-Phase Right-Angle Gearmotors

NORD DRIVESYSTEMS

- Enclosure: totally enclosed fan-cooled/IP55
- Washdown duty
- Lubrication: oil-filled
- Mounting: factory-filled with oil for the horizontal foot mount; other mounting positions obtainable by field modification
- 60/50 Hz
- Finish: stainless steel paint, USDA H1 Compliant

20:1 variable torque and 5:1 constant torque. Dimensionally interchangeable with SEW Eurodrive. Unicase 1-piece housing.

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60-Hz rating.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Mfr. Model	Item No.
17 RPM	931 in-lb	1,607 lb	¼ hp	97:1	1.1/0.56	SK9012.1-63L/4-97.36-A	**5YW26**
17 RPM	1,770 in-lb	1,530 lb	½ hp	97:1	1.9/0.95	SK9012.1-71L/4-97.36-A	**5YW37**
18 RPM	3,540 in-lb	1,076 lb	1 hp	97.3:1	1.57	SK9012.1-80LP/4-97.36-A	**39RK89**
19 RPM	13,722 in-lb	2,504 lb	3 hp	95.5:1	3.84	SK9032.1-100LP/4-93.5-A	**39RK92**
23 RPM	3,540 in-lb	1,319 lb	1 hp	76.5:1	1.57	SK9012.1-80LP/4-76.53-A	**39RL05**
23 RPM	13,720 in-lb	1,694 lb	5 hp	75.9:1	6.5	SK9032.1-112MP/4-75.91-A	**39RK95**
24 RPM	13,719 in-lb	2,502 lb	3 hp	75.1:1	3.84	SK9032.1-100LP/4-75.16-A	**39RK88**
41 RPM	757 in-lb	1,616 lb	½ hp	42:1	1.9/0.95	SK9012.1-71L/4-41.65-A	**5YW35**
42 RPM	3,540 in-lb	592 lb	3 hp	41.6:1	3.84	SK9012.1-100LP/4-41.65-A	**39RK91**
42 RPM	3,540 in-lb	1,438 lb	½ hp	41.6:1	2.10	SK9012.1-90SP/4-41.65-A	**39RL06**
43 RPM	13,718 in-lb	1,949 lb	5 hp	40.3:1	6.5	SK9032.1-112MP/4-40.36-A	**39RK78**
137 RPM	117 in-lb	1,321 lb	¼ hp	12:1	1.1/0.56	SK9012.1-63L/4-12.23-A	**5YW22**
137 RPM	222 in-lb	1,296 lb	½ hp	12:1	1.9/0.95	SK9012.1-71L/4-12.23-A	**5YW33**
142 RPM	1,947 in-lb	1,629 lb	1 hp	12.2:1	1.57	SK9012.1-80LP/4-12.23-A	**39RK96**
144 RPM	1,947 in-lb	1,575 lb	3 hp	12.2:1	3.84	SK9012.1-100LP/4-12.23-A	**39RK81**
144 RPM	1,947 in-lb	1,460 lb	5 hp	12.2:1	6.5	SK9012.1-112MP/4-12.23-A	**39RK84**

5YW26

Gearmotor Series	FP	SK9012.1 C	SK9032.1 C
63L	5.12	17.09	—
71L	5.71	18.66	—
80LP	6.5	19.65	—
90SP	7.2	21.26	—
100LP	7.91	22.44	25.39
112MP	8.87	23.35	26.30

Series	Mounting Dim. (in.) A	B	E	EB	F	FA	FB	H	Outline Dim. (in.) BA	D	DB	EA	O	QB	Output Shaft Dim. (in.) U	V	Key
SK9012.1	6.77	5.51	5.12	5.12	4.72	1.38	1.46	0.43	2.95	4.41	0.39	5.32	7.64	2.8	1.25	2.36	¼ x ¼ x 2
SK9032.1	9.06	7.68	5.91	7.48	6.5	1.57	2.56	0.71	4.47	7.09	0.94	7.72	11.61	4.41	1.75	3.54	⅜ x ⅜ x 2 ¾

A. & B.

C.

115VAC Permanent Split Capacitor Right-Angle Gearmotors

Dayton

- Gearcase: zinc alloy
- Lubrication: TENV models grease-filled; TEFC models oil-filled
- Gears: TENV models hardened-steel worm, phenolic output gear; TEFC models hardened-steel worm, forged-bronze output gear
- Bearings: ball on case and motor
- Mounting: all-position except input motor shaft up
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400 using 1 disc with 1/20-HP, 2 discs with 1/12- and ⅛-HP models (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Key	Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Capacitor Req.	Item No.
TENV								
A	43 RPM	21 in-lb	70 lb	1/20 hp	40:1	1	2MDV3	**1XFY2**
	86 RPM	22 in-lb	60 lb	1/20 hp	20:1	1	2MDV3	**1XFY3**
	173 RPM	13 in-lb	50 lb	1/20 hp	10:1	1	2MDV3	**1XFY4**
B	43 RPM	55 in-lb	110 lb	1/12 hp	40:1	1.3	2MDV5	**1XFY5**
	86 RPM	41 in-lb	90 lb	1/12 hp	20:1	1.3	2MDV5	**1XFY6**
	173 RPM	23 in-lb	70 lb	1/12 hp	10:1	1.3	2MDV5	**1XFY7**
TEFC								
C	29 RPM	85 in-lb	130 lb	⅛ hp	60:1	2	2MDV9	**1XFY8**
	43 RPM	77 in-lb	110 lb	⅛ hp	40:1	2	2MDV9	**1XFY9**
	57 RPM	68 in-lb	100 lb	⅛ hp	30:1	2	2MDV9	**1XFZ1**
	86 RPM	55 in-lb	90 lb	⅛ hp	20:1	2	2MDV9	**1XFZ2**
	173 RPM	31 in-lb	70 lb	⅛ hp	10:1	2	2MDV9	**1XFZ3**

3XA87

115/230VAC Permanent Split Capacitor Right-Angle Gearmotors

Dayton

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: oil-filled
- Gears: hardened steel worm, bronze output gear
- Bearings: needle bearing on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Reversible shaft output
- Rotation: reversible
- Thermal protection: none
- Dual output shafts
- Ambient: 40°C
- Capacitor: included
- Overall depth 9¾"
- Brake: adaptable to 5X400 (sold separately on Grainger.com)

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60 Hz ratings.

Nameplate RPM @ 60 Hz	Nameplate RPM @ 50 Hz	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
55 RPM	48	130 in-lb	200 lb	¼ hp	30:1	2.35/1.25	**3XA90**
80 RPM	71	108 in-lb	200 lb	¼ hp	20:1	2.35/1.25	**3XA89**
160 RPM	138	62 in-lb	200 lb	¼ hp	10:1	2.35/1.25	**3XA88**
330 RPM	276	15 in-lb	200 lb	¼ hp	5:1	2.35/1.25	**3XA87**

1LPZ3

115/230VAC Dual Shaft Permanent Split Capacitor Right-Angle Gearmotors

Dayton

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: heat-treated steel
- Bearings: sleeve on case; ball on motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C
- Brake: adaptable to 5X400 using 1 disc (sold separately on Grainger.com)
- Overall depth 11⅝"
- Capacitor included

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of 60 Hz ratings.

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
1.5 RPM	250 in-lb	100 lb	1/12 hp	1205:1	1.2/0.63	**1LPZ3**
3 RPM	200 in-lb	100 lb	1/12 hp	525:1	1.2/0.63	**1LPZ2**
5.6 RPM	200 in-lb	100 lb	1/12 hp	275:1	1.2/0.63	**1LPY9**
9.5 RPM	200 in-lb	100 lb	1/12 hp	161:1	1.2/0.63	**1LPZ1**
21 RPM	170 in-lb	100 lb	1/12 hp	70:1	1.2/0.63	**1LPY8**
40 RPM	89 in-lb	100 lb	1/12 hp	37:1	1.2/0.63	**1LPY5**

Dayton

115/208-230VAC Capacitor-Start and 230/460VAC 3-Phase Right-Angle Gearmotors

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: oil-filled
- Gears: hardened-steel worm, forged-bronze output gear
- Bearings: roller bearings on case; ball on motor
- Mounting: horizontal, vertical, or at 90° angles
- Rotation: reversible
- Thermal protection: none
- Ambient: 40°C

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
Capacitor-Start, 115/208-230V AC, 60 Hz						
Key A						
30 RPM	381 in-lb	670 lb	⅓ hp	58:1	5.6/2.8	**4CVT9**
45 RPM	299 in-lb	670 lb	⅓ hp	39:1	5.6/2.8	**4CVU1**
	456 in-lb	670 lb	½ hp	39:1	6.6/3.3	**4CVU3**
56 RPM	390 in-lb	670 lb	½ hp	31:1	6.6/3.3	**4CVT7**
100 RPM	163 in-lb	670 lb	⅓ hp	18:1	5.6/2.8	**4CUK7**
	254 in-lb	670 lb	½ hp	18:1	6.6/3.3	**4CVU5**
155 RPM	173 in-lb	670 lb	½ hp	11:1	6.6/3.3	**4CVU6**
Capacitor-Start, 115/208-230V AC, 60/50 Hz						
Key B						
30 RPM	680 in-lb	980 lb	½ hp	58:1	8.4/4.2	**4CVZ3**
45 RPM	743 in-lb	980 lb	¾ hp	39:1	11.2/5.6	**4CVZ4**
84 RPM	456 in-lb	882 lb	¾ hp	21:1	11.2/5.6	**4CVZ2**

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
3-Phase, 208-230/460V AC, 60/50 Hz*						
Key C						
30 RPM	680 in-lb	980 lb	½ hp	58:1	2.0-1.9/0.95	**4CVU7**
37 RPM	855 in-lb	980 lb	¾ hp	47:1	2.7-3.0/1.5	**4CVY1**
45 RPM	507 in-lb	980 lb	½ hp	39:1	2.0-1.9/0.95	**4CVU8**
	743 in-lb	980 lb	¾ hp	39:1	2.7-3.0/1.5	**4CVY6**
	966 in-lb	980 lb	1 hp	39:1	3.4-3.4/1.7	**4CVX5**
56 RPM	633 in-lb	980 lb	¾ hp	31:1	2.7-3.0/1.5	**4CVY2**
	835 in-lb	980 lb	1 hp	31:1	3.4-3.4/1.7	**4CVY4**
68 RPM	367 in-lb	932 lb	½ hp	26:1	2.0-1.9/0.95	**4CVU9**
	537 in-lb	932 lb	¾ hp	26:1	2.7-3.0/1.5	**4CVY7**
	796 in-lb	882 lb	1 hp	26:1	3.4-3.4/1.7	**4CVX2**
84 RPM	605 in-lb	882 lb	1 hp	21:1	3.4-3.4/1.7	**4CVY5**
100 RPM	265 in-lb	831 lb	½ hp	18:1	2.0-1.9/0.95	**4CVX1**
	522 in-lb	831 lb	1 hp	18:1	3.4-3.4/1.7	**4CVX3**
155 RPM	269 in-lb	723 lb	¾ hp	11:1	2.7-3.0/1.5	**4CVY9**
	357 in-lb	723 lb	1 hp	11:1	3.4-3.4/1.7	**4CVX4**
	711 in-lb	723 lb	2 hp	11:1	6.4-6.4/3.2	**4CVX6**
Key D						
30 RPM	876 in-lb	883 lb	¾ hp	57:1	2.7-3.0/1.5	**4FDY8**
	1,168 in-lb	883 lb	1 hp	57:1	3.4-3.4/1.7	**4FDY4**
45 RPM	2,410 in-lb	894 lb	2 hp	37:1	6.4-6.3/3.2	**4FDY5**
68 RPM	1,143 in-lb	827 lb	2 hp	25:1	6.4-6.4/3.2	**4FDY6**

** Operable on 190/380V, 50 Hz, with HP and rpm at 5/6 of the 60-Hz ratings.*

46E525

115VAC and 230VAC Hypoid Hollow-Shaft Right-Angle Gearmotors

PowerSTAR BISON

- Enclosure: totally enclosed fan-cooled
- Gearcase: die-cast aluminum
- Lubrication: extreme-pressure grease
- Gears: hardened steel; 1st stage hypoid AGMA Class 10, subsequent stages are helical AGMA Class 9
- 60 Hz for 115VAC; 6-90 Hz for 230VAC
- Bearings: ball
- Mounting: all-position
- Rotation: reversible
- Thermal protection: none
- Max. ambient: 40°C
- IP-54 rating

PowerSTAR design delivers higher torque at improved efficiencies for packaging and light- to medium-duty conveying applications. Lightweight aluminum shell keeps unit running cool, while ground gearing provides quiet, precise, low-backlash operation. Compact profile and mounting is dimensionally interchangeable with Brother F3 series and many European gearmotors. Flange version also available on Grainger.com. For PowerSTAR accessories, see page 83.

				115VAC, 1 PHASE					230VAC, 3 PHASE, INVERTER DUTY			
Nameplate RPM*	Max. Torque	Input HP	Gear Ratio	Full Load Amps*	Overall Length	Capacitor Req.	Mfr. Model	Item No.	Full Load Amps*	Overall Length	Mfr. Model	Item No.
720 Series												
7 RPM	470 in-lb	1/15 hp	240:1	1	13.12 in	24MA47	026-720A0240	**46E563**	0.39	13.09 in	027-720G0240	**46E576**
9.3 RPM	355 in-lb	1/15 hp	180:1	1	13.12 in		026-720A0180	**46E562**	0.39	13.09 in	027-720G0180	**46E575**
16.8 RPM	365 in-lb	⅛ hp	100:1	1.70	14.14 in	24MA48	026-720A0100	**46E559**	0.63	13.09 in	027-720G0100	**46E572**
21 RPM	295 in-lb	⅛ hp	80:1	1.70	14.14 in		026-720A0080	**46E558**	0.63	13.09 in	027-720G0080	**46E571**
33.6 RPM	180 in-lb	⅛ hp	50:1	1.70	14.14 in		026-720A0050	**46E556**	0.63	13.09 in	027-720G0050	**46E569**
42.2 RPM	145 in-lb	⅛ hp	40:1	1.70	14.14 in		026-720A0040	**46E555**	0.63	13.09 in	027-720G0040	**46E568**
56.2 RPM	105 in-lb	⅛ hp	30:1	1.70	14.14 in		026-720A0030	**46E554**	0.63	13.09 in	027-720G0030	**46E567**
84.3 RPM	73 in-lb	⅛ hp	20:1	1.70	14.14 in		026-720A0020	**46E553**	0.63	13.09 in	027-720G0020	**46E566**
112.4 RPM	55 in-lb	⅛ hp	15:1	1.70	14.14 in		026-720A0015	**46E552**	0.63	13.09 in	027-720G0015	**46E565**
168.6 RPM	35 in-lb	⅛ hp	10:1	1.70	14.14 in		026-720A0010	**46E551**	0.63	13.09 in	027-720G0010	**46E564**
725 Series												
9.3 RPM	680 in-lb	⅛ hp	180:1	1.86	13.62 in	41C241	026-725A0180	**41C218**	0.85	13.62 in	027-725G0180	**41C231**
11.2 RPM	570 in-lb	⅛ hp	150:1	1.86	13.62 in		026-725A0150	**41C217**	0.85	13.62 in	027-725G0150	**41C230**
14 RPM	450 in-lb	⅛ hp	120:1	1.86	13.62 in		026-725A0120	**41C216**	0.85	13.62 in	027-725G0120	**41C229**
21 RPM	480 in-lb	⅕ hp	80:1	2.6	15.37 in	41C242	026-725A0080	**41C227**	1.1	13.62 in	027-725G0080	**41C240**
28 RPM	360 in-lb	⅕ hp	60:1	2.6	15.37 in		026-725A0060	**41C226**	1.1	13.62 in	027-725G0060	**41C239**
33.6 RPM	300 in-lb	⅕ hp	50:1	2.6	15.37 in		026-725A0050	**41C225**	1.1	13.62 in	027-725G0050	**41C238**
56.2 RPM	180 in-lb	⅕ hp	30:1	2.6	15.37 in		026-725A0030	**41C223**	1.1	13.62 in	027-725G0030	**41C236**
84.3 RPM	120 in-lb	⅕ hp	20:1	2.6	15.37 in		026-725A0020	**41C222**	1.1	13.62 in	027-725G0020	**41C235**
112.4 RPM	90 in-lb	⅕ hp	15:1	2.6	15.37 in		026-725A0015	**41C221**	1.1	13.62 in	027-725G0015	**41C234**
168.6 RPM	60 in-lb	⅕ hp	10:1	2.6	15.37 in		026-725A0010	**41C220**	1.1	13.62 in	027-725G0010	**41C233**
730 Series												
11.2 RPM	1,090 in-lb	¼ hp	150:1	3.35	14.34 in	24MA49	026-730A0150	**46E535**	1.55	14.34 in	027-730G0150	**46E548**
14 RPM	871 in-lb	¼ hp	120:1	3.35	14.34 in		026-730A0120	**46E534**	1.55	14.34 in	027-730G0120	**46E547**
16.8 RPM	725 in-lb	¼ hp	100:1	3.35	14.34 in		026-730A0100	**46E533**	1.55	14.34 in	027-730G0100	**46E546**
21 RPM	766 in-lb	⅓ hp	80:1	4.84	16.09 in	24MA50	026-730A0080	**46E532**	1.70	14.34 in	027-730G0080	**46E545**
33.6 RPM	479 in-lb	⅓ hp	50:1	4.84	16.09 in		026-730A0050	**46E530**	1.70	14.34 in	027-730G0050	**46E543**
42.2 RPM	382 in-lb	⅓ hp	40:1	4.84	16.09 in		026-730A0040	**46E529**	1.70	14.34 in	027-730G0040	**46E542**
56.2 RPM	286 in-lb	⅓ hp	30:1	4.84	16.09 in		026-730A0030	**46E528**	1.70	14.34 in	027-730G0030	**46E541**
84.3 RPM	191 in-lb	⅓ hp	20:1	4.84	16.09 in		026-730A0020	**46E527**	1.70	14.34 in	027-730G0020	**46E540**
112.4 RPM	143 in-lb	⅓ hp	15:1	4.84	16.09 in		026-730A0015	**46E526**	1.70	14.34 in	027-730G0015	**46E539**
168.6 RPM	95 in-lb	⅓ hp	10:1	4.84	16.09 in		026-730A0010	**46E525**	1.70	14.34 in	027-730G0010	**46E538**

** @60 Hz.*

Right-Hand Output

Dayton

Universal 115VAC/DC Right-Angle Gearmotors

- Enclosure: vented
- Gearcase: die-cast zinc
- Lubrication: grease filled
- Gears: input gear steel; output gear cast iron
- Bearings: bronze sleeve on case and motor
- Mounting: all-position
- 60/50 Hz
- Rotation: reversible
- Thermal protection: none
- Brushes: replaceable; approx. 300-hr. life
- Ambient: 40°C
- Overall depth: 8⅞"
- Input power: 1/15 HP

Note: Ratings shown are at 60 Hz. Gearmotors are also operable at 50 Hz, with HP and rpm at 5/6 of the 60 Hz rating.

Description	Item No.
Replacement Parts	
AC/DC Input Motor, 115V, 5000 rpm	**1MDU9**
Brushes, Pkg. of 6	**1YNR3**

Nameplate RPM	Full Load Torque	Overhung Load	Gear Ratio	Full Load Amps	LEFT HAND OUTPUT Item No.*	RIGHT HAND OUTPUT Item No.	DUAL OUTPUT Item No.
4.5 RPM	250 in-lb	100 lb	1714:1	1.1 A	**1LRA6**	**1LRA7**	—
8 RPM	150 in-lb	100 lb	747:1	1.3 A	**1LRA4**	**1LRA5**	—
13 RPM	84 in-lb	100 lb	391:1	1.3 A	**1LRA2**	**1LRA3**	—
24 RPM	85 in-lb	100 lb	229:1	1.3 A	**1LPZ8**	**1LPZ9**	**1LRA1** †
55 RPM	39 in-lb	100 lb	100:1	1.3 A	**1LPZ5**	**1LPZ7**	—
90 RPM	18 in-lb	100 lb	52:1	1.3 A	**1LPZ4**	**1LPZ6**	—

**Output shaft viewed facing lead end of motor. †Double output shaft.*

12VDC Subfractional Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: spur
- Bearings: bronze sleeve on both case and motor
- Mounting: all-position, face
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C

1LNG7

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
0.5 RPM	50 in-lb	40 lb	1/2000	2476:1	0.15 A	3 1/4 in	**1LNG3**
1.5 RPM	25 in-lb	40 lb	1/1000	931:1	0.16 A	3 1/4 in	**1LNG4**
4.5 RPM	38.1 in-lb	40 lb	1/200	530:1	0.6 A	3 1/4 in	**1LNG6**
9 RPM	35 in-lb	40 lb	1/120	492:1	1 A	3 1/4 in	**1LNG7**
12 RPM	40 in-lb	40 lb	1/90	254:1	1.1 A	3 1/4 in	**1LNG8**
17 RPM	16 in-lb	13 lb	1/160	254:1	0.75 A	3 in	**1LNG9**
25 RPM	16 in-lb	13 lb	1/150	172:1	1 A	3 1/4 in	**1LNH1**
50 RPM	10 in-lb	13 lb	1/90	74:1	1.1 A	3 1/4 in	**1LNH2**

12VDC and 24VDC Subfractional Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: spur, power metal and steel
- Bearings: bronze sleeve on both case and motor
- Mounting: all-position, face
- Rotation: reversible
- Ambient: 40°C

52JE46

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
12V DC							
0.5 RPM	50 in-lb	30 lb	1/2800	4672:1	0.1 A	3 in	**52JE46**
1.5 RPM	46 in-lb	30 lb	1/2800	3822:1	0.3 A	3 in	**52JE47**
3.4 RPM	44 in-lb	30 lb	1/425	1575:1	0.5 A	3 in	**52JE48**
4.5 RPM	43 in-lb	30 lb	1/325	2027:1	0.7 A	3 in	**52JE49**
8.8 RPM	41 in-lb	30 lb	1/175	938.2:1	1 A	3 in	**52JE50**
12 RPM	40 in-lb	30 lb	1/125	594.4:1	1.3 A	3 in	**52JE51**
17 RPM	30 in-lb	30 lb	1/125	384:1	1.4 A	3 in	**52JE52**
25 RPM	20 in-lb	30 lb	1/125	273.8:1	1.3 A	3 in	**52JE53**
50 RPM	10 in-lb	30 lb	1/125	139.8:1	1.1 A	3 in	**52JE54**
24V DC							
1.3 RPM	50 in-lb	30 lb	1/230	4672:1	0.16 A	3 in	**52JE55**
4.4 RPM	50 in-lb	30 lb	1/230	2478:1	0.35 A	3 in	**52JE56**
8 RPM	34 in-lb	30 lb	1/200	1430.8:1	0.38 A	3 in	**52JE57**
12 RPM	24 in-lb	30 lb	1/200	938.2:1	0.38 A	3 in	**52JE58**
22 RPM	50 in-lb	30 lb	1/50	300:1	1.4 A	3 39/64 in	**52JE59**
45 RPM	28 in-lb	30 lb	1/50	78.6:1	1.4 A	3 39/64 in	**52JE60**

12VDC and 90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: heat-treated steel and acetal
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output shaft
- 90VDC models accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)

1LPV8

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
12V DC							
6 RPM	50 in-lb	50 lb	1/30	430:1	2.1 A	6 1/8 in	**1LPV8**
9 RPM	50 in-lb	50 lb	1/30	273:1	2.1 A	6 1/8 in	**1LPV7**
17 RPM	50 in-lb	50 lb	1/30	141:1	2.1 A	5 5/8 in	**1LPV6**
24 RPM	40 in-lb	50 lb	1/30	100:1	2.1 A	5 5/8 in	**1LPV5**
39 RPM	26 in-lb	50 lb	1/30	62:1	2.1 A	5 5/8 in	**1LPV4**
76 RPM	13 in-lb	50 lb	1/30	32:1	2.1 A	5 5/8 in	**1LPV3**
90V DC							
7 RPM	50 in-lb	50 lb	1/30	430:1	0.35 A	6 1/8 in	**1LPV9**
11 RPM	50 in-lb	50 lb	1/30	273:1	0.35 A	6 1/8 in	**1LPW1**
21 RPM	50 in-lb	50 lb	1/30	141:1	0.35 A	5 5/8 in	**1LPW2**
29 RPM	40 in-lb	50 lb	1/30	100:1	0.35 A	5 5/8 in	**1LPW3**
47 RPM	26 in-lb	50 lb	1/30	62:1	0.35 A	5 5/8 in	**1LPW4**
93 RPM	13 in-lb	50 lb	1/30	32:1	0.35 A	5 5/8 in	**1LPW5**
Replacement Motor Brush Sets							
12VDC							**6YHY4**
90VDC							**6YHY3**

12VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle roller and thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on input and output shafts
- Accept pulse generators 6Z392 or 5JJ65 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
23 RPM	280 in-lb	150 lb	1/6	82:1	9.75 A	10 1/8 in	**1Z820** *
31 RPM	278 in-lb	150 lb	1/6	58:1	14.5 A	10 1/8 in	**1Z822**
50 RPM	183 in-lb	150 lb	1/6	36:1	14.5 A	10 1/8 in	**1Z824**
64 RPM	150 in-lb	150 lb	1/6	28:1	14.5 A	10 1/8 in	**1Z826**
94 RPM	102 in-lb	150 lb	1/6	19:1	14.5 A	10 1/8 in	**1Z831**
170 RPM	57 in-lb	150 lb	1/6	11:1	14.5 A	10 1/8 in	**1Z833**
Replacement Part							
Motor Brush Set							**6YHY5**

** Gear limited.*

Dayton

12VDC Permanent-Magnet Parallel-Shaft Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: phenolic and hardened steel
- Bearings: porous bronze sleeve on case; ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output shaft

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6 RPM	500 in-lb	250 lb	1/15	267:1	6.2 A	8 1/2 in	**1LPK9**
12 RPM	250 in-lb	250 lb	1/15	135:1	6.2 A	8 1/2 in	**1LPK7**
20 RPM	150 in-lb	250 lb	1/15	81:1	6.2 A	8 1/2 in	**1LPK4**
42 RPM	75 in-lb	250 lb	1/15	38:1	6.2 A	8 1/2 in	**1LPK3**
58 RPM	75 in-lb	250 lb	1/10	55:1	9 A	8 1/2 in	**1LPK2**
84 RPM	50 in-lb	250 lb	1/10	38:1	9 A	8 1/2 in	**1LPK1**
Replacement Part							
Motor Brush Set							**6YHY5**

Dayton

24VDC Permanent-Magnet Parallel-Shaft Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle with thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded lip-type on input and output shafts
- Gear limited
- Accept pulse generators 6Z392 or 5JJ65 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
8.3 RPM	310 in-lb	695 lb	1/8	216:1	2.5 A	10 3/8 in	**4ZJ45**
20 RPM	254 in-lb	500 lb	1/8	88:1	4.5 A	10 3/8 in	**4ZJ46**
30 RPM	254 in-lb	291 lb	1/8	60:1	5.45 A	10 3/8 in	**1L848**
64 RPM	113 in-lb	291 lb	1/8	28:1	5.45 A	10 3/8 in	**4ZJ47**
120 RPM	60 in-lb	250 lb	1/8	15:1	5.45 A	10 3/8 in	**4ZJ48**
Replacement Part							
Motor Brush Set							**6YHY5**

6A193

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needle roller and thrust balls on case; ball on motor
- Mounting: all-position, face/base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on input and output shafts
- 1/20- and ⅛-HP units accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)
- Accept pulse generator 6Z392 or 5JJ65 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Gear Ratio	Full Load Amps	Length Less Shaft	Replacement Brushes	Item No.	
1/20 Input HP								
5.4 RPM	227 in-lb	150 lb	336:1	0.4 A	8 5/8 in	6YHY3	**6A193**	*
8.7 RPM	250 in-lb	150 lb	208:1	0.53 A	8 5/8 in	6YHY3	**6A194**	*
18 RPM	150 in-lb	150 lb	101:1	0.62 A	8 5/8 in	6YHY3	**4Z134**	
34 RPM	82 in-lb	150 lb	53:1	0.62 A	8 5/8 in	6YHY3	**4Z133**	
51 RPM	55 in-lb	150 lb	35:1	0.62 A	8 5/8 in	6YHY3	**4Z132**	
109 RPM	27 in-lb	150 lb	17:1	0.62 A	8 5/8 in	6YHY3	**4Z131**	
⅛ Input HP								
22 RPM	280 in-lb	150 lb	82:1	1.41 A	10 ⅛ in	6YHY6	**4Z130**	*
31 RPM	220 in-lb	150 lb	58:1	1.41 A	10 ⅛ in	6YHY6	**4Z383**	
50 RPM	138 in-lb	150 lb	36:1	1.41 A	10 ⅛ in	6YHY6	**4Z129**	
64 RPM	113 in-lb	150 lb	28:1	1.41 A	10 ⅛ in	6YHY6	**4Z382**	
94 RPM	77 in-lb	150 lb	19:1	1.41 A	10 ⅛ in	6YHY6	**4Z381**	
170 RPM	43 in-lb	150 lb	11:1	1.41 A	10 ⅛ in	6YHY6	**4Z128**	
¼ Input HP								
42 RPM	280 in-lb	215 lb	43:1	2.3 A	12 ⅛ in	6YHZ0	**2H579**	
62 RPM	235 in-lb	235 lb	29:1	2.51 A	12 ⅛ in	6YHZ0	**2H577**	
90 RPM	160 in-lb	200 lb	19:1	2.51 A	12 ⅛ in	6YHZ0	**2H575**	
165 RPM	90 in-lb	200 lb	11:1	2.51 A	12 ⅛ in	6YHZ0	**2H573**	
350 RPM	40 in-lb	170 lb	5:1	2.51 A	12 ⅛ in	6YHZ0	**2H571**	

** Gear limited.*

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: hardened steel
- Bearings: needles throughout with thrust balls on case, ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Optional mounting bracket 2H630 is sold separately on Grainger.com
- Seals: spring-loaded lip-type on input and output shafts
- Accept pulse generator 6Z392 or 5JJ65 (sold separately on Grainger.com)

2H588

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.		REPLACEMENT MOTOR BRUSH SETS Item No.
1.3 RPM	710 in-lb	900 lb	1/20	1413:1	0.36 A	9 7/8 in	**2H594**		**6YHY3**
6.5 RPM	710 in-lb	900 lb	1/6	276:1	1 A	12 1/2 in	**2H592**	*	**6YHY6**
13 RPM	660 in-lb	900 lb	1/6	138:1	1.7 A	12 1/2 in	**2H590**		**6YHY6**
15 RPM	570 in-lb	900 lb	1/6	116:1	1.7 A	12 1/2 in	**2H588**		**6YHY6**

** Gear limited.*

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: machined die-cast aluminum
- Lubrication: permanent heavy-duty gear oil
- Gears: hardened steel
- Bearings: ball and needle on case; ball on motor
- Mounting: all-position, face
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts
- Accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)

1LPY4

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6 RPM	500 in-lb	300 lb	1/11	264:1	1.1 A	8 7/8 in	**1LPY4**
12 RPM	350 in-lb	300 lb	1/10	131:1	1.1 A	8 7/8 in	**1LPY3**
29 RPM	156 in-lb	300 lb	1/10	55:1	1.1 A	8 7/8 in	**1LPY2**
42 RPM	105 in-lb	300 lb	1/10	37:1	1.1 A	8 7/8 in	**1LPY1**
61 RPM	78 in-lb	300 lb	1/10	26:1	1.1 A	8 7/8 in	**1LPX9**
152 RPM	30 in-lb	300 lb	1/10	10:1	1.1 A	8 7/8 in	**1LPX8**
Replacement Motor Brush Set							
Motor Brush Set							**6YHY6**

6Z913

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent heavy fluid gear oil
- Gears: 1st stage steel, helical; subsequent stages steel or heat-treated powdered metal spur
- Bearings: needle on case output shaft; ball on motor
- Mounting: all-position; for optional base mounting bracket 2A754 (sold separately on Grainger.com)
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded lip-type on input and output shaft
- Accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)
- Accept pulse generator 6Z392 or 5JJ65 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.	REPLACEMENT MOTOR BRUSH SETS Item No.
2.6 RPM	100 in-lb	90 lb	1/40	702:1	0.36 A	7 3/8 in	**6Z910**	**6YHY3**
5 RPM	100 in-lb	90 lb	1/40	362:1	0.36 A	7 3/8 in	**6Z911**	**6YHY3**
	160 in-lb	115 lb	1/20	362:1	0.26 A	8 in	**2H569** *	**6YHY3**
9.6 RPM	100 in-lb	90 lb	1/40	186:1	0.36 A	7 3/8 in	**6Z912**	**6YHY3**
19 RPM	150 in-lb	150 lb	1/20	96:1	0.58 A	7 3/8 in	**2H567** *	**6YHY3**
20 RPM	100 in-lb	90 lb	1/20	96:1	0.62 A	7 1/2 in	**6Z913**	**6YHY3**
37 RPM	74 in-lb	90 lb	1/20	49:1	0.62 A	7 1/2 in	**6Z914**	**6YHY3**
	150 in-lb	130 lb	1/10	49:1	1.08 A	8 3/4 in	**2H565**	**6YHY6**
71 RPM	40 in-lb	90 lb	1/20	25:1	0.62 A	7 1/2 in	**6Z915**	**6YHY3**
	83 in-lb	230 lb	1/10	25:1	1.08 A	8 3/4 in	**2H563**	**6YHY6**
139 RPM	20 in-lb	90 lb	1/20	13:1	0.62 A	7 1/2 in	**6Z916**	**6YHY3**
	42 in-lb	220 lb	1/10	13:1	1.08 A	8 3/4 in	**2H561**	**6YHY6**

** Gear limited.*

1LPL1

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease-filled
- Gears: phenolic and hardened steel
- Bearings: porous
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: O-ring type on output
- Accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
6.5 RPM	500 in-lb	250 lb	1/15	267:1	0.84 A	8 1/2 in	**1LPL1**
13 RPM	250 in-lb	250 lb	1/15	135:1	0.84 A	8 1/2 in	**1LPK8**
21 RPM	150 in-lb	250 lb	1/15	81:1	0.84 A	8 1/2 in	**1LPK5**
46 RPM	75 in-lb	250 lb	1/15	38:1	0.84 A	8 1/2 in	**1LPK6**
Replacement Motor Brush Set							
Motor Brush Set							**6YHY6**

6Z406

90VDC Permanent-Magnet Parallel-Shaft Gearmotors

- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: hardened steel; 1st stage helical, subsequent stages spur
- Bearings: heavy-duty ball and thrust balls on case, ball on motor
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Length Less Shaft	Item No.
TENV							
9 RPM	1,087 in-lb	325 lb	1/4	196:1	2 A	11 3/4 in	**6Z406**
14 RPM	960 in-lb	325 lb	1/4	131:1	2.6 A	11 3/4 in	**6Z407**
20 RPM	727 in-lb	325 lb	1/4	87:1	2.7 A	11 3/4 in	**6Z408**
43 RPM	353 in-lb	325 lb	1/4	41:1	2.7 A	11 3/4 in	**6Z409**
63 RPM	238 in-lb	325 lb	1/4	28:1	2.7 A	11 3/4 in	**6Z410**
91 RPM	152 in-lb	325 lb	1/4	19:1	2.7 A	11 3/4 in	**6Z411**
148 RPM	101 in-lb	325 lb	1/4	12:1	2.7 A	11 3/4 in	**6Z412**
TEFC							
20 RPM	1,112 in-lb	325 lb	1/2	87:1	4.2 A	14 in	**6Z413**
34 RPM	822 in-lb	325 lb	1/2	50:1	5 A	14 in	**6Z414**
40 RPM	664 in-lb	325 lb	1/2	41:1	5 A	14 in	**6Z415**
60 RPM	464 in-lb	325 lb	1/2	28:1	5 A	14 in	**6Z416**
90 RPM	305 in-lb	325 lb	1/2	19:1	5 A	14 in	**6Z417**
144 RPM	202 in-lb	325 lb	1/2	12:1	5 A	14 in	**6Z418**

Description	For Use With	Item No.
Replacement Parts		
Motor Brush Set	6Z406, 6Z407, 6Z408, 6Z409, 6Z410, 6Z411, 6Z412, 6Z413B, 6Z414B, 6Z415B, 6Z416B, 6Z417B, 6Z418B	**6YHY9**
Motor Brush and Spring Set	6Z406A,6Z407A,6Z408A,6Z409A, 6Z410A,6Z411A 6Z412A,6Z413,6Z414,6Z415,6Z416,6Z417,6Z418, 6Z413A,6Z414A,6Z415A,6Z416A,6Z417A,6Z418A	**11N180**

90 and 180VDC Permanent-Magnet Parallel-Shaft Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: hardened steel, AGMA Class 9
- Bearings: ball on motor, needle on gearbox, thrust balls throughout; oversize output bearings for greater overhung load capacity
- Mounting: all-position, except shaft up; for base mount, use optional mounting bracket 6XF03
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: spring-loaded, heavy-duty industrial

6ML51

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Dim. XL	Dim. XH	Gearmotor Voltage 90V DC Full Load Amps	90V DC Item No.	180V DC Full Load Amps	180V DC Item No.
7 RPM	330 in-lb	565 lb	⅛	336:1	11.31"	9.31"	0.7 A	**6ML63**	0.35 A	**6ML64**
14 RPM	341 in-lb	465 lb	⅛	180:1	11.31"	9.31"	1 A	**6ML65**	—	—
21 RPM	371 in-lb	413 lb	¼	124:1	13.31"	11.31"	1.1 A	**6ML67**	0.55 A	**6ML68**
27 RPM	305 in-lb	374 lb	¼	91:1	13.31"	11.31"	1.5 A	**6ML69**	0.75 A	**6ML70**
42 RPM	280 in-lb	327 lb	¼	58:1	13.31"	11.31"	2.3 A	**6ML71**	—	—
50 RPM	250 in-lb	315 lb	¼	50:1	13.31"	11.31"	2.3 A	**6ML73**	1.2 A	**6ML74**
62 RPM	220 in-lb	303 lb	¼	43:1	13.31"	11.31"	2.3 A	**6ML51**	1.2 A	**6ML52**
83 RPM	155 in-lb	267 lb	¼	29:1	13.31"	11.31"	2.3 A	**6ML53**	1.2 A	**6ML54**
125 RPM	100 in-lb	256 lb	¼	23:1	13.31"	11.31"	2 A	**6ML55**	1 A	**6ML56**
165 RPM	70 in-lb	232 lb	¼	15:1	13.31"	11.31"	2 A	**6ML57**	1 A	**6ML58**
250 RPM	45 in-lb	201 lb	¼	10:1	13.31"	11.31"	2 A	**6ML59**	1 A	**6ML60**
500 RPM	25 in-lb	194 lb	¼	5:1	13.31"	11.31"	2 A	**6ML61**	—	—

Description	Item No.
Accessories	
L-Shaped Mounting Bracket	**6XF03**
Conduit Box	**6XF02**

Motor-Mounted Speed Control

Dayton

- IP30 enclosure
- 4A max.
- Operating temp: 104°F (40°C)
- Accepts tach feedback

For 90VDC permanent magnet motors and gearmotors up to 1/6 HP. SCR controller direct-mounts to motor endbell. Features adjustable current/torque limit and maximum and minimum speed pots. Easy assembly.

Voltage Output	HP	AC Input Voltage	Speed Range	Speed Regulation	Item No.
0 to 90V DC	1/35 to ⅙	120V AC	15:1	10 to 30%	**2PUX3**

Units Compatible with 2PUX3			
1LPK5	1LRA8	2H594	4Z381
1LPK6	1LRA9	3XA77	4Z382
1LPK8	1LRB1	3XA78	4Z383
1LPL1	1LRB2	3XA79	4Z528
1LPV9	1LRB3	3XA80	6A193
1LPW1	1LRB4	3XA81	6A194
1LPW2	1Z854	3XA82	6Z910
1LPW3	1Z856	4Z128	6Z911
1LPW4	2H561	4Z129	6Z912
1LPW5	2H563	4Z130	6Z913
1LPX8	2H565	4Z131	6Z914
1LPX9	2H567	4Z132	6Z915
1LPY1	2H569	4Z133	6Z916
1LPY2	2H588	4Z134	—
1LPW3	2H590	4Z140	—
1LPY4	2H592	4Z141	—

2PUX3

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Overall Length	Mfr. Model	Item No.
720 Series, For Shaft Dia. 3/4"								
8 RPM	442 in-lb	725 lb	1/15	240:1	1 A	11 29/32 in	021-720D0240	**35TV25**
10 RPM	332 in-lb	670 lb	1/15	180:1	1 A	11 29/32 in	021-720D0180	**35TV24**
12 RPM	277 in-lb	635 lb	1/15	150:1	1 A	11 29/32 in	021-720D0150	**35TV23**
15 RPM	415 in-lb	550 lb	⅛	120:1	1.45 A	13 37/64 in	021-720D0120	**35TV22**
18 RPM	346 in-lb	525 lb	⅛	100:1	1.45 A	13 37/64 in	021-720D0100	**35TV21**
22 RPM	277 in-lb	490 lb	⅛	80:1	1.45 A	13 37/64 in	021-720D0080	**35TV20**
30 RPM	208 in-lb	455 lb	⅛	60:1	1.45 A	13 37/64 in	021-720D0060	**35TV19**
35 RPM	173 in-lb	430 lb	⅛	50:1	1.45 A	13 37/64 in	021-720D0050	**35TV18**
44 RPM	139 in-lb	400 lb	⅛	40:1	1.45 A	13 37/64 in	021-720D0040	**35TV17**
59 RPM	104 in-lb	370 lb	⅛	30:1	1.45 A	13 37/64 in	021-720D0030	**35TV16**
89 RPM	70 in-lb	330 lb	⅛	20:1	1.45 A	13 37/64 in	021-720D0020	**35TV15**
118 RPM	52 in-lb	305 lb	⅛	15:1	1.45 A	13 37/64 in	021-720D0015	**35TV14**
177 RPM	35 in-lb	270 lb	⅛	10:1	1.45 A	13 37/64 in	021-720D0010	**35TV13**
725 Series, For Shaft Dia. 1"								
10 RPM	623 in-lb	870 lb	⅛	180:1	1.6 A	15 21/64 in	021-725D0180	**35TV83**
12 RPM	519 in-lb	820 lb	⅛	150:1	1.45 A	15 21/64 in	021-725D0150	**35TV82**
15 RPM	415 in-lb	780 lb	⅛	120:1	1.45 A	15 21/64 in	021-725D0120	**35TV81**
18 RPM	346 in-lb	740 lb	⅛	100:1	1.45 A	15 21/64 in	021-725D0100	**35TV80**
22 RPM	443 in-lb	620 lb	⅓	80:1	2.24 A	14 1/64 in	021-725D0080	**35TV79**
29 RPM	332 in-lb	580 lb	⅓	60:1	2.24 A	14 1/64 in	021-725D0060	**35TV78**
35 RPM	277 in-lb	550 lb	⅓	50:1	2.24 A	14 1/64 in	021-725D0050	**35TV77**
43 RPM	222 in-lb	510 lb	⅓	40:1	2.24 A	14 1/64 in	021-725D0040	**35TV76**
58 RPM	166 in-lb	475 lb	⅓	30:1	2.24 A	14 1/64 in	021-725D0030	**35TV75**
86 RPM	111 in-lb	430 lb	⅓	20:1	2.24 A	14 1/64 in	021-725D0020	**35TV74**
115 RPM	83 in-lb	400 lb	⅓	15:1	2.24 A	14 1/64 in	021-725D0015	**35TV73**
173 RPM	55 in-lb	355 lb	⅓	10:1	2.24 A	14 1/64 in	021-725D0010	**35TV72**
730 Series, For Shaft Dia. 1-1/4"								
8 RPM	1,638 in-lb	1,120 lb	¼	240:1	3 A	16 13/32 in	021-730D0240	**35TW37**
11 RPM	1,228 in-lb	1,050 lb	¼	180:1	3 A	16 13/32 in	021-730D0180	**35TW36**
13 RPM	1,024 in-lb	1,010 lb	¼	150:1	3 A	16 13/32 in	021-730D0150	**35TW35**
16 RPM	819 in-lb	965 lb	¼	120:1	3 A	16 49/64 in	021-730D0120	**35TW34**
20 RPM	682 in-lb	910 lb	¼	100:1	3 A	16 13/32 in	021-730D0100	**35TW33**
25 RPM	546 in-lb	820 lb	⅓	80:1	3 A	16 13/32 in	021-730D0080	**35TW32**
33 RPM	409 in-lb	760 lb	⅓	60:1	3 A	16 13/32 in	021-730D0060	**35TW31**
39 RPM	341 in-lb	720 lb	⅓	50:1	3 A	16 13/32 in	021-730D0050	**35TW30**
49 RPM	273 in-lb	675 lb	⅓	40:1	3 A	16 13/32 in	021-730D0040	**35TW29**
65 RPM	205 in-lb	625 lb	⅓	30:1	3 A	16 13/32 in	021-730D0030	**35TW28**
98 RPM	136 in-lb	565 lb	⅓	20:1	3 A	16 13/32 in	021-730D0020	**35TW27**
131 RPM	102 in-lb	520 lb	⅓	15:1	3 A	16 13/32 in	021-730D0015	**35TW26**
196 RPM	68 in-lb	465 lb	⅓	10:1	3 A	16 13/32 in	021-730D0010	**35TW25**

35TV25

BISON PowerSTAR

90VDC Hypoid Hollow-Shaft Right-Angle Gearmotors

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: extreme pressure grease
- Gears: hardened steel hypoid
- Bearings: ball
- Mounting: all position
- Rotation: reversible
- Brushes: externally replaceable
- Max. ambient: 40°C

PowerSTAR compact design delivers higher torque at improved efficiencies for packaging and light-to medium-duty conveying applications. Lightweight aluminum shell keeps unit running cool, while ground gearing provides quiet, precise, low backlash operation. 12 and 24VDC gearmotors are available on Grainger.com.

Description	720 Series Mfr. Model	720 Series Item No.	725 Series Mfr. Model	725 Series Item No.	730 Series Mfr. Model	730 Series Item No.
Accessories						
Output Shaft Cover	P171-720-1000W	**24MA51**	P171-725-1020W	**24MA52**	P171-730-1000W	**24MA53**
Mounting Plate	P125-720-1000W	**24MA54**	P125-725-1000W	**24MA55**	P125-730-1000W	**24MA56**
Torque Arm	P125-720-1030W	**24MA57**	P125-725-1030W	**24MA58**	P125-730-1030W	**24MA59**
Output Shaft Insert	P108-720-5000W	**24MA60**	P108-725-5000W	**24MA61**	P108-730-5000W	**24MA62**

1LRA8

90VDC Permanent-Magnet Right-Angle Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: grease packed
- Gears: input gear steel; worm hardened steel; output gear cast iron
- Bearings: bronze sleeve on case, ball on motor
- Mounting: all-position, base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: on output shaft
- Gear limited
- Units are compatible with speed control 2PUX3 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
3 RPM	250 in-lb	100 lb	1/20	525:1	0.59 A	**1LRA8**
6 RPM	177 in-lb	100 lb	1/20	275:1	0.59 A	**1LRA9**
10 RPM	228 in-lb	100 lb	1/20	161:1	0.59 A	**1LRB1**
24 RPM	102 in-lb	100 lb	1/20	70:1	0.59 A	**1LRB2**
45 RPM	56 in-lb	100 lb	1/20	37:1	0.59 A	**1LRB4**
90 RPM	34 in-lb	100 lb	1/10	37:1	1.14 A	**1LRB3**
Replacement Motor Brush Set						
Motor Brush Set						**6YHY6**

3XA77

90VDC Permanent-Magnet Hollow-Shaft Right-Angle Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast aluminum
- Lubrication: permanent, heavy fluid gear oil
- Gears: worm-hardened steel, output gear bronze alloy
- Bearings: ball on output and motor
- Mounting: all-position, base
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Reversible shaft output
- Seals: lip-type on input and output shafts
- 1/8-HP units accept direct motor-mount speed control 2PUX3 (sold separately on Grainger.com)
- Accept pulse generator 6Z392 or 5JJ65 (sold separately on Grainger.com)

Nameplate RPM	Max. Torque	Overhung Load	Input HP	Gear Ratio	Full Load Amps	Item No.
30 RPM	94 in-lb	175 lb	1/8	60:1	1.28 A	**3XA82**
40 RPM	82 in-lb	175 lb	1/8	45:1	1.28 A	**3XA81**
60 RPM	60 in-lb	175 lb	1/8	30:1	1.28 A	**3XA80**
	120 in-lb	175 lb	1/4	30:1	2.33 A	**3XA86**
90 RPM	49 in-lb	175 lb	1/8	20:1	1.28 A	**3XA79**
	100 in-lb	175 lb	1/4	20:1	2.33 A	**3XA85**
180 RPM	27 in-lb	175 lb	1/8	10:1	1.28 A	**3XA78**
	55 in-lb	175 lb	1/4	10:1	2.33 A	**3XA84**
360 RPM	14 in-lb	175 lb	1/8	5:1	1.28 A	**3XA77**
	30 in-lb	175 lb	1/4	5:1	2.33 A	**3XA83**
Replacement Motor Brush Set						
Motor Brush Set						**6YHY6**

5LAE8

12, 24, and 90VDC Right-Angle Gearmotors

Dayton

- Enclosure: totally enclosed nonventilated
- Gearcase: die-cast zinc
- Lubrication: heavy gear oil
- Gears: metal
- Bearings: needle roller
- Mounting: all-position
- Rotation: reversible
- Brushes: externally replaceable
- Ambient: 40°C
- Seals: lip-type on input and output shafts

					GEARMOTOR VOLTAGE 12V DC			24V DC			90V DC		
Max. Torque	Overhung Load	Input HP	Gear Ratio	Length Less Shaft	Nameplate RPM	Full Load Amps	Item No.	Nameplate RPM	Full Load Amps	Item No.	Nameplate RPM	Full Load Amps	Item No.
280 in-lb	175 lb	1/8	82:1	11 3/4 in	20 RPM	10.4 A	**5LAF4**	20 RPM	5.2 A	**5LAG0**	22 RPM	1.41 A	**5LAE8**
266 in-lb	175 lb	1/8	60:1	11 3/4 in	—	—	— —	26 RPM	6.3 A	**5LAG1**	30 RPM	1.72 A	**5LAE9**
196 in-lb	175 lb	1/8	44:1	11 3/4 in	—	—	— —	36 RPM	6.3 A	**5LAG2**	40 RPM	1.72 A	**5LAF0**
165 in-lb	175 lb	1/8	28:1	11 3/4 in	54 RPM	16 A	**5LAF7**	54 RPM	8 A	**5LAG3**	—	—	— —
123 in-lb	175 lb	1/8	28:1	11 3/4 in	—	—	— —	—	—	— —	64 RPM	1.72 A	**5LAF1**
137 in-lb	175 lb	1/8	23:1	11 3/4 in	—	—	— —	65 RPM	8 A	**5LAG4**	—	—	— —
103 in-lb	175 lb	1/8	23:1	11 3/4 in	—	—	— —	—	—	— —	77 RPM	1.73 A	**5LAF2**
63 in-lb	175 lb	1/8	10:1	11 3/4 in	150 RPM	16 A	**5LAF9**	150 RPM	8 A	**5LAG5**	—	—	— —
47 in-lb	175 lb	1/8	10:1	11 3/4 in	—	—	— —	—	—	— —	177 RPM	2.01 A	**5LAF3**

Description	For Use With	Item No.
Motor Brush		
12 and 24VDC Motor Brush Set	5LAF4 thru 5LAF9, 5LAG0 thru 5LAG5	**33K907**
90VDC Motor Brush Set	5LAE8, 5LAE9, 5LAF0 thru 5LAF3	**33K906**

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	SHAFT OUTPUT ASSEMBLY Left Item No.	Right Item No.	Double Output Item No.
29 RPM	56C	1.33 in	60:1	0.25 hp	309 in-lb	4Z284	4RN71	4Z001
	56C	1.54 in	60:1	0.25 hp	280 in-lb	4RN80	4RN88	4RN96
	56C	1.75 in	60:1	0.3 hp	415 in-lb	4Z292	3GD39	4RP05
	56C	2.06 in	60:1	0.5 hp	636 in-lb	4Z300	4RP13	4Z008
	56C	2.37 in	60:1	0.5 hp	663 in-lb	4RP21	4RP28	4RP35
	56C	2.62 in	60:1	0.75 hp	1,021 in-lb	4Z730	3GD47	4RP42
	56C	3 in	60:1	0.75 hp	1,034 in-lb	4RP50	4RP58	4RP66
	56C	3.25 in	60:1	1 hp	1,371 in-lb	3GD55	4RP74	4Z015
35 RPM	56C	1.33 in	50:1	0.25 hp	225 in-lb	4Z285	4RN72	4RN79
	56C	1.54 in	50:1	0.25 hp	267 in-lb	4RN81	4RN89	4RN97
	56C	1.75 in	50:1	0.5 hp	449 in-lb	4Z293	3GD40	4RP06
	56C	2.06 in	50:1	0.5 hp	581 in-lb	4Z301	4RP14	—
	56C	2.37 in	50:1	0.5 hp	582 in-lb	4RP22	4RP29	4RP36
	56C	2.62 in	50:1	0.75 hp	895 in-lb	4Z731	3GD48	4RP43
	56C	3 in	50:1	1 hp	1,233 in-lb	4RP51	4RP59	4RP67
	56C	3.25 in	50:1	1.5 hp	1,857 in-lb	3GD56	4RP75	6Z130
44 RPM	56C	1.33 in	40:1	0.25 hp	220 in-lb	4Z286	4RN73	4Z002
	56C	1.54 in	40:1	0.3 hp	310 in-lb	4RN82	4RN90	4RN98
	56C	1.75 in	40:1	0.5 hp	477 in-lb	4Z294	3GD41	4RP07
	56C	2.06 in	40:1	0.5 hp	492 in-lb	4Z302	4RP15	4Z009
	56C	2.37 in	40:1	0.75 hp	758 in-lb	4RP23	4RP30	4RP37
	56C	2.62 in	40:1	1 hp	1,028 in-lb	4Z732	3GD49	4RP44
	56C	3 in	40:1	1 hp	1,011 in-lb	4RP52	4RP60	4RP68
	56C	3.25 in	40:1	1.5 hp	1,563 in-lb	3GD57	4RP76	4Z016
58 RPM	56C	1.33 in	30:1	0.3 hp	233 in-lb	4Z287	4RN74	4Z003
	56C	1.54 in	30:1	0.3 hp	248 in-lb	4RN83	4RN91	4RN99
	56C	1.75 in	30:1	0.5 hp	401 in-lb	4Z295	3GD42	4RP08
	56C	2.06 in	30:1	0.75 hp	610 in-lb	4Z303	4RP16	4Z010
	56C	2.37 in	30:1	1 hp	809 in-lb	4RP24	4RP31	4RP38
	56C	2.62 in	30:1	1.5 hp	983 in-lb	4Z733	3GD50	4RP45
	56C	3 in	30:1	1.5 hp	1,245 in-lb	4RP53	4RP61	4RP69
	56C	3.25 in	30:1	2 hp	1,689 in-lb	3GD58	4RP77	4Z017
88 RPM	56C	1.33 in	20:1	0.5 hp	212 in-lb	4Z288	4RN75	4Z004
	56C	1.54 in	20:1	0.5 hp	280 in-lb	4RN84	4RN92	4RP01
	56C	1.75 in	20:1	0.75 hp	436 in-lb	4Z296	3GD43	4RP09
	56C	2.06 in	20:1	1 hp	586 in-lb	4Z304	4RP17	4Z011
	56C	2.37 in	20:1	1.5 hp	892 in-lb	4RP25	4RP32	4RP39
	56C	2.62 in	20:1	1.5 hp	891 in-lb	4Z734	3GD51	4RP46
	140TC/180C	3 in	20:1	2 hp	1,204 in-lb	4RP54	4RP62	4RP70
	180TC/210C	3.25 in	20:1	3 hp	1,816 in-lb	3GD59	4RP78	4Z018
117 RPM	56C	1.33 in	15:1	0.5 hp	203 in-lb	4Z289	4RN76	4Z005
	56C	1.54 in	15:1	0.5 hp	218 in-lb	4RN85	4RN93	4RP02
	56C	1.75 in	15:1	1 hp	430 in-lb	4Z297	3GD44	4RP10
	56C	2.06 in	15:1	1.5 hp	614 in-lb	4Z305	4RP18	4Z012
	56C	2.37 in	15:1	1.5 hp	686 in-lb	4RP26	4RP33	4RP40
	56C	2.62 in	15:1	2 hp	925 in-lb	4Z735	3GD52	4RP47
	140TC/180C	3 in	15:1	3 hp	1,405 in-lb	4RP55	4RP63	4RP71
	180TC/210C	3.25 in	15:1	3 hp	1,407 in-lb	3GD60	4RP79	4Z019
175 RPM	56C	1.33 in	10:1	0.75 hp	182 in-lb	4Z290	4RN77	4Z006
	56C	1.54 in	10:1	0.75 hp	233 in-lb	4RN86	4RN94	4RP03
	56C	1.75 in	10:1	1.5 hp	407 in-lb	4Z298	3GD45	4RP11
	56C	2.06 in	10:1	2 hp	554 in-lb	4Z306	4RP19	4Z013
	56C	2.37 in	10:1	2 hp	651 in-lb	4RP27	4RP34	4RP41
	56C	2.62 in	10:1	3 hp	972 in-lb	4Z736	3GD53	4RP48
	180TC/210C	3 in	10:1	3 hp	970 in-lb	4RP56	4RP64	4RP72
	180TC/210C	3.25 in	10:1	5 hp	1,629 in-lb	3GD61	4RP80	4Z020

** @ 1750 rpm.*

Left Shaft Assembly 4Z292

Dayton®

C-Face Right-Angle Speed Reducers and Bases

- 29 to 350 rpm, continuous duty
- All-position mounting with optional bases, except input motor shaft up
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Double-lipped and spring-loaded shaft seals; large oil sump

Interchangeable with most Grove (Flexaline) and Ohio (Uniline) reducers. Thread-rolled and hardened alloy steel worm for higher strength and lower power loss; forged bronze and hardened worm gear. Ball bearings on input shaft, tapered roller bearings on output shaft. Cast-iron housing. For low-speed/high-torque applications when coupled to a NEMA 56C-Face, 1750-rpm motor (not included).

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	SHAFT OUTPUT ASSEMBLY Left Item No.	Right Item No.	Double Output Item No.
350 RPM	56C	1.33 in	5:1	1 hp	163 in-lb	4Z291	4RN78	4Z007
	56C	1.54 in	5:1	1 hp	163 in-lb	4RN87	4RN95	4RP04
	56C	1.75 in	5:1	2 hp	276 in-lb	4Z299	3GD46	4RP12
	56C	2.06 in	5:1	2 hp	329 in-lb	4Z307	4RP20	4Z014
	56C	2.62 in	5:1	3 hp	496 in-lb	4Z737	3GD54	4RP49
	180TC/210C	3 in	5:1	5 hp	834 in-lb	4RP57	4RP65	4RP73
	210TC/250UC	3.25 in	5:1	7.5 hp	1,260 in-lb	3GD62	4RP81	4Z021

Worm Center Distance	Bolt Hole Dia.	HORIZONTAL Item No.	VERTICAL Item No.
Mounting Bases			
1.33 in	0.34 in	6X499	6X502
1.54 in	0.41 in	4RN65	4RN68
1.75 in	0.41 in	6X093	6X094
2.06 in	0.47 in	6X500	6X503
2.37 in	0.47 in	4RN66	4RN69
2.62 in	0.53 in	1A507	1A508
3 in	0.53 in	4RN67	4RN70
3.25 in	0.53 in	6X501	6X504

Dayton®

Dayton C-Face Right-Angle Speed Reducer Dimensional Drawings

Right- and left-hand shafts are determined while facing reducer C-Face input.

Motor Frame No.	Dimensions P	P1	R	S	T	U	Input Shaft Bore	Keyway
56C	0.44"	N"	6.62"	5.88"	4.5"	0.41"	0.625"	0.188 x 1.38"
140TC	0.44"	N"	6.62"	5.88"	4.5"	0.41"	0.875"	0.188 x 1.38"
180TC	N"	0.56"	9.26"	7.25"	8.5"	0.53"	1.125"	0.250 x 1.13"
210TC	N"	0.56"	9.00"	7.25"	8.5"	0.53"	1.375"	0.313 x 1.38"

Worm Center Distance	Overhung Load	Dimensions A	B	D	E	F	G	H	J	AN	M	Output Shaft N	W	Keyway	56C/ 140TC O	182TC/184TC 213TC/215TC O1
1.33"	275"	3.50"	4.25"	3.00"	3.00"	¼-20"	4.94"	1.75"	1.33"	2.13"	4.38"	0.625"	2.00"	0.188 x 1.25"	3.94	—
1.54"	388"	3.69"	5.13"	2.75"	4.19"	5/16-18"	5.38"	1.91"	1.54"	2.56"	4.31"	0.750"	1.78"	0.188 x 1.14"	4.50	—
1.75"	700"	3.69"	5.50"	2.75"	4.19"	5/16-18"	5.75"	2.06"	1.75"	2.75"	4.31"	0.875"	1.78"	0.188 x 1.14"	4.69	—
2.06"	875"	3.81"	6.00"	3.00"	4.75"	5/16-18"	6.38"	2.28"	2.06"	3.00"	4.69"	1.000"	2.09"	0.250 x 1.32"	5.06	—
2.37"	845"	4.06"	6.38"	2.88"	5.00"	3/8-16"	6.94"	2.50"	2.37"	3.19"	5.08"	1.125"	2.37"	0.250 x 1.64"	5.25	—
2.62"	1300"	4.44"	7.38"	3.38"	6.38"	3/8-16"	8.00"	2.94"	2.63"	3.69"	5.63"	1.250"	2.63"	0.250 x 1.93"	5.75	—
3.00"	967"	5.25"	8.12"	4.00"	7.00"	7/16-14"	8.88"	3.25"	3.00"	4.06"	6.75"	1.250"	3.25"	0.250 x 2.31"	6.20	—
3.25"	1500"	5.88"	9.00"	4.00"	7.50"	7/16-14"	9.38"	3.50"	3.25"	5.03"	7.06"	1.500"	3.25"	0.375 x 2.50"	6.56	7.00

Scan. Order. Done.
Details on page A1.

1L295

C-Face Right-Angle Speed Reducers and Bases

Boston Gear

- Left output shaft
- All-position mounting (mounting bases sold separately)
- Shipped without oil, use 34K212 (sold separately on Grainger.com)

Heavy-duty worm gear speed reducers with long-life seals have value-engineered features for flexible installation and simplified maintenance. Integral input worm and shaft of case-hardened alloy steel. Oversize ball and roller bearings for maximum performance. Fine-grain cast-iron housing.

Note: Models with stainless steel housing are available on Grainger.com.

Nominal Output RPM*	NEMA Frame	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
29 RPM	56C	1.75 in	60:1	0.3 hp	440 in-lb	F718-60-B5-G	**1L295**
	56C	2.06 in	60:1	0.5 hp	670 in-lb	F721-60-B5-G	**1L324**
	56C	2.38 in	60:1	0.5 hp	670 in-lb	F724-60-B5-G	**1L329**
	56C	2.62 in	60:1	0.75 hp	1,004 in-lb	F726-60-B5-G	**1L370**
	140TC/180C	3.75 in	60:1	2 hp	2,678 in-lb	F738-60E-B7-G	**1L869**
	180TC/210C	5.15 in	60:1	5 hp	7,392 in-lb	RF752-60E-B9-G	**1L878**
35 RPM	42CZ	1 in	50:1	0.16 hp	120 in-lb	F710-50-B4-G	**1L237**
	56C	1 in	50:1	0.16 hp	120 in-lb	F710-50-B5-G	**1L251**
	56C	1.33 in	50:1	0.16 hp	205 in-lb	F713-50-B5-G	**1L269**
	56C	1.54 in	50:1	0.25 hp	315 in-lb	F715-50-B5-G	**1L282**
	56C	1.75 in	50:1	0.3 hp	420 in-lb	F718-50-B5-G	**1L296**
	56C	2.06 in	50:1	0.5 hp	630 in-lb	F721-50-B5-G	**1L325**
	56C	2.62 in	50:1	1 hp	1,260 in-lb	F726-50-B5-G	**1L363**
	56C	3.25 in	50:1	2 hp	2,520 in-lb	F732-50E-B5-G	**1L858**
44 RPM	42CZ	1 in	40:1	0.16 hp	128 in-lb	F710-40-B4-G	**1L238**
	56C	1 in	40:1	0.16 hp	128 in-lb	F710-40-B5-G	**1L252**
	56C	1.33 in	40:1	0.16 hp	178 in-lb	F713-40-B5-G	**1L270**
	56C	1.54 in	40:1	0.3 hp	355 in-lb	F715-40-B5-G	**1L283**
	56C	1.75 in	40:1	0.3 hp	355 in-lb	F718-40-B5-G	**1L297**
	56C	2.06 in	40:1	0.5 hp	533 in-lb	F721-40-B5-G	**1L326**
	56C	2.38 in	40:1	1 hp	1,206 in-lb	F724-40-B5-G	**1L331**
	56C	2.62 in	40:1	1 hp	1,066 in-lb	F726-40-B5-G	**1L364**
	140TC/180C	3.25 in	40:1	2 hp	2,131 in-lb	F732-40E-B7-G	**1L857**
58 RPM	42CZ	1 in	30:1	0.16 hp	139 in-lb	F710-30-B4-G	**1L239**
	56C	1.33 in	30:1	0.25 hp	208 in-lb	F713-30-B5-G	**1L271**
	56C	1.54 in	30:1	0.3 hp	277 in-lb	F715-30-B5-G	**1L284**
	56C	1.75 in	30:1	0.5 hp	416 in-lb	F718-30-B5-G	**1L298**
	56C	2.06 in	30:1	0.75 hp	624 in-lb	F721-30-B5-G	**1L327**
	56C	2.38 in	30:1	1 hp	832 in-lb	F724-30-B5-G	**1L332**
	56C	2.62 in	30:1	1.5 hp	1,247 in-lb	F726-30-B5-G	**1L366**
	140TC/180C	2.62 in	30:1	1.5 hp	1,247 in-lb	F726-30-B7-G	**1L365**
70 RPM	56C	1.33 in	25:1	0.3 hp	234 in-lb	F713-25-B5-G	**1L272**
	56C	1.54 in	25:1	0.5 hp	350 in-lb	F715-25-B5-G	**1L285**
	56C	1.75 in	25:1	0.5 hp	350 in-lb	F718-25-B5-G	**1L299**
	56C	2.06 in	25:1	1 hp	702 in-lb	F721-25-B5-G	**1L328**
	56C	2.38 in	25:1	1.5 hp	1,056 in-lb	F724-25-B5-G	**1L333**
	140TC/180C	2.38 in	25:1	1.5 hp	1,056 in-lb	F724-25-B7-G	**1L349**
88 RPM	42CZ	1 in	20:1	0.25 hp	130 in-lb	F710-20-B4-G	**1L240**
	56C	1 in	20:1	0.25 hp	130 in-lb	F710-20-B5-G	**1L254**
	56C	1.33 in	20:1	0.5	308 in-lb	F713-20-B5-G	**1L273**
	56C	1.54 in	20:1	0.5 hp	295 in-lb	F715-20-B5-G	**1L286**
	56C	1.75 in	20:1	0.75 hp	443 in-lb	F718-20-B5-G	**1L300**
	56C	2.06 in	20:1	1 hp	590 in-lb	F721-20-B5-G	**1L318**
117 RPM	56C	1.75 in	15:1	1 hp	422 in-lb	F718-15-B5-G	**1L292**
	56C	1.33 in	15:1	0.5 hp	232 in-lb	F713-15-B5-G	**1L267**
175 RPM	56C	1.54 in	10:1	1 hp	320 in-lb	F715-10-B5-G	**1L288**
	56C	1.33 in	10:1	0.75 hp	240 in-lb	F713-10-B5-G	**1L268**
	56C	2.06 in	10:1	1 hp	320 in-lb	F721-10-B5-G	**1L321**
	56C	1.75 in	10:1	1.5 hp	460 in-lb	F718-10-B5-G	**1L293**
	140TC/180C	2.06 in	10:1	2 hp	640 in-lb	F721-10-B7-G	**1L320**
350 RPM	56C	1.33 in	5:1	1 hp	164 in-lb	F713-5-B5-G	**1L266**

** @ 1750 rpm.*

Reducer Model	Worm Center Distance	Base Mounting Hole Pattern Width	Base Mounting Hole Pattern Length	Base Width	Base Length	Item No.
Cast Iron Mounting Bases						
710	1.0 in	2.88 in	3.75 in	3.69 in	4.63 in	**4NY17**
713	1.33 in	3.31 in	4.38 in	4.19 in	5.38 in	**4YA78**
715	1.54 in	4.31 in	5.25 in	5.44 in	6.44 in	**4YA79**
718	1.75 in	4.5 in	5.75 in	5.69 in	7.0 in	**4YA80**
721	2.06 in	4.69 in	6.38 in	5.94 in	7.75 in	**4YA81**
724	2.38 in	4.88 in	7.06 in	6.19 in	8.5 in	**4YA82**
726	2.62 in	5.25 in	8.0 in	6.66 in	9.63 in	**4YA83**

Boston Gear C-Face Right-Angle Speed Reducer Dimensional Drawings

Boston Gear

Right- and left-hand shafts are determined while facing reducer C-Face input.

Reducer Model	Worm Center Distance	Overhung Load	A	B: 42CZ	B: 56C 140TC	B: 180TC 210TC	B: 180TC 210TC 250TC	E	F	H1	X	Y	Tap Size	Depth	Output Shaft: OD1	OU	ONW	Keyway
710	1.00"	150 lb.	2.50"	4.78"	5.56"	—	—	3.34"	3.25"	3.63"	1.69"	2.63"	¼-20"	0.44"	1.31"	0.500"	1.19"	⅛ x ⅝"
713	1.33"	200 lb.	2.88"	—	6.06"	—	—	4.30"	4.25"	4.64"	2.00"	3.25"	5/16-18"	0.50"	1.72"	0.625"	2.00"	3/16 x 1"
715	1.54"	300 lb.	3.69"	—	7.06"	—	—	5.06"	5.13"	5.38"	2.75"	4.19"	5/16-18"	0.50"	1.91"	0.750"	1.78"	3/16 x 1"
718	1.75"	600 lb.	3.69"	—	7.44"	—	—	5.03"	5.50"	5.75"	2.75"	4.19"	5/16-18"	0.50"	2.06"	0.875"	1.78"	3/16 x 1"
721	2.06"	700 lb.	3.81"	—	8.06"	—	—	5.19"	6.00"	6.38"	2.88"	5.00"	⅜-16"	0.56"	2.28"	1.000"	2.09"	¼ x 1¼"
724	2.38"	900 lb.	4.06"	—	8.44"	8.88"	—	5.43"	6.38"	6.94"	2.88"	5.00"	⅜-16"	0.56"	2.50"	1.125"	2.38"	¼ x 1¼"
726	2.62"	1000 lb.	4.44"	—	9.44"	9.88"	—	5.90"	7.38"	8.00"	3.38"	6.38"	⅜-16"	0.56"	2.94"	1.125"	2.63"	¼ x 1 5/16"
732	3.25"	1300 lb.	5.88"	—	11.06"	11.50"	—	7.56"	9.00"	9.38"	4.00"	7.50"	7/16-14"	0.66"	3.50"	1.375"	3.25"	5/16 x 2 7/16"
738	3.75"	2000 lb.	6.38"	—	12.06"	12.50"	—	8.38"	10.00"	10.44"	4.75"	8.50"	½-13"	0.81"	3.88"	1.625"	3.50"	⅜ x 2¼"
752	5.16"	2200 lb.	7.38"	—	—	—	22.56"	9.65"	13.13"	13.75"	5.81"	11.00"	⅝-11"	1.00"	5.31"	2.000"	4.16"	½ x 2 15/16"

2Z154

C-Face Right-Angle Speed Reducers

Dayton

- 29 to 173 output rpm, continuous duty
- Double-output shaft
- Horizontal floor or ceiling mount
- 2.63" worm center distance
- Shipped with Klübersynth UH1 6-460 gear oil 34K212 (sold separately on Grainger.com)
- Ball bearings

For use with ¼ to ¾ HP, NEMA 56C, 1725 rpm motors. Case-hardened, ball bearing-supported worm. High-strength bronze, tapered roller bearing-supported output gear. Cast-iron housing.

Nominal Output RPM*	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
29 RPM	1,117 lb	60:1	0.5 hp	537 in-lb	**6Z128**
35 RPM	986 lb	50:1	0.5 hp	498 in-lb	**2Z151**
43 RPM	870 lb	40:1	0.5 hp	431 in-lb	**6Z129**
69 RPM	679 lb	25:1	0.75 hp	492 in-lb	**2Z152**
86 RPM	629 lb	20:1	0.75 hp	422 in-lb	**2Z153**
138 RPM	487 lb	12.5:1	0.75 hp	292 in-lb	**2Z154**
173 RPM	432 lb	10:1	0.75 hp	226 in-lb	**2Z936**

** @ 1725 rpm.*

Nominal Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nominal Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
17 RPM	56C	2.38 in	1,025 lb	100:1	0.25 hp	533 in-lb	E24MWNS	**4GAN8**
	56C	2.63 in	1,025 lb	100:1	0.3 hp	744 in-lb	E26MWNS	**4GAN9**
	56C	3.5 in	2,130 lb	100:1	0.5 hp	1,243 in-lb	E35MWNS	**4GAP1**
22 RPM	56C	2.38 in	1,025 lb	80:1	0.3 hp	638 in-lb	E24MWNS	**4GAP2**
	56C	2.63 in	1,025 lb	80:1	0.5 hp	979 in-lb	E26MWNS	**4GAP3**
	56C	3.5 in	2,130 lb	80:1	1 hp	2,146 in-lb	E35MWNS	**4GAP4**
29 RPM	56C	1.33 in	290 lb	60:1	0.16 hp	181 in-lb	E13MWNS	**4GAP5**
	56C	1.75 in	650 lb	60:1	0.25 hp	386 in-lb	E17MWNS	**4GAP6**
	56C	2 in	650 lb	60:1	0.3 hp	528 in-lb	E20MWNS	**4GAP7**
	56C	2.38 in	1,025 lb	60:1	0.5 hp	810 in-lb	E24MWNS	**4GAP8**
	56C/140TC	2.63 in	1,025 lb	60:1	0.75 hp	1,268 in-lb	E26MWNS	**4GAP9**
	56C/140TC	3 in	1,350 lb	60:1	1 hp	1,766 in-lb	E30MWNS	**4GAR1**
	140TC	3.5 in	2,130 lb	60:1	2 hp	3,573 in-lb	E35MWNS	**4GAR2**
35 RPM	56C	1.33 in	290 lb	50:1	0.16 hp	209 in-lb	E13MWNS	**4GAR3**
	56C	1.75 in	650 lb	50:1	0.3 hp	449 in-lb	E17MWNS	**4GAR4**
	56C	2 in	650 lb	50:1	0.5 hp	706 in-lb	E20MWNS	**4GAR5**
	56C	2.38 in	1,025 lb	50:1	0.75 hp	1,083 in-lb	E24MWNS	**4GAR6**
	56C/140TC	2.63 in	1,025 lb	50:1	1 hp	1,481 in-lb	E26MWNS	**4GAR7**
	56C/140TC	3 in	1,350 lb	50:1	1.5 hp	2,305 in-lb	E30MWNS	**4GAR8**
	140TC	3.5 in	2,130 lb	50:1	2 hp	3,076 in-lb	E35MWNS	**4GAR9**
43 RPM	56C	1.33 in	290 lb	40:1	0.25 hp	256 in-lb	E13MWNS	**4GAT1**
	56C	1.75 in	650 lb	40:1	0.5 hp	580 in-lb	E17MWNS	**4GAT2**
	56C	2 in	650 lb	40:1	0.5 hp	585 in-lb	E20MWNS	**4GAT3**
	56C	2.38 in	1,025 lb	40:1	1 hp	1,203 in-lb	E24MWNS	**4GAT4**
	56C/140TC	2.63 in	1,025 lb	40:1	1 hp	1,223 in-lb	E26MWNS	**4GAT5**
	56C/140TC	3 in	1,350 lb	40:1	2 hp	2,516 in-lb	E30MWNS	**4GAT6**
	56C/140TC	3.5 in	2,130 lb	40:1	3 hp	3,787 in-lb	E35MWNS	**4GAT7**
58 RPM	56C	1.33 in	290 lb	30:1	0.3 hp	276 in-lb	E13MWNS	**4GAT8**
	56C	1.75 in	650 lb	30:1	0.5 hp	452 in-lb	E17MWNS	**4GAT9**
	56C	2 in	650 lb	30:1	0.75 hp	687 in-lb	E20MWNS	**4GAU1**
	56C	2.38 in	1,025 lb	30:1	1 hp	938 in-lb	E24MWNS	**4GAU2**
	56C/140TC	2.63 in	1,025 lb	30:1	1.5 hp	1,427 in-lb	E26MWNS	**4GAU3**
	56C/140TC	3 in	1,350 lb	30:1	2 hp	1,937 in-lb	E30MWNS	**4GAU4**
	140TC	3.5 in	2,130 lb	30:1	3 hp	2,906 in-lb	E35MWNS	**4GAU6**
	180TC	3 in	1,350 lb	30:1	2 hp	1,937 in-lb	E30MWNS	**4GAU5**
	180TC	3.5 in	2,130 lb	30:1	3 hp	2,906 in-lb	E35MWNS	**4GAU7**
86 RPM	56C	1.33 in	290 lb	20:1	0.3 hp	202 in-lb	E13MWNS	**4GAU8**
	56C	1.75 in	650 lb	20:1	0.75 hp	482 in-lb	E17MWNS	**4GAU9**
	56C/140TC	2 in	650 lb	20:1	1 hp	650 in-lb	E20MWNS	**4GAV1**
	56C/140TC	2.38 in	1,025 lb	20:1	2 hp	1,311 in-lb	E24MWNS	**4GAV2**
	56C/140TC	2.63 in	1,025 lb	20:1	2 hp	1,322 in-lb	E26MWNS	**4GAV3**
	56C/140TC	3 in	1,350 lb	20:1	3 hp	2,009 in-lb	E30MWNS	**4GAV4**
	180TC	3 in	1,350 lb	20:1	3 hp	2,009 in-lb	E30MWNS	**4GAV5**
	180TC	3.5 in	2,130 lb	20:1	5 hp	3,334 in-lb	E35MWNS	**4GAV6**
115 RPM	56C	1.33 in	290 lb	15:1	0.5 hp	238 in-lb	E13MWNS	**4GAV7**
	56C/140TC	1.75 in	650 lb	15:1	1 hp	494 in-lb	E17MWNS	**4GAV8**
	56C/140TC	2 in	650 lb	15:1	1.5 hp	749 in-lb	E20MWNS	**4GAV9**
	56C/140TC	2.38 in	1,025 lb	15:1	2 hp	1,003 in-lb	E24MWNS	**4GAW1**
	56C/140TC	2.63 in	1,025 lb	15:1	3 hp	1,512 in-lb	E26MWNS	**4GAW2**
	56C/145TC	3 in	1,350 lb	15:1	5 hp	2,542 in-lb	E30MWNS	**4GAW3**
	180TC	3 in	1,350 lb	15:1	5 hp	2,542 in-lb	E30MWNS	**4GAW4**
	180TC	3.5 in	2,130 lb	15:1	5 hp	2,542 in-lb	E35MWNS	**4GAW5**
172 RPM	56C	1.33 in	290 lb	10:1	0.75 hp	248 in-lb	E13MWNS	**4GAW6**
	56C/140TC	1.75 in	650 lb	10:1	1.5 hp	507 in-lb	E17MWNS	**4GAW7**
	56C/140TC	2 in	650 lb	10:1	2 hp	687 in-lb	E20MWNS	**4GAW8**
	56C/140TC	2.38 in	895 lb	10:1	3 hp	1,021 in-lb	E24MWNS	**4GAW9**
	56C/140TC	2.63 in	895 lb	10:1	3 hp	1,027 in-lb	E26MWNS	**4GAX1**
	180TC	3 in	1,298 lb	10:1	5 hp	1,722 in-lb	E30MWNS	**4GAX2**
345 RPM	56C	1.33 in	290 lb	5:1	1 hp	171 in-lb	E13MWNS	**4GAX3**
	56C/140TC	1.75 in	572 lb	5:1	2 hp	344 in-lb	E17MWNS	**4GAX4**
	56C/140TC	2 in	572 lb	5:1	3 hp	518 in-lb	E20MWNS	**4GAX5**
	56C/140TC	2.38 in	748 lb	5:1	5 hp	863 in-lb	E24MWNS	**4GAX6**
	180TC	2.63 in	748 lb	5:1	7.5 hp	1,299 in-lb	E26MWNS	**4GAX7**

** @ 1725 rpm. † To complete Mfr. Model No., add Nominal Ratio and NEMA Frame information.*

4GAP6

1L382

C-Face Right-Angle Speed Reducers and Bases

WINSMITH HIGH QUALITY SPEED REDUCERS

- Interchangeable with Winsmith MDNS models
- Double-shaft assembly
- Filled with Mobil Glygoyle 460 synthetic lubricant

Black coating system is scratch resistant and suitable for washdown and outdoor applications. Exceeds ASTM B-117, 1000-hr. salt spray test. Shaft slingers prevent contaminants from contacting oil seals. Open/close vent. Can be mounted with or without optional base using predrilled and tapped holes. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas.

Worm Center Distance	Bolt Hole Dia.	Base Mounting Hole Pattern Length	Base Mounting Hole Pattern Width	Base Thickness	Mfr. Model	Item No.
Top Bases						
1.33 in	0.41 in	4.0 in	2.5 in	0.25 in	E13WB	**1L382**
1.75 in	0.41 in	4.0 in	3.5 in	0.5 in	E17WB	**1L402**
2 in	0.41 in	4.0 in	3.5 in	0.25 in	E20WB	**1L383**
2.38 in	0.56 in	5.75 in	4.5 in	0.75 in	E24WB	**1L399**
2.63 in	0.56 in	5.75 in	4.5 in	0.375 in	E26WB	**1L397**
3.5 in	0.56 in	5.25 in	8.25 in	0.5 in	E35WB	**1L396**
Top and Bottom Base						
3 in	0.56 in	6.5 in	5.25 in	0.5 in	E30WT	**1L381**
Bottom Bases						
1.33 in	0.41 in	4.0 in	2.5 in	0.375 in	E13WT	**1L379**
1.75 in	0.41 in	3.81 in	3.5 in	0.5 in	E17WT	**1L401**
2 in	0.41 in	3.81 in	3.5 in	0.5 in	E20WT	**1L380**
2.38 in	0.56 in	5.75 in	4.5 in	0.625 in	E24WT	**1L400**
2.63 in	0.56 in	5.75 in	4.5 in	0.375 in	E26WT	**1L398**
3.5 in	0.56 in	5.25 in	8.25 in	0.5 in	E35WT	**1L395**

Winsmith C-Face Right-Angle Speed Reducer Dimensional Drawings

WINSMITH HIGH QUALITY SPEED REDUCERS

Key	Flange Dimensions Motor Frame 56C	140TC	180TC
AJ	5.88"	5.88"	7.25"
AK	4.50"	4.50"	8.50"
BB	0.19"	0.19"	0.19"
BD	6.50"	6.50"	9.00"
BE	0.31"	0.31"	0.38"
BF	0.406"	0.406"	0.531"
Keyway	3/16 x 3/32"	3/16 x 3/32"	1/4 x 1/8"
Bore*	0.6255"	0.8755"	1.1255"

** Bore tolerances +0.001, -0.000.*

Reducer Model	Worm Center Dist.	Dimensions A	B	C1	D	E	E1	F	F1	G Depth	H Tap	J	L	O	P	Output Shaft W†	S	T	Keyway
E13MWNS	1.33"	2.00"	3.88"	1.333"	3.08"	0.69"	0.69"	1.56"	1.19"	0.56"	5/16-18"	1.75"	2.83"	4.33"	4.00"	0.750"	2.06"	1.88"	0.19 x 0.09"
E17MWNS	1.75"	2.38"	4.63"	1.750"	3.88"	0.88"	0.88"	1.94"	1.69"	0.56"	3/8-16"	2.13"	3.44"	5.38"	4.75"	1.000"	2.56"	2.31"	0.25 x 0.13"
E20MWNS	2.00"	2.38"	5.25"	2.000"	4.13"	0.88"	0.88"	2.19"	1.69"	0.56"	3/8-16"	2.13"	3.44"	5.63"	4.75"	1.000"	2.56"	2.31"	0.25 x 0.13"
E24MWNS	2.37"	3.13"	5.38"	2.375"	5.25"	1.13"	1.13"	2.19"	2.19"	0.63"	1/2-13"	2.88"	4.50"	7.25"	5.50"	1.250"	2.81"	2.63"	0.25 x 0.13"
E26MWNS	2.63"	3.13"	5.88"	2.625"	5.75"	1.13"	1.13"	2.44"	2.44"	0.63"	1/2-13"	3.13"	4.50"	7.88"	5.50"	1.250"	2.81"	2.63"	0.25 x 0.13"
E30MWNS	3.00"	3.50"	6.62"	3.000"	6.50"	1.31"	1.31"	2.75"	2.75"	0.75"	1/2-13"	3.50"	4.63"	9.00"	5.88"	1.375"	2.88"	2.75"	0.31 x 0.16"
E35MWNS	3.50"	3.75	7.69"	3.500"	7.50"	1.31"	1.31"	3.25"	3.25"	1.00"	5/8-11"	4.00"	5.46"	10.13"	7.00"	1.750"	3.75"	3.63"	0.38 x 0.19"

† Shaft dia. tolerances +0.000, -0.001.

Scan. Order. Done.
Details on page A1.

C-Face Right-Angle Hollow-Shaft Speed Reducers

3XJC5

- Interchangeable with Winsmith MDSS models
- Symmetric hollow output shaft for flexibility in mounting
- Filled with Mobil Glygoyle 460 synthetic lubricant

White coating system is scratch resistant and suitable for washdown and outdoor applications. Exceeds ASTM B-117, 1000-hr. salt spray test. Open/close vent. Predrilled and tapped holes on top and bottom for bracket attachment. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas.

Note: Additional sizes are available on Grainger.com.

Reducer Model No.	Worm Center Distance	Item No.
Torque Arm Kits		
E20MWSS	2.0 in	**3XJF9**
E26MWSS	2.63 in	**3XJG1**
E30MWSS	3.0 in	**3XJG2**

Reducer Model No.	Worm Center Distance	Driven Shaft O.D.	Driven Shaft Keyway	Item No.
Bronze Bushing Kits				
E20MWSS	2.0 in	1 ¼ in	¼ x ⅛"	**3XJF2**
E26MWSS	2.63 in	1 in	¼ x ⅛"	**3XJF3**
E26MWSS	2.63 in	1 ¼ in	¼ x ⅛"	**3XJF4**
E30MWSS	3.0 in	1 7⁄16 in	⅜ x 3⁄16"	**3XJF6**

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
29 RPM	56C	2 in	1,345 lb	60:1	0.3 hp	528 in-lb	E20MWSS	**3XJD2**
	56C	2.63 in	1,823 lb	60:1	0.75 hp	1,268 in-lb	E26MWSS	**3XJD7**
	56C/140TC	3 in	2,020 lb	60:1	1 hp	1,766 in-lb	E30MWSS	**3XJE5**
	56C/140TC	3.5 in	3,186 lb	60:1	2 hp	3,573 in-lb	E35MWSS	**3XJF1**
35 RPM	56C/140TC	2.63 in	1,823 lb	50:1	1 hp	1,481 in-lb	E26MWSS	**3XJD6**
	56C/140TC	3 in	2,020 lb	50:1	1.5 hp	2,305 in-lb	E30MWSS	**3XJE4**
43 RPM	56C	2 in	1,345 lb	40:1	0.5 hp	585 in-lb	E20MWSS	**3XJC9**
	56C/140TC	3 in	2,020 lb	40:1	2 hp	2,516 in-lb	E30MWSS	**3XJE3**
58 RPM	56C/140TC	2.63 in	1,823 lb	30:1	1.5 hp	1,427 in-lb	E26MWSS	**3XJD4**
	56C	2 in	1,345 lb	30:1	0.75 hp	687 in-lb	E20MWSS	**3XJC8**
86 RPM	56C/140TC	2 in	1,345 lb	20:1	1 hp	650 in-lb	E20MWSS	**3XJC7**
	56C/140TC	2.63 in	1,823 lb	20:1	2 hp	1,322 in-lb	E26MWSS	**3XJD3**
172 RPM	56C/140TC	2 in	1,345 lb	10:1	2 hp	687 in-lb	E20MWSS	**3XJC6**
345 RPM	180TC	3 in	1,175 lb	5:1	7.5 hp	1,301 in-lb	E30MWSS	**3XJD8**
	56C/140TC	2 in	1,265 lb	5:1	3 hp	518 in-lb	E20MWSS	**3XJC5**

** @ 1725 rpm. † To complete Mfr. Model No., add Nominal Ratio and NEMA Frame information.*

Winsmith C-Face Right-Angle Hollow-Shaft Speed Reducer Dimensional Drawings

Key	Flange Dimensions Motor Frame 56C	140TC	180TC
AJ	5.88"	5.88"	7.25"
AK	4.50"	4.50"	8.50"
BB	0.19"	0.19"	0.19"
BD	6.50"	6.50"	9.00"
BE	0.31"	0.31"	0.38"
BF	0.406"	0.406"	0.531"
Keyway	3⁄16 x 3⁄32"	3⁄16 x 3⁄32"	¼ x ⅛"
Bore*	0.6255"	0.8755"	1.1255"

** Bore tolerances +0.001, -0.000.*

Reducer Model	Worm Center Dist.	Dimensions A	B	C1	D	E	F	F1	G Depth	H Tap	J	L	M1	O	Output Shaft W†	K	P	Z	Keyway
E20MWSS	2.00"	2.38"	5.25"	2.00"	4.13"	0.88"	2.19"	1.69"	0.63"	⅜-16"	2.13"	3.44"	4.06"	5.63"	1.438"	2.63"	3.31"	2.00"	⅜ x ⅛"
E26MWSS	2.63"	3.13"	5.88"	2.63"	5.75"	1.13"	2.44"	2.44"	0.69"	½-13"	3.13"	4.50"	5.38"	7.88"	1.688"	2.81"	3.50"	2.50"	⅜ x 3⁄16"
E30MWSS	3.00"	3.50"	6.62"	3.00"	6.50"	1.31"	2.75"	2.75"	0.75"	½-13"	3.50"	4.63"	5.56"	9.00"	1.938"	3.00"	3.69"	2.63"	½ x 3⁄16"

† Shaft dia. tolerances +0.000, +0.002.

FLEXBLOC C-Face Right-Angle Hollow-Shaft Speed Reducers

29TL62

- Universal gear housing
- Adaptable to any mounting position
- Filled with food grade synthetic lubricant
- Includes single and double output shafts with standard keys

Motor coupling provides accurate motor shaft alignment, minimizes fretting, and creates a low backlash/high-strength connection.

Fine-grained bronze alloy worm gear and hardened alloy steel worm pinion gear for durability. Oversize output ball bearings provide high radial and axial load capacities and long service life. Double-lip oil seals. Aluminum alloy housing.

Note: Additional sizes are available on Grainger.com.

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
18 RPM	56C	1.57 in	720 lb	100:1	0.25 hp	301 in-lb	SK1SI40Y	**29TL62**
	56C	1.97 in	1,080 lb	100:1	0.37 hp	549 in-lb	SK1SI50Y	**29TL63**
	56C	2.48 in	1,415 lb	100:1	0.63 hp	974 in-lb	SK1SI63Y	**29TL64**
	56C	2.95 in	2,250 lb	100:1	0.88 hp	1,655 in-lb	SK1SI75Y	**29TL65**
22 RPM	56C	1.57 in	720 lb	80:1	0.25 hp	327 in-lb	SK1SI50Y	**29TL67**
	56C	1.97 in	1,080 lb	80:1	0.44 hp	593 in-lb	SK1SI50Y	**29TL68**
	56C	2.48 in	1,415 lb	80:1	0.75 hp	1,044 in-lb	SK1SI63Y	**29TL69**
	56C	2.95 in	2,250 lb	80:1	1.06 hp	1,779 in-lb	SK1SI75Y	**29TL70**
29 RPM	56C	1.22 in	405 lb	60:1	0.25 hp	212 in-lb	SK1SI31Y	**29TL71**
	56C	1.57 in	720 lb	60:1	0.37 hp	354 in-lb	SK1SI40Y	**29TL72**
	56C	1.97 in	1,080 lb	60:1	0.5 hp	646 in-lb	SK1SI50Y	**29TL73**
	56C	2.48 in	1,415 lb	60:1	0.88 hp	1,150 in-lb	SK1S163Y	**29TL74**
	56C	2.95 in	2,250 lb	60:1	1.37 hp	1,956 in-lb	SK1SI75Y	**29TL75**

Nom. Output RPM*	NEMA Frame	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model†	Item No.
44 RPM	56C	1.22 in	405 lb	40:1	0.37 hp	248 in-lb	SK1SI31Y	**29TL83**
	56C	1.57 in	720 lb	40:1	0.5 hp	407 in-lb	SK1SI40Y	**29TL84**
	56C	1.97 in	1,080 lb	40:1	0.88 hp	735 in-lb	SK1SI50Y	**29TL85**
	56C	2.95 in	2,250 lb	40:1	2.25 hp	2,212 in-lb	SK1SI75Y	**29TL88**
88 RPM	56C	1.22 in	405 lb	20:1	0.5 hp	239 in-lb	SK1SI31Y	**29TM09**
	56C	1.57 in	720 lb	20:1	0.75 hp	398 in-lb	SK1SI40Y	**29TM10**
117 RPM	56C	1.57 in	720 lb	15:1	1.06 hp	434 in-lb	SK1SI40Y	**29TM19**
	56C	1.97 in	1,080 lb	15:1	1.75 hp	770 in-lb	SK1SI50Y	**29TM21**
	56C	2.48 in	1,415 lb	15:1	3.06 hp	1,372 in-lb	SK1SI63Y	**29TM23**
175 RPM	56C	1.22 in	405 lb	10:1	0.75 hp	230 in-lb	SK1SI31Y	**29TM29**
	56C	1.57 in	720 lb	10:1	1.25 hp	372 in-lb	SK1SI40Y	**29TM30**
233 RPM	56C	2.48 in	1,415 lb	7.5:1	5.06 hp	1,230 in-lb	SK1SI63Y	**29TM45**
	140TC	2.48 in	1,415 lb	7.5:1	5.06 hp	1,230 in-lb	SK1SI63Y	**29TM46**

**@ 1750 rpm. †To complete Mfr. Model include NEMA Frame and Nominal Ratio values.*

Nord FLEXBLOC C-Face Right-Angle Hollow-Shaft Speed Reducer Dimensional Drawings

Reducer Model	Worm Center Distance	Dimensions A	B	D	E	F	O	QA	U	UH	Motor Frame Dimensions CC 56C	140TC
SK1SI31	1.22"	3.15"	2.48"	1.57"	2.13"	1.73"	3.82"	3.82"	0.625"	0.6250"	1.89"	—
SK1SI40	1.57"	3.94"	3.07"	1.97"	2.76"	2.36"	4.78"	4.69"	0.750"	1.0000"	1.46"	1.93"
SK1SI50	1.97"	4.72"	3.62"	2.36"	3.15"	2.76"	5.67"	5.16"	1.000"	1.1250"	1.46"	1.93"
SK1SI63	2.48"	5.67"	4.41"	2.83"	3.94"	3.35"	6.85"	6.22"	1.125"	1.4375"	1.46"	1.93"
SK1SI75	2.95"	6.77"	5.12"	3.39"	4.72"	3.54"	8.08"	7.87"	1.375"	1.9375"	1.61"	1.61"

Indirect-Drive Right-Angle Speed Reducers

Dayton

- Reversible rotation
- All-position mounting, except input shaft down; optional bases available on page 85
- Shipped with Klübersynth UH1 6-460 gear oil 34K212 (sold separately on Grainger.com)
- Double-lip, spring-loaded oil seals; large, prefilled oil sump

Interchangeable with most Grove (Flexaline) and Ohio (Uniline) models. The output shaft on single-output models can be field-converted from standard left-hand to right-hand extension. Worm is thread-rolled and alloy-hardened for higher strength and low power loss. Left-hand facing input shaft. Input shaft has ball bearings and output shaft has tapered roller bearings. Cast-iron housing. Flange coupling kits to adapt NEMA 56C-145TC motors to Dayton right-angle speed reducers sold separately; see below.

FLANGE COUPLING KITS

- Bolt circle dia.: 5.88"
- Mounting hardware and shaft coupling included

6Z419

Worm Center Distance	Dimensions A	B	D	E	F	G	H	J	AN	K	Shaft Dimensions Input Shaft L	V	Keyway	Output Shaft M	N	W	Keyway
1.00"	2.50"	3.25"	1.69"	2.62"	¼-20"	3.63"	1.31"	1.00"	1.63"	2.88"	0.375"	0.81"	0.093 x 0.75"	2.88"	0.499"	1.19"	0.125 x 0.64"
1.33"	3.50"	4.25"	3.00"	3.00"	¼-20"	4.94"	1.75"	1.33"	2.13"	3.91"	0.500"	1.31"	0.125 x 1.38"	4.38"	0.625"	2.08"	0.188 x 1.25"
1.75"	3.69"	5.50"	2.75"	4.19"	5/16-18"	5.75"	2.06"	1.75"	2.75"	4.88"	0.625"	1.56"	0.188 x 1.50"	4.31"	0.875"	1.78"	0.188 x 1.14"
2.06"	3.81"	6.00"	3.00"	4.75"	5/16-18"	6.38"	2.28"	2.06"	3.00"	5.13"	0.625"	1.56"	0.188 x 1.50"	4.69"	1.000"	2.09"	0.250 x 1.32"
2.62	4.44"	7.38"	3.38"	6.38"	3/8-16"	8.00"	2.94"	2.63"	3.69"	6.31"	0.750"	2.00"	0.188 x 1.63"	5.63"	1.250"	2.62"	0.250 x 1.93"

Nom. Output RPM*	Worm Center Distance	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	SINGLE OUTPUT Item No.	DOUBLE OUTPUT Item No.
29 RPM	1.33 in	275 lb	60:1	0.25 hp	209 in-lb	**6Z439**	**6Z419**
	1.75 in	700 lb	60:1	0.3 hp	415 in-lb	**6Z440**	**6Z420**
	2.06 in	875 lb	60:1	0.5 hp	636 in-lb	**6Z441**	**6Z421**
	2.62 in	1,300 lb	60:1	0.75 hp	1,021 in-lb	**6Z442**	**6Z422**
44 RPM	2.06 in	875 lb	40:1	0.5 hp	492 in-lb	**6Z449**	**6Z424**
	2.62 in	1,300 lb	40:1	1 hp	1,028 in-lb	**6Z450**	**6Z425**
58 RPM	1.75 in	700 lb	30:1	0.5 hp	401 in-lb	**6Z453**	**6Z426**
	2.06 in	875 lb	30:1	0.75 hp	610 in-lb	**6Z454**	**6Z427**
	2.62 in	1,300 lb	30:1	1.5 hp	983 in-lb	**6Z455**	**6Z428**
	3.25 in	1,500 lb	30:1	2 hp	1,689 in-lb	**6Z456**	—
88 RPM	1.75 in	700 lb	20:1	0.75 hp	436 in-lb	**6Z457**	**6Z429**
	2.06 in	875 lb	20:1	1 hp	586 in-lb	**6Z458**	**6Z430**
117 RPM	2.06 in	875 lb	15:1	1.5 hp	614 in-lb	**6Z464**	**6Z433**
350 RPM	1 in	150 lb	5:1	0.5 hp	79 in-lb	**6Z469**	**6Z436**

** @ 1750 rpm.*

Worm Center Distance	Input Motor Frame Size	Overall Length Reducer & Flange	Motor Coupling Bore	Reducer Coupling Bore	Reducer Coupling Keyway	Item No.
Flange Coupling Kits						
1.33 in	56C	7.34 in	0.63 in	0.5 in	0.13 x 0.06"	**3A701**
1.75 in	56C	10.28 in	0.63 in	0.63 in	0.19 x 0.09"	**6HJ79**
	143TC/145TC	10.28 in	0.88 in	0.63 in	0.19 x 0.09"	**6HJ80**
2.06 in	56C	11.31 in	0.63 in	0.63 in	0.19 x 0.09"	**6HJ81**
	143TC/145TC	11.31 in	0.88 in	0.63 in	0.19 x 0.09"	**6HJ82**
2.62 in	56C	13.16 in	0.63 in	0.75 in	0.19 x 0.09"	**3A706**
	143TC/145TC	13.16 in	0.88 in	0.75 in	0.19 x 0.09"	**3A707**
3.25 in	56C	14.78 in	0.63 in	0.88 in	0.19 x 0.09"	**3A708**
	143TC/145TC	14.78 in	0.88 in	0.88 in	0.19 x 0.09"	**3A709**
	182TC/184TC	15.75 in	1.13 in	0.88 in	0.19 x 0.09"	**3A710**

Indirect-Drive Right-Angle Single-Shaft Speed Reducers

Boston Gear

- All-position mounting (bases sold separately)
- Shipped without oil, use 34K212 (sold separately on Grainger.com)

Heavy-duty worm gear speed reducers have value-engineered features for flexible installation, long life, and simplified maintenance. Integral input worm and shaft are made from case-hardened alloy steel. Oversized ball and roller bearings assure maximum performance. Fine-grained cast-iron housing and output shaft (left-hand facing input shaft).

1L244

Worm Center Dist.	Overhung Load	Dimensions A	B	H1	X	Y	Z	ID1	Shaft Dimensions Input Shaft INW	IU	Keyway	Output Shaft OD1	ONW	OU	Keyway
1.00"	150 lbs.	2.50"	3.25"	3.63"	1.69"	2.63"	2.63"	2.31"	0.81"	0.375"	3/32 x 3/8"	1.31"	1.19"	0.500"	1/8 x 5/8"
1.33"	200 lbs.	2.88"	4.25"	4.66"	2.00"	3.25"	3.25"	3.05"	1.31"	0.500"	1/8 x 5/8"	1.72"	2.00"	0.625"	3/16 x 1"
1.54"	300 lbs.	3.69"	5.13"	5.38"	2.75"	4.19"	4.19"	3.45"	1.56"	0.625"	3/16 x 13/16"	1.91"	1.78"	0.750"	3/16 x 1"
1.75"	500 lbs.	3.69"	5.50"	5.75"	2.75"	4.19"	4.19"	3.81"	1.56"	0.625"	3/16 x 13/16"	2.06"	1.78"	0.875"	3/16 x 1"
2.06"	700 lbs.	3.81"	6.00"	6.38"	2.88"	5.00"	5.00"	4.34"	1.56"	0.625"	3/16 x 13/16"	2.28"	2.09"	1.000"	¼ x 1¼"
2.38"	900 lbs.	4.06"	6.38"	6.94"	2.88"	5.00"	5.00"	4.88"	2.00"	0.750"	3/16 x 1"	2.50"	2.37"	1.125"	¼ x 1¼"
2.62"	1000 lbs.	4.44"	7.38"	8.00"	3.38"	6.38"	6.38"	5.56"	2.00"	0.750"	3/16 x 1"	2.94"	2.62"	1.125"	¼ x 1 13/16"

Nom. Output RPM*	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item
29 RPM	2.38 in	60:1	0.5 hp	772 in-lb	724-60-G	**1L347**
35 RPM	1 in	50:1	0.16 hp	153 in-lb	710-50-G	**1L244**
	1.33 in	50:1	0.16 hp	198 in-lb	713-50-G	**1L265**
	1.54 in	50:1	0.25 hp	306 in-lb	715-50-G	**1L275**
	2.38 in	50:1	0.75 hp	1,014 in-lb	724-50-G	**1L348**
44 RPM	1 in	40:1	0.16 hp	148 in-lb	710-40-G	**1L245**
	1.33 in	40:1	0.16 hp	165 in-lb	713-40-G	**1L259**
	1.54 in	40:1	0.3 hp	342 in-lb	715-40-G	**1L276**
	2.38 in	40:1	0.75 hp	837 in-lb	724-40-G	**1L343**
58 RPM	1.54 in	30:1	0.3 hp	274 in-lb	715-30-G	**1L277**
	2.38 in	30:1	1 hp	902 in-lb	724-30-G	**1L344**
70 RPM	1.33 in	25:1	0.3 hp	238 in-lb	713-25-G	**1L261**

** @ 1750 rpm.*

Nom. Output RPM*	Worm Center Distance	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item
88 RPM	1 in	20:1	0.25 hp	138 in-lb	710-20-G	**1L247**
	1.33 in	20:1	0.3 hp	197 in-lb	713-20-G	**1L262**
	1.54 in	20:1	0.5 hp	302 in-lb	715-20-G	**1L278**
	2.38 in	20:1	1.5 hp	948 in-lb	724-20-G	**1L341**
117 RPM	1.54 in	15:1	0.75 hp	353 in-lb	715-15-G	**1L279**
	2.38 in	15:1	2 hp	990 in-lb	724-15-G	**1L342**
	2.62 in	15:1	2 hp	994 in-lb	726-15-G	**1L353**
175 RPM	1.54 in	10:1	1 hp	330 in-lb	715-10-G	**1L280**
	1.75 in	10:1	1.5 hp	499 in-lb	718-10-G	**1L301**
	2.38 in	10:1	2 hp	672 in-lb	724-10-G	**1L345**
	2.62 in	10:1	3 hp	1,024 in-lb	726-10-G	**1L354**
350 RPM	1.54 in	5:1	1.5 hp	254 in-lb	715-5-G	**1L281**
	1.75 in	5:1	2 hp	338 in-lb	718-5-G	**1L302**
	2.06 in	5:1	2 hp	338 in-lb	721-5-G	**1L310**
	2.38 in	5:1	3 hp	508 in-lb	724-5-G	**1L346**
	2.62 in	5:1	3 hp	508 in-lb	726-5-G	**1L355**

Worm Center Distance	Base Width	Base Length	Mfr. Model	Item No.
Cast Iron Mounting Bases, Horizontal				
1.0 in	3.69 in	4.63 in	87874	**4NY17**
1.33 in	4.19 in	5.38 in	56437	**4YA78**
1.54 in	5.44 in	6.44 in	56438	**4YA79**
1.75 in	5.69 in	7.0 in	56439	**4YA80**
2.06 in	5.94 in	7.75 in	56440	**4YA81**
2.38 in	6.19 in	8.5 in	56441	**4YA82**
2.62 in	6.66 in	9.63 in	56442	**4YA83**

Description	Mfr. Model	Item No.
Gear Oil		
Synthetic Gear Oil, H1 Food Grade, 1 qt	65159	**34K212**

Scan. Order. Done.
Details on page A1.

Dayton

Indirect-Drive Right-Angle Single-Shaft Continuous-Duty Speed Reducers

2Z306

- 2" worm center distance
- 700 lb. overhung load
- All-position mounting
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Double-lip oil seals on input and output shafts; spring-loaded inner lip

For high-torque, low-speed applications. Tapered roller bearings. Hardened steel worm gear. Forged bronze worm wheel.

Dimensions (in.)														
A	C	D	D1	E	F	H	N	N1	O	U	U1	V	V1	AB	XL
5.75	6.79	2.5	4.5	2.38	4.75	0.34	1.89	2	5.81	0.7500-0.7490	0.6250-0.6245	1.62	1.88	2.46	8

Nominal Output RPM*	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
30 RPM	58:1	0.3 hp	285 in-lb	**2Z306**
45 RPM	39:1	0.5 hp	337 in-lb	**2Z307**
67 RPM	26:1	0.75 hp	385 in-lb	**2Z308**
96 RPM	18:1	1 hp	360 in-lb	**2Z309**
157 RPM	11:1	1 hp	302 in-lb	**2Z310**

** @ 1725 rpm.*

4GAX8

Indirect-Drive Right-Angle Double-Shaft Speed Reducers and Bases

WINSMITH HIGH QUALITY SPEED REDUCERS

- Interchangeable with Winsmith XDNS models
- Double-shaft assembly
- Filled with Mobil Glygoyle 460 synthetic lubricant

Black coating system is scratch-resistant and suitable for washdown and outdoor applications. Shaft slingers prevent contaminants from contacting oil seals. Open/close vent. Can be mounted with or without optional base using predrilled and tapped holes. Lubricant meets NSF requirements and is acceptable for incidental food contact (H1) areas. Exceeds ASTM B-117, 1000 hour salt spray test.

Reducer Model	Dimensions															Shaft Dimensions: Input Shaft				Shaft Dimensions: Output Shaft			
	A	B	C1	D	E	E1	F	F1	G Depth	H Tap	J	L	M	O	P	U**	N	V	Keyway	W**	S	T	Keyway
E13XWNS	2.00"	3.88"	1.33"	3.08"	0.69"	0.69"	1.56"	1.19"	0.56"	5⁄16-18"	1.75"	2.83"	4.12"	4.33"	4.00"	0.625"	1.81"	1.63"	0.19 x 0.09"	0.750"	2.06"	1.88"	0.19 x 0.09"
E20XWNS	2.38"	5.25"	2.00"	4.13"	0.88"	0.88"	2.19"	1.69"	0.56"	3⁄8-16"	2.13"	3.44"	5.00"	5.63"	4.75"	0.750"	2.19"	1.75"	0.19 x 0.09"	1.000"	2.56"	2.31"	0.25 x 0.13"
E26XWNS	3.13"	5.88"	2.63"	5.75"	1.13"	1.13"	2.44"	2.44"	0.69"	1⁄2-13"	3.13"	4.50"	6.50"	7.88"	5.50"	1.000"	2.75"	2.38"	0.25 x 0.13"	1.250"	2.81"	2.63"	0.25 x 0.13"
E30XWNS	3.50"	6.62"	3.00"	6.50"	1.31"	1.31"	2.75"	2.75"	0.75"	1⁄2-13"	3.50"	4.63"	7.00"	9.00"	5.88"	1.000"	3.06"	2.38"	0.25 x 0.13"	1.375"	2.88"	2.75"	0.31 x 0.16"
E35XWNS	3.75"	7.69"	3.50"	7.50"	1.31"	1.31"	3.25"	3.25"	1.00"	5⁄8-11"	4.00"	5.06"	7.38"	10.13"	7.00"	1.000"	2.31"	2.50"	0.25 x 0.13"	1.750"	3.75"	3.63"	0.38 x 0.19"

*** Shaft diameter tolerance +0.000, -0.001.*

Nominal Output RPM*	Worm Center Distance	Overhung Load	Nom. Ratio	Input HP	Max. Output Torque	Mfr. Model †	Item No.
29 RPM	2 in	650 lb	60:1	0.3 hp	528 in-lb	E20XWNS	**4GAX8**
	2.63 in	1,025 lb	60:1	0.75 hp	1,268 in-lb	E26XWNS	**4GAX9**
	3 in	1,350 lb	60:1	1 hp	1,766 in-lb	E30XWNS	**4GAZ1**
35 RPM	2 in	650 lb	50:1	0.5 hp	706 in-lb	E20XWNS	**4GAZ2**
	3 in	1,350 lb	50:1	1.5 hp	2,305 in-lb	E30XWNS	**4GAZ3**
43 RPM	1.33 in	290 lb	40:1	0.25 hp	256 in-lb	E13XWNS	**4GAZ4**
	2 in	650 lb	40:1	0.5 hp	585 in-lb	E20XWNS	**4GAZ5**
	2.63 in	1,025 lb	40:1	1 hp	1,223 in-lb	E26XWNS	**4GAZ6**
	3 in	1,350 lb	40:1	2 hp	2,516 in-lb	E30XWNS	**4GAZ7**
58 RPM	1.33 in	290 lb	30:1	0.3 hp	276 in-lb	E13XWNS	**4GAZ8**
	2 in	650 lb	30:1	0.75 hp	687 in-lb	E20XWNS	**4GAZ9**
	2.63 in	1,025 lb	30:1	1.5 hp	1,427 in-lb	E26XWNS	**4GCA1**
	3 in	1,350 lb	30:1	2 hp	1,937 in-lb	E30XWNS	**4GCA2**
86 RPM	1.33 in	290 lb	20:1	0.3 hp	202 in-lb	E13XWNS	**4GCA3**
	2 in	650 lb	20:1	1 hp	650 in-lb	E20XWNS	**4GCA4**
	2.63 in	1,025 lb	20:1	2 hp	1,322 in-lb	E26XWNS	**4GCA5**
	3 in	1,350 lb	20:1	3 hp	2,009 in-lb	E30XWNS	**4GCA6**
115 RPM	1.33 in	290 lb	15:1	0.5 hp	238 in-lb	E13XWNS	**4GCA7**
	2 in	650 lb	15:1	1.5 hp	749 in-lb	E20XWNS	**4GCA8**
	3 in	1,350 lb	15:1	5 hp	2,542 in-lb	E30XWNS	**4GCA9**
	3.5 in	2,130 lb	15:1	5 hp	2,542 in-lb	E35XWNS	**4GCC1**
172 RPM	1.33 in	290 lb	10:1	0.75 hp	248 in-lb	E13XWNS	**4GCC2**
	2 in	650 lb	10:1	2 hp	687 in-lb	E20XWNS	**4GCC3**
	3 in	1,298 lb	10:1	5 hp	1,722 in-lb	E30XWNS	**4GCC4**
345 RPM	1.33 in	290 lb	5:1	1 hp	171 in-lb	E13XWNS	**4GCC5**
	2 in	572 lb	5:1	3 hp	518 in-lb	E20XWNS	**4GCC6**
	3 in	1,116 lb	5:1	7.5 hp	1,301 in-lb	E30XWNS	**4GCC7**

** @ 1750 rpm. † To complete Mfr. Model No., add Nominal Ratio.*

Worm Center Distance	Bolt Hole Dia.	Base Mounting Hole Pattern: Length	Base Mounting Hole Pattern: Width	Base Thickness	Item No.
Top Bases					
1.33 in	0.41 in	4.0 in	2.5 in	0.25 in	**1L382**
1.75 in	0.41 in	4.0 in	3.5 in	0.5 in	**1L402**
2 in	0.41 in	4.0 in	3.5 in	0.25 in	**1L383**
2.38 in	0.56 in	5.75 in	4.5 in	0.75 in	**1L399**
2.63 in	0.56 in	5.75 in	4.5 in	0.375 in	**1L397**
3.5 in	0.56 in	5.25 in	8.25 in	0.5 in	**1L396**
Top and Bottom Base					
3 in	0.56 in	6.5 in	5.25 in	0.5 in	**1L381**
Bottom Bases					
1.33 in	0.41 in	4.0 in	2.5 in	0.375 in	**1L379**
1.75 in	0.41 in	3.81 in	3.5 in	0.5 in	**1L401**
2 in	0.41 in	3.81 in	3.5 in	0.5 in	**1L380**
2.38 in	0.56 in	5.75 in	4.5 in	0.625 in	**1L400**
2.63 in	0.56 in	5.75 in	4.5 in	0.375 in	**1L398**
3.5 in	0.56 in	5.25 in	8.25 in	0.5 in	**1L395**

24/7 AFTER-HOURS SERVICE

When you need products in a pinch, count on our After-Hours Service to open the Grainger branch nearest you, any time of day or night (a $50 fee may apply).

> After hours, dial **1-800-CALL-WWG**

2Z932

56C-Face Parallel-Shaft Speed Reducers

Dayton

- 660 lb. overhung load
- Horizontal mounting
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Spring-loaded double lip seals on input and output shaft

Precision machined cast-iron housing for accurate alignment of gears. Hardened steel pinions, helical and spur gears are computer-matched for high efficiency; designed per AGMA standards. Input shaft is ball bearing supported. Output shaft has deep-grooved ball bearings.

Nominal Output RPM*	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
30 RPM	57.5:1	0.5 hp	955 in-lb	**2Z932**
44 RPM	39:1	0.5 hp	651 in-lb	**2Z933**
60 RPM	29:1	0.5 hp	478 in-lb	**2Z934**
91 RPM	19:1	0.5 hp	326 in-lb	**2Z935**

** @ 1725 rpm.*

C-Face Parallel-Shaft Speed Reducers

Boston Gear

- All-position mounting
- Shipped with Klübersynth UH1 6-460 gear oil 34K212

Powdered epoxy paint. Dimensionally interchangeable with SEW Eurodrive inline helical reducers. Ratios up to 71:1 in only 2 stages; increases efficiency and reduces case size.

1F880

Nominal Output RPM*	NEMA Frame	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
24 RPM	56C	1,600 lb	71:1	1 hp	2,303 in-lb	F862B-71K-B5-M1	**1F828**
	56C	770 lb	71:1	0.5 hp	1,186 in-lb	F842B-71K-B5-M1	**1F846**
27 RPM	140TC/180C	1,360 lb	63:1	1.5 hp	3,027 in-lb	F862B-63K-B7-M1	**1F830**
31 RPM	56C	1,360 lb	56:1	1 hp	2,018 in-lb	F862B-56K-B5-M1	**1F832**
	56C	770 lb	56:1	0.5 hp	970 in-lb	F842B-56K-B5-M1	**1F850**
35 RPM	56C	770 lb	50:1	0.75 hp	1,280 in-lb	F842B-50K-B5-M1	**1F852**
38 RPM	56C	770 lb	45:1	0.75 hp	1,180 in-lb	F842B-45K-B5-M1	**1F854**
48 RPM	56C	770 lb	36:1	1 hp	1,254 in-lb	F842B-36K-B5-M1	**1F856**
62 RPM	56C	620 lb	28:1	1 hp	994 in-lb	F842B-28K-B5-M1	**1F858**
	56C	385 lb	28:1	0.5 hp	491 in-lb	F832B-28K-B5-M1	**1F876**
79 RPM	140TC/180C	620 lb	22:1	1.5 hp	1,158 in-lb	F842B-22K-B7-M1	**1F860**
	56C	385 lb	22:1	0.75 hp	574 in-lb	F832B-22K-B5-M1	**1F878**
97 RPM	140TC/180C	620 lb	18:1	2 hp	1,192 in-lb	F842B-18K-B7-M1	**1F862**
	56C	385 lb	18:1	1 hp	483 in-lb	F832B-18K-B5-M1	**1F880**

** @ 1725 rpm.*

Reducer Model	Dimensions A	B	C	D	E	G	H	K	L	U	V	TT (UNF)	DD (DEEP)	M 56C	140TC	180TC	210TC	W - Key SQ	Length
F832B	5.44"	4.33"	4.33"	3.35"	1.05"	0.48"	2.95"	5.79"	2.28"	0.75"	1.57"	0.25"	0.63"	9.82"	9.82"	10.65"	—	0.19"	1.28"
F842B	5.71"	6.30"	4.33"	5.12"	1.48"	0.67"	3.54"	6.99"	2.95"	1.00"	1.97"	0.25"	0.63"	10.73"	10.73"	11.55"	—	0.25"	1.75"
F862B	7.48"	7.87"	5.31"	6.50"	2.19"	0.81"	4.53"	9.06"	3.54"	1.25"	2.36"	0.38"	0.87"	12.26"	12.26"	14.61"	14.61"	0.25"	2.00"

BISON

56C-Face Parallel-Shaft Speed Reducers

- All-position mounting
- Factory lubricated for life

Provide the power required for applications in many different industries. Designed with a precision machined die-cast aluminum housing, these reducers can be aligned seamlessly to drive most OEM equipment. Equipped with high quality helical and spur gearing.

Note: Additional sizes are available on Grainger.com.

35FT35

Item	Mfr. Model	Item No.
Mounting Brackets		
Mounting L Bracket	P125-880-0003	**35FT55**
Mounting Footplate	P125-880-0004	**35FT56**

Nom. Output RPM*	Overhung Load	Nom. Ratio	No. of Stages	Max. Input HP	Max. Output Torque	Mfr. Model	Item No.
12 RPM	1,383 lb	142.9:1	3	0.25 hp	992 in-lb	060-881-2143	**35FT53**
22 RPM	1,165 lb	79:1	3	0.5 hp	1,195 in-lb	060-881-2079	**35FT51**
60 RPM	838 lb	27.8:1	3	1 hp	1,137 in-lb	060-881-2029	**35FT45**
97 RPM	680 lb	17.8:1	2	1.25 hp	902 in-lb	060-881-2018	**35FT43**
253 RPM	506 lb	6.8:1	2	1.5 hp	399 in-lb	060-881-2007	**35FT39**
339 RPM	467 lb	5:1	2	1.5 hp	275 in-lb	060-881-2005	**35FT37**
457 RPM	425 lb	3.8:1	2	1.5 hp	204 in-lb	060-881-2004	**35FT35**

** @ 1725 rpm.*

A. and B.
Indirect Drive

C.
42CZ/48C-Face

Dayton

Indirect-Drive and 42CZ/48C-Face Parallel-Shaft Speed Reducers with Base

- All-position mounting using face, base, and top
- Shipped with heavy-duty SAE 80W-90 oil lubricant in gearcase
- Spring-loaded lip oil seals on input and output shafts

Base allows high or low positioning of output shaft; face-mounting holes on output side of reducer. Heat-treated steel pinion with helical first stage gearing. Heavy-duty needle and ball bearings with thrust balls. Die-cast aluminum gearcase housing.

Item No.	Key	Dimensions (in.) A	B	C
4Z498	B	3.328	2.625	4.953
4Z499 to 4Z503	B	3.718	3.000	5.344

Key	Nom. Output RPM*	Nom. Ratio	No. of Stages	Max. Input HP	Max. Output Torque	Item No.
Indirect Drive Speed Reducers						
A	15 RPM	118.5:1	3	0.05 hp	200 in-lb	**2Z819**
A	33 RPM	52.9:1	2	0.1 hp	175 in-lb	**2Z820**
A	72	23.4:1	2	0.1667 hp	100.0 in-lb	**2Z821**
B	19 RPM	92:1	3	0.1 hp	290 in-lb	**4Z498**
B	34 RPM	51:1	3	0.1667 hp	260 in-lb	**4Z499**
B	48 RPM	36:1	3	0.25 hp	295 in-lb	**4Z500**
B	61 RPM	28.1:1	2	0.25 hp	225 in-lb	**4Z501**
B	90 RPM	19:1	2	0.3333 hp	225 in-lb	**4Z502**
B	135 RPM	13:1	2	0.3333 hp	175 in-lb	**4Z503**
42CZ/48C-Face Speed Reducers †						
C	20 RPM	87.8:1	3	0.1 hp	254 in-lb	**1L515**
C	30 RPM	58.3:1	3	0.125 hp	278 in-lb	**1L537**
C	49 RPM	35.8:1	3	0.25 hp	295 in-lb	**1L514**
C	62 RPM	28.1:1	2	0.25 hp	240 in-lb	**1L513**
C	77 RPM	22.7:1	2	0.25 hp	184 in-lb	**1L512**
C	92	19.1:1	2	0.3333 hp	226.0 in-lb	**1L511**
C	138 RPM	12.7:1	2	0.3333 hp	176 in-lb	**1L516**

** @ 1725 rpm. Maximum input speed is 1750 rpm.*

† C-Face units contain a 0.500" dia. bore with 0.125 x 0.062" keyway.

Indirect-Drive

56C-Face

Dayton

Indirect-Drive and 56C-Face Parallel-Shaft Speed Reducers

- Horizontal mounting
- Shipped with Klübersynth UH1 6-460 gear oil 34K212
- Spring-loaded double-lip seals on input and output shafts

Hardened steel pinions, helical and spur gears are computer-matched for high efficiency; designed per AGMA standards. Ball bearing-supported input shaft; deep-grooved ball bearing output shaft. Cast-aluminum gearcase.

Nom. Output RPM*	Overhung Load	Nom. Ratio	Max. Input HP	Max. Output Torque	Item No.
Indirect Drive Speed Reducers					
20 RPM	1,192 lb	87:1	0.3 hp	998 in-lb	**4Z856**
30 RPM	885 lb	57.5:1	0.5 hp	998 in-lb	**4Z857**
45 RPM	863 lb	38.5:1	0.5 hp	665 in-lb	**4Z858**
56 RPM	712 lb	31:1	0.75 hp	816 in-lb	**4Z859**
100 RPM	773 lb	17.5:1	0.75 hp	454 in-lb	**4Z860**
140 RPM	709 lb	12.5:1	1 hp	427 in-lb	**4Z861**
56C-Face Speed Reducers					
20 RPM	1,192 lb	87:1	0.3 hp	998 in-lb	**4Z720**
30 RPM	885 lb	57.5:1	0.5 hp	998 in-lb	**4Z614**
45 RPM	863 lb	38.5:1	0.5 hp	665 in-lb	**4Z615**
56 RPM	712 lb	31:1	0.75 hp	816 in-lb	**4Z616**
100 RPM	773 lb	17.5:1	0.75 hp	454 in-lb	**4Z617**
140 RPM	709 lb	12.5:1	1 hp	427 in-lb	**4Z719**

** @ 1725 rpm.*

Double C-Face Magnetic Disc Brakes

- Service factor: 1.0
- Max. ambient: 40°C
- Coil lead length: 15"
- Mounting: horizontal

Direct-acting spring-set brakes use 1 moving part to engage and hold load under power-off conditions. Brake is designed to convert C-face motors and gearmotors to brake motors or brake gearmotors. Models with 56C/140TC NEMA frame have ⅞" O.D. x ⅝" I.D. shaft bushing.

Standard Dripproof—Used in indoor applications such as conveyors and door openers.

Waterproof/Dust-tight—Used in indoor and outdoor applications where dirt and moisture are present.

Washdown—Used in food and dairy applications. Comply with 3A dairy standards pertaining to nonproduct-contact surfaces and with NEMA DEF.MG1-1.26.6 for waterproof machines. USDA-approved white epoxy paint. BISSC Certified.

Dayton

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.

6K233

1L388

Static Torque	NEMA Frame	Max. HP @ 1725 rpm	Max. HP @ 3450 rpm	STANDARD DRIPPROOF Item No.	WATERPROOF/ DUST-TIGHT Item No.	WASHDOWN Item No.
115/208-230V AC Or 110/208-220V AC, 60/50 Hz ft.-lb.						
3 ft.-lb.	56C	1 hp	2 hp	**6K233**	**2LYU1**	**1L388**
6 ft.-lb.	56C/140TC	2 hp	3 hp	**3M366**	**2LYU2**	**1L389**
115/208-230V AC Or 95/174-190V AC, 60/50 Hz ft.-lb.						
10 ft.-lb.	56C/140TC	3 hp	5 hp	**2LYT6**	**2LYU3**	**2LYU7**
208-230/460V AC Or 174-190/380V AC, 60/50 Hz ft.-lb.						
3 ft.-lb.	56C	1 hp	2 hp	**2LYT7**	**2LYU4**	**2LYU8**
6 ft.-lb.	56C/140TC	2 hp	3 hp	**2LYT8**	**2LYU5**	**2LYU9**
10 ft.-lb.	56C/140TC	3 hp	5 hp	**2LYT9**	**2LYU6**	**2LYV1**

Dayton

End-Mount Standard Dripproof Magnetic Disc Brakes

5URA0

- Service factor: 1.4
- Max. ambient: 40°C
- Coil lead length: 18"
- Mounting: horizontal
- Interchangeable with Stearns Series 56,000

Direct-acting spring-set brakes have single-point air gap adjustment, factory set for plug-and-run assembly for easy maintenance. Have no linkage to wear, which helps extend service life. Knockout hole in cover accommodates through-shaft brake motors with fans. Suitable for use in conveyors, packaging machines, hoist end-trucks, security/toll booth gates, and sorting machines.

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.

Static Torque	NEMA Frame	HP @ 1725 rpm	HP @ 3450 rpm	Item No.
115-208/230V AC or 95/174-190V AC, 60/50 Hz ft.-lb.				
3 ft.-lb.	56C	½ hp	1 hp	**5URA0**
6 ft.-lb.	56C	1 hp	2 hp	**5URA1**
10 ft.-lb.	143/145TC	2 hp	3 hp	**5URA2**
15 ft.-lb.	143/145TC	3 hp	5 hp	**5URA3**
208-230/460V AC or 174-190/380V AC, 60/50 Hz ft.-lb.				
3 ft.-lb.	56C	½ hp	1 hp	**5URA4**
6 ft.-lb.	56C	1 hp	2 hp	**5URA5**
10 ft.-lb.	143/145TC	2 hp	3 hp	**5URA6**
15 ft.-lb.	143/145TC	3 hp	5 hp	**5URA7**

Dayton

Magnetic Disc Brakes, 1- and 2-Disc Design

4Z447

5X400

- Service factor: 1.0
- Max. ambient: 40°C
- Coil lead length: 15"

1-Disc—Includes replacement fan and endbell for converting TEFC gearmotors to brake gearmotors. To see which gearmotors use this brake, go to Grainger.com.

2-Disc—Factory set to provide ¾ ft.-lb. stopping and holding torque. To reduce torque to ⅜ ft.-lbs., remove 1 disc. Use with shaded-pole, split-phase and permanent split-capacitor gearmotors.

- Max. ¼ HP for ¾ ft.-lb., 2-disc use
- Max. 1/15 HP for ⅜ ft.-lb., 1-disc use

Note: Not intended for accurate positioning, indexing, or vertical holding applications such as vertical conveyors or hoists.

Description	Static Torque	Item No.
1-Disc		
115/230V AC, 60 Hz	1.5	**4Z447**
230/460V AC, 60 Hz	1.5	**2LYV2**
2-Disc		
115V AC, 60 Hz	0.375 ft-lb, 0.75 ft-lb	**5X400**

Warner Electric

C-Face Clutches and Brakes

The innovative Autogaps technology allows clutch and brake to automatically adjust for wear, requiring no lubrication or maintenance.

Packaged NEMA C-face clutch/brake modules offer high-performance starting and stopping of loads, with the motor running, in an easy-to-install package. Mount to NEMA C-face motor or between motor and reducer. Power on engagement of the brake and clutch. Use the HP vs. Shaft Speed Selection Table to select the proper unit for your application.

Note: Brake is not intended for accurate positioning applications or vertical holding applications, such as vertical conveyors or hoists.

Clutch/Brake Controls—Mount on standard module conduit boxes. Green LED indicates power to clutch; red LED indicates power to brake.

HP vs. SHAFT SPEED SELECTION TABLE
CAUTION: RPM refers to shaft speed at clutch or brake.
Based on 2.75 service factor.

RPM x 100 HP	2	4	6	8	10	12	15	18	20	24	30	36
¼												
⅓												
½									16 Ft.-Lbs. Torque			
¾												
1												
1½						30 Ft.-Lbs. Torque						
2												
3				95 Ft.-Lbs. Torque (210 Series)								
5												
7½								95 Ft.-Lbs. Torque				
10								(215 Series)				

2DBN1

2DBK6

Series	Static Torque	Shaft Dia.	Enclosure	Max. rpm	NEMA/IEC Frame	Length	Width	Mfr. Model	Item No.
C-Face Brakes									
24 Volts (DC)									
EM-50	16	⅝ in	Vented	3,600 RPM	56C	5.1875 in	6 ¾ in	EM50-20-24	**2DBN2**
EM-180	30	⅞ in	Vented	3,600 RPM	182C/143TC/184C/145TC	5.25 in	6 ¾ in	EM180-20-24	**2DBN6**
90 Volts (DC)									
EM-50	16	⅝ in	Vented	3,600 RPM	56C	5.1875 in	6 ¾ in	EM50-20-90	**2DBN1**
EM-100	30	⅝ in	Vented	3,600 RPM	56C	5.1875 in	6 ¾ in	EM100-20-90	**2DBN3**
EM-180	30	⅞ in	Vented	3,600 RPM	182C/143TC/184C/145TC	5.25 in	6 ¾ in	EM180-20-90	**2DBN5**
EM-210	95	1 ⅛ in	Vented	3,600 RPM	213C/182TC/215C/184TC	7.5625 in	9 5/16 in	EM210-20	**2DBN7**
C-Face Clutches									
90 Volts (DC)									
UM-50	16	⅝ in	Vented	3,600 RPM	56C	6.75 in	6 ¾ in	UM50-1040	**2DBL5**
UM-100	30	⅝ in	Vented	3,600 RPM	56C	6.75 in	6 ¾ in	UM100-1040	**2DBL6**
Clutch/Brakes									
90 Volts (DC)									
UM-50	16	⅝ in	Vented	3,600 RPM	56C	6.75 in	6 ¾ in	UM50-1020-90	**2DBK6**
—	22	¾ in	Enclosed	4,500 RPM		11.781 in	6 in	EP-400-90V	**5AFA0**
UM-100	30	⅝ in	Vented	3,600 RPM	56C	6.75 in	6 ¾ in	UM100-1020-90	**2DBK8**
UM-180	30	⅞ in	Vented	3,600 RPM	182C/143TC/184C/145TC	6.75 in	6 ¾ in	UM180-1020-90	**2DBL1**

Description	Length	Width	Mfr. Model	Item No.
Clutch/Brake Controls, For Use with All Series 90V Clutch/Brakes				
120V AC Input, 90V DC Output	3 ⅓ in	2 3/16 in	CBC-150-1	**2DBN9**
220-240VAC Input, 90V DC Output	3 ⅓ in	2 3/16 in	CBC-150-2	**2DBP1**
Motor Mounting Kits				
For Use With Series UM-50/UM-100	11 in	9 ¼ in	5370-101-078	**2DBP2**
For Use With Series UM-180	11 in	9 ¼ in	5370-101-079	**2DBP3**
Accessories				
Cover Kit, to Convert Vented Housing to Enclosed Housing, For Use With Series UM-50/UM-100/UM-180	2 29/32 in	2 13/16 in	5370-101-076	**2DBP5**
Conduit Box Kit, For Use with Series 50, 100, and 180 Models	3 ¼ in	2 3/16 in	5370-101-042	**2DBP6**

49YL74

48ZY73

401P91

35FT31

49YL81

Premium Link Belts

Fenner Drives® POWERTWIST DRIVE POWERTWIST

- Composite polyurethane/polyester construction
- Superior resistance to oil, water, and chemicals
- Temp. range: -40° to 240°F

Belts allow toolless adjustments and can be sized to any length by adding or removing their interconnected links. Install without dismantling the drive system and are for use as a permanent solution or as a temporary replacement.

PowerTwist Standard V-Belts—Require re-tensioning over the belt's operating life to maintain proper performance.

PowerTwist Drive V-Belts—Offer reduced drive vibration and hold tension better than standard link V-belts. They do not require re-tensioning over the belt's operating life.

PowerTwist Roller Drive V-Belts—Drop-in replacement for B section V-belts on any live roller conveyor or 9/16" round profile belts on Rapistan Conveyor Systems.

PowerTwist Wedge V-Belts—Heavy-duty abrasive resistant belts are a drop-in upgrade for rubber wedge belts in big shock-loaded applications with multi-belt drives. Have a smaller top width and a deeper profile than standard V-belts and can transfer higher power than standard belts of the same size.

SuperTLink Wedge V-Belts—Belt design transfers higher power than classical V-belts of the same size.

Adjustable-Link Round Belts—Extremely flexible and ideal for use with small pulley/idler diameters. Replace round rubber or urethane belts.

		Outside Length							
		5 ft		6 ft		25 ft		100 ft	
V-Belt Section	Top Width	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.	Mfr. Model	Item No.
PowerTwist Standard V-Belts (Gray Color)									
4L, A	½ in	0428035	**49YL73**	—	—	0450125	**49YL74**	0450100	**49YL75**
5L, B	⅝ in	—	—	0428056	**49YL76**	0450225	**49YL77**	0450200	**49YL78**
3L	⅜ in	—	—	—	—	0450025	**49YL71**	0450000	**49YL72**
C	⅞ in	—	—	—	—	0450325	**49YL79**	0450300	**49YL80**

		Outside Length			
		25 ft		100 ft	
V-Belt Section	Top Width	Mfr. Model	Item No.	Mfr. Model	Item No.
PowerTwist Drive V-Belts (Red Color)					
3L	⅜ in	0405010	**48ZY71**	0408010	**48ZY72**
4L, A	½ in	0405030	**48ZY73**	0408030	**48ZY74**
5L, B	⅝ in	0405050	**48ZY75**	0408050	**48ZY76**
C	⅞ in	0405070	**48ZY77**	0408070	**48ZY78**
PowerTwist Roller Drive V-Belts (Red Color)					
B	⅝ in	0410300-25	**19RU04**	0410300	**19RU05**
PowerTwist Wedge V-Belts (Blue Color)					
3V	⅜ in	0460025	**401P89**	0460000	**401P90**
5V	⅝ in	0460125	**401P91**	0460100	**401P92**
SuperTLink Wedge V-Belts (Blue Color)					
3V	29/64 in	0407025	**35FT31**	0407100	**35FT32**
5V	21/32 in	0417025	**35FT33**	0417100	**35FT34**

			Overall Length			
			25 ft		100 ft	
Dia.	Min. Pulley Dia.	Hardness	Mfr. Model	Item No.	Mfr. Model	Item No.
Adjustable-Link Round Belts (Gray Color)						
9/16 in	5 ⅝ in	50D	0451225	**49YL81**	0451200	**49YL82**

3PEA7

3PEA8

Continental ContiTech

Electronic Alignment and Tension Diagnostic Tools

Laser Alignment Tool—Confirms horizontal and vertical sheave alignment. Designed for sheaves 60mm dia. or greater. CE Certified.

TensionRite Belt Frequency Meter—Optical sensor indicates belt tension. Use on all rubber compound belts. CE Certified.

Description	Includes	Item No.
Laser Alignment Tool	(2) Magnet Targets, AA Battery	**3PEA7**
TensionRite® Belt Frequency Meter	(4) AA Batteries, Calibration Tuning Fork, Protective Case	**3PEA8**

31CD50

BANDO

Tension Meter

Device measures the vibration frequency of the actual belt, not the air around the belt, for a more accurate reading than competitive systems. The free downloadable app includes all the required belt parameters, requiring much less data input by the end user than other systems require. Can also be used to measure vibration frequency in any type of equipment. Includes tension meter, batteries, sensor, and adhesive pads.

Description	Mfr. Model	Item No.
Belt Tensioning Kit	BUI 4006	**31CD50**
Replacement Sensor with Cord	BUI 4009	**30NX23**
Replacement Adhesive Tabs, Pkg. of 30	BUI 4010	**30NX24**

Selection Guidelines

FOR DIRECT REPLACEMENT WHEN ORIGINAL BELT PART NUMBER IS AVAILABLE

Match ARPM (Association of Rubber Products Manufacturers) number/manufacturer's part number (from your existing V-belt), then make selection from the following pages. Dayton V-belts conform to ARPM standards.

WHEN ORIGINAL BELT PART NUMBER IS NOT AVAILABLE

When replacing V-belts with worn markings, use the belt cross-sections at the top of each page to identify the belt type. Belt length can be determined by using either V-Belt Rule 6AGK6 (sold separately on page 102), or by using the Belt Length Formula calculation on this page.

BELT INTERCHANGE*

ARPM Belt Size	BROWNING	CONTITECH/ GOODYEAR	GATES	DAYCO
3L, 4L, 5L	FHP	Fractional HP	Truflex	Durapower FHP
A, B, C	Super Gripbelts	Hy-T	Hi-Power	Super Blue Ribbon
AX, BX, CX	Gripnotch	Torque-Flex	Tri-Power	Gold Label Cog Belt
3VX, 5VX	358	HY-T Wedge	HY-T Wedge	Power Wedge Vee Cog-Belt

* Call 1-800-GRAINGER (472-4643) for assistance with cross-referencing specific part numbers.
Additional V-belt lengths are available on Grainger.com

Sheave Pitch Diameters

TO CALCULATE MOTOR SHEAVE PITCH DIAMETER

Multiply driven sheave rpm by driven sheave pitch diameter and divide by motor sheave rpm.

TO CALCULATE DRIVEN SHEAVE PITCH DIAMETER

Multiply motor sheave rpm by motor sheave pitch diameter and divide by driven sheave rpm.

FORMULA

(Motor Sheave P.D.) x (Motor Sheave rpm) = (Driven Sheave P.D.) x (Driven Sheave rpm)

V-Belt Length Formula

Dayton V-belts interchange with major brands such as Browning, Carlisle, ContiTech, Dayco, Gates, Goodyear, and others.

BELT LENGTH FORMULA

$$L = 2C + 1.57\,(D+d) + \frac{(D-d)^2}{4C}$$

(exact; approximate)

L = Pitch Length of Belt
C = Center Distance
D = Pitch Diameter of Large Sheave
d = Pitch Diameter of Small Sheave

2L, 3L, 4L, and 5L Standard Fractional Horsepower V-Belts

Dayton · Continental ContiTech

For use on drive systems that are typically operating at 3 HP or less and are suitable for use in HVAC equipment and appliances. They are manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). Cogged belts run cooler than standard V-belts. **Dayton** belts are oil- and heat-resistant. 2L belts are cogged; 3L, 4L, and 5L belts are static-conductive. All series interchange with major brands such as Browning, Carlisle, ContiTech, Dayco, Gates, Goodyear, and others. **Continental** belts are static conductive, plus heat-, ozone-, and abrasion-resistant. 4L and 5L belts are cogged.

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.	Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.	Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.	Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
2L (¼ in Top Width by 5/32 in Nom. Thickness)				3L560	56 in	**3L560**	**459J17**	4L560	56 in	**4L560**	**459J78**	5L390	39 in	**5L390**	**459K14**
2L100	10 in	**13V770**	—	3L570	57 in	**3L570**	**458T39**	4L570	57 in	**4L570**	**459J79**	5L400	40 in	**5L400**	**459K15**
2L110	11 in	**13V771**	—	3L580	58 in	**3L580**	**458T40**	4L580	58 in	**4L580**	**459J80**	5L410	41 in	**5L410**	**459K16**
2L120	12 in	**13V772**	**459H33**	3L590	59 in	**3L590**	**459J18**	4L590	59 in	**4L590**	**459J81**	5L420	42 in	**5L420**	**459K17**
2L130	13 in	**13V773**	—	3L600	60 in	**3L600**	**459J19**	4L600	60 in	**4L600**	**459J82**	5L430	43 in	**5L430**	**459K18**
2L140	14 in	**13V774**	**459H34**	3L610	61 in	**3L610**	**459J20**	4L610	61 in	**4L610**	**459J83**	5L440	44 in	**5L440**	**459K19**
2L150	15 in	**13V775**	**459H35**	3L620	62 in	**13V785**	**458T41**	4L620	62 in	**4L620**	**459J84**	5L450	45 in	**5L450**	**459K20**
2L160	16 in	**13V776**	**459H36**	3L630	63 in	**13V786**	**458T42**	4L630	63 in	**4L630**	**459J85**	5L460	46 in	**5L460**	**459K21**
2L170	17 in	**13V777**	—	3L640	64 in	**13V787**	**458T43**	4L640	64 in	**4L640**	**459J86**	5L470	47 in	**5L470**	**459K22**
2L180	18 in	**13V778**	**459H37**	3L650	65 in	**13V788**	**458T44**	4L650	65 in	**4L650**	**459J87**	5L480	48 in	**5L480**	**459K23**
2L190	19 in	**13V779**	**459H38**	3L660	66 in	**13V789**	**458T45**	4L660	66 in	**4L660**	**459J88**	5L490	49 in	**5L490**	**459K24**
2L200	20 in	**13V780**	**459H39**	3L670	67 in	**13V790**	**458T46**	4L670	67 in	**4L670**	**459J89**	5L500	50 in	**5L500**	**459K25**
2L240	24 in	**13V781**	**459H40**	3L680	68 in	**13V791**	—	4L680	68 in	**4L680**	**459J90**	5L510	51 in	**5L510**	**459K26**
2L260	26 in	**13V782**	**459H41**	3L690	69 in	**13V792**	**458T47**	4L690	69 in	**4L690**	**459J91**	5L520	52 in	**5L520**	**459K27**
2L280	28 in	**13V783**	—	3L700	70 in	**13V793**	—	4L700	70 in	**4L700**	—	5L530	53 in	**5L530**	**459K28**
2L340	34 in	**13V784**	—	3L710	71 in	**13V794**	—	4L710	71 in	**4L710**	—	5L540	54 in	**5L540**	**459K29**
3L (⅜ in Top Width by 7/32 in Nom. Thickness)				3L720	72 in	**13V795**	—	4L720	72 in	**4L720**	—	5L550	55 in	**5L550**	**459K30**
3L110	11 in	**3GWD2**	—	3L730	73 in	**13V796**	**458T48**	4L730	73 in	**4L730**	**459J92**	5L560	56 in	**5L560**	**459K31**
3L120	12 in	**3GWD3**	**458T35**	3L740	74 in	**13V797**	**458T49**	4L740	74 in	**4L740**	—	5L570	57 in	**5L570**	**459K32**
3L130	13 in	**3GWD4**	**458T36**	**4L (½ in Top Width by 5/16 in Nom. Thickness)**				4L750	75 in	**4L750**	—	5L580	58 in	**5L580**	**459K33**
3L140	14 in	**3GWD5**	**458T37**	4L1000	100 in	**3X543**	—	4L760	76 in	**4L760**	—	5L590	59 in	**5L590**	**459K34**
3L150	15 in	**3L150**	**459H76**	4L150	15 in	**3GWD6**	**458T64**	4L770	77 in	**4L770**	—	5L600	60 in	**5L600**	**459K35**
3L160	16 in	**3L160**	**459H77**	4L160	16 in	**3GWD7**	**459J38**	4L780	78 in	**4L780**	**459J93**	5L610	61 in	**5L610**	—
3L170	17 in	**3L170**	**459H78**	4L170	17 in	**4L170**	**459J39**	4L790	79 in	**4L790**	**459J94**	5L620	62 in	**5L620**	—
3L180	18 in	**3L180**	**459H79**	4L180	18 in	**4L180**	**459J40**	4L800	80 in	**4L800**	**459J95**	5L630	63 in	**5L630**	—
3L190	19 in	**3L190**	**459H80**	4L190	19 in	**4L190**	**459J41**	4L810	81 in	**3GWD8**	—	5L640	64 in	**5L640**	—
3L200	20 in	**3L200**	**459H81**	4L200	20 in	**4L200**	**459J42**	4L820	82 in	**4L820**	**459J96**	5L650	65 in	**5L650**	**459K36**
3L210	21 in	**3L210**	**459H82**	4L210	21 in	**4L210**	**459J43**	4L830	83 in	**3GWD9**	—	5L660	66 in	**5L660**	—
3L220	22 in	**3L220**	**459H83**	4L220	22 in	**4L220**	**459J44**	4L840	84 in	**4L840**	—	5L670	67 in	**5L670**	—
3L230	23 in	**3L230**	**459H84**	4L230	23 in	**4L230**	**459J45**	4L850	85 in	**3GWE1**	—	5L680	68 in	**5L680**	—
3L240	24 in	**3L240**	**459H85**	4L240	24 in	**4L240**	**459J46**	4L860	86 in	**4L860**	—	5L690	69 in	**5L690**	—
3L250	25 in	**3L250**	**459H86**	4L250	25 in	**4L250**	**459J47**	4L870	87 in	**3GWE2**	—	5L700	70 in	**5L700**	—
3L260	26 in	**3L260**	**459H87**	4L260	26 in	**4L260**	**459J48**	4L880	88 in	**4L880**	**459J97**	5L710	71 in	**5L710**	—
3L270	27 in	**3L270**	**459H88**	4L270	27 in	**4L270**	**459J49**	4L890	89 in	**3GWE3**	—	5L720	72 in	**5L720**	—
3L280	28 in	**3L280**	**459H89**	4L280	28 in	**4L280**	**459J50**	4L900	90 in	**4L900**	—	5L730	73 in	**5L730**	—
3L290	29 in	**3L290**	**459H90**	4L290	29 in	**4L290**	**459J51**	4L910	91 in	**3GWE4**	—	5L740	74 in	**5L740**	—
3L300	30 in	**3L300**	**459H91**	4L300	30 in	**4L300**	**459J52**	4L920	92 in	**4L920**	**459J98**	5L750	75 in	**5L750**	—
3L310	31 in	**3L310**	**459H92**	4L310	31 in	**4L310**	**459J53**	4L930	93 in	**3GWE5**	—	5L760	76 in	**5L760**	—
3L320	32 in	**3L320**	**459H93**	4L320	32 in	**4L320**	**459J54**	4L940	94 in	**4L940**	—	5L770	77 in	**5L770**	—
3L330	33 in	**3L330**	**459H94**	4L330	33 in	**4L330**	**459J55**	4L950	95 in	**3GWE6**	—	5L780	78 in	**5L780**	—
3L340	34 in	**3L340**	**459H95**	4L340	34 in	**4L340**	**459J56**	4L960	96 in	**4L960**	—	5L790	79 in	**5L790**	—
3L350	35 in	**3L350**	**459H96**	4L350	35 in	**4L350**	**459J57**	4L970	97 in	**3GWE7**	—	5L800	80 in	**5L800**	—
3L360	36 in	**3L360**	**459H97**	4L360	36 in	**4L360**	**459J58**	4L980	98 in	**4L980**	**459J99**	5L810	81 in	**3GWE9**	—
3L370	37 in	**3L370**	**459H98**	4L370	37 in	**4L370**	**459J59**	4L990	99 in	**3GWE8**	—	5L820	82 in	**5L820**	**459K37**
3L380	38 in	**3L380**	**459H99**	4L380	38 in	**4L380**	**459J60**	**5L (21/32 in Top Width by ⅜ in Nom. Thickness)**				5L830	83 in	**3GWF1**	—
3L390	39 in	**3L390**	**459J01**	4L390	39 in	**4L390**	**459J61**	5L1000	100 in	**3X544**	—	5L840	84 in	**5L840**	—
3L400	40 in	**3L400**	**459J02**	4L400	40 in	**4L400**	**459J62**	5L230	23 in	**5L230**	**458T65**	5L850	85 in	**3GWF2**	—
3L410	41 in	**3L410**	**459J03**	4L410	41 in	**4L410**	**459J63**	5L240	24 in	**5L240**	**458T66**	5L860	86 in	**5L860**	—
3L420	42 in	**3L420**	**459J04**	4L420	42 in	**4L420**	**459J64**	5L250	25 in	**5L250**	**458T67**	5L870	87 in	**3GWF3**	—
3L430	43 in	**3L430**	**459J05**	4L430	43 in	**4L430**	**459J65**	5L260	26 in	**5L260**	**459K01**	5L880	88 in	**5L880**	—
3L440	44 in	**3L440**	**459J06**	4L440	44 in	**4L440**	**459J66**	5L270	27 in	**5L270**	**459K02**	5L890	89 in	**3GWF4**	—
3L450	45 in	**3L450**	**459J07**	4L450	45 in	**4L450**	**459J67**	5L280	28 in	**5L280**	**459K03**	5L900	90 in	**5L900**	—
3L460	46 in	**3L460**	**459J08**	4L460	46 in	**4L460**	**459J68**	5L290	29 in	**5L290**	**459K04**	5L910	91 in	**3GWF5**	—
3L470	47 in	**3L470**	**459J09**	4L470	47 in	**4L470**	**459J69**	5L300	30 in	**5L300**	**459K05**	5L920	92 in	**5L920**	—
3L480	48 in	**3L480**	**459J10**	4L480	48 in	**4L480**	**459J70**	5L310	31 in	**5L310**	**459K06**	5L930	93 in	**3GWF6**	—
3L490	49 in	**3L490**	**459J11**	4L490	49 in	**4L490**	**459J71**	5L320	32 in	**5L320**	**459K07**	5L940	94 in	**5L940**	—
3L500	50 in	**3L500**	**459J12**	4L500	50 in	**4L500**	**459J72**	5L330	33 in	**5L330**	**459K08**	5L950	95 in	**3GWF7**	—
3L510	51 in	**3L510**	**459J13**	4L510	51 in	**4L510**	**459J73**	5L340	34 in	**5L340**	**459K09**	5L960	96 in	**5L960**	—
3L520	52 in	**3L520**	**459J14**	4L520	52 in	**4L520**	**459J74**	5L350	35 in	**5L350**	**459K10**	5L970	97 in	**3GWF8**	—
3L530	53 in	**3L530**	**459J15**	4L530	53 in	**4L530**	**459J75**	5L360	36 in	**5L360**	**459K11**	5L980	98 in	**5L980**	—
3L540	54 in	**3L540**	**458T38**	4L540	54 in	**4L540**	**459J76**	5L370	37 in	**5L370**	**459K12**	5L990	99 in	**3GWF9**	—
3L550	55 in	**3L550**	**459J16**	4L550	55 in	**4L550**	**459J77**	5L380	38 in	**5L380**	**459K13**				

Scan. Order. Done.
Details on page A1.

A, B, C, 3V, and 5V Standard V-Belts

These belts are constructed to matching specifications, so all belts of the same size are within the tolerances set by the ARPM (Association of Rubber Products Manufacturers). A, B, and C section belts are for use in drive systems that require power transmission of 1 HP or greater. 3V and 5V section belts can transfer higher power than classical V-belts of the same size. **Dayton** belts are oil- and heat-resistant, and static-conductive, and interchange with brands such as Browning, Carlisle, ContiTech, Dayco, Gates, and Goodyear. **Continental** belts are engineered with high-grade rubber for static conductivity and resistance to heat, ozone, oil, and abrasion.

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
A (1/2 in Top Width by 5/16 in Nom. Thickness)			
A17	19 in	—	488Z76
A18	20 in	3GWG1	—
A19	21 in	3GWG2	459K62
A20	22 in	3GWG3	459K63
A21	23 in	3GWG4	459K64
A22	24 in	3GWG5	459K65
A23	25 in	3GWG6	459K66
A24	26 in	3GWG7	459K67
A25	27 in	3GWG8	459K68
A26	28 in	3X697	459K69
A27	29 in	6A139	459K70
A28	30 in	6A140	459K71
A29	31 in	6A141	459K72
A30	32 in	1A095	459K73
A31	33 in	3X654	459K74
A32	34 in	6A142	459K75
A33	35 in	5X995	459K76
A34	36 in	6A143	459K77
A35	37 in	3X620	459K78
A36	38 in	6A144	459K79
A37	39 in	6A145	459K80
A38	40 in	3X545	459K81
A39	41 in	6A146	459K82
A40	42 in	1A109	459K83
A41	43 in	1A100	459K84
A42	44 in	3X621	459K85
A43	45 in	3X699	459K86
A44	46 in	6A147	459K87
A45	47 in	1A105	459K88
A46	48 in	3X471	459K89
A47	49 in	1A098	459K90
A48	50 in	3X472	459K91
A49	51 in	1A096	459K92
A50	52 in	3X546	459K93
A51	53 in	3X473	459K94
A52	54 in	3X702	459K95
A53	55 in	6X565	459K96
A54	56 in	3X700	459K97
A55	57 in	3X622	459K98
A56	58 in	3X704	459K99
A57	59 in	6A148	459L01
A58	60 in	3X547	459L02
A59	61 in	6A149	459L03
A60	62 in	3X623	459L04
A61	63 in	6A150	459L05
A62	64 in	3X624	459L06
A63	65 in	5A290	459L07
A64	66 in	3X625	459L08
A65	67 in	5A291	459L09
A66	68 in	6X569	459L10
A67	69 in	6L182	459L11
A68	70 in	3X626	459L12
A69	71 in	6L183	459L13
A70	72 in	6A151	459L14
A71	73 in	3X627	459L15
A72	74 in	5A292	459L16
A73	75 in	6L184	459L17
A74	76 in	5A293	459L18
A75	77 in	3X628	459L19
A76	78 in	6L185	459L20
A77	79 in	6L186	459L21
A78	80 in	6X570	459L22
A79	81 in	6L187	459L23
A80	82 in	3X629	459L24
A81	83 in	6L188	459L25
A82	84 in	6L189	459L26
A83	85 in	6L190	459L27
A84	86 in	5A294	459L28
A85	87 in	3X630	459L29
A86	88 in	6L318	459L30
A87	89 in	6L191	459L31
A88	90 in	5A295	459L32
A89	91 in	6L192	459L33
A90	92 in	3X631	459L34
A91	93 in	6L193	459L35
A92	94 in	6A152	459L36
A93	95 in	6L194	459L37
A94	96 in	6L195	459L38
A95	97 in	6L196	459L39
A96	98 in	3X632	459L40
A97	99 in	6L197	459L41
A98	100 in	6L198	459L42
A100	102 in	6L199	459K52
A101	103 in	3GWG9	458T89
A102	104 in	3GWH1	459K53
A103	105 in	6L200	459K54
A105	107 in	3X351	459K55
A106	108 in	3GWH2	—
A110	112 in	6L201	459K56
A112	114 in	3X352	459K57
A120	122 in	3X371	459K58

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
A128	130 in	3X633	459K59
A133	135 in	3GWH4	458T91
A136	138 in	6L202	459K60
A144	146 in	6L203	459K61
A158	160 in	6L204	458T93
A173	175 in	6L205	458T94
A180	182 in	6L206	458T95
B (21/32 in Top Width by 13/32 in Nom. Thickness)			
B25	28 in	3GWH5	459L81
B26	29 in	3GWH6	459L82
B27	30 in	3GWH7	459L83
B28	31 in	6L207	459L84
B29	32 in	6L208	459L85
B30	33 in	1A103	459L86
B31	34 in	6L209	459L87
B32	35 in	6A153	459L88
B33	36 in	1A099	459L89
B34	37 in	6A154	459L90
B35	38 in	3X634	459L91
B36	39 in	6A155	459L92
B37	40 in	6L210	459L93
B38	41 in	3X635	459L94
B39	42 in	6L211	459L95
B40	43 in	3X698	459L96
B41	44 in	6A156	459L97
B42	45 in	3X636	459L98
B43	46 in	1A107	459L99
B44	47 in	6X571	459M01
B45	48 in	1A094	459M02
B46	49 in	3X637	459M03
B47	50 in	1A106	459M04
B48	51 in	3X474	459M05
B49	52 in	1A097	459M06
B50	53 in	3X475	459M07
B51	54 in	3X638	459M08
B52	55 in	6X874	459M09
B53	56 in	3X611	459M10
B54	57 in	6X875	459M11
B55	58 in	3X612	459M12
B56	59 in	6X876	459M13
B57	60 in	3X706	459M14
B58	61 in	6X998	459M15
B59	62 in	1A108	459M16
B60	63 in	3X639	459M17
B61	64 in	1A104	459M18
B62	65 in	3X613	459M19
B63	66 in	3X703	459M20
B64	67 in	3X614	459M21
B65	68 in	6X999	459M22
B66	69 in	3X640	459M23
B67	70 in	6A157	459M24
B68	71 in	3X641	459M25
B69	72 in	1A102	459M26
B70	73 in	5X475	459M27
B71	74 in	3X642	459M28
B72	75 in	3X615	459M29
B73	76 in	3X705	459M30
B74	77 in	6A158	459M31
B75	78 in	3X643	459M32
B76	79 in	6A159	459M33
B77	80 in	6A160	459M34
B78	81 in	3X644	459M35
B79	82 in	6A161	459M36
B80	83 in	5X476	459M37
B81	84 in	3X645	459M38
B82	85 in	1A101	459M39
B83	86 in	3X646	459M40
B84	87 in	6A162	459M41
B85	88 in	3X647	459M42
B86	89 in	6A163	459M43
B87	90 in	6A164	459M44
B88	91 in	3X701	459M45
B89	92 in	6L212	459M46
B90	93 in	3X648	459M47
B91	94 in	6L213	459M48
B92	95 in	6A165	459M49
B93	96 in	5X477	459M50
B94	97 in	6L214	459M51
B95	98 in	5X478	459M52
B96	99 in	5X479	459M53
B97	100 in	3X649	459M54
B98	101 in	6L215	459M55
B99	102 in	6A166	459M56
B100	103 in	5X480	459L43
B101	104 in	6L216	459L44
B102	105 in	3GWH8	459L45
B103	106 in	5X481	459L46
B104	107 in	3GWH9	459L47
B105	108 in	3X650	459L48
B106	109 in	13V798	459L49
B107	110 in	3GXD8	458T96
B108	111 in	5X482	459L50

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
B110	113 in	3GXD9	459L51
B111	114 in	6L217	459L52
B112	115 in	3X353	459L53
B114	117 in	3GWJ1	459L54
B115	118 in	3GWJ2	459L55
B116	119 in	6A167	459L56
B117	120 in	3GWJ3	458T97
B118	121 in	3GWJ4	459L57
B120	123 in	3X354	459L58
B122	125 in	3GWJ5	458T98
B123	126 in	3GWJ6	459L59
B124	127 in	6A168	459L60
B126	129 in	3GWJ7	459L61
B128	131 in	3X372	459L62
B130	133 in	3GWJ8	459L63
B131	134 in	3GWJ9	—
B133	136 in	6A169	459L64
B134	137 in	3GWK1	458U01
B135	138 in	13V799	459L65
B136	139 in	5X483	459L66
B137	140 in	13V801	—
B138	141 in	13V802	458U02
B140	143 in	6L218	459L67
B141	144 in	13V803	458U03
B142	145 in	3GWK2	459L68
B144	147 in	3X651	459L69
B147	150 in	3GWK3	458U04
B148	151 in	6L219	459L70
B149	152 in	3GWK4	—
B150	153 in	6L220	459L71
B152	155 in	3GWK5	458U05
B154	157 in	6L221	459L72
B156	159 in	13V804	458U07
B158	161 in	3X374	459L73
B160	163 in	13V805	458U08
B162	165 in	6A170	459L74
B165	168 in	13V806	—
B166	169 in	—	488Z75
B168	171 in	3GWK7	458U09
B170	173 in	13V807	458U10
B172	175 in	13V808	—
B173	176 in	5X484	459L75
B175	178 in	3GWK8	458U11
B180	183 in	6A171	459L76
B185	188 in	3GWK9	458U12
B190	193 in	6L222	459L77
B195	198 in	6A172	459L78
B205	208 in	6L223	458U13
B210	213 in	6L224	459L79
B225	226 in	6L225	—
B225	228 in	—	458U14
B240	242 in	6L226	459L80
B255	257 in	6L227	458U15
B270	272 in	6L228	458U16
B285	287 in	13V810	458U17
B290	292 in	13V811	458U18
B300	302 in	13V814	458U20
B315	317 in	13V815	458U21
B330	332 in	13V816	458U22
B345	346 in	13V817	—
B360	362 in	13V818	458U23
C (7/8 in Top Width by 17/32 in Nom. Thickness)			
C51	55 in	4FJ14	459H06
C55	59 in	4FJ15	459H08
C60	64 in	4FJ16	459M75
C62	66 in	3GWL6	459H10
C68	72 in	4FJ17	459H14
C72	76 in	4FJ18	459H17
C75	79 in	4FJ19	459M76
C78	82 in	3GWN4	459H20
C79	83 in	3GWN5	459H21
C80	84 in	13V829	459H22
C81	85 in	4FJ20	459M77
C82	86 in	3GWN6	459H23
C85	89 in	4FJ21	459M78
C90	94 in	4FJ22	459M79
C93	97 in	3GWN9	459H27
C95	99 in	13V835	459H29
C96	100 in	4FJ23	459M80
C97	101 in	4FJ24	459H30
C99	103 in	4FJ25	459H32
C100	104 in	4FH83	459M59
C101	105 in	13V836	459G61
C103	107 in	3GWP2	459G62
C105	109 in	4FH84	459M60
C108	112 in	4FH85	459G65
C109	113 in	4FH86	459M61
C112	116 in	4FH87	459M62
C115	119 in	4FH88	459M63
C118	122 in	3GWP9	459G68
C120	124 in	4FH89	459M64

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
C124	128 in	4FH90	459G70
C128	132 in	4FH91	459M65
C130	134 in	3GWR2	459G72
C135	139 in	3GWR5	—
C136	140 in	4FH92	459M66
C140	144 in	3GWR6	459G75
C144	148 in	4FH93	459M67
C148	152 in	3GWR9	459G78
C150	154 in	4FH94	459M68
C152	156 in	3GWT2	459G80
C156	160 in	3GWT3	459G81
C158	162 in	4FH95	459M69
C162	166 in	4FH96	459M70
C169	173 in	3GWT4	459G83
C170	174 in	3GWT5	459G84
C173	177 in	4FH97	459M71
C180	184 in	4FH98	459M72
C190	194 in	3GWT9	459G88
C195	199 in	4FH99	459M73
C210	214 in	4FJ01	459M74
C225	227 in	4FJ02	459G90
C240	242 in	4FJ03	459G91
C255	257 in	4FJ04	459G92
C270	272 in	13V845	459G93
C285	287 in	13V846	459G94
C300	302 in	13V847	459G95
C330	332 in	13V849	459G97
C360	362 in	13V851	459G99
3V (3/8 in Top Width by 5/16 in Nom. Thickness)			
3V250	25 in	13V704	458T57
3V300	30 in	13V707	458T60
3V315	31 in	13V708	459J21
3V335	33 in	13V709	459J22
3V355	35 in	13V710	459J23
3V375	37 in	13V711	459J24
3V400	40 in	13V712	459J25
3V425	42 in	13V713	459J26
3V450	45 in	13V714	458T61
3V475	47 in	13V715	459J27
3V500	50 in	13V716	459J28
3V530	53 in	13V717	459J29
3V560	56 in	13V718	459J30
3V600	60 in	13V719	459J31
3V630	63 in	13V720	459J32
3V670	67 in	13V721	459J33
3V710	71 in	13V722	459J34
3V750	75 in	13V723	459J35
3V800	80 in	13V724	459J36
3V850	85 in	13V725	458T62
3V900	90 in	13V726	459J37
3V950	95 in	13V727	458T63
3V1000	100 in	13V728	458T50
3V1060	106 in	13V729	458T51
3V1120	112 in	13V730	458T52
3V1180	118 in	13V731	458T53
3V1250	125 in	13V732	458T54
3V1400	140 in	13V734	458T56
5V (5/8 in Top Width by 17/32 in Nom. Thickness)			
5V500	50 in	13V735	458T82
5V530	53 in	13V736	458T83
5V560	56 in	13V737	458T84
5V600	60 in	13V738	458T85
5V630	63 in	13V739	458T86
5V670	67 in	13V740	458T87
5V710	71 in	13V741	459K47
5V750	75 in	13V742	459K48
5V800	80 in	13V743	458T88
5V850	85 in	13V744	459K49
5V900	90 in	13V745	459K50
5V950	95 in	13V746	459K51
5V1000	100 in	13V747	459K38
5V1060	106 in	13V748	459K39
5V1120	112 in	13V749	459K40
5V1180	118 in	13V750	458T68
5V1250	125 in	13V751	459K41
5V1320	132 in	13V752	459K42
5V1400	140 in	13V753	459K43
5V1500	150 in	13V754	459K44
5V1600	160 in	13V755	458T69
5V1700	170 in	13V756	459K45
5V1800	180 in	13V757	458T70
5V1900	190 in	13V758	458T71
5V2000	200 in	13V759	458T72
5V2120	212 in	13V760	459K46
5V2240	224 in	13V761	458T73
5V2360	236 in	13V762	458T74
5V2500	250 in	13V763	458T75
5V2650	265 in	13V764	458T76
5V2800	280 in	13V765	458T77
5V3150	315 in	13V767	458T79
5V3350	335 in	13V768	458T80

Find more information on V-Belts on page 95.

Dayton Continental ContiTech

AX, BX, CX, 3VX, and 5VX Cogged V-Belts

Feature a cogged design that allows the belts to run cooler than standard V-belts. Constructed to matching specifications, so all belts of the same size are within the tolerances set by the ARPM (Association of Rubber Products Manufacturers). **Dayton** belts resist oil and heat, are static conductive, and are suitable for medium/high HP industrial applications that require single or multiple V-belt drives. They can interchange with brands such as Browning, Carlisle, ContiTech, Dayco, Gates, and Goodyear. **Continental** belts are oil- and heat-resistant and the static-conductive EPDM construction allows a -40° to 230°F temperature range for harsh environments.

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
AX (1/2 in Top Width by 5/16 in Nom. Thickness)			
AX19	21 in	3VU38	—
AX20	22 in	3VU39	459N66
AX21	23 in	3VU40	459N67
AX22	24 in	3VU41	459N68
AX23	25 in	3VU42	459N69
AX24	26 in	3VU43	459N70
AX25	27 in	3VU44	459N71
AX26	28 in	6A115	459N72
AX27	29 in	3GWU2	459N73
AX28	30 in	6L233	459N74
AX29	31 in	3GWU3	459N75
AX30	32 in	3GWU4	459N76
AX31	33 in	6A116	459N77
AX32	34 in	1YVU7	459N78
AX33	35 in	6A117	459N79
AX34	36 in	6L234	459N80
AX35	37 in	6A118	459N81
AX36	38 in	6A119	459N82
AX37	39 in	6L235	459N83
AX38	40 in	6A120	459N84
AX39	41 in	3GWU6	459N85
AX40	42 in	1YVU8	459N86
AX41	43 in	1YVU9	459N87
AX42	44 in	6A121	459N88
AX43	45 in	6L236	459N89
AX44	46 in	3GWU9	459N90
AX45	47 in	1YVX1	459N91
AX46	48 in	6A122	459N92
AX47	49 in	3GWX2	459N93
AX48	50 in	6L237	459N94
AX49	51 in	1YVX2	459N95
AX50	52 in	3GWX4	459N96
AX51	53 in	6L238	459N97
AX52	54 in	3GWX5	459N98
AX53	55 in	6L239	459N99
AX54	56 in	6L240	459P01
AX55	57 in	6L241	459P02
AX56	58 in	6L242	459P03
AX57	59 in	3GWX6	459P04
AX58	60 in	3GWX7	459P05
AX59	61 in	3GWX8	459P06
AX60	62 in	6L243	459P07
AX61	63 in	3GWX9	459P08
AX62	64 in	6L244	459P09
AX63	65 in	3GWY1	459P10
AX64	66 in	6L245	459P11
AX65	67 in	3GWY2	459P12
AX66	68 in	6L246	459P13
AX67	69 in	3GWY3	459P14
AX68	70 in	6L247	459P15
AX69	71 in	3GWY4	459P16
AX70	72 in	6L248	459P17
AX71	73 in	6L249	459P18
AX72	74 in	3GWY5	459P19
AX73	75 in	3GWY6	459P20
AX74	76 in	—	488Z77
AX75	77 in	6L250	459P21
AX77	79 in	3GWY7	459P22
AX78	80 in	6L251	459P23
AX79	81 in	3GWY8	459P24
AX80	82 in	6L252	459P25
AX81	83 in	—	485D36
AX82	84 in	3GWY9	459P26
AX83	85 in	3GWZ1	459P27
AX85	87 in	6L253	459P28
AX86	88 in	3GWZ2	459P29
AX87	89 in	3GWZ3	459P30
AX88	90 in	3GWZ4	459P31
AX89	91 in	52LD57	459H50
AX90	92 in	6L254	459P32
AX92	94 in	6L255	—
AX93	95 in	—	485D37
AX94	96 in	3GWZ5	459H51
AX95	97 in	3GWZ6	459P33
AX96	98 in	6L256	459P34
AX98	100 in	3GWZ7	459H52
AX100	102 in	13W525	459H45
AX105	107 in	6L257	459N64

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
AX110	112 in	6L258	459H46
AX112	114 in	6L259	459H47
AX120	122 in	6L260	459N65
AX128	130 in	6L261	459H48
AX136	138 in	6L262	459H49
AX144	146 in	6L263	—
AX158	160 in	13W526	—
AX173	175 in	13W527	—
AX180	182 in	13W528	—
BX (21/32 in Top Width by 13/32 in Nom. Thickness)			
BX25	28 in	5TXL1	—
BX27	30 in	5TXL2	459P57
BX28	31 in	5TXL3	459P58
BX29	32 in	5TXL4	459P59
BX30	33 in	5TXL5	459P60
BX31	34 in	5TXL6	459P61
BX32	35 in	3GWZ8	459P62
BX33	36 in	5TXL7	459P63
BX34	37 in	3GWZ9	459P64
BX35	38 in	6L267	459P65
BX36	39 in	6A123	459P66
BX37	40 in	3GXA1	459P67
BX38	41 in	6A124	459P68
BX39	42 in	3GXA2	459P69
BX40	43 in	3GXA3	459P70
BX41	44 in	3GXA4	459P71
BX42	45 in	6A125	459P72
BX43	46 in	3GXA5	459P73
BX44	47 in	3GXA6	459P74
BX45	48 in	5TXL8	459P75
BX46	49 in	6A126	459P76
BX47	50 in	13W529	459P77
BX48	51 in	6A127	459P78
BX49	52 in	13W530	459P79
BX50	53 in	6L268	459P80
BX51	54 in	6L269	459P81
BX52	55 in	6L270	459P82
BX53	56 in	6L271	459P83
BX54	57 in	6L272	459P84
BX55	58 in	6A128	459P85
BX56	59 in	6A129	459P86
BX57	60 in	6L273	459P87
BX58	61 in	6L274	459P88
BX59	62 in	6L275	459P89
BX60	63 in	6A130	459P90
BX61	64 in	6L276	459P91
BX62	65 in	6L277	459P92
BX63	66 in	6L278	459P93
BX64	67 in	6L279	459P94
BX65	68 in	6A131	459P95
BX66	69 in	6L280	459P96
BX67	70 in	6L281	459P97
BX68	71 in	6A132	459P98
BX70	73 in	6L282	459P99
BX71	74 in	6A133	459R01
BX72	75 in	3GXA7	459R02
BX73	76 in	3GXA8	459R03
BX74	77 in	3GXA9	459R04
BX75	78 in	6A134	459R05
BX76	79 in	3HFC9	459R06
BX77	80 in	6L283	459R07
BX78	81 in	6L284	459R08
BX79	82 in	6L285	459R09
BX80	83 in	6L286	459R10
BX81	84 in	6L287	459R11
BX82	85 in	6L288	459R12
BX83	86 in	6L289	459R13
BX84	87 in	3GXC1	459R14
BX85	88 in	6A135	459R15
BX86	89 in	3GXC2	459R16
BX87	90 in	3GXC3	459R17
BX88	91 in	13W531	459R18
BX89	92 in	3GXC4	459R19
BX90	93 in	6A136	459R20
BX91	94 in	3HFD1	459R21
BX92	95 in	3GXC5	459R22
BX93	96 in	6L290	459R23
BX94	97 in	13W532	459R24
BX95	98 in	6L291	459R25

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
BX96	99 in	6L292	459R26
BX97	100 in	6L293	459R27
BX98	101 in	—	485D41
BX99	102 in	6L294	459R28
BX100	103 in	6L295	459P35
BX103	106 in	3VU45	459P36
BX105	108 in	6L296	459P37
BX106	109 in	3GXC6	459P38
BX108	111 in	6L297	459P39
BX112	115 in	6A137	459P40
BX113	116 in	6L298	459P41
BX115	118 in	6L299	459P42
BX116	119 in	6L300	459P43
BX120	123 in	6L301	459P44
BX123	126 in	—	485D38
BX124	127 in	6L302	459P45
BX126	129 in	3GXC7	459P46
BX128	131 in	6L303	459P47
BX133	136 in	6L304	459P48
BX136	139 in	6L305	459P49
BX144	147 in	6L306	459P50
BX148	151 in	—	485D39
BX150	153 in	6L307	459P51
BX154	157 in	—	485D40
BX158	161 in	6L308	459P52
BX162	165 in	6L309	459P53
BX173	176 in	6L310	459P54
BX180	183 in	6L311	459P55
BX195	198 in	6L312	459P56
BX210	213 in	6L313	459H53
BX225	227 in	3GXC8	459H54
BX240	242 in	6L314	459H55
CX (7/8 in Top Width by 17/32 in Nom. Thickness)			
CX51	55 in	4FJ43	459H68
CX55	59 in	13W533	459H69
CX60	64 in	4FJ44	459H70
CX68	72 in	4FJ45	459H71
CX70	74 in	13W534	—
CX72	76 in	—	485D42
CX75	79 in	4FJ46	459H72
CX81	85 in	4FJ47	459H73
CX85	89 in	4FJ48	459H74
CX90	94 in	4FJ49	459R35
CX96	100 in	4FJ50	459H75
CX101	105 in	4FJ26	459H56
CX105	109 in	4FJ27	459R29
CX109	113 in	4FJ28	459H57
CX111	115 in	3GXC9	459H58
CX112	116 in	4FJ29	459R30
CX115	119 in	3GXD1	459H59
CX120	124 in	4FJ30	459R31
CX123	127 in	3GXD2	—
CX128	132 in	4FJ31	459R32
CX133	137 in	3GXD3	—
CX136	140 in	4FJ32	459R33
CX144	148 in	4FJ33	459R34
CX150	154 in	4FJ34	459H60
CX158	162 in	4FJ35	459H61
CX162	166 in	4FJ36	459H62
CX173	177 in	4FJ37	459H63
CX180	184 in	4FJ38	459H64
CX190	194 in	3GXD5	—
CX195	199 in	4FJ39	459H65
CX210	214 in	4FJ40	459H66
CX225	227 in	3GXD6	—
CX240	242 in	4FJ41	459H67
3VX (3/8 in Top Width by 5/16 in Nom. Thickness)			
3VX235	23 in	13W535	—
3VX250	25 in	2L377	459M86
3VX265	26 in	2L378	459M87
3VX280	28 in	2L379	459M88
3VX300	30 in	2L380	459M89
3VX315	31 in	2L381	459M90
3VX335	33 in	2L382	459M91
3VX355	35 in	2L383	459M92
3VX360	36 in	13W536	—
3VX375	37 in	2L384	459M93
3VX400	40 in	2L385	459M94

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
3VX425	42 in	2L386	459M95
3VX450	45 in	2L387	459M96
3VX475	47 in	2L388	459M97
3VX500	50 in	2L389	459M98
3VX530	53 in	2L390	459M99
3VX560	56 in	2L391	459N01
3VX600	60 in	2L392	459N02
3VX630	63 in	2L393	459N03
3VX670	67 in	2L394	459N04
3VX710	71 in	2L395	459N05
3VX750	75 in	2L396	459N06
3VX800	80 in	2L397	459N07
3VX830	83 in	13W537	459H44
3VX850	85 in	2L398	459N08
3VX900	90 in	2L399	459N09
3VX950	95 in	2L400	459N10
3VX1000	100 in	2L401	459M81
3VX1060	106 in	2L402	459M82
3VX1120	112 in	2L403	459M83
3VX1180	118 in	2L404	459M84
3VX1250	125 in	2L405	459M85
3VX1320	132 in	2L406	459H42
3VX1400	140 in	2L407	459H43
3VX1500	150 in	—	485D34
5VX (5/8 in Top Width by 17/32 in Nom. Thickness)			
5VX450	45 in	2L408	459N28
5VX470	47 in	2L409	459N29
5VX490	49 in	2L410	459N30
5VX500	50 in	2L411	459N31
5VX510	51 in	2L412	459N32
5VX530	53 in	2L413	459N33
5VX540	54 in	2L414	459N34
5VX550	55 in	2L415	459N35
5VX560	56 in	2L416	459N36
5VX570	57 in	2L417	459N37
5VX580	58 in	2L418	459N38
5VX590	59 in	2L419	459N39
5VX600	60 in	2L420	459N40
5VX610	61 in	2L421	459N41
5VX630	63 in	2L422	459N42
5VX650	65 in	2L423	459N43
5VX660	66 in	2L424	459N44
5VX670	67 in	2L425	459N45
5VX680	68 in	2L426	459N46
5VX690	69 in	2L427	459N47
5VX710	71 in	2L428	459N48
5VX730	73 in	2L429	459N49
5VX740	74 in	2L430	459N50
5VX750	75 in	2L431	459N51
5VX780	78 in	2L432	459N52
5VX800	80 in	2L433	459N53
5VX810	81 in	2L434	459N54
5VX830	83 in	2L435	459N55
5VX840	84 in	2L436	459N56
5VX850	85 in	2L437	459N57
5VX860	86 in	2L438	459N58
5VX880	88 in	2L439	459N59
5VX900	90 in	2L440	459N60
5VX930	93 in	2L441	459N61
5VX950	95 in	2L442	459N62
5VX960	96 in	2L443	459N63
5VX1000	100 in	2L444	459N11
5VX1030	103 in	2L445	459N12
5VX1060	106 in	2L446	459N13
5VX1080	108 in	2L447	459N14
5VX1120	112 in	2L448	459N15
5VX1150	115 in	2L449	459N16
5VX1180	118 in	2L450	459N17
5VX1230	123 in	2L451	459N18
5VX1250	125 in	2L452	459N19
5VX1320	132 in	2L453	459N20
5VX1400	140 in	2L454	459N21
5VX1500	150 in	2L455	459N22
5VX1600	160 in	2L456	459N23
5VX1700	170 in	2L457	459N24
5VX1800	180 in	2L458	459N25
5VX1900	190 in	2L459	459N26
5VX2000	200 in	2L460	459N27

Scan. Order. Done.
Details on page A1.

3HEY5

Dayton Continental ContiTech

B and C Banded Standard V-Belts

- **For D Banded Standard V-Belts and additional sizes of B and C Banded Belts, go to Grainger.com**

Offer more stability than multiple, single V-belts, and provide additional protection against heat and oil. Belts are constructed of multiple V-belts fused together to create ribs in a V-belt with reinforced backing. For use in drive systems that require power transmission of 1 HP or greater, and in applications where multiple V-belts are needed but speed fluctuations, misalignment, and vibration might cause single belts to whip, turn over, or slide off the pulley. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Base Industry No.	Outside L	Brand	Number of Ribs: 2 Thickness	2 Top Width	2 Item No.	3 Thickness	3 Top Width	3 Item No.	4 Thickness	4 Top Width	4 Item No.	5 Thickness	5 Top Width	5 Item No.	6 Thickness	6 Top Width	6 Item No.
B Section Banded V-Belts																	
B46	49.8 in	Dayton	½ in	1 21/64 in	**13G875**	½ in	2 in	**13V466**	½ in	2 43/64 in	**13V523**	½ in	3 21/64 in	**13V580**	½ in	4 in	**13W316**
B48	51.8 in	Dayton	½ in	1 21/64 in	**3HEX5**	½ in	2 in	**13V467**	½ in	2 43/64 in	**13V524**	½ in	3 21/64 in	**13V581**	½ in	4 in	**13W317**
B50	53.8 in	Dayton	½ in	1 21/64 in	**13G876**	½ in	2 in	**13V468**	½ in	2 43/64 in	**13V525**	½ in	3 21/64 in	**13V582**	½ in	4 in	**13W318**
B51	54.8 in	Dayton	½ in	1 21/64 in	**13G877**	½ in	2 in	**13V469**	½ in	2 43/64 in	**13V526**	½ in	3 21/64 in	**13V583**	½ in	4 in	**13W319**
B52	55.8 in	Dayton	½ in	1 21/64 in	**13G878**	½ in	2 in	**13V470**	½ in	2 43/64 in	**13V527**	½ in	3 21/64 in	**13V584**	½ in	4 in	**13W320**
B53	56.8 in	Dayton	½ in	1 21/64 in	**13G879**	½ in	2 in	**13V471**	½ in	2 43/64 in	**13V528**	½ in	3 21/64 in	**13V585**	½ in	4 in	**13W321**
B54	57.8 in	Dayton	½ in	1 21/64 in	**13G880**	½ in	2 in	**13V472**	½ in	2 43/64 in	**13V529**	½ in	3 21/64 in	**13V586**	½ in	4 in	**13W322**
B55	58.8 in	Dayton	½ in	1 21/64 in	**13G881**	½ in	2 in	**13V473**	½ in	2 43/64 in	**3HEY4**	½ in	3 21/64 in	**13V587**	½ in	4 in	**13W323**
B56	59.8 in	Dayton	½ in	1 21/64 in	**13G882**	½ in	2 in	**13V474**	½ in	2 43/64 in	**13V530**	½ in	3 21/64 in	**13V588**	½ in	4 in	**13W324**
B57	60.8 in	Dayton	½ in	1 21/64 in	**13G883**	½ in	2 in	**13V475**	½ in	2 43/64 in	**13V531**	½ in	3 21/64 in	**13V589**	½ in	4 in	**13W325**
B58	61.8 in	Dayton	½ in	1 21/64 in	**13G884**	½ in	2 in	**13V476**	½ in	2 43/64 in	**13V532**	½ in	3 21/64 in	**13V590**	½ in	4 in	**13W326**
B59	62.8 in	Dayton	½ in	1 21/64 in	**13G885**	½ in	2 in	**13V477**	½ in	2 43/64 in	**13V533**	½ in	3 21/64 in	**13V591**	½ in	4 in	**13W327**
B60	63.8 in	Dayton	½ in	1 21/64 in	**13G886**	½ in	2 in	**3HFC1**	½ in	2 43/64 in	**13V534**	½ in	3 21/64 in	**13V592**	½ in	4 in	**13W328**
B61	64.8 in	Dayton	½ in	1 21/64 in	**13G887**	½ in	2 in	**13V478**	½ in	2 43/64 in	**13V535**	½ in	3 21/64 in	**13V593**	—	—	—
B62	65.8 in	Dayton	½ in	1 21/64 in	**3HEZ2**	½ in	2 in	**13V479**	½ in	2 43/64 in	**3HFC5**	½ in	3 21/64 in	**13V594**	½ in	4 in	**13W330**
B63	66.8 in	Dayton	½ in	1 21/64 in	**13G888**	½ in	2 in	**13V480**	½ in	2 43/64 in	**13V536**	½ in	3 21/64 in	**13V595**	½ in	4 in	**13W331**
B64	67.8 in	Dayton	½ in	1 21/64 in	**13G889**	½ in	2 in	**3HFA8**	½ in	2 43/64 in	**13V537**	½ in	3 21/64 in	**13V596**	½ in	4 in	**13W332**
B65	68.8 in	Dayton	½ in	1 21/64 in	**13G890**	½ in	2 in	**13V481**	½ in	2 43/64 in	**13V538**	½ in	3 21/64 in	**13V597**	½ in	4 in	**13W333**
B66	69.8 in	Dayton	½ in	1 21/64 in	**13G891**	½ in	2 in	**13V482**	½ in	2 43/64 in	**13V539**	½ in	3 21/64 in	**13V598**	½ in	4 in	**13W334**
B67	70.8 in	Dayton	½ in	1 21/64 in	**13G892**	½ in	2 in	**13V483**	½ in	2 43/64 in	**13V540**	½ in	3 21/64 in	**13V599**	½ in	4 in	**13W335**
B68	71.8 in	Dayton	½ in	1 21/64 in	**13G893**	½ in	2 in	**13V484**	½ in	2 43/64 in	**13V541**	½ in	3 21/64 in	**13W269**	½ in	4 in	**13W336**
B70	73.8 in	Dayton	½ in	1 21/64 in	**3HFC4**	½ in	2 in	**3HEY5**	½ in	2 43/64 in	**13V542**	½ in	3 21/64 in	**13W270**	½ in	4 in	**13W337**
B71	74.8 in	Dayton	½ in	1 21/64 in	**13G894**	½ in	2 in	**13V485**	½ in	2 43/64 in	**13V543**	½ in	3 21/64 in	**13W271**	½ in	4 in	**13W338**
B72	75.8 in	Dayton	½ in	1 21/64 in	**3HEY9**	½ in	2 in	**13V486**	½ in	2 43/64 in	**13V544**	½ in	3 21/64 in	**13W272**	½ in	4 in	**13W339**
B73	76.8 in	Dayton	½ in	1 21/64 in	**3HFA7**	½ in	2 in	**13V487**	½ in	2 43/64 in	**13V545**	½ in	3 21/64 in	**13W273**	½ in	4 in	**13W340**
B74	77.8 in	Dayton	½ in	1 21/64 in	**3HFA3**	½ in	2 in	**13V488**	½ in	2 43/64 in	**13V546**	½ in	3 21/64 in	**13W274**	½ in	4 in	**13W341**
B75	78.8 in	Dayton	½ in	1 21/64 in	**13G895**	½ in	2 in	**3HEZ9**	½ in	2 43/64 in	**13V547**	½ in	3 21/64 in	**13W275**	½ in	4 in	**13W342**
B77	80.8 in	Dayton	½ in	1 21/64 in	**13G896**	½ in	2 in	**13V489**	½ in	2 43/64 in	**13V548**	½ in	3 21/64 in	**13W276**	½ in	4 in	**13W343**
B78	81.8 in	Dayton	½ in	1 21/64 in	**13G897**	½ in	2 in	**13V490**	½ in	2 43/64 in	**13V549**	½ in	3 21/64 in	**13W277**	½ in	4 in	**13W344**
B79	82.8 in	Dayton	½ in	1 21/64 in	**3HEX7**	½ in	2 in	**13V491**	½ in	2 43/64 in	**13V550**	½ in	3 21/64 in	**13W278**	½ in	4 in	**13W345**
B80	83.8 in	Dayton	½ in	1 21/64 in	**3HEY3**	½ in	2 in	**13V492**	½ in	2 43/64 in	**13V551**	½ in	3 21/64 in	**13W279**	½ in	4 in	**13W346**
B81	84.8 in	Dayton	½ in	1 21/64 in	**13G898**	½ in	2 in	**13V493**	½ in	2 43/64 in	**13V552**	½ in	3 21/64 in	**13W280**	½ in	4 in	**13W347**
B82	85.8 in	Dayton	½ in	1 21/64 in	**13G899**	½ in	2 in	**13V494**	½ in	2 43/64 in	**13V553**	½ in	3 21/64 in	**13W281**	½ in	4 in	**13W348**
B83	86.8 in	Dayton	½ in	1 21/64 in	**3HEX6**	½ in	2 in	**13V495**	½ in	2 43/64 in	**13V554**	½ in	3 21/64 in	**13W282**	½ in	4 in	**13W349**
B85	88.8 in	Dayton	½ in	1 21/64 in	**3HEY1**	½ in	2 in	**3HFC6**	½ in	2 43/64 in	**13V555**	½ in	3 21/64 in	**13W283**	½ in	4 in	**13W350**
B87	90.8 in	Dayton	½ in	1 21/64 in	**13G901**	½ in	2 in	**13V496**	½ in	2 43/64 in	**13V556**	½ in	3 21/64 in	**13W284**	½ in	4 in	**13W351**
B90	93.8 in	Dayton	½ in	1 21/64 in	**3HEX9**	½ in	2 in	**13V497**	½ in	2 43/64 in	**3HFC3**	½ in	3 21/64 in	**13W285**	½ in	4 in	**13W352**
B93	96.8 in	Dayton	½ in	1 21/64 in	**13G902**	½ in	2 in	**13V498**	½ in	2 43/64 in	**13V557**	½ in	3 21/64 in	**13W286**	½ in	4 in	**13W353**
B95	98.8 in	Dayton	½ in	1 21/64 in	**3HEZ6**	½ in	2 in	**13V499**	½ in	2 43/64 in	**13V558**	½ in	3 21/64 in	**13W287**	½ in	4 in	**13W354**
B96	99.8 in	Dayton	½ in	1 21/64 in	**13G903**	½ in	2 in	**13V501**	½ in	2 43/64 in	**13V559**	½ in	3 21/64 in	**13W288**	½ in	4 in	**13W355**
B97	100.8 in	Dayton	½ in	1 21/64 in	**13G904**	½ in	2 in	**13V502**	½ in	2 43/64 in	**13V560**	½ in	3 21/64 in	**13W289**	½ in	4 in	**13W356**
B99	102.8 in	Dayton	½ in	1 21/64 in	**13G905**	½ in	2 in	**13V503**	½ in	2 43/64 in	**13V561**	½ in	3 21/64 in	**13W290**	½ in	4 in	**13W357**
B100	103.8 in	Dayton	½ in	1 21/64 in	**13G906**	½ in	2 in	**3HFA4**	½ in	2 43/64 in	**3HFC8**	½ in	3 21/64 in	**13W291**	½ in	4 in	**13W358**
B103	106.8 in	Dayton	½ in	1 21/64 in	**3HEX8**	½ in	2 in	**13V504**	½ in	2 43/64 in	**13V562**	½ in	3 21/64 in	**13W292**	½ in	4 in	**13W359**
B105	108.8 in	Dayton	½ in	1 21/64 in	**13G907**	½ in	2 in	**3HFA2**	½ in	2 43/64 in	**3HFC2**	½ in	3 21/64 in	**13W293**	½ in	4 in	**13W360**
B108	111.8 in	Dayton	½ in	1 21/64 in	**13G908**	½ in	2 in	**13V505**	½ in	2 43/64 in	**13V563**	½ in	3 21/64 in	**13W294**	½ in	4 in	**13W361**
B112	115.8 in	Dayton	½ in	1 21/64 in	**3HFC7**	½ in	2 in	**3HEZ5**	½ in	2 43/64 in	**13V564**	½ in	3 21/64 in	**13W295**	½ in	4 in	**13W362**
B116	119 in	Continental	13/32 in	1 21/64 in	**458V18**	13/32 in	1 63/64 in	**458X20**	13/32 in	2 41/64 in	**458Z25**	13/32 in	3 19/64 in	**459C34**	13/32 in	3 31/32 in	**459F40**
B116	119.8 in	Dayton	½ in	1 21/64 in	**13G909**	½ in	2 in	**13V506**	½ in	2 43/64 in	**13V565**	½ in	3 21/64 in	**13W296**	½ in	4 in	**13W363**
B120	123.8 in	Dayton	½ in	1 21/64 in	**3HEY2**	½ in	2 in	**3HFA1**	½ in	2 43/64 in	**13V566**	½ in	3 21/64 in	**13W297**	½ in	4 in	**13W364**
B124	127.8 in	Dayton	½ in	1 21/64 in	**3HEZ4**	½ in	2 in	**13V507**	½ in	2 43/64 in	**13V567**	½ in	3 21/64 in	**13W298**	½ in	4 in	**13W365**
B126	129.8 in	Dayton	½ in	1 21/64 in	**13G910**	½ in	2 in	**13V508**	½ in	2 43/64 in	**13V568**	½ in	3 21/64 in	**13W299**	½ in	4 in	**13W366**
B128	131 in	Continental	13/32 in	1 21/64 in	**458V21**	13/32 in	1 63/64 in	**458X23**	13/32 in	2 41/64 in	**458Z28**	13/32 in	3 19/64 in	**459C37**	13/32 in	3 31/32 in	**459F43**
B128	131.8 in	Dayton	½ in	1 21/64 in	**3HEY7**	½ in	2 in	**13V509**	½ in	2 43/64 in	**3HEZ7**	½ in	3 21/64 in	**13W301**	½ in	4 in	**13W367**
B133	136.8 in	Dayton	½ in	1 21/64 in	**3HEZ1**	½ in	2 in	**13V510**	½ in	2 43/64 in	**3HFA9**	½ in	3 21/64 in	**13W302**	½ in	4 in	**13W368**
B136	139 in	Continental	13/32 in	1 21/64 in	**458V23**	13/32 in	1 63/64 in	**458X25**	13/32 in	2 41/64 in	**458Z30**	13/32 in	3 19/64 in	**459C39**	13/32 in	3 31/32 in	**459F45**
B136	139.8 in	Dayton	½ in	1 21/64 in	**3HEY8**	½ in	2 in	**13V511**	½ in	2 43/64 in	**3HFA5**	½ in	3 21/64 in	**13W303**	½ in	4 in	**13W369**
B144	147.8 in	Dayton	½ in	1 21/64 in	**3HEZ3**	½ in	2 in	**13V512**	½ in	2 43/64 in	**13V569**	½ in	3 21/64 in	**13W304**	½ in	4 in	**13W370**
B148	151 in	Continental	13/32 in	1 21/64 in	**458V26**	13/32 in	1 63/64 in	**458X28**	13/32 in	2 41/64 in	**458Z32**	13/32 in	3 19/64 in	**459C42**	13/32 in	3 31/32 in	**459M58**
B148	151.8 in	Dayton	½ in	1 21/64 in	**13G911**	½ in	2 in	**3HEZ8**	½ in	2 43/64 in	**13V570**	½ in	3 21/64 in	**13W305**	½ in	4 in	**13W371**
B150	153 in	Continental	13/32 in	1 21/64 in	**458V27**	13/32 in	1 63/64 in	**458X29**	13/32 in	2 41/64 in	**458Z33**	13/32 in	3 19/64 in	**459C43**	13/32 in	3 31/32 in	**459F48**
B150	153.8 in	Dayton	½ in	1 21/64 in	**3HEY6**	½ in	2 in	**13V513**	½ in	2 43/64 in	**13V571**	½ in	3 21/64 in	**13W306**	½ in	4 in	**13W372**
B157	160.8 in	Dayton	½ in	1 21/64 in	**13G912**	½ in	2 in	**13V514**	½ in	2 43/64 in	**13V572**	½ in	3 21/64 in	**13W307**	½ in	4 in	**13W373**
B158	161 in	Continental	13/32 in	1 21/64 in	**458V29**	13/32 in	1 63/64 in	**458X30**	13/32 in	2 41/64 in	**458Z35**	13/32 in	3 19/64 in	**459C44**	13/32 in	3 31/32 in	**459F49**
B158	161.8 in	Dayton	½ in	1 21/64 in	**13G913**	½ in	2 in	**13V515**	½ in	2 43/64 in	**3HFA6**	½ in	3 21/64 in	**13W308**	½ in	4 in	**13W374**
B162	165.8 in	Dayton	—	—	—	½ in	2 in	**13V516**	½ in	2 43/64 in	**13V573**	½ in	3 21/64 in	**13W309**	½ in	4 in	**13W375**
B173	176 in	Continental	13/32 in	1 21/64 in	**458V31**	13/32 in	1 63/64 in	**458X32**	13/32 in	2 41/64 in	**458Z37**	13/32 in	3 19/64 in	**459C46**	13/32 in	3 31/32 in	**459F51**
B173	176.8 in	Dayton	½ in	1 21/64 in	**13G915**	½ in	2 in	**13V517**	½ in	2 43/64 in	**13V574**	½ in	3 21/64 in	**13W310**	½ in	4 in	**13W376**
B180	183.8 in	Dayton	½ in	1 21/64 in	**13G916**	½ in	2 in	**13V518**	½ in	2 43/64 in	**13V575**	½ in	3 21/64 in	**13W311**	½ in	4 in	**13W377**
B195	198.8 in	Dayton	½ in	1 21/64 in	**13V462**	½ in	2 in	**13V519**	½ in	2 43/64 in	**13V576**	½ in	3 21/64 in	**13W312**	½ in	4 in	**13W378**
B210	213.8 in	Dayton	½ in	1 21/64 in	**13V463**	½ in	2 in	**13V520**	½ in	2 43/64 in	**13V577**	½ in	3 21/64 in	**13W313**	½ in	4 in	**13W379**
B225	226.8 in	Dayton	½ in	1 21/64 in	**13V464**	½ in	2 in	**13V521**	½ in	2 43/64 in	**13V578**	½ in	3 21/64 in	**13W314**	½ in	4 in	**13W380**
B240	242 in	Dayton	½ in	1 21/64 in	**13V465**	—	—	—	½ in	2 43/64 in	**13V579**	½ in	3 21/64 in	**13W315**	½ in	4 in	**13W381**
C Section Banded V-Belts																	
C90	94.9 in	Dayton	⅝ in	1 ¾ in	**13W383**	⅝ in	2 43/64 in	**13W418**	⅝ in	3 ½ in	**13W452**	⅝ in	4 13/32 in	**13W486**	⅝ in	5 21/64 in	**13W521**
C105	109.9 in	Dayton	—	—	—	⅝ in	2 43/64 in	**13W420**	⅝ in	3 ½ in	**13W454**	⅝ in	4 13/32 in	**13W488**	⅝ in	5 21/64 in	**11X741**
C120	124.9 in	Dayton	⅝ in	1 ¾ in	**13W389**	⅝ in	2 43/64 in	**13W424**	⅝ in	3 ½ in	**13W458**	⅝ in	4 13/32 in	**13W492**	⅝ in	5 21/64 in	**11X745**
C124	128.9 in	Dayton	⅝ in	1 ¾ in	**13W391**	⅝ in	2 43/64 in	**13W426**	⅝ in	3 ½ in	**13W460**	⅝ in	4 13/32 in	**13W494**	⅝ in	5 21/64 in	**11X747**
C128	132.9 in	Dayton	⅝ in	1 ¾ in	**13W393**	⅝ in	2 43/64 in	**13W428**	⅝ in	3 ½ in	**13W462**	—	—	—	—	—	—
C136	140.9 in	Dayton	⅝ in	1 ¾ in	**13W394**	—	—	—	⅝ in	3 ½ in	**13W463**	⅝ in	4 13/32 in	**13W497**	⅝ in	5 21/64 in	**11X750**
C144	148.9 in	Dayton	⅝ in	1 ¾ in	**13W395**	⅝ in	2 43/64 in	**13W430**	⅝ in	3 ½ in	**13W464**	⅝ in	4 13/32 in	**13W498**	⅝ in	5 21/64 in	**11X751**
C158	162.9 in	Dayton	⅝ in	1 ¾ in	**13W396**	⅝ in	2 43/64 in	**13W431**	⅝ in	3 ½ in	**13W465**	⅝ in	4 13/32 in	**13W499**	⅝ in	5 21/64 in	**11X752**
C162	166.9 in	Dayton	⅝ in	1 ¾ in	**13W397**	⅝ in	2 43/64 in	**13W432**	⅝ in	3 ½ in	**13W466**	⅝ in	4 13/32 in	**13W501**	⅝ in	5 21/64 in	**11X753**
C180	184.9 in	Dayton	⅝ in	1 ¾ in	**13W399**	⅝ in	2 43/64 in	**13W434**	⅝ in	3 ½ in	**13W468**	⅝ in	4 13/32 in	**13W503**	⅝ in	5 21/64 in	**11X755**
C195	199.9 in	Dayton	⅝ in	1 ¾ in	**13W401**	⅝ in	2 43/64 in	**13W435**	⅝ in	3 ½ in	**13W469**	⅝ in	4 13/32 in	**13W504**	⅝ in	5 21/64 in	**11X756**
C210	214.9 in	Dayton	⅝ in	1 ¾ in	**13W402**	⅝ in	2 43/64 in	**13W436**	⅝ in	3 ½ in	**13W470**	⅝ in	4 13/32 in	**13W505**	⅝ in	5 21/64 in	**11X757**
C240	242 in	Dayton	⅝ in	1 ¾ in	**13W405**	⅝ in	2 43/64 in	**13W439**	⅝ in	3 ½ in	**13W473**	⅝ in	4 13/32 in	**13W508**	⅝ in	5 21/64 in	**11X760**
C270	272 in	Dayton	⅝ in	1 ¾ in	**13W407**	⅝ in	2 43/64 in	**13W441**	⅝ in	3 ½ in	**13W475**	⅝ in	4 13/32 in	**13W510**	⅝ in	5 21/64 in	**11X762**

Dayton Continental ContiTech

3V, 5V, and 8V Banded Standard V-Belts

These wedge V-belts feature a banded cover that offers additional protection against heat and oil, and they can transfer higher power than classical V-belts of the same size. They have a smaller top width and a deeper profile than classical V-belts and are constructed of multiple V-belts fused together to create ribs in a V-belt with a reinforced backing. Suitable for use in applications where multiple V-belts are needed but speed fluctuations, misalignment, and vibration might cause single belts to whip, turn over, or slide off the pulley. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

			Number of Ribs														
			2			3			4			5			6		
Base Industry No.	Outside L	Brand	Thickness	Top Width	Item No.	Thickness	Top Width	Item No.	Thickness	Top Width	Item No.	Thickness	Top Width	Item No.	Thickness	Top Width	Item No.
3V Section Banded V-Belts																	
3V425	43.1 in	Dayton	3/8 in	3/4 in	**11X899**	3/8 in	1 1/8 in	**11X923**	3/8 in	1 1/2 in	**11X946**	3/8 in	1 7/8 in	**11X969**	3/8 in	2 1/4 in	**13F881**
3V450	45.6 in	Dayton	3/8 in	3/4 in	**11X901**	3/8 in	1 1/8 in	**11X924**	3/8 in	1 1/2 in	**11X947**	3/8 in	1 7/8 in	**11X970**	3/8 in	2 1/4 in	**13F882**
3V475	48.1 in	Dayton	3/8 in	3/4 in	**11X902**	3/8 in	1 1/8 in	**11X925**	3/8 in	1 1/2 in	**11X948**	3/8 in	1 7/8 in	**11X971**	3/8 in	2 1/4 in	**13F883**
3V500	50.6 in	Dayton	3/8 in	3/4 in	**11X903**	3/8 in	1 1/8 in	**11X926**	3/8 in	1 1/2 in	**11X949**	3/8 in	1 7/8 in	**11X972**	3/8 in	2 1/4 in	**13F884**
3V530	53.6 in	Dayton	3/8 in	3/4 in	**11X904**	3/8 in	1 1/8 in	**11X927**	3/8 in	1 1/2 in	**11X950**	3/8 in	1 7/8 in	**11X973**	3/8 in	2 1/4 in	**13F885**
3V560	56.6 in	Dayton	3/8 in	3/4 in	**11X905**	3/8 in	1 1/8 in	**11X928**	3/8 in	1 1/2 in	**11X951**	3/8 in	1 7/8 in	**11X974**	3/8 in	2 1/4 in	**13F886**
3V600	60.6 in	Dayton	3/8 in	3/4 in	**11X906**	3/8 in	1 1/8 in	**11X929**	3/8 in	1 1/2 in	**11X952**	3/8 in	1 7/8 in	**11X975**	3/8 in	2 1/4 in	**13F887**
3V630	63.6 in	Dayton	3/8 in	3/4 in	**11X907**	3/8 in	1 1/8 in	**11X930**	3/8 in	1 1/2 in	**11X953**	3/8 in	1 7/8 in	**11X976**	3/8 in	2 1/4 in	**13F888**
3V670	67 in	Continental	5/16 in	49/64 in	**458U40**	5/16 in	1 9/64 in	**458W44**	5/16 in	1 33/64 in	**458Y45**	5/16 in	1 29/32 in	**459A54**	—	—	—
3V670	67.6 in	Dayton	3/8 in	3/4 in	**11X908**	3/8 in	1 1/8 in	**11X931**	3/8 in	1 1/2 in	**11X954**	3/8 in	1 7/8 in	**11X977**	3/8 in	2 1/4 in	**13F889**
3V710	71.6 in	Dayton	3/8 in	3/4 in	**11X909**	3/8 in	1 1/8 in	**11X932**	3/8 in	1 1/2 in	**11X955**	3/8 in	1 7/8 in	**11X978**	3/8 in	2 1/4 in	**13F890**
3V750	75.6 in	Dayton	3/8 in	3/4 in	**11X910**	3/8 in	1 1/8 in	**11X933**	3/8 in	1 1/2 in	**11X956**	3/8 in	1 7/8 in	**11X979**	3/8 in	2 1/4 in	**13F891**
3V800	80.6 in	Dayton	3/8 in	3/4 in	**11X911**	3/8 in	1 1/8 in	**11X934**	3/8 in	1 1/2 in	**11X957**	3/8 in	1 7/8 in	**11X980**	3/8 in	2 1/4 in	**13F892**
3V850	85.6 in	Dayton	3/8 in	3/4 in	**11X912**	3/8 in	1 1/8 in	**11X935**	3/8 in	1 1/2 in	**11X958**	3/8 in	1 7/8 in	**11X981**	3/8 in	2 1/4 in	**13F893**
3V900	90.6 in	Dayton	3/8 in	3/4 in	**11X913**	3/8 in	1 1/8 in	**11X936**	3/8 in	1 1/2 in	**11X959**	3/8 in	1 7/8 in	**11X982**	3/8 in	2 1/4 in	**13F894**
3V950	95.6 in	Dayton	3/8 in	3/4 in	**11X914**	3/8 in	1 1/8 in	**11X937**	3/8 in	1 1/2 in	**11X960**	3/8 in	1 7/8 in	**11X983**	3/8 in	2 1/4 in	**13F895**
3V1000	100.6 in	Dayton	3/8 in	3/4 in	**11X915**	3/8 in	1 1/8 in	**11X938**	3/8 in	1 1/2 in	**11X961**	3/8 in	1 7/8 in	**11X984**	3/8 in	2 1/4 in	**13F896**
3V1060	106.6 in	Dayton	3/8 in	3/4 in	**11X916**	3/8 in	1 1/8 in	**11X939**	3/8 in	1 1/2 in	**11X962**	3/8 in	1 7/8 in	**11X985**	3/8 in	2 1/4 in	**13F897**
3V1120	112.6 in	Dayton	3/8 in	3/4 in	**11X917**	3/8 in	1 1/8 in	**11X940**	3/8 in	1 1/2 in	**11X963**	3/8 in	1 7/8 in	**11X986**	3/8 in	2 1/4 in	**13F898**
3V1180	118.6 in	Dayton	3/8 in	3/4 in	**11X918**	3/8 in	1 1/8 in	**11X941**	3/8 in	1 1/2 in	**11X964**	3/8 in	1 7/8 in	**11X987**	3/8 in	2 1/4 in	**13F899**
3V1250	125.6 in	Dayton	3/8 in	3/4 in	**11X919**	3/8 in	1 1/8 in	**11X942**	3/8 in	1 1/2 in	**11X965**	3/8 in	1 7/8 in	**11X988**	3/8 in	2 1/4 in	**13F901**
3V1320	132.6 in	Dayton	3/8 in	3/4 in	**11X920**	3/8 in	1 1/8 in	**11X943**	3/8 in	1 1/2 in	**11X966**	3/8 in	1 7/8 in	**11X989**	3/8 in	2 1/4 in	**13F902**
3V1400	140.6 in	Dayton	3/8 in	3/4 in	**11X921**	3/8 in	1 1/8 in	**11X944**	3/8 in	1 1/2 in	**11X967**	3/8 in	1 7/8 in	**11X990**	3/8 in	2 1/4 in	**13F903**
5V Section Banded V-Belts																	
5V500	50.8 in	Dayton	5/8 in	1 1/4 in	**13F904**	5/8 in	1 7/8 in	**13F939**	5/8 in	2 1/2 in	**13F974**	5/8 in	3 1/8 in	**13G010**	5/8 in	3 3/4 in	**13G045**
5V530	53.8 in	Dayton	5/8 in	1 1/4 in	**13F905**	5/8 in	1 7/8 in	**13F940**	5/8 in	2 1/2 in	**13F975**	5/8 in	3 1/8 in	**13G011**	5/8 in	3 3/4 in	**13G046**
5V560	56.8 in	Dayton	5/8 in	1 1/4 in	**13F906**	5/8 in	1 7/8 in	**13F941**	5/8 in	2 1/2 in	**13F976**	5/8 in	3 1/8 in	**13G012**	5/8 in	3 3/4 in	**13G047**
5V600	60.8 in	Dayton	5/8 in	1 1/4 in	**13F907**	5/8 in	1 7/8 in	**13F942**	5/8 in	2 1/2 in	**13F977**	5/8 in	3 1/8 in	**13G013**	5/8 in	3 3/4 in	**13G048**
5V630	63.8 in	Dayton	5/8 in	1 1/4 in	**13F908**	5/8 in	1 7/8 in	**13F943**	5/8 in	2 1/2 in	**13F978**	5/8 in	3 1/8 in	**13G014**	5/8 in	3 3/4 in	**13G049**
5V670	67.8 in	Dayton	5/8 in	1 1/4 in	**13F909**	5/8 in	1 7/8 in	**13F944**	5/8 in	2 1/2 in	**13F979**	5/8 in	3 1/8 in	**13G015**	5/8 in	3 3/4 in	**13G050**
5V710	71.8 in	Dayton	5/8 in	1 1/4 in	**13F910**	5/8 in	1 7/8 in	**13F945**	5/8 in	2 1/2 in	**13F980**	5/8 in	3 1/8 in	**13G016**	5/8 in	3 3/4 in	**13G051**
5V750	75.8 in	Dayton	5/8 in	1 1/4 in	**13F911**	5/8 in	1 7/8 in	**13F946**	5/8 in	2 1/2 in	**13F981**	5/8 in	3 1/8 in	**13G017**	5/8 in	3 3/4 in	**13G052**
5V800	80.8 in	Dayton	5/8 in	1 1/4 in	**13F912**	5/8 in	1 7/8 in	**13F947**	5/8 in	2 1/2 in	**13F982**	5/8 in	3 1/8 in	**13G018**	5/8 in	3 3/4 in	**13G053**
5V850	85.8 in	Dayton	5/8 in	1 1/4 in	**13F913**	5/8 in	1 7/8 in	**13F948**	5/8 in	2 1/2 in	**13F983**	5/8 in	3 1/8 in	**13G019**	5/8 in	3 3/4 in	**13G054**
5V900	90.8 in	Dayton	5/8 in	1 1/4 in	**13F914**	5/8 in	1 7/8 in	**13F949**	5/8 in	2 1/2 in	**13F984**	5/8 in	3 1/8 in	**13G020**	5/8 in	3 3/4 in	**13G055**
5V950	95.8 in	Dayton	5/8 in	1 1/4 in	**13F915**	5/8 in	1 7/8 in	**13F950**	5/8 in	2 1/2 in	**13F985**	5/8 in	3 1/8 in	**13G021**	5/8 in	3 3/4 in	**13G056**
5V1000	100.8 in	Dayton	5/8 in	1 1/4 in	**13F916**	5/8 in	1 7/8 in	**13F951**	5/8 in	2 1/2 in	**13F986**	5/8 in	3 1/8 in	**13G022**	5/8 in	3 3/4 in	**13G057**
5V1060	106.8 in	Dayton	5/8 in	1 1/4 in	**13F917**	5/8 in	1 7/8 in	**13F952**	5/8 in	2 1/2 in	**13F987**	5/8 in	3 1/8 in	**13G023**	5/8 in	3 3/4 in	**13G058**
5V1120	112.8 in	Dayton	5/8 in	1 1/4 in	**13F918**	5/8 in	1 7/8 in	**13F953**	5/8 in	2 1/2 in	**13F988**	5/8 in	3 1/8 in	**13G024**	5/8 in	3 3/4 in	**13G059**
5V1180	118.8 in	Dayton	5/8 in	1 1/4 in	**13F919**	5/8 in	1 7/8 in	**13F954**	5/8 in	2 1/2 in	**13F989**	5/8 in	3 1/8 in	**13G025**	5/8 in	3 3/4 in	**13G060**
5V1250	125.8 in	Dayton	5/8 in	1 1/4 in	**13F920**	5/8 in	1 7/8 in	**13F955**	5/8 in	2 1/2 in	**13F990**	5/8 in	3 1/8 in	**13G026**	5/8 in	3 3/4 in	**13G061**
5V1320	132.8 in	Dayton	5/8 in	1 1/4 in	**13F921**	5/8 in	1 7/8 in	**13F956**	5/8 in	2 1/2 in	**13F991**	5/8 in	3 1/8 in	**13G027**	5/8 in	3 3/4 in	**13G062**
5V1400	140 in	Continental	17/32 in	1 15/64 in	**458U52**	17/32 in	1 7/8 in	**458W56**	17/32 in	2 31/64 in	**458Y58**	17/32 in	3 7/64 in	**459A67**	17/32 in	3 47/64 in	**459D78**
5V1400	140.8 in	Dayton	5/8 in	1 1/4 in	**13F922**	5/8 in	1 7/8 in	**13F957**	5/8 in	2 1/2 in	**13F992**	5/8 in	3 1/8 in	**13G028**	5/8 in	3 3/4 in	**13G063**
5V1500	150.8 in	Dayton	5/8 in	1 1/4 in	**13F923**	5/8 in	1 7/8 in	**13F958**	5/8 in	2 1/2 in	**13F993**	5/8 in	3 1/8 in	**13G029**	5/8 in	3 3/4 in	**13G064**
5V1600	160.8 in	Dayton	5/8 in	1 1/4 in	**13F924**	5/8 in	1 7/8 in	**13F959**	5/8 in	2 1/2 in	**13F994**	5/8 in	3 1/8 in	**13G030**	5/8 in	3 3/4 in	**13G065**
5V1700	170.8 in	Dayton	5/8 in	1 1/4 in	**13F925**	5/8 in	1 7/8 in	**13F960**	5/8 in	2 1/2 in	**13F995**	5/8 in	3 1/8 in	**13G031**	5/8 in	3 3/4 in	**13G066**
5V1800	180 in	Continental	17/32 in	1 15/64 in	**458U56**	17/32 in	1 7/8 in	**458W60**	17/32 in	2 31/64 in	**458Y62**	17/32 in	3 7/64 in	**459A71**	17/32 in	3 47/64 in	**459D82**
5V1800	180.8 in	Dayton	5/8 in	1 1/4 in	**13F926**	5/8 in	1 7/8 in	**13F961**	5/8 in	2 1/2 in	**13F996**	5/8 in	3 1/8 in	**13G032**	5/8 in	3 3/4 in	**13G067**
5V1900	190 in	Continental	17/32 in	1 15/64 in	**458U57**	17/32 in	1 7/8 in	**458W61**	17/32 in	2 31/64 in	**458Y63**	17/32 in	3 7/64 in	**459A72**	17/32 in	3 47/64 in	**459D83**
5V1900	190.8 in	Dayton	5/8 in	1 1/4 in	**13F927**	5/8 in	1 7/8 in	**13F962**	5/8 in	2 1/2 in	**13F997**	5/8 in	3 1/8 in	**13G033**	5/8 in	3 3/4 in	**13G068**
5V2000	200.8 in	Dayton	5/8 in	1 1/4 in	**13F928**	5/8 in	1 7/8 in	**13F963**	5/8 in	2 1/2 in	**13F998**	5/8 in	3 1/8 in	**13G034**	5/8 in	3 3/4 in	**13G069**
5V2120	212.8 in	Dayton	5/8 in	1 1/4 in	**13F929**	5/8 in	1 7/8 in	**13F964**	5/8 in	2 1/2 in	**13F999**	5/8 in	3 1/8 in	**13G035**	5/8 in	3 3/4 in	**13G070**
5V2240	224.8 in	Dayton	5/8 in	1 1/4 in	**13F930**	5/8 in	1 7/8 in	**13F965**	5/8 in	2 1/2 in	**13G001**	5/8 in	3 1/8 in	**13G036**	5/8 in	3 3/4 in	**13G071**
5V2360	236 in	Continental	17/32 in	1 15/64 in	**458U61**	17/32 in	1 7/8 in	**458W65**	17/32 in	2 31/64 in	**458Y67**	17/32 in	3 7/64 in	**459A76**	17/32 in	3 47/64 in	**459D87**
5V2360	236.8 in	Dayton	5/8 in	1 1/4 in	**13F931**	5/8 in	1 7/8 in	**13F966**	5/8 in	2 1/2 in	**13G002**	5/8 in	3 1/8 in	**13G037**	5/8 in	3 3/4 in	**13G072**
5V2650	265.8 in	Dayton	5/8 in	1 1/4 in	**13F933**	5/8 in	1 7/8 in	**13F968**	5/8 in	2 1/2 in	**13G004**	5/8 in	3 1/8 in	**13G039**	5/8 in	3 3/4 in	**13G074**
5V2800	280.8 in	Dayton	5/8 in	1 1/4 in	**13F934**	5/8 in	1 7/8 in	**13F969**	5/8 in	2 1/2 in	**13G005**	5/8 in	3 1/8 in	**13G040**	5/8 in	3 3/4 in	**13G075**
5V3000	300.8 in	Dayton	5/8 in	1 1/4 in	**13F935**	5/8 in	1 7/8 in	**13F970**	5/8 in	2 1/2 in	**13G006**	5/8 in	3 1/8 in	**13G041**	5/8 in	3 3/4 in	**13G076**
5V3150	315.8 in	Dayton	5/8 in	1 1/4 in	**13F936**	5/8 in	1 7/8 in	**13F971**	5/8 in	2 1/2 in	**13G007**	5/8 in	3 1/8 in	**13G042**	5/8 in	3 3/4 in	**13G077**
5V3550	355.8 in	Dayton	5/8 in	1 1/4 in	**13F938**	5/8 in	1 7/8 in	**13F973**	5/8 in	2 1/2 in	**13G009**	5/8 in	3 1/8 in	**13G044**	5/8 in	3 3/4 in	**13G079**
8V Section Banded V-Belts																	
8V1060	106 in	Continental	29/32 in	2 in	**458U82**	29/32 in	3 in	**458W86**	29/32 in	4 in	**458Y88**	29/32 in	5 in	**459A97**	29/32 in	6 in	**459F06**
8V1120	112 in	Continental	29/32 in	2 in	**458U83**	29/32 in	3 in	**458W87**	29/32 in	4 in	**458Y89**	29/32 in	5 in	**459A98**	29/32 in	6 in	**459F07**
8V1800	180 in	Continental	29/32 in	2 in	**458U91**	29/32 in	3 in	**458W95**	29/32 in	4 in	**458Y97**	29/32 in	5 in	**459C07**	29/32 in	6 in	**459F15**
8V2360	236 in	Continental	29/32 in	2 in	**458U96**	29/32 in	3 in	**458X01**	29/32 in	4 in	**458Z03**	29/32 in	5 in	**459C12**	29/32 in	6 in	**459F20**
8V2500	250 in	Continental	29/32 in	2 in	**458U97**	29/32 in	3 in	**458X02**	29/32 in	4 in	**458Z04**	29/32 in	5 in	**459C13**	29/32 in	6 in	**459F21**
8V2650	265 in	Continental	29/32 in	2 in	**458U98**	29/32 in	3 in	**458X03**	29/32 in	4 in	**458Z05**	29/32 in	5 in	**459C14**	29/32 in	6 in	**459F22**

Scan. Order. Done.
Details on page A1.

BX, CX, 3VX, and 5VX Banded Cogged V-Belts

Continental ContiTech Dayton

Cogged design allows these V-belts to run cooler than standard V-belts. They are constructed of multiple V-belts fused together to create ribs in a V-belt with a reinforced backing. Belts are used in applications where multiple V-belts are needed but speed fluctuations, misalignment, and vibration might cause single belts to whip, turn over, or slide off the pulley. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). **BX and CX Section** belts have a classical, cogged design and are used in drive systems that require power transmission of 1 HP or greater. **3VX and 5VX Section** belts feature a wedge, cogged design and have a smaller top width and a deeper profile than classical V-belts and can transfer higher power than classical V-belts of the same size.

			Number of Ribs														
			2			3			4			5			6		
Base Industry No.	Outside L	Brand	Thickness	Top Width	Item No.	Thickness	Top Width	Item No.	Thickness	Top Width	Item No.	Thickness	Top Width	Item No.	Thickness	Top Width	Item No.
BX Section Banded V-Belts																	
BX46	49 in	Continental	13/32 in	1 21/64 in	**458V37**	13/32 in	1 63/64 in	**458X38**	13/32 in	2 41/64 in	**458Z43**	13/32 in	3 19/64 in	**459C52**	13/32 in	3 31/32 in	**459F57**
BX48	51 in	Continental	13/32 in	1 21/64 in	**458V38**	13/32 in	1 63/64 in	**458X39**	13/32 in	2 41/64 in	**458Z44**	13/32 in	3 19/64 in	**459C53**	13/32 in	3 31/32 in	**459F58**
BX50	53 in	Continental	13/32 in	1 21/64 in	**458V39**	13/32 in	1 63/64 in	**458X40**	13/32 in	2 41/64 in	**458Z45**	13/32 in	3 19/64 in	**459C54**	13/32 in	3 31/32 in	**459F59**
BX51	54 in	Continental	13/32 in	1 21/64 in	**458V40**	—	—	—	13/32 in	2 41/64 in	**458Z46**	13/32 in	3 19/64 in	**459C55**	13/32 in	3 31/32 in	**459F60**
BX52	55 in	Continental	13/32 in	1 21/64 in	**458V41**	13/32 in	1 63/64 in	**458X41**	13/32 in	2 41/64 in	**458Z47**	13/32 in	3 19/64 in	**459C56**	13/32 in	3 31/32 in	**459F61**
BX53	56 in	Continental	13/32 in	1 21/64 in	**458V42**	13/32 in	1 63/64 in	**458X42**	13/32 in	2 41/64 in	**458Z48**	13/32 in	3 19/64 in	**459C57**	—	—	—
BX54	57 in	Continental	13/32 in	1 21/64 in	**458V43**	13/32 in	1 63/64 in	**458X43**	13/32 in	2 41/64 in	**458Z49**	13/32 in	3 19/64 in	**459C58**	13/32 in	3 31/32 in	**459F62**
BX55	58 in	Continental	—	—	—	—	—	—	—	—	—	13/32 in	3 19/64 in	**459C59**	13/32 in	3 31/32 in	**459F63**
BX56	59 in	Continental	—	—	—	—	—	—	—	—	—	13/32 in	3 19/64 in	**459C60**	—	—	—
BX57	60 in	Continental	13/32 in	1 21/64 in	**458V46**	13/32 in	1 63/64 in	**458X46**	13/32 in	2 41/64 in	**458Z52**	13/32 in	3 19/64 in	**459C61**	13/32 in	3 31/32 in	**459F64**
BX58	61 in	Continental	13/32 in	1 21/64 in	**458V47**	13/32 in	1 63/64 in	**458X47**	13/32 in	2 41/64 in	**458Z53**	13/32 in	3 19/64 in	**459C62**	13/32 in	3 31/32 in	**459F65**
BX59	62 in	Continental	13/32 in	1 21/64 in	**458V48**	13/32 in	1 63/64 in	**458X48**	13/32 in	2 41/64 in	**458Z54**	13/32 in	3 19/64 in	**459C63**	—	—	—
BX60	63 in	Continental	—	—	—	—	—	—	13/32 in	2 41/64 in	**458Z55**	13/32 in	3 19/64 in	**459C64**	13/32 in	3 31/32 in	**459F66**
BX61	64 in	Continental	13/32 in	1 21/64 in	**458V49**	13/32 in	1 63/64 in	**458X50**	13/32 in	2 41/64 in	**458Z56**	13/32 in	3 19/64 in	**459C65**	13/32 in	3 31/32 in	**459F67**
BX62	65 in	Continental	—	—	—	—	—	—	—	—	—	13/32 in	3 19/64 in	**459C66**	13/32 in	3 31/32 in	**459F68**
BX63	66 in	Continental	13/32 in	1 21/64 in	**458V51**	13/32 in	1 63/64 in	**458X52**	13/32 in	2 41/64 in	**458Z58**	13/32 in	3 19/64 in	**459C67**	13/32 in	3 31/32 in	**459F69**
BX64	67 in	Continental	13/32 in	1 21/64 in	**458V52**	13/32 in	1 63/64 in	**458X53**	13/32 in	2 41/64 in	**458Z59**	13/32 in	3 19/64 in	**459C68**	13/32 in	3 31/32 in	**459F70**
BX65	68 in	Continental	13/32 in	1 21/64 in	**458V53**	—	—	—	13/32 in	2 41/64 in	**458Z60**	13/32 in	3 19/64 in	**459C69**	13/32 in	3 31/32 in	**459F71**
BX66	69 in	Continental	—	—	—	13/32 in	1 63/64 in	**458X54**	13/32 in	2 41/64 in	**458Z61**	13/32 in	3 19/64 in	**459C70**	13/32 in	3 31/32 in	**459F72**
BX67	70 in	Continental	13/32 in	1 21/64 in	**458V54**	13/32 in	1 63/64 in	**458X55**	13/32 in	2 41/64 in	**458Z62**	13/32 in	3 19/64 in	**459C71**	13/32 in	3 31/32 in	**459F73**
BX68	71 in	Continental	13/32 in	1 21/64 in	**458V55**	13/32 in	1 63/64 in	**458X56**	13/32 in	2 41/64 in	**458Z63**	13/32 in	3 19/64 in	**459C72**	13/32 in	3 31/32 in	**459F74**
BX70	73 in	Continental	13/32 in	1 21/64 in	**458V56**	13/32 in	1 63/64 in	**458X57**	13/32 in	2 41/64 in	**458Z64**	13/32 in	3 19/64 in	**459C73**	13/32 in	3 31/32 in	**459F75**
BX71	74 in	Continental	13/32 in	1 21/64 in	**458V57**	13/32 in	1 63/64 in	**458X58**	13/32 in	2 41/64 in	**458Z65**	13/32 in	3 19/64 in	**459C74**	13/32 in	3 31/32 in	**459F76**
BX72	75 in	Continental	13/32 in	1 21/64 in	**458V58**	13/32 in	1 63/64 in	**458X59**	13/32 in	2 41/64 in	**458Z66**	13/32 in	3 19/64 in	**459C75**	13/32 in	3 31/32 in	**459F77**
BX73	76 in	Continental	13/32 in	1 21/64 in	**458V59**	13/32 in	1 63/64 in	**458X60**	13/32 in	2 41/64 in	**458Z67**	13/32 in	3 19/64 in	**459C76**	13/32 in	3 31/32 in	**459F78**
BX74	77 in	Continental	13/32 in	1 21/64 in	**458V60**	13/32 in	1 63/64 in	**458X61**	13/32 in	2 41/64 in	**458Z68**	13/32 in	3 19/64 in	**459C77**	13/32 in	3 31/32 in	**459F79**
BX75	78 in	Continental	13/32 in	1 21/64 in	**458V61**	13/32 in	1 63/64 in	**458X62**	13/32 in	2 41/64 in	**458Z69**	13/32 in	3 19/64 in	**459C78**	13/32 in	3 31/32 in	**459F80**
BX77	80 in	Continental	13/32 in	1 21/64 in	**458V62**	13/32 in	1 63/64 in	**458X63**	13/32 in	2 41/64 in	**458Z70**	13/32 in	3 19/64 in	**459C79**	13/32 in	3 31/32 in	**459F81**
BX78	81 in	Continental	13/32 in	1 21/64 in	**458V63**	13/32 in	1 63/64 in	**458X64**	13/32 in	2 41/64 in	**458Z71**	13/32 in	3 19/64 in	**459C80**	13/32 in	3 31/32 in	**459F82**
BX79	82 in	Continental	13/32 in	1 21/64 in	**458V64**	13/32 in	1 63/64 in	**458X65**	13/32 in	2 41/64 in	**458Z72**	13/32 in	3 19/64 in	**459C81**	13/32 in	3 31/32 in	**459F83**
BX80	83 in	Continental	13/32 in	1 21/64 in	**458V65**	13/32 in	1 63/64 in	**458X66**	13/32 in	2 41/64 in	**458Z73**	13/32 in	3 19/64 in	**459C82**	13/32 in	3 31/32 in	**459F84**
BX81	84 in	Continental	13/32 in	1 21/64 in	**458V66**	13/32 in	1 63/64 in	**458X67**	13/32 in	2 41/64 in	**458Z74**	13/32 in	3 19/64 in	**459C83**	13/32 in	3 31/32 in	**459F85**
BX82	85 in	Continental	13/32 in	1 21/64 in	**458V67**	13/32 in	1 63/64 in	**458X68**	13/32 in	2 41/64 in	**458Z75**	13/32 in	3 19/64 in	**459C84**	13/32 in	3 31/32 in	**459F86**
BX83	86 in	Continental	13/32 in	1 21/64 in	**458V68**	—	—	—	13/32 in	2 41/64 in	**458Z76**	13/32 in	3 19/64 in	**459C85**	13/32 in	3 31/32 in	**459F87**
BX85	88 in	Continental	13/32 in	1 21/64 in	**458V69**	—	—	—	13/32 in	2 41/64 in	**458Z77**	13/32 in	3 19/64 in	**459C86**	13/32 in	3 31/32 in	**459F88**
BX87	90 in	Continental	13/32 in	1 21/64 in	**458V70**	13/32 in	1 63/64 in	**458X69**	13/32 in	2 41/64 in	**458Z78**	13/32 in	3 19/64 in	**459C87**	13/32 in	3 31/32 in	**459F89**
BX88	91 in	Continental	13/32 in	1 21/64 in	**458V71**	13/32 in	1 63/64 in	**458X70**	—	—	—	—	—	—	—	—	—
BX90	93 in	Continental	13/32 in	1 21/64 in	**458V72**	13/32 in	1 63/64 in	**458X71**	13/32 in	2 41/64 in	**458Z79**	13/32 in	3 19/64 in	**459C88**	13/32 in	3 31/32 in	**459F90**
BX93	96 in	Continental	13/32 in	1 21/64 in	**458V73**	13/32 in	1 63/64 in	**458X72**	13/32 in	2 41/64 in	**458Z80**	13/32 in	3 19/64 in	**459C89**	13/32 in	3 31/32 in	**459F91**
BX95	98 in	Continental	13/32 in	1 21/64 in	**458V74**	—	—	—	13/32 in	2 41/64 in	**458Z81**	13/32 in	3 19/64 in	**459C90**	13/32 in	3 31/32 in	**459F92**
BX96	99 in	Continental	13/32 in	1 21/64 in	**485D32**	—	—	—	—	—	—	—	—	—	—	—	—
BX97	100 in	Continental	—	—	—	—	—	—	—	—	—	13/32 in	3 19/64 in	**459C92**	13/32 in	3 31/32 in	**459F93**
BX99	102 in	Continental	13/32 in	1 21/64 in	**458V76**	13/32 in	1 63/64 in	**458X74**	13/32 in	2 41/64 in	**458Z83**	13/32 in	3 19/64 in	**459C93**	13/32 in	3 31/32 in	**459F94**
BX100	103 in	Continental	13/32 in	1 21/64 in	**458V12**	—	—	—	13/32 in	2 41/64 in	**458Z19**	13/32 in	3 19/64 in	**459C28**	13/32 in	3 31/32 in	**459F36**
BX108	111 in	Continental	13/32 in	1 21/64 in	**459G57**	—	—	—	13/32 in	2 41/64 in	**458Z22**	13/32 in	3 19/64 in	**459C31**	13/32 in	3 31/32 in	**459F39**
BX108	111 in	Dayton	13/32 in	15/16 in	**54TY11**	—	—	—	—	—	—	—	—	—	—	—	—
BX110	113 in	Continental	13/32 in	1 21/64 in	**458V15**	—	—	—	13/32 in	2 41/64 in	**458Z23**	13/32 in	3 19/64 in	**459C32**	—	—	—
BX112	115 in	Continental	13/32 in	1 21/64 in	**459G58**	—	—	—	—	—	—	—	—	—	—	—	—
BX112	115 in	Dayton	13/32 in	15/16 in	**54TY12**	—	—	—	—	—	—	—	—	—	—	—	—
BX120	123 in	Continental	13/32 in	1 21/64 in	**459G59**	13/32 in	1 63/64 in	**485D33**	—	—	—	—	—	—	—	—	—
BX120	123 in	Dayton	13/32 in	15/16 in	**54TY13**	—	—	—	—	—	—	—	—	—	—	—	—
BX128	131 in	Continental	13/32 in	1 21/64 in	**459G60**	—	—	—	—	—	—	—	—	—	—	—	—
BX128	131 in	Dayton	13/32 in	15/16 in	**54TY14**	—	—	—	—	—	—	—	—	—	—	—	—
CX Section Banded V-Belts																	
CX100	104 in	Continental	17/32 in	1 49/64 in	**458V77**	—	—	—	17/32 in	3 33/64 in	**458Z84**	17/32 in	4 13/32 in	**459C94**	17/32 in	5 9/32 in	**459F95**
CX108	112 in	Continental	17/32 in	1 49/64 in	**458V79**	17/32 in	2 41/64 in	**458X76**	17/32 in	3 33/64 in	**458Z86**	17/32 in	4 13/32 in	**459C96**	17/32 in	5 9/32 in	**459F97**
3VX Section Banded V-Belts																	
3VX400	40 in	Continental	5/16 in	49/64 in	**458U31**	5/16 in	1 9/64 in	**458W38**	5/16 in	1 33/64 in	**458Y36**	5/16 in	1 29/32 in	**459A46**	5/16 in	2 9/32 in	**459D56**
3VX425	42 1/2 in	Continental	5/16 in	49/64 in	**458U32**	—	—	—	5/16 in	1 33/64 in	**458Y37**	—	—	—	5/16 in	2 9/32 in	**459D57**
3VX425	42.5 in	Continental	—	—	—	5/16 in	1 9/64 in	**458W39**	—	—	—	5/16 in	1 29/32 in	**459A47**	—	—	—
3VX450	45 in	Continental	5/16 in	49/64 in	**458U33**	5/16 in	1 9/64 in	**458W40**	5/16 in	1 33/64 in	**458Y38**	5/16 in	1 29/32 in	**459A48**	5/16 in	2 9/32 in	**459D58**
3VX475	47 1/2 in	Continental	5/16 in	49/64 in	**458U34**	5/16 in	1 9/64 in	**458W41**	5/16 in	1 33/64 in	**458Y39**	—	—	—	—	—	—
3VX475	47.5 in	Continental	—	—	—	—	—	—	—	—	—	5/16 in	1 29/32 in	**459A49**	5/16 in	2 9/32 in	**459D59**
3VX500	50 in	Continental	5/16 in	49/64 in	**458U35**	—	—	—	5/16 in	1 33/64 in	**458Y40**	—	—	—	5/16 in	2 9/32 in	**459D60**
3VX530	53 in	Continental	5/16 in	49/64 in	**458U36**	5/16 in	1 9/64 in	**458W42**	5/16 in	1 33/64 in	**458Y41**	5/16 in	1 29/32 in	**459A50**	5/16 in	2 9/32 in	**459D61**
3VX560	56 in	Continental	5/16 in	49/64 in	**458U37**	5/16 in	1 9/64 in	**458W43**	5/16 in	1 33/64 in	**458Y42**	5/16 in	1 29/32 in	**459A51**	5/16 in	2 9/32 in	**459D62**
3VX600	60 in	Continental	5/16 in	49/64 in	**458U38**	—	—	—	5/16 in	1 33/64 in	**458Y43**	5/16 in	1 29/32 in	**459A52**	5/16 in	2 9/32 in	**459D63**
3VX600	60 in	Dayton	—	—	—	5/16 in	1 1/8 in	**454U17**	—	—	—	—	—	—	—	—	—
3VX630	63 in	Continental	5/16 in	49/64 in	**458U39**	—	—	—	5/16 in	1 33/64 in	**458Y44**	5/16 in	1 29/32 in	**459A53**	5/16 in	2 9/32 in	**459D64**
3VX670	67 in	Continental	—	—	—	—	—	—	—	—	—	—	—	—	5/16 in	2 9/32 in	**459D65**
3VX710	71 in	Continental	5/16 in	49/64 in	**458U41**	5/16 in	1 9/64 in	**458W45**	5/16 in	1 33/64 in	**458Y46**	5/16 in	1 29/32 in	**459A55**	5/16 in	2 9/32 in	**459D66**
3VX750	75 in	Continental	5/16 in	49/64 in	**458U42**	5/16 in	1 9/64 in	**458W46**	5/16 in	1 33/64 in	**458Y47**	5/16 in	1 29/32 in	**459A56**	5/16 in	2 9/32 in	**459D67**
3VX800	80 in	Continental	5/16 in	49/64 in	**458U43**	5/16 in	1 9/64 in	**458W47**	5/16 in	1 33/64 in	**458Y48**	5/16 in	1 29/32 in	**459A57**	5/16 in	2 9/32 in	**459D68**
3VX850	85 in	Continental	5/16 in	49/64 in	**458U44**	5/16 in	1 9/64 in	**458W48**	5/16 in	1 33/64 in	**458Y49**	5/16 in	1 29/32 in	**459A58**	5/16 in	2 9/32 in	**459D69**
3VX900	90 in	Continental	5/16 in	49/64 in	**458U45**	—	—	—	5/16 in	1 33/64 in	**458Y50**	5/16 in	1 29/32 in	**459A59**	5/16 in	2 9/32 in	**459D70**
3VX950	95 in	Continental	—	—	—	5/16 in	1 9/64 in	**458W49**	5/16 in	1 33/64 in	**458Y51**	5/16 in	1 29/32 in	**459A60**	5/16 in	2 9/32 in	**459D71**
3VX1000	100 in	Continental	5/16 in	49/64 in	**458U24**	5/16 in	1 9/64 in	**458W32**	5/16 in	1 33/64 in	**458Y29**	5/16 in	1 29/32 in	**459A39**	5/16 in	2 9/32 in	**459D49**
3VX1060	106 in	Continental	5/16 in	49/64 in	**458U25**	5/16 in	1 9/64 in	**458W33**	5/16 in	1 33/64 in	**458Y30**	5/16 in	1 29/32 in	**459A40**	5/16 in	2 9/32 in	**459D50**
3VX1120	112 in	Continental	5/16 in	49/64 in	**458U26**	—	—	—	5/16 in	1 33/64 in	**458Y31**	5/16 in	1 29/32 in	**459A41**	5/16 in	2 9/32 in	**459D51**
3VX1180	118 in	Continental	5/16 in	49/64 in	**458U27**	5/16 in	1 9/64 in	**458W34**	5/16 in	1 33/64 in	**458Y32**	5/16 in	1 29/32 in	**459A42**	5/16 in	2 9/32 in	**459D52**
5VX Section Banded V-Belts																	
5VX500	50 in	Continental	17/32 in	1 15/64 in	**458U69**	17/32 in	1 7/8 in	**458W73**	17/32 in	2 31/64 in	**458Y75**	17/32 in	3 7/64 in	**459A84**	17/32 in	3 47/64 in	**459D95**
5VX530	53 in	Continental	17/32 in	1 15/64 in	**458U70**	17/32 in	1 7/8 in	**458W74**	17/32 in	2 31/64 in	**458Y76**	17/32 in	3 7/64 in	**459A85**	17/32 in	3 47/64 in	**459D96**
5VX560	56 in	Continental	17/32 in	1 15/64 in	**458U71**	17/32 in	1 7/8 in	**458W75**	17/32 in	2 31/64 in	**458Y77**	17/32 in	3 7/64 in	**459A86**	17/32 in	3 47/64 in	**459D97**
5VX600	60 in	Continental	17/32 in	1 15/64 in	**458U72**	17/32 in	1 7/8 in	**458W76**	17/32 in	2 31/64 in	**458Y78**	17/32 in	3 7/64 in	**459A87**	17/32 in	3 47/64 in	**459D98**
5VX630	63 in	Continental	17/32 in	1 15/64 in	**458U73**	17/32 in	1 7/8 in	**458W77**	17/32 in	2 31/64 in	**458Y79**	17/32 in	3 7/64 in	**459A88**	17/32 in	3 47/64 in	**459D99**
5VX670	67 in	Continental	17/32 in	1 15/64 in	**458U74**	17/32 in	1 7/8 in	**458W78**	17/32 in	2 31/64 in	**458Y80**	17/32 in	3 7/64 in	**459A89**	17/32 in	3 47/64 in	**459F01**
5VX710	71 in	Continental	17/32 in	1 15/64 in	**458U75**	17/32 in	1 7/8 in	**458W79**	17/32 in	2 31/64 in	**458Y81**	17/32 in	3 7/64 in	**459A90**	17/32 in	3 47/64 in	**459F02**
5VX750	75 in	Continental	—	—	—	—	—	—	—	—	—	—	—	—	17/32 in	3 47/64 in	**459F03**

Metric V-Belts

Heat-, ozone-, and flame-resistant V-belts help transfer motion between pulleys with metric cross sections. They are wrapped with a material for greater wear and oil resistance. Single V-belts can be used alone or together in wide metric belt drives that hold multiple V-belts. Suitable for use in industrial applications such as textile mills, machine applications, and food processing plants. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	Outside L	Brand	Item No.
SPZ (10mm Top Width by 8mm Thick)			
SPZXLG1250	1,250 mm	Chicago Pneumatic	**40JE31**
SPA (14mm Top Width by 10mm Thick)			
SPA3150	3,184 mm	Gates	**1NKJ5**
SPA3350	3,384 mm	Gates	**1NKF8**
SPA3550	3,584 mm	Gates	**1NKJ2**
SPA3750	3,784 mm	Gates	**1NKH3**
SPA4000	4,034 mm	Gates	**1NKD6**

Industry No.	Outside L	Brand	Item No.
SPB (17mm Top Width by 14mm Thick)			
SPB3150	3,174 mm	Gates	**1NJW2**
SPB3350	3,374 mm	Gates	**1NJU3**
SPB3550	3,574 mm	Gates	**1NJY7**
SPB3750	3,774 mm	Gates	**1NJN9**
SPB3800	3,824 mm	Gates	**1NKJ1**
SPB4000	4,024 mm	Gates	**1NJW7**
SPB4250	4,274 mm	Gates	**1NJY6**
SPB4500	4,524 mm	Gates	**1NKC5**
SPB4750	4,774 mm	Gates	**1NKG8**
SPB5300	5,324 mm	Gates	**1NJY3**
SPB5600	5,624 mm	Gates	**1NKD9**
SPB6000	6,024 mm	Gates	**1NKG9**
SPB6300	6,324 mm	Gates	**1NKJ8**
SPB6700	6,724 mm	Gates	**1NKK1**
SPB7100	7,124 mm	Gates	**1NKH7**
SPB7500	7,524 mm	Gates	**1NKK3**
SPB8000	8,024 mm	Gates	**1NKJ6**

Industry No.	Outside L	Brand	Item No.
SPC (22mm Top Width by 18mm Thick)			
SPC7500	7,546 mm	Gates	**1NJT8**
SPC (23mm Top Width by 18mm Thick)			
SPC3350	3,396 mm	Gates	**1NJY5**
SPC3550	3,596 mm	Gates	**1NJX5**
SPC3750	3,796 mm	Gates	**1NKC9**
SPC4000	4,046 mm	Gates	**1NJU5**
SPC4250	4,296 mm	Gates	**1NJX4**
SPC4750	4,796 mm	Gates	**1NJV6**
SPC5000	5,046 mm	Gates	**1NJZ2**
SPC5300	5,346 mm	Gates	**1NKJ7**
SPC5600	5,646 mm	Gates	**1NJZ7**
SPC6000	6,046 mm	Gates	**1NJW3**
SPC6700	6,746 mm	Gates	**1NKB7**
SPC8000	8,046 mm	Gates	**1NKE7**
SPC8500	8,546 mm	Gates	**1NKG5**

Metric Raw-Edge Cogged V-Belts

Run cooler than standard V-belts, have metric dimensions, and mount to metric pulleys to transmit power between rotational shafts. They are useful for small-diameter pulleys and drives with twists and turns. Single V-belts can be used alone or together in wide metric belt drives that hold multiple V-belts. Suitable for industrial applications such as textile mills, machine applications, and food processing, where metric cross sections are required. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). SPA, SPB, SPC, and XPC section belts are available on Grainger.com.

Industry No.	Outside L	Brand	Item No.
XPZ (10mm Top Width by 8mm Thick)			
XPZ787	802 mm	Gates	**1NJU4**
XPZ850	866 mm	Gates	**1NKB4**
XPZ862	877 mm	Gates	**1NKG6**
XPZ925	936 mm	Gates	**1NJZ4**
XPZ950	967 mm	Gates	**1NJP8**
XPZ987	1,001 mm	Gates	**1NJX3**
XPZ1012	1,031 mm	Gates	**1NJW5**
XPZ1060	1,072 mm	Gates	**1NJW6**
XPZ1087	1,095 mm	Gates	**1NKE5**
XPZ1120	1,143 mm	Gates	**1NJV8**
XPZ1137	1,150 mm	Gates	**1NJY1**
XPZ1150	1,166 mm	Gates	**1NKC8**
XPZ1180	1,194 mm	Gates	**1NJR4**
XPZ1202	1,220 mm	Gates	**1NKB5**
XPZ1212	1,222 mm	Gates	**1NJY8**
XPZ1250	1,270 mm	Gates	**1NKA8**
XPZ1270	1,285 mm	Gates	**1NKA2**
XPZ1287	1,302 mm	Gates	**1NKG3**
XPZ1312	1,324 mm	Gates	**1NJR3**
XPZ1320	1,324 mm	Gates	**1NJX8**
XPZ1340	1,362 mm	Gates	**1NKE4**
XPZ1400	1,415 mm	Gates	**1NJT3**
XPZ1450	1,463 mm	Gates	**1NKC6**
XPZ1500	1,523 mm	Gates	**1NKD5**
XPZ1512	1,527 mm	Gates	**1NKC3**
XPZ1562	1,574 mm	Gates	**1NJY4**
XPZ1587	1,599 mm	Gates	**1NKA6**
XPZ1700	1,714 mm	Gates	**1NJP5**
XPZ1750	1,761 mm	Gates	**1NKE2**
XPZ1800	1,817 mm	Gates	**1NJZ3**
XPZ1900	1,914 mm	Gates	**1NJU2**
XPZ1950	1,955 mm	Gates	**1NJR9**
XPZ2000	2,016 mm	Gates	**1NJT2**
XPZ2120	2,141 mm	Gates	**1NJT9**
XPZ2240	2,261 mm	Gates	**1NKB1**
XPZ2500	2,516 mm	Gates	**1NKG7**

Industry No.	Outside L	Brand	Item No.
XPA (12mm Top Width by 9mm Thick)			
XPA1000	1,023 mm	Gates	**1NJV4**
XPA1032	1,046 mm	Gates	**1NJV7**
XPA1060	1,074 mm	Gates	**1NJN8**
XPA1120	1,147 mm	Gates	**1NJV2**
XPA1150	1,173 mm	Gates	**1NJV5**
XPA1157	1,176 mm	Gates	**1NKJ4**
XPA1180	1,204 mm	Gates	**1NKA4**
XPA1207	1,227 mm	Gates	**1NJZ5**
XPA1232	1,255 mm	Gates	**1NJZ6**
XPA1250	1,275 mm	Gates	**1NJV9**
XPA1307	1,329 mm	Gates	**1NJW8**
XPA1320	1,339 mm	Gates	**1NKC1**
XPA1357	1,380 mm	Gates	**1NKB2**
XPA1400	1,423 mm	Gates	**1NJU1**
XPA1432	1,458 mm	Gates	**1NJU9**
XPA1457	1,484 mm	Gates	**1NJW1**
XPA1500	1,529 mm	Gates	**1NJV3**
XPA1532	1,550 mm	Gates	**1NKA1**
XPA1550	1,570 mm	Gates	**1NKF7**
XPA1600	1,619 mm	Gates	**1NJT4**
XPA1632	1,656 mm	Gates	**1NJN7**
XPA1700	1,721 mm	Gates	**1NJR6**
XPA1732	1,764 mm	Gates	**1NKF4**
XPA1757	1,779 mm	Gates	**1NKG2**
XPA1800	1,821 mm	Gates	**1NJR7**
XPA1832	1,842 mm	Gates	**1NJU7**
XPA1857	1,878 mm	Gates	**1NKG1**
XPA1900	1,917 mm	Gates	**1NJT5**
XPA1950	1,976 mm	Gates	**1NKH1**
XPA2000	2,020 mm	Gates	**1NJU6**
XPA2120	2,146 mm	Gates	**1NJT7**
XPA2182	2,197 mm	Gates	**1NKB9**
XPA2240	2,267 mm	Gates	**1NKC7**
XPA2300	2,318 mm	Gates	**1NKB3**
XPA2360	2,375 mm	Gates	**1NJP3**
XPA2382	2,403 mm	Gates	**1NKK2**
XPA2650	2,680 mm	Gates	**1NJX9**
XPA2682	2,706 mm	Gates	**1NKE1**
XPA2800	2,828 mm	Gates	**1NJY9**

Industry No.	Outside L	Brand	Item No.
XPA (13mm Top Width by 9mm Thick)			
XPALP932	937 mm	Chicago Pneumatic	**40JE71**
XPA950	950 mm	Chicago Pneumatic	**40JE59**
XPALP1000	1,000 mm	Chicago Pneumatic	**40JE86**
XPALP1030	1,032 mm	Chicago Pneumatic	**40JE35**
XPA1632	1,632 mm	Chicago Pneumatic	**40JE23**
XPA (13mm Top Width by 10mm Thick)			
XPALP1282	1,287 mm	Chicago Pneumatic	**40JE49**
XPALP1340	1,340 mm	Chicago Pneumatic	**40JE51**
XPB (16mm Top Width by 13mm Thick)			
XPB1250	1,275 mm	Gates	**1NJZ8**
XPB1320	1,340 mm	Gates	**1NKF9**
XPB1340	1,356 mm	Gates	**1NKH9**
XPB1400	1,411 mm	Gates	**1NJZ9**
XPB1500	1,530 mm	Gates	**1NJU8**
XPB1590	1,611 mm	Gates	**1NJZ1**
XPB1627	1,657 mm	Gates	**1NKJ9**
XPB1700	1,721 mm	Gates	**1NJP6**
XPB1800	1,823 mm	Gates	**1NJR2**
XPB1900	1,921 mm	Gates	**1NJR5**
XPB2000	2,022 mm	Gates	**1NJT6**
XPB2020	2,048 mm	Gates	**1NKD1**
XPB2120	2,147 mm	Gates	**1NJR1**
XPB2150	2,176 mm	Gates	**1NKB6**
XPB2180	2,199 mm	Gates	**1NKF5**
XPB2240	2,267 mm	Gates	**1NJP9**
XPB2280	2,303 mm	Gates	**1NKG4**
XPB2360	2,370 mm	Gates	**1NJP4**
XPB2410	2,437 mm	Gates	**1NJX1**
XPB2500	2,522 mm	Gates	**1NJP2**
XPB2530	2,551 mm	Gates	**1NKA7**
XPB2650	2,678 mm	Gates	**1NJP1**
XPB2680	2,710 mm	Gates	**1NKD2**
XPB2800	2,821 mm	Gates	**1NJP7**
XPB3000	3,015 mm	Gates	**1NJR8**
XPB (16mm Top Width by 14mm Thick)			
XPB1900	1,900 mm	Chicago Pneumatic	**40JE77**
XPC (21mm Top Width by 13mm Thick)			
XPC2360	2,385 mm	Gates	**1NKD7**
XPC2650	2,695 mm	Gates	**1NJW9**
XPC2800	2,833 mm	Gates	**1NJW4**

Scan. Order. Done.
Details on page A1.

Find more information on V-Belts on page 95.

3HEU3

Dayton

Variable Speed Belts

Oil- and heat-resistant top cover for dimensional stability. Use with belt systems that have smaller pulleys, wide speed ranges, high-horsepower demands, or high-heat applications. These belts are often used in band saws, milling machines, and conveyor systems that can speed up and slow down. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	Top Width	Outside L	Groove Angle	Item No.
1228V255	¾ in	26 in	28 °	3HEU3
1422V290	⅞ in	29½ in	22 °	3HEU4
1626V290	1 in	29½ in	26 °	3HEU5
1922V277	1 3/16 in	28 13/32 in	22 °	3HEU6
1922V298		30 13/32 in	22 °	3HEU7
1922V338		34 13/32 in	22 °	3HEU8
1922V363		36 29/32 in	22 °	3HEU9
1922V386		39¼ in	22 °	3HEV1
1922V403		40 29/32 in	22 °	3HEV2
1922V426		43¼ in	22 °	3HEV3
1922V443		44 29/32 in	22 °	3HEV4
1922V454		46 in	22 °	3HEV5
1922V484		49 in	22 °	3HEV6
1922V526		53¼ in	22 °	3HEV7
1922V544		55 in	22 °	3HEV8
1922V604		61 in	22 °	3HEV9
2230V273	1⅜ in	28 in	30 °	3HEW1
2230V275		28¼ in	30 °	3HEW2
2230V345		35 9/32 in	30 °	3HEW3
2322V441	1 7/16 in	44¾ in	22 °	3HEW4
2322V481		48 29/32 in	22 °	3HEW5
2322V541		54¾ in	22 °	3HEW6
2322V601		60 29/32 in	22 °	3HEW7
2426V343	1½ in	35 in	26 °	3HEW8
2428V345		35¼ in	28 °	3HEW9
2430V345		35¼ in	30 °	3HEX1
2430V354		36 9/32 in	30 °	3HEX2
2830V363	1¾ in	37¼ in	30 °	3HEX3

Dayton EAGLE POLYURETHANE BELTING & O-RINGS

Micro Ribbed V-Belts for Compressors

These 6-rib belts feature high tensile strength plus oil and heat resistance. Suitable for use with many Dayton, Speedaire, and other brand compressors. They can also be use with high-speed drive systems in washing machines, vacuum cleaners, lawn mowers, and medical equipment. Manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers).

Industry No.	No. of Ribs	Outside L	Brand	Item No.
J (9/16 in Top Width by 5/32 in Thick)				
410J6	6	41 in	Dayton	3X707
460J6	6	46 in	Dayton	3X655
490J6	6	49 in	Dayton	3X542
PJ (3/16 in Top Width by ⅛ in Thick)				
2PJ246	2	9.7 in	Eagle Belting	60GK72
2PJ256	2	10.1 in	Eagle Belting	60GK75
2PJ263	2	10.3 in	Eagle Belting	60GK78
2PJ265	2	10.4 in	Eagle Belting	60GK81
2PJ286	2	11.3 in	Eagle Belting	60GK84
2PJ314	2	12.3 in	Eagle Belting	60GK87
2PJ326	2	12.8 in	Eagle Belting	60GK90
2PJ336	2	13.2 in	Eagle Belting	60GK93
2PJ346	2	13.6 in	Eagle Belting	60GK96
2PJ376	2	14.8 in	Eagle Belting	60GK99
2PJ388	2	15.2 in	Eagle Belting	60GL03
2PJ435	2	17.1 in	Eagle Belting	60GL06
PJ (⅜ in Top Width by ⅛ in Thick)				
4PJ246	4	9.7 in	Eagle Belting	60GK74
4PJ256	4	10.1 in	Eagle Belting	60GK77
4PJ263	4	10.3 in	Eagle Belting	60GK80
4PJ265	4	10.4 in	Eagle Belting	60GK83
4PJ286	4	11.3 in	Eagle Belting	60GK86
4PJ314	4	12.3 in	Eagle Belting	60GK89
4PJ326	4	12.8 in	Eagle Belting	60GK92
4PJ336	4	13.2 in	Eagle Belting	60GK95
4PJ346	4	13.6 in	Eagle Belting	60GK98
4PJ376	4	14.8 in	Eagle Belting	60GL02
4PJ388	4	15.2 in	Eagle Belting	60GL05
4PJ435	4	17.1 in	Eagle Belting	60GL08
PJ (5/16 in Top Width by ⅛ in Thick)				
3PJ246	3	9.7 in	Eagle Belting	60GK73
3PJ256	3	10.1 in	Eagle Belting	60GK76
3PJ263	3	10.3 in	Eagle Belting	60GK79
3PJ265	3	10.4 in	Eagle Belting	60GK82
3PJ286	3	11.3 in	Eagle Belting	60GK85
3PJ314	3	12.3 in	Eagle Belting	60GK88
3PJ326	3	12.8 in	Eagle Belting	60GK91
3PJ336	3	13.2 in	Eagle Belting	60GK94
3PJ346	3	13.6 in	Eagle Belting	60GK97
3PJ376	3	14.8 in	Eagle Belting	60GL01
3PJ388	3	15.2 in	Eagle Belting	60GL04
3PJ435	3	17.1 in	Eagle Belting	60GL07

6AGK5

6AGK6

6AGK7

10Y311

PowerDrive SUPPLIER DIVERSITY TB Wood's Incorporated

V-Belt Accessories

WALL RACK

36"L with mounting holes and includes six 6" hooks. Not for V-belts over 72"L.

RULE

Aluminum slide adjustment and measures (3L, 4L, 5L, A, B, 3V, and 5V) V-belts up to 100". With mounting holes.

TENSION CHECKER

Compact, spring-loaded. Adjustable for 10" to 170" belt span and up to 35 lb. of tension.

SHEAVE GROOVE GAUGE

Handy tool lets you quickly check belt section and sheave groove wear.

Description	Brand	Item No.
Wall Rack	Power Drive	6AGK5
Rule	Power Drive	6AGK6
Tension Checker	Power Drive	6AGK7
Sheave Groove Gauge	TB Woods	10Y311

Industry No.	Pitch Length (in.)	No. of Teeth	Brand	Item No.
XL Series Timing Belts				
13/64 in Pitch, 1/4 in Width, One Side Tooth Location				
60XL025	6	30	Dayton	**1DHE7**
70XL025	7	35	Dayton	**1DHE8**
80XL025	8	40	Dayton	**1DHE9**
90XL025	9	45	Dayton	**1DHF1**
100XL025	10	50	Dayton	**1DHF2**
110XL025	11	55	Dayton	**1DHF3**
120XL025	12	60	Dayton	**1DHF4**
130XL025	13	65	Dayton	**1DHF5**
140XL025	14	70	Dayton	**1DHF6**
150XL025	15	75	Dayton	**1DHF7**
160XL025	16	80	Dayton	**1DHF8**
170XL025	17	85	Dayton	**1DHF9**
180XL025	18	90	Dayton	**1DHG1**
190XL025	19	95	Dayton	**1DHG2**
200XL025	20	100	Dayton	**1DHG3**
210XL025	21	105	Dayton	**1DHG4**
220XL025	22	110	Dayton	**1DHG5**
230XL025	23	115	Dayton	**1DHG6**
240XL025	24	120	Dayton	**1DHG7**
250XL025	25	125	Dayton	**1DHG8**
260XL025	26	130	Dayton	**1DHG9**
13/64 in Pitch, 3/8 in Width, One Side Tooth Location				
60XL037	6	30	Dayton	**1DHH1**
70XL037	7	35	Dayton	**1DHH2**
80XL037	8	40	Dayton	**1DHH3**
90XL037	9	45	Dayton	**1DHH4**
100XL037	10	50	Dayton	**1DHH5**
110XL037	11	55	Dayton	**1DHH6**
120XL037	12	60	Dayton	**1DHH7**
130XL037	13	65	Dayton	**1DHH8**
140XL037	14	70	Dayton	**1DHH9**
150XL037	15	75	Dayton	**1DHJ1**
160XL037	16	80	Dayton	**1DHJ2**
170XL037	17	85	Dayton	**1DHJ3**
180XL037	18	90	Dayton	**1DHJ4**
190XL037	19	95	Dayton	**1DHJ5**
200XL037	20	100	Dayton	**1DHJ6**
210XL037	21	105	Dayton	**1DHJ7**
220XL037	22	110	Dayton	**1DHJ8**
230XL037	23	115	Dayton	**1DHJ9**
240XL037	24	120	Dayton	**1DHK1**
250XL037	25	125	Dayton	**1DHK2**
260XL037	26	130	Dayton	**1DHK3**
XL Series Dual Timing Belts				
13/64 in Pitch, 3/8 in Width, Two Sides Tooth Location				
TP160XL037	16	80	Bando	**56KM16**
TP180XL037	18	90	Bando	**56KM11**
TP190XL037	19	95	Bando	**56KM10**
TP220XL037	22	110	Bando	**56KM02**
TP300XL037	30	150	Bando	**56KL80**
L Series Timing Belts				
3/8 in Pitch, 1/2 in Width, One Side Tooth Location				
124L050	12 3/8	33	Dayton	**1DHK4**
150L050	15	40	Dayton	**1DHK5**
187L050	18 3/4	50	Dayton	**1DHK6**
210L050	21	56	Dayton	**1DHK7**
225L050	22 1/2	60	Dayton	**1DHK8**
240L050	24	64	Dayton	**1DHK9**
255L050	25 1/2	68	Dayton	**1DHL1**
270L050	27	72	Dayton	**1DHL2**
285L050	28 1/2	76	Dayton	**1DHL3**
300L050	30	80	Dayton	**1DHL4**
322L050	32 1/4	86	Dayton	**1DHL5**
345L050	34 1/2	92	Dayton	**1DHL6**
367L050	36 3/4	98	Dayton	**1DHL7**
390L050	39	104	Dayton	**1DHL8**
420L050	42	112	Dayton	**1DHL9**
450L050	45	120	Dayton	**1DHN1**
480L050	48	128	Dayton	**1DHN2**
510L050	51	136	Dayton	**1DHN3**
540L050	54	144	Dayton	**1DHN4**
600L050	60	160	Dayton	**1DHN5**
3/8 in Pitch, 3/4 in Width, One Side Tooth Location				
150L075	15	40	Bando	**56KR67**
187L075	18 3/4	50	Bando	**56KR01**
210L075	21	56	Bando	**56KP96**
225L075	22 1/2	60	Bando	**56KP92**
240L075	24	64	Bando	**56KP79**
255L075	25 1/2	68	Bando	**56KP66**
270L075	27	72	Bando	**56KP44**
285L075	28 1/2	76	Bando	**56KP23**
322L075	32 1/4	86	Bando	**56KN88**
345L075	34 1/2	92	Bando	**56KN84**
420L075	42	112	Bando	**56KN72**
3/8 in Pitch, 1 in Width, One Side Tooth Location				
124L100	12 3/8	33	Dayton	**1DHN6**
150L100	15	40	Dayton	**1DHN7**
187L100	18 3/4	50	Dayton	**1DHN8**
210L100	21	56	Dayton	**1DHN9**
225L100	22 1/2	60	Dayton	**1DHP1**
240L100	24	64	Dayton	**1DHP2**
255L100	25 1/2	68	Dayton	**1DHP3**
270L100	27	72	Dayton	**1DHP4**
285L100	28 1/2	76	Dayton	**1DHP5**
300L100	30	80	Dayton	**1DHP6**
322L100	32 1/4	86	Dayton	**1DHP7**
345L100	34 1/2	92	Dayton	**1DHP8**
367L100	36 3/4	98	Dayton	**1DHP9**
390L100	39	104	Dayton	**1DHR1**
420L100	42	112	Dayton	**1DHR2**
450L100	45	120	Dayton	**1DHR3**
480L100	48	128	Dayton	**1DHR4**
510L100	51	136	Dayton	**1DHR5**
540L100	54	144	Dayton	**1DHR6**
600L100	60	160	Dayton	**1DHR7**
L Series Dual Timing Belts				
3/8 in Pitch, 1/2 in Width, Two Sides Tooth Location				
TP187L050	18 3/4	50	Bando	**56KL47**
TP480L050	48	128	Bando	**56KK98**
3/8 in Pitch, 3/4 in Width, Two Sides Tooth Location				
TP240L075	24	64	Bando	**56KK61**
TP480L075	48	128	Bando	**56KK44**
3/8 in Pitch, 1 in Width, Two Sides Tooth Location				
TP345L100	34 1/2	92	Bando	**56KK31**
TP420L100	42	112	Bando	**56KK26**
TP480L100	48	128	Bando	**56KK23**
TP510L100	51	136	Bando	**56KK21**
TP540L100	54	144	Bando	**56KK20**
H Series Timing Belts				
1/2 in Pitch, 1 in Width, One Side Tooth Location				
240H100	24	48	Dayton	**1DHR8**
270H100	27	54	Dayton	**1DHR9**
300H100	30	60	Dayton	**1DHT1**
330H100	33	66	Dayton	**1DHT2**
360H100	36	72	Dayton	**1DHT3**
370H100	37	74	Bando	**56KM97**
390H100	39	78	Dayton	**1DHT4**
420H100	42	84	Dayton	**1DHT5**
450H100	45	90	Dayton	**1DHT6**
480H100	48	96	Dayton	**1DHT7**
510H100	51	102	Dayton	**1DHT8**
540H100	54	108	Dayton	**1DHT9**
570H100	57	114	Dayton	**1DHU1**
600H100	60	120	Dayton	**1DHU2**
630H100	63	126	Dayton	**1DHU3**
660H100	66	132	Dayton	**1DHU4**
700H100	70	140	Dayton	**1DHU5**
750H100	75	150	Bando	**56KM30**
800H100	80	160	Bando	**56KM06**
900H100	90	180	Bando	**56KL01**
1700H100	170	340	Bando	**56KK40**
1/2 in Pitch, 1 1/2 in Width, One Side Tooth Location				
240H150	24	48	Bando	**56KN55**
270H150	27	54	Bando	**56KN19**
300H150	30	60	Bando	**56KN08**
360H150	36	72	Bando	**56KM09**
390H150	39	78	Bando	**56KL98**
420H150	42	84	Bando	**56KL87**
450H150	45	90	Bando	**56KL77**
480H150	48	96	Bando	**56KL72**
510H150	51	102	Bando	**56KL67**
540H150	54	108	Bando	**56KL62**
570H150	57	114	Bando	**56KL63**
1700H150	170	340	Bando	**56KK16**

Dayton

BANDO

1DHH8

Timing Belts

- XL, L, H, and MXL Series
- For timing belt pulleys, see page 111

Used to drive precision equipment with a pattern of teeth that mate to timing belt pulleys or idlers. These timing belts must be paired with a compatible series pulley or idler.

XL, L, H, and MXL Series—Trapezoidal teeth deliver low to moderate amounts of torque and the integral fiberglass cords ensure dimensional stability. Neoprene backing is flexible and resists wear and heat.

XL Series Dual—Teeth on both sides of the belt allow for a more exacting belt to pulley engagement. Often used in serpentine drive systems and when pulleys need to rotate in opposite directions. The flexible neoprene construction resists abrasion and heat. Suitable for applications such as printing and packaging systems.

L Series Dual—Have teeth on both sides of the belt for a more exacting belt to pulley engagement. Often used in serpentine drive systems and when pulleys need to rotate in opposite directions.

Note: A larger assortment of timing belts is available on Grainger.com; search for "timing belts" and Filter Results by desired width.

Industry No.	Pitch Length (in.)	No. of Teeth	Brand	Item No.
1/2 in Pitch, 2 in Width, One Side Tooth Location				
420H200	42	84	Bando	**56KL27**
450H200	45	90	Bando	**56KL16**
480H200	48	96	Bando	**56KL14**
540H200	54	108	Bando	**56KK97**
570H200	57	114	Bando	**56KK99**
700H200	70	140	Bando	**56KK73**
750H200	75	150	Bando	**56KK74**
800H200	80	160	Bando	**56KK63**
900H200	90	180	Bando	**56KK24**
1000H200	100	200	Bando	**56KK14**
1100H200	110	220	Bando	**56KK13**
1250H200	125	250	Bando	**56KK11**
MXL Series Timing Belts				
5/64 in Pitch, 1/8 in Width, One Side Tooth Location				
96MXL012	9 19/32	120	Bando	**56KU88**
5/64 in Pitch, 1/4 in Width, One Side Tooth Location				
84MXL025	8 13/32	105	Bando	**56KU01**
88MXL025	8 51/64	110	Bando	**56KU19**
96MXL025	9 19/32	120	Bando	**56KU21**
91MXL025	9 1/8	114	Bando	**56KU20**

Dust-Free Timing Belts

BANDO

- XL, L, MXL, and T5 Series
- For timing belt pulleys, see page 111

These timing belts should be paired with a compatible series pulley.

XL and L Series Dust-Free—Durable polyurethane construction produces less dust than neoprene belts. Have trapezoidal teeth and are for food processing applications requiring low to moderate amounts of torque.

MXL Series Dust-Free—Feature trapezoidal teeth and durable polyurethane construction that produces less dust than neoprene belts. For food processing applications requiring low to moderate amounts of torque.

T5 Series Dust-Free—All belts have trapezoidal teeth and integral fiberglass cords that don't stretch over time and ensure dimensional stability. Resist oil, ozone, and produce less dust than neoprene belts. Suitable for drive systems in appliances and office machines.

Industry No.	Top Width	Pitch Length	No. of Teeth	Item No.
XL Series Dust-Free Timing Belts				
13/64 in Pitch, One Side Tooth Location				
120XL037	3/8 in	12 in	60	**56KR56**
140XL037	3/8 in	14 in	70	**56KR36**
160XL037	3/8 in	16 in	80	**56KR24**
200XL037	3/8 in	20 in	100	**56KR03**
220XL037	3/8 in	22 in	110	**56KP91**
250XL037	3/8 in	25 in	125	**56KP76**
L Series Dust-Free Timing Belts				
3/8 in Pitch, One Side Tooth Location				
210L050	1/2 in	21 in	33	**56KN95**
450L050	1/2 in	45 in	33	**56KM66**
345L075	3/4 in	34 1/2 in	33	**56KM31**
322L100	1 in	32 1/4 in	33	**56KL49**
390L100	1 in	39 in	33	**56KL39**
MXL Series Dust-Free Timing Belts				
5/64 in Pitch, One Side Tooth Location				
72MXL025	1/4 in	7 13/64 in	90	**56KT82**
90MXL025	1/4 in	8 61/64 in	112	**56KU32**
104MXL025	1/4 in	10 13/32 in	130	**56KU03**
112MXL025	1/4 in	11 13/64 in	140	**56KT93**
152MXL025	1/4 in	15 13/64 in	190	**56KT47**

56KM31

Industry No.	Top Width	Pitch Length	No. of Teeth	Item No.
T5 Series Dust-Free Timing Belts				
5 mm Pitch, One Side Tooth Location				
T5-295-10	10 mm	295 mm	59	**56KR17**
T5-295-16	16 mm	295 mm	59	**56KP32**
T5-940-16	16 mm	940 mm	188	**56KL81**
T5-545-25	25 mm	545 mm	109	**56KM25**
T5-575-25	25 mm	575 mm	115	**56KM12**
T5-700-25	25 mm	700 mm	140	**56KL85**
T5-815-25	25 mm	815 mm	163	**56KL79**
30T5-815	30 mm	815 mm	163	**56KK07**

Scan. Order. Done.
Details on page A1.

Falcon Pd

Hawk Pd

Dual Hi-Performance Pd

Conti Synchrochain Carbon

Continental ContiTech BANDO

Timing Belts

▪ For timing belt pulleys, see page 111

Versatile positive drive belts combine the advantages of V-belts with chain and gear for power transmission belting that is efficient and precisely accurate. They are adaptable to almost any type of drive, from printers to heavy industrial milling machines and grinders.

Note: Additional size Continental ContiTech timing belts are available on Grainger.com.

Falcon Pd—Handle applications with increased horsepower and low torque, as well as those requiring backside idlers. Belts resist tooth deformity, have higher tooth rigidity, and withstand higher temperatures than polyurethane belts.

Synchrochain Carbon—For extreme applications that require reliable transmission of large power outputs, high torques, and high speeds, or with high dynamic stressing.

Hawk Pd—Universal-profile belts can fit most high-capacity synchronous drive requirements.

Note: 85mm Hawk Pd timing belts are available on Grainger.com.

Dual Hi-Performance Pd—Double-sided belts provide compactness and greater horsepower capacity in precision drives with synchronized reverse-rotation drive shafts. Resist oil, heat, ozone, and abrasion.

SilentSync—Self-tracking timing belts have an aramid cord so they don't need retensioning and helical teeth for quiet operation and less vibration in low noise and low vibration drive systems. Resist coolants, oil, and ozone.

STS—Have curvilinear teeth that deliver quiet operation at high speeds. Integral fiberglass cords ensure dimensional stability and the flexible neoprene backing resists wear and heat.

T10—All belts have trapezoidal teeth and integral fiberglass cords that don't stretch over time and ensure dimensional stability. Resist oil and ozone.

Abbreviated Industry Number*	Pitch Length (mm)	No. of Teeth	Top Width 12 mm Item No.	21 mm Item No.	36 mm Item No.
Falcon Pd Series Timing Belts, Continental					
8 mm Pitch, One Side Tooth Location					
8GTR-640	640	80	2UVY8	2UVY9	2UVZ1
8GTR-720	720	90	2UVZ2	2UVZ3	2UVZ4
8GTR-800	800	100	2UVZ5	2UVZ6	2UVZ7
8GTR-896	896	112	2UVZ8	2UVZ9	2UWA1
8GTR-1000	1,000	125	2UVP6	2UVP7	2UVP8
8GTR-1120	1,120	140	2UVP9	2UVR1	2UVR2
8GTR-1200	1,200	150	2UVR3	2UVR4	2UVR5
8GTR-1280	1,280	160	2UVR6	2UVR7	2UVR8
8GTR-1440	1,440	180	2UVR9	2UVT1	2UVT2
8GTR-1600	1,600	200	2UVT3	2UVT4	2UVT5
8GTR-1792	1,792	224	2UVT6	2UVT7	2UVT8
8GTR-2000	2,000	250	2UVT9	2UVU1	2UVU2
8GTR-2240	2,240	280	2UVU3	2UVU4	2UVU5
8GTR-2400	2,400	300	2UVU6	2UVU7	2UVU8
8GTR-2520	2,520	315	2UVU9	2UVX1	2UVX2
8GTR-2840	2,840	355	2UVX3	2UVX4	2UVX5
8GTR-3200	3,200	400	2UVX6	2UVX7	2UVX8
8GTR-3600	3,600	450	2UVX9	2UVY1	2UVY2
8GTR-4000	4,000	500	2UVY3	2UVY4	2UVY5
8GTR-4480	4,480	560	2UVY6	2UVY7	—

Abbreviated Industry Number*	Pitch Length (mm)	No. of Teeth	Top Width 12 mm Item No.	21 mm Item No.	36 mm Item No.
Synchrochain Carbon Series Timing Belts, Continental					
8 mm Pitch, One Side Tooth Location					
CTD8M-640	640	80	39GC56	39GD55	39GC15
CTD8M-720	720	90	39GC66	39GC64	39GC45
CTD8M-800	800	100	39GD03	39GC80	39GC53
CTD8M-896	896	112	39GC40	39GD46	39GC31
CTD8M-1000	1,000	125	39GC41	39GC29	39GD23
CTD8M-1120	1,120	140	39GD39	39GD41	39GD26
CTD8M-1200	1,200	150	39GD91	39GC81	39GD12
CTD8M-1280	1,280	160	39GD06	39GC96	39GD57
CTD8M-1440	1,440	180	39GD80	39GC57	39GD44
CTD8M-1600	1,600	200	39GC86	39GD77	39GD69
CTD8M-1792	1,792	224	39GD27	39GC59	39GD97
CTD8M-2000	2,000	250	39GC89	39GC62	39GD61
CTD8M-2240	2,240	280	39GD92	39GC92	39GD90
CTD8M-2400	2,400	300	39GD30	39GC39	39GC99
CTD8M-2520	2,520	315	39GD67	39GC42	39GD36
CTD8M-2840	2,840	355	39GC28	39GD49	39GC60
CTD8M-3200	3,200	400	39GD79	39GC13	39GC20
CTD8M-3600	3,600	450	39GC73	39GD56	39GD21
CTD8M-4000	4,000	500	39GC69	39GD73	39GD66

Abbreviated Industry Number*	Pitch Length (mm)	No. of Teeth	Top Width 20 mm Item No.	30 mm Item No.	50 mm Item No.	85 mm Item No.
Hawk Pd Series Timing Belts, Continental						
8 mm Pitch, One Side Tooth Location						
6008M	600	75	2UVL4	2UVL5	2UVL6	2UVL7
6408M	640	80	2UVL8	2UVL9	2UVN1	2UVN2
7208M	720	90	2UVN3	2UVN4	2UVN5	2UVN6
8008M	800	100	2UVN7	2UVN8	2UVN9	2UVP1
8808M	880	110	2UVP2	2UVP3	2UVP4	2UVP5
9608M	960	120	2UWA2	2UWA3	2UWA4	2UWA5
10408M	1,040	130	2UVF3	2UVF4	2UVF5	2UVF6
11208M	1,120	140	2UVF7	2UVF8	2UVF9	2UVG1
12008M	1,200	150	2UVG2	2UVG3	2UVG4	2UVG5
12808M	1,280	160	2UVG6	2UVG7	2UVG8	2UVG9
14408M	1,440	180	2UVH1	2ZRU5	2UVH2	2UVH3
16008M	1,600	200	2UVH4	2UVH5	2UVH6	2UVH7
17608M	1,760	220	2UVH8	2UVH9	2UVJ1	2UVJ2
18008M	1,800	225	2UVJ3	2UVJ4	2UVJ5	2UVJ6
20008M	2,000	250	2UVJ7	2UVJ8	2UVJ9	2UVK1
24008M	2,400	300	2UVK2	2UVK3	2UVK4	2UVK5
26008M	2,600	325	2UVK6	2UVK7	2UVK8	2UVK9
28008M	2,800	350	2UVL1	2UVL2	2UWP7	2UVL3

Abbreviated Industry Number*	Pitch Length (mm)	No. of Teeth	Top Width 20 mm Item No.	30 mm Item No.	50 mm Item No.
Dual Hi-Performance Pd Series Timing Belts, Continental					
8 mm Pitch, Two Sides Tooth Location					
D720 8M	720	90	2UWF1	—	—
D800 8M	800	100	—	2UWF2	—
D960 8M	960	120	—	2UWF3	—
D1040 8M	1,040	130	2UWA6	—	—
D1120 8M	1,120	140	—	2UWA7	—
D1200 8M	1,200	150	—	2UWA8	—
D1280 8M	1,280	160	—	2UWA9	—
D1440 8M	1,440	180	2UWC1	2UWC2	2UWC3
D1600 8M	1,600	200	2UWC4	2UWC5	2UWC6
D1760 8M	1,760	220	—	2UWC8	2UWC9
D1800 8M	1,800	225	2UWD2	2UWD3	—
D2000 8M	2,000	250	—	2UWD5	—
D2400 8M	2,400	300	2UWD6	2UWD7	2UWD8
D2600 8M	2,600	325	—	2UWD9	2UWE1
D2800 8M	2,800	350	2UWE2	2UWE3	2UWE4
D3048 8M	3,048	381	—	—	2UWE5
D3280 8M	3,280	410	—	—	2UWE7
D3600 8M	3,600	450	—	2UWE8	2UWE9

Industry Number	Top Width (mm)	Pitch Length (mm)	No. of Teeth	Item No.
SilentSync Series Timing Belts, Continental				
8 mm Pitch, One Side Tooth Location				
Y-720	16	720	90	45PL36
Y-800	16	800	100	45PL37
Y-896	16	896	112	45PL38
Y-1120	16	1,120	140	45PL40
Y-1200	16	1,200	150	45PL41
W-800	32	800	100	45PL51
W-896	32	896	112	45PL52
W-1000	32	1,000	125	45PL53
W-1120	32	1,120	140	45PL54
W-1200	32	1,200	150	45PL55
W-1280	32	1,280	160	45PL56
W-1440	32	1,440	180	45PL57
W-1600	32	1,600	200	45PL58
W-1792	32	1,792	224	45PL59
W-2000	32	2,000	250	45PL60
W-2400	32	2,400	300	45PL62
P-720	64	720	90	45PM17
P-800	64	800	100	45PM18
P-896	64	896	112	45PM19
P-1120	64	1,120	140	45PM20
14 mm Pitch, One Side Tooth Location				
B-1568	35	1,568	112	45PL68
B-1750	35	1,750	125	45PL69
B-1960	35	1,960	140	45PL70
B-2100	35	2,100	150	45PL71
B-2240	35	2,240	160	45PL72
B-2380	35	2,380	170	45PL73
B-2800	35	2,800	200	45PL76
G-1400	52 ½	1,400	100	45PL81
G-1750	52 ½	1,750	125	45PL83
G-2660	52 ½	2,660	190	45PL89
G-3500	52 ½	3,500	250	45PM26
O-1400	70	1,400	100	45PL94
O-2380	70	2,380	170	45PM01
O-2660	70	2,660	190	45PM03
O-2800	70	2,800	200	45PM04
R-2100	105	2,100	150	45PM10
R-2240	105	2,240	160	45PM11

Abbreviated Industry Number*	Pitch Length (mm)	No. of Teeth	Top Width 20 mm Item No.	37 mm Item No.	68 mm Item No.
Falcon Pd Series Timing Belts, Continental					
14 mm Pitch, One Side Tooth Location					
14GTR-1190	1,190	85	—	3PDR7	—
14GTR-1400	1,400	100	—	3PDR8	—
14GTR-1568	1,568	112	3PDR9	—	3PDT2
14GTR-1750	1,750	125	3PDT3	—	3PDT5
14GTR-1960	1,960	140	3PDT6	—	—
14GTR-3136	3,136	224	—	3PDU1	—
14GTR-3500	3,500	250	—	3PDU2	—
14GTR-3920	3,920	280	3PDU3	3PDU4	—
14GTR-4410	4,410	315	—	3PDU5	—

Abbreviated Industry Number*	Pitch Length (mm)	No. of Teeth	Top Width 20 mm Item No.	37 mm Item No.
Synchrochain Carbon Series Timing Belts, Continental				
14 mm Pitch, One Side Tooth Location				
CTD14M-1120	1,120	80	39GC17	—
CTD14M-1190	1,190	85	39GD13	—
CTD14M-1400	1,400	100	39GC18	—
CTD14M-1568	1,568	112	39GC94	—
CTD14M-2100	2,100	150	39GD83	—
CTD14M-2520	2,520	180	39GD11	39GC67
CTD14M-2660	2,660	190	39GC22	—
CTD14M-2800	2,800	200	—	39GC50
CTD14M-2800	2,840	200	39GD52	—
CTD14M-3136	3,136	224	39GC43	39GD81
CTD14M-3304	3,304	236	—	39GD85
CTD14M-3500	3,500	250	39GC36	39GC65
CTD14M-3920	3,920	280	39GD19	39GC44

Abbreviated Industry Number*	Top Width (mm)	Pitch Length (mm)	No. of Teeth	Item No.
STS Series Timing Belts, Bando				
8 mm Pitch, One Side Tooth Location				
S8M-480	15 mm	480	60	794EP5
S8M-1120	15 mm	1,120	140	794EN8
S8M-1400	15 mm	1,400	175	794EP1
S8M-1520	25 mm	1,520	190	794EU5

Abbreviated Industry Number*	Top Width (mm)	Pitch Length (mm)	No. of Teeth	Item No.
T10 Series Timing Belt, Bando				
10 mm Pitch, One Side Tooth Location				
T10-560	10 mm	560	56	794EJ6
T10-720	10 mm	720	72	794EJ7
T10-1010	50 mm	1,010	101	794EN2

** To complete Mfr. Model No., add millimeter width.*

Find even MORE on Grainger.com®

BANDO Dayton

High Torque Drive Timing Belts

- Operating temp. range: -22° to 194°F

These neoprene belts have rounded teeth that distribute stress so belts can deliver high horsepower over a range of speeds and high torque at low speeds. Thinner and more flexible than other belts, they prevent wear and heat buildup that can diminish working life.

1LWB9

Industry Number	Top Width	Pitch Length (mm)	No. of Teeth	Item No.
HT Series Timing Belts, Bando				
5 mm Pitch, One Side Tooth Location				
450-5M-15	15 mm	450	90	**56KP09**
500-5M-15	15 mm	500	100	**56KN97**
425-5M-15	15 mm	425	85	**56KP15**
400-5M-15	15 mm	400	80	**56KP19**

Industry Number	Pitch Length (mm)	No. of Teeth	Top Width 20 mm Item No.	Top Width 30 mm Item No.
HT Series Timing Belts, Dayton				
8 mm Pitch, One Side Tooth Location				
5608M	560	70	**1DHV1**	**1DHV2**
6408M	640	80	**1DHV9**	**1DHW1**
7208M	720	90	**1DHW4**	**1DHW5**
8008M	800	100	**1DHW8**	**1DHW9**
9608M	960	120	**1LVT2**	**1LVT3**
10408M	1,040	130	**1LVT6**	**1LVT7**
12008M	1,200	150	**1LVU5**	**1LVU6**
14408M	1,440	180	**1LVX4**	**1LVX5**
16008M	1,600	200	**1LVX8**	**1LVX9**
20008M	2,000	250	**1LWA2**	**1LWA3**

Industry Number	Top Width	Pitch Length (mm)	No. of Teeth	Item No.
HT Series Timing Belts, Dayton				
14 mm Pitch, One Side Tooth Location				
119014M40	40 mm	1,190	85	**1LWB5**
140014M40	40 mm	1,400	100	**1LWB9**
161014M40	40 mm	1,610	115	**1LWC4**
177814M40	40 mm	1,778	127	**1LWC8**
189014M40	40 mm	1,890	135	**1LWD3**
210014M40	40 mm	2,100	150	**1LWD7**
231014M40	40 mm	2,310	165	**1LWE2**
245014M40	40 mm	2,450	175	**1LWE6**
259014M40	40 mm	2,590	185	**1LWF1**
280014M40	40 mm	2,800	200	**1LWF5**
315014M40	40 mm	3,150	225	**1LWF9**
350014M40	40 mm	3,500	250	**1LWG4**
385014M40	40 mm	3,850	275	**1LWG8**
119014M55	55 mm	1,190	85	**1LWB6**
140014M55	55 mm	1,400	100	**1LWC1**
161014M55	55 mm	1,610	115	**1LWC5**
210014M55	55 mm	2,100	150	**1LWD8**
231014M55	55 mm	2,310	165	**1LWE3**
245014M55	55 mm	2,450	175	**1LWE7**
259014M55	55 mm	2,590	185	**1LWF2**
280014M55	55 mm	2,800	200	**1LWF6**
315014M55	55 mm	3,150	225	**1LWG1**
385014M55	55 mm	3,850	275	**1LWG9**
385014M85	85 mm	3,850	275	**1LWH1**
245014M85	85 mm	2,450	175	**1LWE8**

Hollow Core
15V470

Solid Core
15V482

Solid Core
Metal-Detectable
30D659

Fenner Drives® EAGLE® POLYURETHANE BELTING & O-RINGS

Connector
15V476

Round Belting

- Temp. range: -22° to 150°F
- Sold in 100-ft. length

Polyurethane belts can be cut to required length; weld endless or use connectors for hollow-core belts to extend length. Smooth belts are FDA compliant. Solid-core metal-detectable belting is used in food processing and pharmaceutical applications.

Dia.	Min. Pulley Dia.	Mfr. Model	Item No.
Hollow-Core Smooth Round Belts, Eagle Belting			
Clear, 85A			
3/16 in	2 in	4934009	**15V470**
1/4 in	2 1/2 in	4934012	**15V471**
5/16 in	3 in	4934015	**15V472**
3/8 in	3 1/2 in	4934018	**15V473**
1/2 in	4 1/2 in	4934024	**15V474**
5/8 in	5 1/2 in	4934030	**15V475**
Yellow, 85A			
3/16 in	2 in	4934021	**15V465**
1/4 in	2 1/2 in	4934022	**15V466**
5/16 in	3 in	4934023	**15V467**
3/8 in	3 1/2 in	4934025	**15V468**
1/2 in	4 1/2 in	4934026	**15V469**
Solid-Core Smooth Round Belts, Eagle Belting			
Orange, 85A			
3/32 in	3/4 in	1032003	**15V482**
1/8 in	15/16 in	1032004	**15V483**
3/16 in	1 1/2 in	1032006	**15V484**
1/4 in	2 in	1032008	**15V485**
5/16 in	2 1/2 in	1032010	**15V486**
3/8 in	3 in	1032012	**15V487**
1/2 in	4 in	1032016	**15V488**
9/16 in	4 1/2 in	1032018	**15V489**
5/8 in	5 in	1032020	**15V490**
3/4 in	6 in	1032024	**15V491**
Clear, 95A			
3/32 in	1 in	4907003	**15V492**
1/8 in	1 1/4 in	4907006	**15V493**
3/16 in	1 7/8 in	4907009	**15V494**
1/4 in	2 1/2 in	4907012	**15V495**
5/16 in	3 1/8 in	4907015	**15V496**
3/8 in	3 3/4 in	4907018	**15V497**
1/2 in	5 in	4907024	**15V498**
9/16 in	5 5/8 in	4907027	**15V499**
5/8 in	6 1/4 in	4907030	**15V501**
3/4 in	7 1/2 in	4907033	**15V502**

Dia.	Min. Pulley Dia.	Mfr. Model	Item No.
Solid-Core Rough Round Belts, Eagle Belting			
Green, 89A			
2 mm	3/4 in	4905302	**15V506**
3 mm	1 in	4905303	**15V507**
4 mm	1 7/16 in	4905304	**15V508**
5 mm	1 3/4 in	4905305	**15V509**
6 mm	2 1/8 in	4905306	**15V510**
7 mm	2 1/2 in	4905307	**15V511**
8 mm	2 53/64 in	4905308	**15V512**
10 mm	3 1/2 in	4905310	**15V513**
12 mm	4 1/4 in	4905312	**15V514**
15 mm	5 1/4 in	4905315	**15V515**
Reinforced Solid-Core Smooth Round Belts, Eagle Belting			
Orange, 85A			
1/4 in	2 1/2 in	4940058	**15V503**
5/16 in	3 1/8 in	4940059	**15V504**
3/8 in	3 3/4 in	4940060	**15V505**
Solid-Core Smooth Metal-Detectable Round Belts, Eagle Belting			
Blue, 80A			
3/16 in	1 5/16 in	4941100	**30D659**
1/4 in	1 3/4 in	4941101	**30D660**
5/16 in	2 3/16 in	4941102	**30D661**
3/8 in	2 5/8 in	4941103	**30D662**

Dia.	Pkg. Qty.	Mfr. Model	Item No.
Aluminum Round Belt Connectors, For Use with Hollow Core Belts, Eagle Belting			
3/16 in	25	4935009	**15V476**
1/4 in	25	L04CON6S	**15V477**
5/16 in	25	L04CON8S	**15V478**
3/8 in	20	L04CON10S	**15V479**
1/2 in	20	L04CON13S	**15V480**
5/8 in	15	4935030	**15V481**

Gates®

1NKK4

Round Endless Belts

- Temp. range: -30° to 140°F

Allow minimal stretch and have no splice, making them extra durable and efficient. Made from rubber with nylon reinforcement cords and designed for 1/4 turn or twisted drives where more than an O-ring is required. Also suitable for serpentine drives, power turn and line shaft conveyors, and commercial sewing machines.

Dia.	Inside Length	Min. Pulley Dia.	Mfr. Model	Item No.
Reinforced Gum Rubber, Black, 80A				
3/8 in	3 ft	3 in	88201234	**1NKL7**
	8 ft		88201486	**1NKK4**
7/16 in	3 ft		88201835	**1NKL4**
	6 ft		88202008	**1NKL9**
9/16 in	14 ft	5 13/32 in	88203491	**1NKN4**
	15 ft		88203492	**1NKN5**
	16 ft		88203493	**1NKN2**
	17 ft		88203469	**1NKL8**
	18 ft		88203486	**1NKL3**
	19 ft		88203470	**1NKK7**
	21 ft		88203494	**1NKK5**
	23 ft		88203471	**1NKK6**
	26 ft		88203472	**1NKK9**
	28 ft		88203473	**1NKL2**
	29 ft		88203495	**1NKL5**
	32 ft		88203474	**1NKL1**
	35 ft		88203475	**1NKL6**
	37 ft		88203484	**1NKN1**
	39 ft		88203476	**1NKN3**
	47 ft		88203477	**1NKK8**
	55 ft		88203478	**1NKN6**

Fenner Drives® EAGLE® POLYURETHANE BELTING & O-RINGS

Cordless Belt Welding Kit

Freestyle cordless welder is powered by 2 rechargeable batteries to complete up to 30 welds per charge. Features built-in profile clamping dies for both round and V belt profiles. Kit includes cordless welder, flat plate adapters, battery charger, 4 NiMH D batteries, cutting shears, flash cutters, blade release tape, and tool bag.

Description	Mfr. Model	Item No.
Used for Non-Reinforced Polyurethane Round and V-Belts	5700539	**5HYN7**

Fenner Drives® EAGLE® POLYURETHANE BELTING & O-RINGS

Belt Heating Tool

This belt heating tool can join all Eagle non-reinforced belting and some reinforced polyurethane belting. Device allows you to apply heat to the ends of a length of belting, and then join the belt ends for a completed belt. Tool comes with a holder and 2" blade. 120V.

Description	Item No.
Heat Iron Complete, Tip And Paddle, For Use With Butt Welding Kit	**33Z789**

Fenner Drives® EAGLE® POLYURETHANE BELTING & O-RINGS

Twisted O-Ring Round Belts

- Clear, smooth texture, Shore A 85 hardness
- Sold in packages of 50

Quick-connect polyurethane twisted O-rings are a great fast-fit solution for live roller conveyors. No need to dismantle drive components, providing an easy way to avoid system downtime. Metal hooks are included.

Dia.	Overall Length	Mfr. Model	Item No.
3/16 in	6 in	5050003	**19RT86**
	10 1/2 in	5050015	**19RT98**
	10 5/8 in	5050004	**19RT94**
	11 in	5050012	**19RT95**
	11 1/2 in	5050911	**19RT97**
	12 in	5050016	**19RT99**
	12 1/2 in	5050005	**19RT87**
	12 3/4 in	5050002	**19RT92**
	12 7/8 in	5050006	**19RT88**
	13 in	5050007	**19RT89**
	13 1/4 in	5050017	**19RU01**
	13 1/2 in	5050009	**19RT90**
	13 3/4 in	5050014	**19RT96**
	14 in	5050008	**19RT93**
	14 1/2 in	5050010	**19RT91**

Scan. Order. Done.
Details on page A1.

54XM75

Congress DRIVES

Fixed-Bore Die-Cast Variable-Pitch V-Belt Pulleys

- Zamak/zinc alloy

Precision-machined threaded mating sections provide up to 30% downward adjustment in pitch dia. for setting precise speed. These zinc die-cast pulleys are lightweight, impact- and corrosion-resistant, and ready to install with included socket-head setscrews. Suitable for light duty applications such as fans and blowers in HVAC applications.

Outside Dia.	3L Belt Pitch Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Mfr. Model*	Bore Diameter ½ in Item No.	Bore Diameter ⅝ in Item No.
3.25 in	1.8 in to 2.6 in	2.1 in to 3.1 in	2.4 in to 3.2 in	VP325	**54XM75**	**54XM74**
3.25 in	2.1 in to 2.9 in	2.4 in to 3.4 in	2.9 in to 3.5 in	VP350	**54XM79**	**54XM78**
3.75 in	2.2 in to 3.1 in	2.6 in to 3.6 in	3.1 in to 3.7 in	VP375	**54XM77**	—
4 in	2.6 in to 3.4 in	2.9 in to 3.9 in	3.2 in to 4 in	VP400	**54XM94**	**54XM95**
4.5 in	3 in to 3.8 in	3.3 in to 4.3 in	3.7 in to 4.5 in	VP450	**54XM96**	**54XM97**

** To complete Mfr. Model, add X050 for ½" bore dia. and X062KW for ⅝" bore dia.*

Solid Construction 54XN20

Spoked Construction 54XN02

Fixed-Bore Die-Cast V-Belt Pulleys

Congress DRIVES

- Zamak/zinc alloy

Precision sheaves have machined grooves and bores for high concentricity. These zinc die-cast pulleys are lightweight, impact- and corrosion-resistant, and ready to install with included setscrews. Pulleys 6" dia. and larger are spoke construction to further reduce weight. All bores above ½" (except 54XN22) have keyways, see chart on page 116. Pulleys are suitable for light duty applications such as fans and blowers in HVAC applications.

Outside Dia.	3L Belt Pitch Dia.	4L or A Belt Pitch Dia.	Mfr. Model*	Bore Diameter ⅜ in Item No.	½ in Item No.	⅝ in Item No.	¾ in Item No.	1 in Item No.	⅞ in Item No.	1 3/16 in Item No.
Solid Construction										
1.5 in	1.05 in	1.35 in	CA0150	**54XN20**	**54XN21**	**54XN22**	—	—	—	—
2 in	—	1.85 in	CA0200	**54XN23**	**54XN24**	**54XN25**	**54XN26**	—	—	—
2.25 in	—	2.1 in	CA0225	—	**54XN27**	**54XN28**	—	—	—	—
2.5 in	2.25 in	2.25 in	CA0250	—	**54XM31**	**54XM32**	**54XM33**	—	—	—
2.75 in	2.3 in	2.5 in	CA0275	**54XM70**	**54XM86**	**54XM85**	—	—	—	—
3 in	2.55 in	2.75 in	CA0300	**54XM68**	**54XM34**	**54XM35**	**54XM98**	**54XM69**	**54XM67**	—
3.5 in	3.05 in	3.25 in	CA0350	**54XM65**	**54XN10**	**54XN11**	**54XN12**	**54XM66**	**54XM64**	—
4 in	3.55 in	3.85 in	CA0400	**54XM57**	**54XN13**	**54XN14**	**54XN15**	**54XM63**	**54XM58**	—
4.5 in	4.05 in	4.35 in	CA0450	—	**54XN16**	**54XN17**	**54XN18**	**54XM59**	**54XM60**	—
5 in	4.55 in	4.75 in	CA0500	—	**54XN19**	**54XM99**	**54XN01**	**54XM61**	**54XM62**	—
Spoked Construction										
6 in	5.55 in	5.75 in	CA0600	—	**54XN02**	**54XN03**	**54XN04**	**54XN05**	**54XM87**	—
7 in	6.55 in	6.75 in	CA0700	—	**54XN06**	**54XN07**	**54XN08**	**54XN09**	**54XM88**	—
8 in	7.55 in	7.75 in	CA0800	—	**54XM36**	**54XM37**	**54XM38**	**54XM39**	**54XM89**	—
9 in	8.55 in	8.75 in	CA0900	—	**54XM40**	**54XM41**	**54XM42**	**54XM43**	**54XM90**	—
10 in	9.55 in	9.75 in	CA1000	—	**54XM44**	**54XM45**	**54XM46**	**54XM47**	**54XM73**	—
11 in	10.55 in	10.75 in	CA1100	—	—	**54XM84**	**54XM83**	**54XM82**	—	—
12 in	11.55 in	11.75 in	CA1200	—	**54XM48**	**54XM49**	**54XM50**	**54XM51**	**54XM72**	—
14 in	13.55 in	13.75 in	CA1400	—	—	**54XM76**	**54XM52**	**54XM53**	**54XM71**	**54XM54**

** To complete Mfr. Model, add X037 for ⅜", add X050 for ½", add X062KW for ⅝" (except 54XN22 add X062), add X075KW for ¾", add X087KW for ⅞", add X100KW for 1", and add X118KW for 1 3/16".*

5UHP5

6FFH8

6FFH5

TB Wood's Incorporated ESSICK AIR

Fixed-Bore Cast-Iron Variable-Pitch V-Belt Pulleys

Adjust by loosening the included setscrews in hubs, turning threaded flange to desired setting, and then retightening setscrews to secure to the shaft. Cast iron offers good wear resistance and absorbs heat. Standard keyway, see chart on page 116. ½" bore dia. has no keyway.

Outside Dia. (In)	3L Belt Pitch Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	5V or 5VX Belt Pitch Dia.	Brand	Mfr. Model*	Bore Diameter ½ in Item No.	⅝ in Item No.	¾ in Item No.	⅞ in Item No.	1 in Item No.	1 ⅛ in Item No.	1 ⅜ in Item No.	1 ⅝ in Item No.
Single Groove														
2.58	1.79 in to 2.44 in	—	—	—	TB Woods	1VP25	**5UHP5**	**5UHP6**	—	—	—	—	—	—
2.87	1.87 in to 2.69 in	—	—	—	TB Woods	1VP30	**5UHP7**	**5UHP8**	—	—	—	—	—	—
3.15	2.08 in to 2.9 in	2.32 in to 3.04 in	—	—	TB Woods	1VP34	**5UHP9**	—	—	—	—	—	—	—
3.15	2.08 in to 2.9 in	2.32 in to 3.04 in	2.78 in to 3.19 in	—	TB Woods	1VP34	—	**5UHR1**	**5UHR0**	**5UHR2**	—	—	—	—
3.5	2.7 in to 3.5 in	2.9 in to 3.9 in	3 in to 4 in	—	Essick Air Products	110308	—	**6FFH7**	—	—	—	—	—	—
3.75	2.26 in to 3.18 in	2.39 in to 3.62 in	2.95 in to 3.77 in	—	TB Woods	1VP40	**5UHR3**	**5UHR5**	**5UHR4**	**5UHR6**	—	—	—	—
4	3.1 in to 3.9 in	3.3 in to 4.3 in	4.4 in to 3.4 in	—	Essick Air Products	110279-003	—	**6FFH8**	—	—	—	—	—	—
4.15	2.66 in to 3.58 in	2.79 in to 4.02 in	3.35 in to 4.17 in	—	TB Woods	1VP44	**5UHR9**	**5UHT1**	**5UHT0**	**5UHT2**	**5UHR7**	**5UHR8**	—	—
4.75	3.26 in to 4.18 in	3.39 in to 4.62 in	3.95 in to 4.77 in	—	TB Woods	1VP50	—	—	—	—	**5UHT3**	—	—	—
4.75	3.26 in to 4.18 in	3.39 in to 0.62 in	3.95 in to 4.77 in	—	TB Woods	1VP50	**5UHT5**	**5UHT7**	**5UHT6**	**5UHT8**	—	**5UHT4**	—	—
5.35	3.89 in to 4.78 in	3.49 in to 5.22 in	4.55 in to 5.37 in	—	TB Woods	1VP56	**5UHU1**	**5UHU3**	**5UHU2**	**5UHU4**	**5UHT9**	**5UHU0**	—	—
5.95	4.46 in to 5.38 in	4.59 in to 5.82 in	5.15 in to 5.97 in	5.07 in to 5.87 in	TB Woods	1VP62	—	**5UHV1**	—	**5UHV2**	**5UHU8**	**5UHU9**	**5UHV0**	—
6	—	4.12 in to 5.85 in	4.68 in to 5.91 in	—	TB Woods	1VP60	—	**52YP80**	—	**5UHU7**	—	**5UHU5**	**5UHU6**	—
6.5	—	4.62 in to 5.85 in	5.18 in to 6.1 in	5.1 in to 6.33 in	TB Woods	1VP65	—	—	—	**5UHV5**	—	**5UHV3**	**5UHV4**	—
6.55	5.6 in to 5.98 in	5.19 in to 6.2 in	5.75 in to 6.57 in	5.67 in to 6.49 in	TB Woods	1VP68	—	—	—	**5UHV9**	**5UHV6**	**5UHV7**	**5UHV8**	—
7.1	—	5.22 in to 6.45 in	5.78 in to 7.01 in	5.7 in to 6.93 in	TB Woods	1VP71	—	—	—	**5UHW2**	—	**5UHW0**	**5UHW1**	—
7.5	—	5.62 in to 6.85 in	6.18 in to 7.1 in	6.1 in to 7.33 in	TB Woods	1VP75	—	—	—	**5UHW5**	—	**5UHW3**	**5UHW4**	—
2 Groove														
3.25	2.2 in to 3 in	2.8 in to 3.4 in	—	—	Essick Air Products	110290	—	—	—	**6FFH5**	—	—	—	—
3.35	2.27 in to 2.78 in	2.5 in to 3.22 in	2.76 in to 3.37 in	—	TB Woods	2VP36	—	**5UHW7**	**5UHW6**	**5UHW8**	—	—	—	—
3.35	2.58 in to 2.78 in	3.02 in to 3.22 in	3.17 in to 3.37 in	—	TB Woods	2VP36	—	—	—	—	—	**52YP81**	—	—
3.5	2.7 in to 3.5 in	2.9 in to 3.9 in	3 in to 4 in	—	Essick Air Products	110291	—	—	—	—	—	**6FFH6**	—	—
3.95	2.46 in to 3.38 in	2.7 in to 3.82 in	3.15 in to 3.97 in	—	TB Woods	2VP42	—	**5UHX1**	—	**5UHX2**	**5UHW9**	**5UHX0**	—	—
4.75	3.26 in to 4.18 in	3.37 in to 4.62 in	3.95 in to 4.77 in	—	TB Woods	2VP50	—	**5UHX5**	—	**5UHX6**	**5UHX3**	**5UHX4**	—	—
5.35	3.86 in to 4.78 in	3.99 in to 5.22 in	4.55 in to 5.37 in	—	TB Woods	2VP56	—	—	—	**5UHX9**	**5UHX7**	**5UHX8**	—	—
5.95	4.46 in	4.59 in to 5.82 in	5.15 in to 5.97 in	5.07 in to 5.89 in	TB Woods	2VP62	—	—	—	—	—	**5UHY0**	**5UHY1**	—
6.5	—	4.62 in to 5.85 in	5.18 in to 6.41 in	5.1 in to 6.33 in	TB Woods	2VP65	—	—	—	—	—	**5UHY2**	**5UHY3**	**5UHY4**
6.55	5.06 in	5.19 in to 6.42 in	5.75 in to 6.57 in	5.67 in to 6.48 in	TB Woods	2VP68	—	—	—	—	—	**6PFH6**	**5UHY5**	—
7.1	—	5.22 in to 6.45 in	5.78 in to 7.01 in	5.7 in to 6.93 in	TB Woods	2VP71	—	—	—	—	—	**5UHY6**	**5UHY7**	**5UHY8**
7.5	—	5.62 in to 6.85 in	6.18 in to 7.41 in	6.1 in to 7.33 in	TB Woods	2VP75	—	—	—	—	—	**5UHY9**	**5UHZ0**	**5UHZ1**

** To complete Mfr. Model, add Bore Dia.*

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Find more information on Standard Keyway and Setscrew Machining on page 116.

Fixed-Bore Die-Cast Stepped V-Belt Pulleys

Congress DRIVES

- Zamak/zinc alloy

These pulleys have bore and grooves machined together to provide high concentricity and are suitable for applications that need frequent adjustments to speed. Zinc die-cast construction, lightweight, impact- and corrosion-resistant, and ready to install with included setscrews. Use in pairs (1 inverted), in any combination, for effective speed regulation. Will fit a 5/8" or 1/2" dia. shaft. Designed for use with 4L or A Type V-belts. Pitch dia. is 0.15" less than outside dia. Suitable for light duty applications such as fans and blowers in HVAC applications.

54XM91

Bore Diameter	For Belt Trade Size	Smallest Step Outside Diameter	Largest Step Outside Diameter	Step Outside Diameters	Mfr. Model	Item No.
3 Step						
5/8 in	4L, A	1 7/8 in	3 5/16 in	1 7/8 in, 2 1/2 in, 3 5/16 in	SCA300-3X062KW	**54XM91**
5/8 in	4L, A	2 in	4 in	2 in, 3 in, 4 in	SCA400-3X062KW	**54XM55**
5/8 in	4L, A	3 in	5 in	3 in, 4 in, 5 in	SCA500-3X062KW	**54XM81**
5/8 in	4L, A	4 in	6 in	4 in, 5 in, 6 in	SCA600-3X062KW	**54XM92**
4 Step						
5/8 in	4L, A	2 in	4 in	2 in, 2 5/8 in, 3 3/8 in, 4 in	SCA400-4X062KW	**54XM56**
5/8 in	4L, A	2 in	5 in	2 in, 3 in, 4 in, 5 in	SCA500-4X062KW	**54XM80**
5/8 in	4L, A	3 in	6 in	3 in, 4 in, 5 in, 6 in	SCA600-4X062KW	**54XM93**

Fixed-Bore Cast-Iron V-Belt Pulleys

TB Wood's Incorporated

- Lightweight cast-iron construction
- Standard keyway with setscrew
- 1/2" bore dia. has no keyway but has setscrew

Pulleys feature good wear resistance, absorb heat, and are ready to install with included setscrews to secure to the shaft. **AK** pulleys are compatible with A (4L) belts; **BK** pulleys are made for A (4L) or B (5L) belts. All pulleys are for use in many rotating mechanical power applications such as fans, pumps, air compressors, and conveyors.

Outside Dia.	3L Belt Pitch Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Construction	Mfr. Model*	Bore Diameter: 1/2 in Item No.	5/8 in Item No.	3/4 in Item No.	7/8 in Item No.	1 in Item No.	1 1/8 in Item No.	1 3/8 in Item No.
AK Series Single Groove												
1.75 in	—	1.75 in	—	Solid	AK17	**5RHY3**	**5RHY4**	—	—	—	—	—
2.05 in	1.71 in	2.05 in	—	Solid	AK20	**5RHY5**	**5RHY7**	**5RHY6**	—	—	—	—
2.25 in	1.91 in	2.25 in	—	Solid	AK22	**5RHY8**	**5RHZ0**	**5RHY9**	—	—	—	—
2.55 in	2.21 in	2.55 in	—	Web	AK25	**5RHZ1**	**5RHZ3**	**5RHZ2**	**5RHZ4**	—	—	—
2.85 in	2.51 in	2.85 in	—	Web	AK28	**5RHZ5**	**5RHZ7**	**5RHZ6**	**5RHZ8**	—	—	—
3.05 in	2.71 in	3.05 in	—	Web	AK30	—	**5RHZ9**	—	**5RJA0**	—	—	—
3.25 in	2.91 in	3.25 in	—	Web	AK32	**14A165**	**14A166**	**14A167**	**14A168**	**14A169**	—	—
3.45 in	3.11 in	3.45 in	—	Web	AK34	**5RJA1**	**5RJA3**	**5RJA2**	**5RJA4**	—	—	—
3.75 in	3.41 in	3.75 in	—	Web	AK39	**5RJA6**	**5RJA8**	**5RJA7**	**5RJA9**	**5RJA5**	—	—
3.95 in	3.61 in	3.95 in	—	Web	AK41	**5RJC1**	**5RJC3**	**5RJC2**	**5RJC4**	**5RJC0**	—	—
4.25 in	3.91 in	4.25 in	—	Arm	AK44	—	—	**52YP82**	**5RJC5**	—	—	—
4.45 in	4.11 in	4.45 in	—	Arm	AK46	**5RJC7**	**5RJC9**	**5RJC8**	**5RJD0**	**5RJC6**	—	—
4.75 in	4.41 in	4.75 in	—	Arm	AK49	—	—	—	**5RJD1**	—	—	—
4.95 in	4.61 in	4.95 in	—	Arm	AK51	**5RJD3**	**5RJD5**	**5RJD4**	**5RJD6**	**5RJD2**	—	—
5.25 in	4.91 in	5.25 in	—	Arm	AK54	—	—	—	**5RJD7**	—	—	—
5.45 in	5.11 in	5.45 in	—	Arm	AK56	**5RJD9**	**5RJE1**	**5RJE0**	**5RJE2**	**5RJD8**	—	—
5.75 in	5.41 in	5.75 in	—	Arm	AK59	—	—	—	**5RJE3**	—	—	—
5.95 in	5.61 in	5.95 in	—	Arm	AK61	—	—	—	—	**52YP83**	—	—
6.25 in	5.91 in	6.25 in	—	Arm	AK64	—	**5RJE6**	**5RJE5**	**5RJE7**	**5RJE4**	—	—
6.45 in	6.11 in	6.45 in	—	Arm	AK66	—	—	—	—	**52YP84**	—	—
7.25 in	6.91 in	7.25 in	—	Arm	AK74	—	**5RJF0**	**5RJE9**	**5RJF1**	**5RJE8**	—	—
7.75 in	7.41 in	7.75 in	—	Arm	AK79	—	—	—	—	**52YP85**	—	—
8.25 in	7.91 in	8.25 in	—	Arm	AK84	—	**5RJF4**	**5RJF3**	**5RJF5**	**5RJF2**	—	—
9.25 in	8.91 in	9.25 in	—	Arm	AK94	—	**5RJF8**	**5RJF7**	**5RJF9**	**5RJF6**	—	—
10.25 in	9.91 in	10.25 in	—	Arm	AK104	—	—	**5RHX3**	**5RHX4**	**5RHX2**	—	—
11.25 in	10.91 in	11.25 in	—	Arm	AK114	—	—	**5RHX6**	**5RHX7**	**5RHX5**	—	—
12.25 in	11.91 in	12.25 in	—	Arm	AK124	—	—	—	**5RHX9**	**5RHX8**	—	—
13.25 in	12.91 in	13.25 in	—	Arm	AK134	—	—	—	—	**5RHY0**	—	—
14.25 in	13.91 in	14.25 in	—	Arm	AK144	—	—	—	**5RHY2**	**5RHY1**	—	—
AK Series 2 Groove												
2.25 in	2.16 in	2.25 in	—	Solid	2AK22	**5UHG0**	**5UHG1**	—	—	—	—	—
2.55 in	2.21 in	2.55 in	—	Solid	2AK25	**5UHG2**	**5UHG3**	—	—	—	—	—
2.85 in	2.51 in	2.85 in	—	Solid	2AK28	—	**5UHG4**	—	—	—	—	—
3.45 in	3.11 in	3.45 in	—	Solid	2AK34	—	**5UHG5**	—	—	—	—	—
4.75 in	4.41 in	4.75 in	—	Web	2AK49	—	—	—	—	**52YP86**	—	—
7.25 in	6.91 in	7.25 in	—	Arm	2AK74	—	—	—	—	**52YP87**	—	—
BK Series Single Groove												
2.15 in	—	Not Applicable	2.213 in	Solid	BK20	—	**5RJH1**	**5RJH0**	—	—	—	—
2.65 in	—	2.28 in	2.713 in	Solid	BK25	**5RJH2**	**5RJH4**	**5RJH3**	**5RJH5**	—	—	—
2.85 in	—	2.48 in	2.913 in	Web	BK27	—	—	**5RJH6**	**5RJH8**	—	—	—
2.85 in	—	2.1 in	2.5 in	Web	BK27	—	**5RJH7**	—	—	—	—	—
2.95 in	—	2.58 in	3.013 in	Web	BK28	—	**5RJJ0**	**5RJH9**	**5RJJ1**	—	—	—
3.15 in	—	2.78 in	3.22 in	Web	BK30	**5RJJ3**	**5RJJ5**	**5RJJ4**	**5RJJ6**	—	—	—
3.35 in	—	2.98 in	3.413 in	Web	BK32	—	**5RJK0**	**5RJJ9**	**5RJK1**	**5RJJ8**	—	—
3.55 in	—	3.18 in	3.613 in	Web	BK34	—	**5RJK5**	**5RJK4**	**5RJK6**	**5RJK3**	—	—
3.75 in	—	3.38 in	3.813 in	Web	BK36	—	**5RJL1**	**5RJL0**	**5RJL2**	**5RJK8**	**5RJK9**	—
3.95 in	—	3.58 in	4.013 in	Web	BK40	—	**5RJL7**	**5RJL6**	**5RJL8**	**5RJL4**	**5RJL5**	—
4.25 in	—	3.88 in	4.313 in	Web	BK45	—	**5UHD3**	**5UHD2**	**5UHD4**	**5RJN0**	**5UHD1**	—
4.75 in	—	4.38 in	4.813 in	Arm	BK50	—	**5UHE0**	**5UHD9**	—	**5UHD7**	**5UHD8**	—
4.95 in	—	4.58 in	5.013 in	Arm	BK52	—	**5UHE5**	**5UHE4**	**5UHE6**	**5UHE2**	**5UHE3**	—
BK Series 2 Groove												
2.65 in	—	2.28 in	2.713 in	Solid	2BK25	—	**5UHH4**	**5UHH3**	**5UHH5**	—	—	—
2.85 in	—	2.48 in	2.913 in	Solid	2BK27	—	**5UHH7**	—	**5UHH8**	**5UHH6**	—	—
2.95 in	—	2.58 in	3.013 in	Solid	2BK28	—	**5UHJ1**	—	**5UHJ2**	**5UHH9**	**5UHJ0**	—
3.15 in	—	2.78 in	3.213 in	Solid	2BK30	—	**5UHJ6**	**5UHJ5**	**5UHJ7**	**5UHJ3**	**5UHJ4**	—
3.35 in	—	2.98 in	3.413 in	Solid	2BK32	—	—	—	**5UHK1**	**5UHJ9**	**5UHK0**	—
3.55 in	—	3.18 in	3.613 in	Solid	2BK34	—	**5UHK5**	**5UHK4**	**5UHK6**	—	**5UHK3**	—
3.75 in	—	3.38 in	3.813 in	Solid	2BK36	—	**5UHL0**	—	**5UHL1**	—	**5UHK8**	**5UHK9**
3.95 in	—	3.58 in	4.426 in	Web	2BK40	—	—	—	—	**5UHL3**	**5UHL4**	—
4.25 in	—	3.88 in	4.313 in	Web	2BK45	—	—	—	—	**5UHL6**	**5UHL7**	**5UHL8**
4.45 in	—	4.08 in	4.513 in	Web	2BK47	—	—	—	—	**5UHN0**	**5UHN1**	—
4.75 in	—	4.38 in	4.813 in	Web	2BK50	—	—	—	—	—	**5UHN3**	—
4.95 in	—	4.58 in	5.013 in	Web	2BK52	—	—	—	—	—	**5UHN5**	—

** To complete Mfr. Model, add Bore Dia.*

Solid Construction
5RHY3
AK Series

Arm Construction
5RHX2
AK Series

Web Construction
5UHL3
BK Series

Find more information on Standard Keyway and Setscrew Machining on page 116.

6VPF3

Fixed-Bore Composite V-Belt Pulleys

Fenner Drives®

- Spoke construction
- Sintered metal drive hub
- Standard keyway with 5/16-18 setscrew
- Directly interchangeable with industry standard AK sheaves

High-strength PowerMax DriveN V-belt pulleys are fiberglass-reinforced nylon construction that is lightweight, corrosion resistant, and can withstand high temperatures and abrasion. They are ready to install with included setscrews to secure to the shaft. Pulleys are often used in conveyor applications that require washdown.

Outside Dia.	4L or A Belt Pitch Dia.	Mfr. Model*	Bore Diameter 5/8 in Item No.	3/4 in Item No.	1 in Item No.
5.75 in	5.5 in	AFD59	**6VPF3**	**6VPF4**	**6VPF5**
7.25 in	7 in	AFD74	**6VPF6**	**6VPF7**	**6VPF8**
8.25 in	8 in	AFD84	**6VPF9**	**6VPG0**	**6VPG1**
9.25 in	9 in	AFD94	**6VPG2**	**6VPG3**	**6VPG4**
10.25 in	10 in	AFD104	**6VPG5**	**6VPG6**	**6VPG7**
10.98 in	10.73 in	AFD112	**6VPG8**	**6VPG9**	**6VPH0**
12.25 in	12 in	AFD124	**6VPH1**	**6VPH2**	**6VPH3**

** To complete Mfr. Model, add Bore Dia.*

Arm Construction
5RJG0

Web Construction
5UHD5

Solid Construction
5UHJ8

TB Wood's® Incorporated

Bushed-Bore Light-Duty Cast-Iron V-Belt Pulleys

- Lightweight cast-iron construction
- Require QT quick-detachable bushings, sold separately on page 112

These pulleys need a bushing to mount to the drive shaft and adapt the bore, or center hole, to the shaft size. Cast-iron construction offers good wear resistance and absorbs heat. **AK** pulleys are compatible with A (4L) belts; **BK** pulleys are made for A (4L) or B (5L) belts. All pulleys are for use in many rotating mechanical power applications such as fans, pumps, air compressors, and conveyors.

Outside Dia.	3L Pitch Dia.	4L, A, or AX Belt Pitch Dia.	Maximum Bore Diameter	Construction	Mfr. Model	Item No.
AK Series Single Groove						
7.75 in	7.41 in	7.75 in	1 11/16 in	Arm	AK79	**6YRD0**
7.25 in	6.91 in	7.25 in	1 11/16 in	Arm	AK74	**6YRD1**
9.25 in	8.91 in	9.25 in	1 11/16 in	Arm	AK94	**6YRD2**
6.75 in	6.41 in	6.75 in	9 11/64 in	Arm	AK69	**6YRD3**
6.45 in	6.11 in	6.45 in	1 3/8 in	Arm	AK66	**6YRD4**

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	Maximum Bore Diameter	Construction	Mfr. Model	Item No.
BK Series Single Groove						
9.75 in	9.38 in	9.813 in	1 11/16 in	Arm	BK100	**5RJG0**
10.25 in	9.88 in	10.313 in	1 11/16 in	Arm	BK105	**5RJG1**
10.75 in	10.38 in	10.813 in	1 11/16 in	Arm	BK110	**5RJG2**
11.25 in	10.88 in	11.313 in	1 11/16 in	Arm	BK115	**5RJG3**
11.75 in	11.38 in	11.813 in	1 11/16 in	Arm	BK120	**5RJG4**
12.75 in	12.38 in	12.813 in	1 11/16 in	Arm	BK130	**5RJG5**
13.75 in	13.38 in	13.813 in	1 11/16 in	Arm	BK140	**5RJG6**
15.75 in	15.38 in	15.813 in	1 11/16 in	Arm	BK160	**5RJG8**
18.75 in	18.38 in	18.813 in	1 11/16 in	Arm	BK190	**5RJG9**
3.15 in	2.78 in	3.213 in	1 1/8 in	Solid	BK30	**5RJJ2**
3.35 in	2.98 in	3.413 in	1 1/8 in	Solid	BK32	**5RJJ7**
3.55 in	3.18 in	3.613 in	1 1/8 in	Solid	BK34	**5RJK2**
3.75 in	3.38 in	3.813 in	1 1/8 in	Web	BK36	**5RJK7**
3.95 in	3.58 in	4.013 in	1 1/8 in	Web	BK40	**5RJL3**
4.25 in	3.88 in	4.313 in	1 1/8 in	Web	BK45	**5RJL9**
4.45 in	4.08 in	4.513 in	1 5/16 in	Web	BK47	**5UHD5**
4.75 in	4.38 in	4.813 in	1 1/8 in	Web	BK50	**5UHD6**
4.95 in	4.58 in	5.013 in	1 1/8 in	Web	BK52	**5UHE1**
5.25 in	4.88 in	5.313 in	1 5/16 in	Web	BK55	**5UHE7**
5.45 in	5.08 in	5.513 in	1 5/16 in	Web	BK57	**5UHE8**
5.75 in	5.38 in	5.841 in	1 3/8 in	Web	BK60	**5UHE9**
5.95 in	5.58 in	6.013 in	1 9/16 in	Web	BK62	**5UHF0**
6.25 in	5.88 in	6.313 in	1 9/16 in	Web	BK65	**5UHF1**
6.45 in	6.08 in	6.513 in	1 9/16 in	Web	BK67	**5UHF2**
6.75 in	6.38 in	6.813 in	1 11/16 in	Arm	BK70	**5UHF3**
6.95 in	6.58 in	7.013 in	1 11/16 in	Arm	BK72	**5UHF4**
7.25 in	6.88 in	7.313 in	1 11/16 in	Arm	BK75	**5UHF5**
7.75 in	7.38 in	7.813 in	1 11/16 in	Arm	BK80	**5UHF6**
8.25 in	7.88 in	8.313 in	1 11/16 in	Arm	BK85	**5UHF7**
8.75 in	8.38 in	8.813 in	1 11/16 in	Arm	BK90	**5UHF8**
9.25 in	8.88 in	9.313 in	1 11/16 in	Arm	BK95	**5UHF9**
14.75 in	14.38 in	14.813 in	—	Arm	BK150	**5RJG7**
BK Series 2 Groove						
9.75 in	9.38 in	9.831 in	1 11/16 in	Arm	2BK100	**5UHG6**
10.75 in	10.38 in	10.813 in	1 11/16 in	Arm	2BK110	**5UHG7**
11.75 in	11.38 in	11.813 in	1 11/16 in	Arm	2BK120	**5UHG8**
12.75 in	12.38 in	12.813 in	1 15/16 in	Arm	2BK130	**5UHG9**
13.75 in	13.38 in	13.813 in	1 15/16 in	Arm	2BK140	**5UHH0**
15.75 in	15.38 in	16.226 in	1 15/16 in	Arm	2BK160	**5UHH1**
18.75 in	18.38 in	18.813 in	1 15/16 in	Arm	2BK190	**5UHH2**
3.35 in	2.98 in	3.413 in	1 1/8 in	Solid	2BK32	**5UHJ8**
3.55 in	3.18 in	3.613 in	1 1/8 in	Solid	2BK34	**5UHK2**
3.75 in	3.38 in	3.813 in	1 3/8 in	Solid	2BK36	**5UHK7**
3.95 in	3.58 in	4.426 in	1 3/8 in	Solid	2BK40	**5UHL2**
4.25 in	3.88 in	4.313 in	1 3/8 in	Solid	2BK45	**5UHL5**
4.45 in	4.08 in	4.513 in	1 3/8 in	Web	2BK47	**5UHL9**
4.75 in	4.38 in	4.813 in	1 3/8 in	Web	2BK50	**5UHN2**
4.95 in	4.58 in	5.013 in	1 3/8 in	Web	2BK52	**5UHN4**
5.25 in	4.88 in	5.313 in	1 7/16 in	Web	2BK55	**5UHN6**
5.45 in	5.08 in	5.513 in	1 7/16 in	Web	2BK57	**5UHN7**
5.75 in	5.38 in	5.813 in	1 7/16 in	Web	2BK60	**5UHN8**
5.95 in	5.58 in	6.013 in	1 7/16 in	Web	2BK62	**5UHN9**
6.25 in	5.88 in	6.313 in	1 7/16 in	Arm	2BK65	**5UHP0**
6.45 in	6.08 in	6.513 in	1 7/16 in	Arm	2BK67	**5UHP1**
6.75 in	6.38 in	6.813 in	1 11/16 in	Arm	2BK70	**5UHP2**
7.75 in	7.38 in	7.813 in	1 11/16 in	Arm	2BK80	**5UHP3**
8.75 in	8.38 in	8.813 in	1 11/16 in	Arm	2BK90	**5UHP4**

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Bushed Bore Cast-Iron V-Belt Pulleys

TB Wood's Incorporated

- Fine-grain, high-tensile cast-iron
- Require bushings, sold separately on page 112

For use with single or banded V-belts with either wrapped or cogged construction. Not for use with banded A belts. Pulleys require a bushing to mount to the drive shaft and adapt the bore, or center hole, to the shaft size. The cast-iron construction absorbs heat and offers good wear resistance. Pulleys are for use in many rotating mechanical power applications such as fans, pumps, air compressors, and conveyors.

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	For Bushing Size	Max. Bore Dia. (in.)	Min. Bore Dia. (in.)	Construction	Mfr. Model	Item No.
For 5L, B, or BX, 4L, A, or AX V-Belt Section								
1 Groove								
3.75 in	3.25 in	3.813 in	SH	1 5/8	1/2	Solid	341B	**5YKD9**
3.95 in	3.45 in	4.013 in	SH	1 5/8	1/2	Solid	361B	**5YKE3**
4.55 in	4.05 in	4.613 in	SH	1 5/8	1/2	Solid	421B	**6YRD9**
4.75 in	4.25 in	4.813 in	SH	1 5/8	1/2	Solid	441B	**5YKE9**
4.95 in	4.45 in	5.013 in	SDS	1 15/16	1/2	Solid	461B	**5YKF1**
5.15 in	4.65 in	5.213 in	SDS	1 15/16	1/2	Solid	481B	**5YKF5**
5.35 in	4.85 in	5.413 in	SDS	1 15/16	1/2	Solid	501B	**5YKF8**
5.55 in	5.05 in	5.613 in	SDS	1 15/16	1/2	Solid	521B	**10Y268**
5.75 in	5.25 in	5.813 in	SDS	1 15/16	1/2	Solid	541B	**10Y269**
5.95 in	5.45 in	6.013 in	SDS	1 15/16	1/2	Solid	561B	**5YKG8**
6.15 in	5.65 in	6.213 in	SDS	1 15/16	1/2	Solid	581B	**10Y271**
6.35 in	5.85 in	6.413 in	SDS	1 15/16	1/2	Solid	601B	**6YRE0**
6.55 in	6.05 in	6.613 in	SDS	1 15/16	1/2	Solid	621B	**6YRE1**
6.75 in	6.25 in	6.813 in	SDS	1 15/16	1/2	Solid	641B	**6YRE2**
6.95 in	6.45 in	7.013 in	SDS	1 15/16	1/2	Solid	661B	**6YRE3**
7.15 in	6.65 in	7.213 in	SDS	1 15/16	1/2	Solid	681B	**5YKJ7**
7.35 in	6.85 in	7.413 in	SDS	1 15/16	1/2	Web	701B	**6YRE4**
7.75 in	7.25 in	7.813 in	SDS	1 15/16	1/2	Web	741B	**5YKK6**
8.35 in	7.85 in	8.413 in	SDS	1 15/16	1/2	Web	801B	**6YRE5**
8.95 in	8.45 in	9.013 in	SDS	1 15/16	1/2	Web	861B	**6YRE6**
9.75 in	9.25 in	9.813 in	SDS	1 15/16	1/2	Arm	941B	**5YKP0**
11.35 in	10.85 in	11.413 in	SDS	1 15/16	1/2	Arm	1101B	**5YJZ9**
12.75 in	12.25 in	12.813 in	SDS	1 15/16	1/2	Arm	1241B	**6YRD5**
13.95 in	13.45 in	14.013 in	SDS	1 15/16	1/2	Arm	1361B	**6YRD6**
15.75 in	15.25 in	15.813 in	SK	2 1/2	1/2	Arm	1541B	**5YKC5**
16.35 in	15.85 in	16.413 in	SK	2 1/2	1/2	Arm	1601B	**6YRD7**
18.75 in	18.25 in	18.813 in	SK	2 1/2	1/2	Arm	1841B	**6YRD8**
25.35 in	24.85 in	25.413 in	SF	2 15/16	1/2	Arm	2501B	**10Y264**
2 Groove								
3.75 in	3.25 in	3.813 in	SH	1 5/8	1/2	Solid	342B	**5YKE0**
3.95 in	3.45 in	4.013 in	SH	1 5/8	1/2	Solid	362B	**5YKE4**
4.15 in	3.65 in	4.213 in	SH	1 5/8	1/2	Solid	382B	**5YKE5**
4.35 in	4.1 in	4.413 in	SH	1 5/8	1/2	Solid	402B	**5YKE6**
4.55 in	4.05 in	4.613 in	SH	1 5/8	1/2	Solid	422B	**5YKE8**
4.75 in	4.25 in	4.813 in	SH	1 5/8	1/2	Solid	442B	**5YKF0**
4.95 in	4.45 in	5.013 in	SDS	1 15/16	1/2	Solid	462B	**5YKF2**
5.15 in	4.65 in	5.213 in	SDS	1 15/16	1/2	Solid	482B	**5YKF6**
5.35 in	4.85 in	5.413 in	SDS	1 15/16	1/2	Solid	502B	**5YKF9**
5.55 in	5.05 in	5.613 in	SDS	1 15/16	1/2	Solid	522B	**5YKG3**
5.75 in	5.25 in	5.813 in	SDS	1 15/16	1/2	Solid	542B	**5YKG6**
5.95 in	5.45 in	6.013 in	SDS	1 15/16	1/2	Solid	562B	**5YKG9**
6.15 in	5.65 in	6.213 in	SDS	1 15/16	1/2	Solid	582B	**5YKH2**
6.35 in	5.85 in	6.413 in	SDS	1 15/16	1/2	Solid	602B	**5YKH4**
6.55 in	6.05 in	6.613 in	SDS	1 15/16	1/2	Solid	622B	**5YKJ0**
6.75 in	6.25 in	6.813 in	SDS	1 15/16	1/2	Solid	642B	**5YKJ3**
6.95 in	6.45 in	7.013 in	SDS	1 15/16	1/2	Solid	662B	**5YKJ5**
7.15 in	6.65 in	7.213 in	SDS	1 15/16	1/2	Solid	682B	**5YKJ8**
7.35 in	6.85 in	7.413 in	SK	2 1/2	1/2	Solid	702B	**5YKK0**
7.75 in	7.25 in	7.813 in	SK	2 1/2	1/2	Web	742B	**5YKK7**
8.35 in	7.85 in	8.413 in	SK	2 1/2	1/2	Web	802B	**5YKL3**
8.95 in	8.45 in	9.013 in	SK	2 1/2	1/2	Web	862B	**5YKN3**
9.35 in	8.6 in	9 in	SK	2 1/2	1/2	Arm	902B	**6UDR6**
9.75 in	9.25 in	9.813 in	SK	2 1/2	1/2	Arm	942B	**5YKP1**
11.35 in	10.85 in	11.413 in	SK	2 1/2	1/2	Arm	1102B	**5YKA0**
12.75 in	12.25 in	12.813 in	SK	2 1/2	1/2	Arm	1242B	**5YKA8**
13.95 in	13.45 in	14.013 in	SK	2 1/2	1/2	Arm	1362B	**5YKC1**
15.75 in	15.25 in	15.813 in	SK	2 1/2	1/2	Arm	1542B	**5YKC6**
16.35 in	16.013 in	16.413 in	SK	2 1/2	1/2	Arm	1602B	**5YKC8**
18.75 in	18.25 in	18.813 in	SK	2 1/2	1/2	Arm	1842B	**5YKD3**
20.35 in	19.85 in	20.413 in	SF	2 15/16	1/2	Arm	2002B	**5YKD4**
23.75 in	—	—	SF	—	—	Arm	2342B	**38X840**
25.35 in	24.85 in	25.413 in	SF	2 15/16	1/2	Arm	2502B	**5YKD7**
3 Groove								
3.75 in	3.25 in	3.813 in	SH	1 5/8	1/2	Solid	343B	**5YKE1**
3.95 in	3.45 in	4.013 in	SH	1 5/8	1/2	Solid	363B	**6YRF1**
4.15 in	3.65 in	4.213 in	SH	1 5/8	1/2	Solid	383B	**6YRF2**
4.35 in	3.85 in	4.413 in	SH	1 5/8	1/2	Solid	403B	**5YKE7**
4.55 in	4.05 in	4.613 in	SH	1 5/8	1/2	Solid	423B	**6UDR4**
4.75 in	4.25 in	4.813 in	SH	1 5/8	1/2	Solid	443B	**6UDR5**
4.95 in	4.45 in	5.013 in	SD	1 15/16	1/2	Solid	463B	**5YKF3**
5.15 in	4.65 in	5.213 in	SD	1 15/16	1/2	Solid	483B	**5YKF7**
5.35 in	4.85 in	5.413 in	SD	1 15/16	1/2	Solid	503B	**5YKG0**
5.55 in	5.05 in	5.613 in	SD	1 15/16	1/2	Solid	523B	**5YKG4**
5.75 in	5.25 in	5.813 in	SD	1 15/16	1/2	Solid	543B	**5YKG7**
5.95 in	5.45 in	6.013 in	SD	1 15/16	1/2	Solid	563B	**5YKH0**
6.15 in	5.65 in	6.213 in	SD	1 15/16	1/2	Solid	583B	**5YKH3**
6.35 in	5.85 in	6.413 in	SD	1 15/16	1/2	Solid	603B	**5YKH5**
6.55 in	6.05 in	6.613 in	SD	1 15/16	1/2	Solid	623B	**5YKJ1**
6.75 in	6.25 in	6.813 in	SD	1 15/16	1/2	Solid	643B	**5YKJ4**
6.95 in	6.45 in	7.013 in	SD	1 15/16	1/2	Web	663B	**5YKJ6**
7.15 in	6.65 in	7.213 in	SD	1 15/16	1/2	Web	683B	**5YKJ9**
7.35 in	6.85 in	7.413 in	SK	2 1/2	1/2	Solid	703B	**5YKK2**
7.75 in	7.25 in	7.813 in	SK	2 1/2	1/2	Solid	743B	**5YKK8**
8.35 in	7.85 in	8.413 in	SK	2 1/2	1/2	Web	803B	**5YKL5**
8.95 in	8.45 in	9.013 in	SK	2 1/2	1/2	Web	863B	**5YKN4**
9.35 in	8.6 in	9 in	SK	2 1/2	1/2	Arm	903B	**6UDR7**
9.75 in	9.25 in	9.813 in	SK	2 1/2	1/2	Arm	943B	**5YKP2**
11.35 in	10.85 in	11.413 in	SK	2 1/2	1/2	Arm	1103B	**5YKA1**
12.75 in	12.25 in	12.813 in	SK	2 1/2	1/2	Arm	1243B	**5YKA9**
13.95 in	13.45 in	14.013 in	SK	2 1/2	1/2	Arm	1363B	**5YKC2**
15.75 in	15.25 in	15.813 in	SK	2 1/2	1/2	Arm	1543B	**6YRE9**
16.35 in	15.85 in	16.413 in	SK	2 1/2	1/2	Arm	1603B	**10Y261**
18.75 in	18.25 in	18.813 in	SK	2 1/2	1/2	Arm	1843B	**6YRF0**

Solid Construction
5YKE1

Web Construction
5YKA2

Arm Construction
5YKC5

Outside Dia.	4L, A, or AX Belt Pitch Dia.	5L, B, or BX Belt Pitch Dia.	For Bushing Size	Max. Bore Dia. (in.)	Min. Bore Dia. (in.)	Construction	Mfr. Model	Item No.
4 Groove								
3.75 in	3.25 in	3.813 in	SD	1 15/16	1/2	Solid	344B	**39P329**
4.15 in	3.65 in	4.213 in	SD	1 15/16	1/2	Solid	384B	**39P330**
4.55 in	4.05 in	4.613 in	SD	1 15/16	1/2	Solid	424B	**10Y265**
4.75 in	4.25 in	4.813 in	SD	1 15/16	1/2	Solid	444B	**10Y266**
4.95 in	4.45 in	5.013 in	SD	1 15/16	1/2	Solid	464B	**5YKF4**
5.15 in	4.65 in	5.213 in	SD	1 15/16	1/2	Solid	484B	**6YRE7**
5.35 in	4.85 in	5.413 in	SD	1 15/16	1/2	Solid	504B	**10Y267**
5.55 in	5.05 in	5.613 in	SD	1 15/16	1/2	Solid	524B	**5YKG5**
5.75 in	5.25 in	5.813 in	SD	1 15/16	1/2	Solid	544B	**10Y270**
5.95 in	5.45 in	6.013 in	SD	1 15/16	1/2	Solid	564B	**5YKH1**
6.15 in	5.65 in	6.213 in	SD	1 15/16	1/2	Solid	584B	**10Y272**
6.35 in	5.85 in	6.413 in	SD	1 15/16	1/2	Solid	604B	**5YKH7**
6.55 in	6.05 in	6.613 in	SD	1 15/16	1/2	Solid	624B	**5YKJ2**
6.75 in	6.25 in	6.813 in	SD	1 15/16	1/2	Solid	644B	**6YRE8**
6.95 in	6.45 in	7.013 in	SD	1 15/16	1/2	Solid	664B	**10Y292**
7.15 in	6.65 in	7.213 in	SD	1 15/16	1/2	Solid	684B	**10Y293**
7.35 in	6.85 in	7.413 in	SK	2 1/2	1/2	Solid	704B	**10Y294**
7.75 in	7.25 in	7.813 in	SK	2 1/2	1/2	Web	744B	**5YKK9**
8.35 in	7.85 in	8.413 in	SK	2 1/2	1/2	Web	804B	**5YKL7**
8.95 in	8.45 in	9.013 in	SK	2 1/2	1/2	Web	864B	**10Y295**
9.35 in	8.6 in	9 in	SK	2 1/2	1/2	web	904B	**10Y297**
9.75 in	9.25 in	9.813 in	SK	2 1/2	1/2	Web	944B	**5YKP3**
11.35 in	10.85 in	11.413 in	SK	2 1/2	1/2	Arm	1104B	**10Y259**
12.75 in	12.25 in	12.813 in	SK	2 1/2	1/2	Arm	1244B	**5YKC0**
13.95 in	13.45 in	14.013 in	SK	2 1/2	1/2	Arm	1364B	**10Y260**
15.75 in	15.25 in	15.813 in	SF	2 15/16	1/2	Arm	1544B	**5YKC7**
16.35 in	15.85 in	16.413 in	SF	2 15/16	1/2	Arm	1604B	**10Y262**
18.75 in	18.25 in	18.813 in	SF	2 15/16	1/2	Arm	1844B	**10Y263**

Outside Dia.	C or CX Pitch Diameter	For Bushing Size	Max. Bore Dia. (in.)	Min. Bore Dia. (in.)	Construction	Mfr. Model	Item No.
For C or CX V-Belt Section							
2 Groove							
7.4 in	7.4 in	SF	2 15/16	1/2	Solid	702C	**5YKK1**
8.4 in	8.4 in	SF	2 15/16	1/2	Solid	802C	**5YKL4**
8.9 in	8.9 in	SF	2 15/16	1/2	Solid	852C	**5YKN1**
9.4 in	9.4 in	SF	2 15/16	1/2	Web	902C	**5YKN5**
16.4 in	16.4 in	SF	2 15/16	1/2	Arm	1602C	**5YKC9**
3 Groove							
5.4 in	5.4 in	SD	1 15/16	1/2	Solid	503C	**5YKG1**
6.6 in	6.4 in	SF	2 15/16	1/2	Solid	603C	**5YKH6**
7.4 in	7.4 in	SF	2 15/16	1/2	Solid	703C	**5YKK3**
7.9 in	7.9 in	SF	2 15/16	1/2	Solid	753C	**5YKL0**
8.4 in	8.4 in	E	3 1/2	7/8	Solid	803C	**5YKL6**
9.4 in	9.4 in	E	3 1/2	7/8	Solid	903C	**5YKN6**
10.4 in	10.4 in	E	3 1/2	7/8	Solid	1003C	**5YJZ4**
11.4 in	11.4 in	E	3 1/2	7/8	Web	1103C	**5YKA2**
12.4 in	12.4 in	E	3 1/2	7/8	Web	1203C	**5YKA5**
14.4 in	14.4 in	E	3 1/2	7/8	Arm	1403C	**5YKC3**
16.4 in	16.4 in	E	3 1/2	7/8	Arm	1603C	**5YKD0**
24.4 in	24.4 in	E	3 1/2	7/8	Arm	2403C	**5YKD6**
4 Groove							
5.4 in	5.4 in	SD	1 15/16	1/2	Solid	504C	**5YKG2**
6.6 in	6.4 in	SF	2 15/16	1/2	Solid	604C	**5YKH8**
7.4 in	7.4 in	SF	2 15/16	1/2	Solid	704C	**5YKK4**
7.9 in	7.9 in	SF	2 15/16	1/2	Solid	754C	**5YKL1**
8.4 in	8.4 in	E	3 1/2	7/8	Solid	804C	**5YKL8**
8.9 in	8.9 in	E	3 1/2	7/8	Solid	854C	**5YKN2**
9.4 in	9.4 in	E	3 1/2	7/8	Solid	904C	**5YKN7**
9.9 in	9.9 in	E	3 1/2	7/8	Solid	954C	**5YKP4**
10.4 in	10.4 in	E	3 1/2	7/8	Solid	1004C	**5YJZ5**
10.9 in	10.9 in	E	3 1/2	7/8	Web	1054C	**5YJZ8**
11.4 in	11.4 in	E	3 1/2	7/8	Web	1104C	**5YKA3**
12.4 in	12.4 in	E	3 1/2	7/8	Web	1204C	**5YKA6**
14.4 in	14.4 in	E	3 1/2	7/8	Arm	1404C	**5YKC4**
18.4 in	18.4 in	E	3 1/2	7/8	Arm	1804C	**5YKD1**
20.4 in	20.4 in	E	3 1/2	7/8	Arm	2004C	**5YKD5**
30.4 in	30.4 in	F	3 15/16	1	Arm	3004C	**5YKD8**
36.4 in	36.4 in	F	3 15/16	1	Arm	3604C	**5YKE2**
5 Groove							
6.6 in	6.6 in	SF	2 15/16	1/2	Solid	605C	**5YKH9**
7.4 in	7.4 in	SF	2 15/16	1/2	Solid	705C	**5YKK5**
7.9 in	7.9 in	SF	2 15/16	1/2	Solid	755C	**5YKL2**
8.4 in	8.4 in	E	3 1/2	7/8	Solid	805C	**5YKL9**
9.4 in	9.4 in	E	3 1/2	7/8	Solid	905C	**5YKN8**
9.9 in	9.9 in	E	3 1/2	7/8	Solid	955C	**5YKP5**
10.4 in	10.4 in	E	3 1/2	7/8	Solid	1005C	**5YJZ6**
18.4 in	18.4 in	E	3 1/2	7/8	Arm	1805C	**5YKD2**
6 Groove							
8.4 in	8.4 in	E	3 1/2	7/8	Solid	806C	**5YKN0**
9.4 in	9.4 in	F	3 15/16	1	Solid	906C	**5YKN9**
9.9 in	9.9 in	F	3 15/16	1	Solid	956C	**5YKP6**
10.4 in	10.4 in	F	3 15/16	1	Solid	1006C	**5YJZ7**
11.4 in	11.4 in	F	3 15/16	1	Solid	1106C	**5YKA4**
12.4 in	12.4 in	F	3 15/16	1	Web	1206C	**5YKA7**

Scan. Order. Done.
Details on page A1.

TB Wood's Incorporated · Gates

Bushed-Bore Cast-Iron Wedge V-Belt Pulleys

Solid Construction
5YKR4

Web Construction
5YLE2

- Cast iron, except TB Woods are fine-grain, high-tensile cast iron
- Require bushings, order separately on page 112

Designed for wedge V-belts which have a deeper profile allowing it to transfer higher power than classical V-belts. They require a bushing to mount to the drive shaft and adapt the bore, or center hole, to the shaft size. Pulleys are cast iron which has good wear resistance and absorbs heat. Suitable for use in many rotating mechanical power applications such as fans, pumps, air compressors, and conveyors.

Outside Dia.	Pitch Diameter	For Bushing Size	Construction	Max. Bore Dia.	Min. Bore Dia.	Brand	Mfr. Model	Item No.
For 3V, 3VX V-Belt Section								
1 Groove								
2.65 in	2.65 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V2651	**5YKR4**
3 in	3 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V301	**6UDP0**
3.15 in	3.15 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V3151	**6UDP2**
3.35 in	3.35 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V3.351	**5YKR6**
3.65 in	3.65 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3651	**6UDP4**
4.12 in	4.12 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4121	**6UDP5**
4.5 in	4.5 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V451	**6UDP6**
4.75 in	4.75 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4751	**6UDP7**
5 in	5 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V501	**6UDP8**
5.3 in	5.3 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V531	**5YKU8**
5.6 in	5.6 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V561	**6UDP9**
6 in	6 in	SH	Web	1 ⅝ in	½ in	TB Woods	3V601	**6UDR0**
6.5 in	6.5 in	SH	Web	1 ⅝ in	½ in	TB Woods	3V651	**6UDR1**
6.9 in	6.9 in	SH	Web	1 ⅝ in	½ in	TB Woods	3V691	**6UDR2**
8 in	8 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V801	**6UDR3**
10.6 in	10.6 in	SDS	Arm	1 15/16 in	½ in	TB Woods	3V1061	**6YRF3**
14 in	14 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1401	**6YRF4**
19 in	19 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1901	**6YRF6**
2 Groove								
2.65 in	2.65 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V2652	**5YKR5**
3 in	3 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V302	**5YKT0**
3.15 in	3.15 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V3152	**5YKT2**
3.35 in	3.35 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3.352	**5YKR7**
3.65 in	3.65 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3652	**5YKT3**
4.12 in	4.12 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4122	**5YKT6**
4.5 in	4.5 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V452	**5YKT9**
4.75 in	4.75 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4752	**5YKU2**
5 in	5 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V502	**5YKU4**
5.3 in	5.3 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V532	**5YKU9**
5.6 in	5.6 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V562	**5YKV2**
6 in	6 in	SH	Web	1 ⅝ in	½ in	TB Woods	3V602	**5YKV5**
6.5 in	6.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V652	**5YKV9**
6.9 in	6.9 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V692	**5YKW2**
8 in	8 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V802	**5YKW4**
10.6 in	10.6 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1062	**5YKP7**
14 in	14 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1402	**5YKR0**
19 in	19 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1902	**5YKR2**
25 in	25 in	SF	Arm	2 15/16 in	½ in	TB Woods	3V2502	**6UDN8**
3 Groove								
2.65 in	2.65 in	JA	Solid	1 ¼ in	½ in	TB Woods	3V2653	**6UDN9**
3 in	3 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V303	**6UDP1**
3.15 in	3.15 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3153	**6UDP3**
3.35 in	3.35 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3.353	**5YKR8**
3.65 in	3.65 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3653	**5YKT4**
4.12 in	4.12 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4123	**5YKT7**
4.5 in	4.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V453	**5YKU0**
4.75 in	4.75 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V4753	**5YKU3**
5 in	5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V503	**5YKU5**
5.3 in	5.3 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V533	**5YKV0**
5.6 in	5.6 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V563	**5YKV3**
6 in	6 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V603	**5YKV6**
6 in	6 in	SDS	Solid	1 15/16 in	½ in	Gates	QD3/3V6.00	**1NGV4**
6.5 in	6.5 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V653	**5YKW0**
6.9 in	6.9 in	SDS	Web	1 15/16 in	½ in	TB Woods	3V693	**5YKW3**
8 in	8 in	SK	Web	2 ½ in	½ in	TB Woods	3V803	**5YKW5**
10.6 in	10.6 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1063	**5YKP8**
14 in	14 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1403	**6YRF5**
4 Groove								
3 in	3 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V304	**5YKT1**
3.35 in	3.35 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3.354	**5YKR9**
3.65 in	3.65 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V3654	**5YKT5**
4.12 in	4.12 in	SH	Solid	1 ⅝ in	½ in	TB Woods	3V4124	**5YKT8**
4.5 in	4.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V454	**5YKU1**
5 in	5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V504	**5YKU6**
5.3 in	5.3 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V534	**5YKV1**
5.6 in	5.6 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V564	**5YKV4**
6 in	6 in	SK	Solid	2 ½ in	½ in	TB Woods	3V604	**5YKV7**
6.5 in	6.5 in	SK	Solid	2 ½ in	½ in	TB Woods	3V654	**5YKW1**
8 in	8 in	SK	Web	2 ½ in	½ in	TB Woods	3V804	**5YKW6**
10.6 in	10.6 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1064	**5YKP9**
14 in	14 in	SK	Arm	2 ½ in	½ in	TB Woods	3V1404	**5YKR1**
19 in	19 in	SF	Arm	2 15/16 in	½ in	TB Woods	3V1904	**5YKR3**
5 Groove								
5 in	5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	3V505	**5YKU7**
6 in	6 in	SK	Solid	2 ½ in	½ in	TB Woods	3V605	**5YKV8**
6.9 in	6.9 in	SK	Solid	2 ½ in	½ in	Gates	QD5/3V6.90	**1NHC7**
For 5V, 5VX V-Belt Section								
2 Groove								
4.4 in	4.4 in	SH	Solid	1 ⅝ in	½ in	TB Woods	5V442	**10Y277**
4.65 in	4.65 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V4652	**10Y280**
4.9 in	4.9 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V492	**5YLA9**
5.2 in	5.2 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V522	**10Y285**
5.5 in	5.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V552	**5YLC0**
5.9 in	5.9 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V592	**10Y289**
6.3 in	6.3 in	SK	Solid	2 ½ in	½ in	TB Woods	5V632	**5YLC3**
6.7 in	6.7 in	SK	Solid	2 ½ in	½ in	TB Woods	5V672	**5YLC6**
7.1 in	7.1 in	SK	Solid	2 ½ in	½ in	TB Woods	5V712	**5YLC8**
7.5 in	7.5 in	SK	Solid	2 ½ in	½ in	TB Woods	5V752	**5YLD3**
8 in	8 in	SK	Solid	2 ½ in	½ in	Gates	QD2/5V8.00	**1NGU4**
8 in	8 in	SK	Solid	2 ½ in	½ in	TB Woods	5V802	**5YLD7**
8.5 in	8.5 in	SK	Web	2 ½ in	½ in	TB Woods	5V852	**5YLE2**
9 in	9 in	SK	Web	2 ½ in	½ in	TB Woods	5V902	**5YLE6**
9.25 in	9.25 in	SK	Web	2 ½ in	½ in	TB Woods	5V9252	**5YLF0**
9.25 in	9.25 in	SK	Solid	2 ½ in	½ in	Gates	QD2/5V9.25	**1NGU7**
9.75 in	9.75 in	SK	Arm	2 ½ in	½ in	TB Woods	5V9752	**5YLF3**
10.3 in	10.3 in	SK	Arm	2 ½ in	½ in	TB Woods	5V1032	**5YKW7**
10.9 in	10.9 in	SK	Arm	2 ½ in	½ in	TB Woods	5V1092	**5YKX1**
11.3 in	11.3 in	SK	Arm	2 ½ in	½ in	TB Woods	5V1132	**5YKX6**
11.8 in	11.8 in	SK	Arm	2 ½ in	½ in	TB Woods	5V1182	**5YKY0**
12.5 in	12.5 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1252	**10Y273**
13.2 in	13.2 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1322	**5YKY7**
14 in	14 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1402	**5YKZ2**
15 in	15 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1502	**39P331**
16 in	16 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1602	**10Y274**
18.7 in	18.7 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1872	**10Y275**
3 Groove								
4.4 in	4.4 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V443	**10Y278**
4.65 in	4.65 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V4653	**10Y281**
4.9 in	4.9 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V493	**10Y283**
5.2 in	5.2 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V523	**10Y286**
5.5 in	5.5 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V553	**5YLC1**
5.9 in	5.9 in	SDS	Solid	1 15/16 in	½ in	TB Woods	5V593	**5YLC2**
6.3 in	6.3 in	SK	Solid	2 ½ in	½ in	TB Woods	5V633	**5YLC4**
6.7 in	6.7 in	SK	Solid	2 ½ in	½ in	TB Woods	5V673	**5YLC7**
7.1 in	7.1 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V713	**5YLC9**
7.5 in	7.5 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V753	**5YLD4**
8 in	8 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V803	**5YLD8**
8.5 in	8.5 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V853	**5YLE3**
9 in	9 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V903	**5YLE7**
9.25 in	9.25 in	SF	Web	2 15/16 in	½ in	TB Woods	5V9253	**5YLF1**
9.75 in	9.75 in	SF	Web	2 15/16 in	½ in	TB Woods	5V9753	**5YLF4**
10.3 in	10.3 in	SF	Web	2 15/16 in	½ in	TB Woods	5V1033	**5YKW8**
10.9 in	10.9 in	SF	Web	2 15/16 in	½ in	TB Woods	5V1093	**5YKX2**
10.9 in	10.9 in	SF	Web	2 15/16 in	½ in	Gates	QD3/5V10.90	**1NGV9**
11.3 in	11.3 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1133	**5YKX7**
11.3 in	11.3 in	SF	Web	2 15/16 in	½ in	Gates	QD3/5V11.30	**1NGW1**
11.8 in	11.8 in	SF	Arm	2 15/16 in	½ in	TB Woods	5V1183	**5YKY1**
12.5 in	12.5 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1253	**5YKY4**
12.5 in	12.5 in	E	Web	3 ½ in	⅞ in	Gates	QD3/5V12.50	**1NGW3**
13.2 in	13.2 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1323	**5YKY8**
14 in	14 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1403	**5YKZ3**
15 in	15 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1503	**39P332**
16 in	16 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1603	**5YKZ6**
18.7 in	18.7 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1873	**5YLA0**
21.2 in	21.2 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V2123	**5YLA1**
28 in	28 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V2803	**5YLA5**
4 Groove								
4.4 in	4.4 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V444	**10Y279**
4.65 in	4.65 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V4654	**10Y282**
4.9 in	4.9 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V494	**10Y284**
5.2 in	5.2 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V524	**10Y287**
5.5 in	5.5 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V554	**10Y288**
5.9 in	5.9 in	SD	Solid	1 15/16 in	½ in	TB Woods	5V594	**10Y290**
6.3 in	6.3 in	SK	Solid	2 ½ in	½ in	TB Woods	5V634	**5YLC5**
6.7 in	6.7 in	SK	Solid	2 ½ in	½ in	TB Woods	5V674	**10Y291**
7.1 in	7.1 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V714	**5YLD0**
7.5 in	7.5 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V754	**5YLD5**
8 in	8 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V804	**5YLD9**
8.5 in	8.5 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V854	**5YLE4**
9 in	9 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V904	**5YLE8**
9.25 in	9.25 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V9254	**5YLF2**
9.75 in	9.75 in	E	Web	3 ½ in	⅞ in	TB Woods	5V9754	**5YLF5**
10.3 in	10.3 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1034	**5YKW9**
10.9 in	10.9 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1094	**5YKX3**
10.9 in	10.9 in	E	Solid	3 ½ in	⅞ in	Gates	QD4/5V10.90	**1NGZ5**
11.3 in	11.3 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1134	**5YKX8**
11.8 in	11.8 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1184	**5YKY2**
12.5 in	12.5 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1254	**5YKY5**
13.2 in	13.2 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1324	**5YKY9**
14 in	14 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1404	**5YKZ4**
15 in	15 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1504	**39P333**
16 in	16 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1604	**5YKZ7**
18.7 in	18.7 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1874	**10Y276**
21.2 in	21.2 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V2124	**5YLA2**
23.6 in	23.6 in	F	Arm	3 15/16 in	1 in	TB Woods	5V2364	**5YLA3**
28 in	28 in	F	Arm	3 15/16 in	1 in	TB Woods	5V2804	**5YLA6**
31.5 in	31.5 in	F	Arm	3 15/16 in	1 in	TB Woods	5V3154	**5YLA8**
5 Groove								
7.1 in	7.1 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V715	**5YLD1**
7.5 in	7.5 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V755	**5YLD6**
9 in	9 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V905	**5YLE9**
9.75 in	9.75 in	E	Solid	3 ½ in	⅞ in	Gates	QD5/5V9.75	**1NHF1**
9.75 in	9.75 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V9755	**5YLF6**
10.3 in	10.3 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1035	**5YKX0**
11.8 in	11.8 in	E	Web	3 ½ in	⅞ in	Gates	QD5/5V11.80	**1NHD3**
16 in	16 in	E	Arm	3 ½ in	⅞ in	TB Woods	5V1605	**5YKZ8**
18.7 in	18.7 in	F	Arm	3 15/16 in	1 in	Gates	QD5/5V18.70	**1NHD9**
21.2 in	21.2 in	F	Arm	3 15/16 in	1 in	Gates	QD5/5V21.20	**1NHE1**
23.6 in	23.6 in	F	Arm	3 15/16 in	1 in	TB Woods	5V2365	**5YLA4**
6 Groove								
7.1 in	7.1 in	SF	Solid	2 15/16 in	½ in	TB Woods	5V716	**5YLD2**
8 in	8 in	E	Solid	3 ½ in	⅞ in	TB Woods	5V806	**5YLE1**
10.9 in	10.9 in	E	Web	3 ½ in	⅞ in	TB Woods	5V1096	**5YKX5**
13.2 in	13.2 in	F	Web	3 15/16 in	1 in	TB Woods	5V1326	**5YKZ1**

Standard Timing Belt Pulleys

PowerDrive

Each timing belt pulley must match a timing belt of the same series, top width, and pitch.

H Series and L Series—Require a bushing to mount to the drive shaft and adapt the bore, or center hole, to the shaft size. They have trapezoidal tooth-shaped grooves that deliver low to moderate amounts of torque.

XL Series—These plain-bore timing belt pulleys have a starting bore, or center hole, that can be machined to the correct size of the shaft. Included setscrews can be machined to fit the needs of the shaft and application. Pulleys have trapezoidal tooth-shaped grooves that deliver low to moderate amounts of torque.

No. of Teeth	Pitch	Pitch Dia.	Outside Dia.	Max. Bore Dia.	Min. Bore Dia.	Req. Bushing Series	Material	Item No.
H Series Bushed-Bore Timing Belt Pulleys								
For 1 in Belt Width								
14	½ in	2.228 in	2.438 in	1 in	⅜ in	G	Steel	**6GEK1**
16	½ in	2.546 in	2.492 in	1 in	⅜ in	G	Steel	**6GEK2**
18	½ in	2.856 in	2.811 in	1 ½ in	⅜ in	H	Steel	**6GEK3**
20	½ in	3.183 in	3.129 in	1 ½ in	⅜ in	H	Steel	**6GEK4**
22	½ in	3.501 in	3.813 in	1 ½ in	⅜ in	H	Steel	**6GEK5**
22	½ in	3.501 in	3.813 in	1 ¾ in	½ in	P1	Steel	**6GEK6**
24	½ in	3.82 in	4.063 in	1 ½ in	⅜ in	H	Steel	**6GEK7**
26	½ in	4.138 in	4.084 in	1 ½ in	⅜ in	H	Steel	**6GEK9**
30	½ in	4.775 in	5 in	1 ½ in	⅜ in	H	Steel	**6GEL1**
32	½ in	5.093 in	5.313 in	2 11/16 in	¾ in	Q1	Steel	**6GEL3**
40	½ in	6.366 in	6.563 in	2 11/16 in	¾ in	Q1	Steel	**6GEL5**
44	½ in	7.003 in	6.949 in	2 11/16 in	¾ in	Q1	Steel	**6GEL6**
48	½ in	7.639 in	7.585 in	2 11/16 in	¾ in	Q1	Steel	**6GEL7**
72	½ in	11.459 in	11.405 in	2 11/16 in	¾ in	Q1	Steel	**6GEL9**
L Series Bushed-Bore Timing Belt Pulleys								
18	⅜ in	2.149 in	2.438 in	1 in	⅜ in	G	Steel	**6GEH5**
19	⅜ in	2.268 in	2.238 in	1 in	⅜ in	G	Steel	**6GEH6**
20	⅜ in	2.387 in	2.357 in	1 in	⅜ in	G	Steel	**6GEH7**
22	⅜ in	2.626 in	2.596 in	1 in	⅜ in	G	Steel	**6GEH9**
24	⅜ in	2.865 in	2.835 in	1 ½ in	⅜ in	H	Steel	**6GEJ0**
26	⅜ in	3.104 in	3.074 in	1 ½ in	⅜ in	H	Steel	**6GEJ1**
28	⅜ in	3.342 in	3.312 in	1 ½ in	⅜ in	H	Steel	**6GEJ2**
30	⅜ in	3.581 in	3.813 in	1 ½ in	⅜ in	H	Steel	**6GEJ3**
32	⅜ in	3.82 in	4.063 in	1 ½ in	⅜ in	H	Steel	**6GEJ4**
36	⅜ in	4.297 in	4.688 in	1 ½ in	⅜ in	H	Steel	**6GEJ5**
40	⅜ in	4.775 in	4.745 in	1 ½ in	⅜ in	H	Steel	**6GEJ7**
44	⅜ in	5.252 in	5.222 in	1 ½ in	⅜ in	H	Steel	**6GEJ8**
48	⅜ in	5.73 in	6 in	1 ½ in	⅜ in	H	Steel	**6GEJ9**
60	⅜ in	7.162 in	7.132 in	1 ½ in	⅜ in	H	Steel	**6GEK0**

No. of Teeth	Pitch	Pitch Dia.	Outside Dia.	Max. Bore Dia.	Min. Bore Dia.	Req. Bushing Series	Material	Item No.
For ½ in Belt Width								
18	⅜ in	2.149 in	2.438 in	1 in	⅜ in	G	Steel	**6FFV4**
19	⅜ in	2.268 in	2.238 in	1 in	⅜ in	G	Steel	**6FFV5**
21	⅜ in	2.507 in	2.477 in	1 in	⅜ in	G	Steel	**6FFV7**
24	⅜ in	2.865 in	2.835 in	1 ½ in	⅜ in	H	Steel	**6FFV9**
28	⅜ in	3.342 in	3.312 in	1 ½ in	⅜ in	H	Steel	**6GEG7**
30	⅜ in	3.581 in	3.813 in	1 ½ in	⅜ in	H	Steel	**6GEG8**
32	⅜ in	3.82 in	4.063 in	1 ½ in	⅜ in	H	Steel	**6GEG9**
36	⅜ in	4.297 in	4.688 in	1 ½ in	⅜ in	H	Steel	**6GEH0**
40	⅜ in	4.775 in	4.745 in	1 ½ in	⅜ in	H	Steel	**6GEH1**
44	⅜ in	5.252 in	5.222 in	1 ½ in	⅜ in	H	Steel	**6GEH2**

No. of Teeth	Pitch	Pitch Dia.	Outside Dia.	Max. Bore Dia.	Material	Item No.
XL Series Plain-Bore Timing Belt Pulleys						
For ¼ in, ⅜ in Belt Width						
48	13/64 in	3.056 in	3.036 in	1 in	Aluminum	**6FFV1**
For ⅜ in Belt Width						
10	13/64 in	0.637 in	0.875 in	¼ in	Aluminum	**6FFR3**
14	13/64 in	0.891 in	1.094 in	⅜ in	Aluminum	**6FFR6**
15	13/64 in	0.955 in	1.188 in	⅜ in	Aluminum	**6FFR7**
16	13/64 in	1.019 in	1.25 in	7/16 in	Aluminum	**6FFR8**
18	13/64 in	1.146 in	1.375 in	½ in	Aluminum	**6FFR9**
20	13/64 in	1.273 in	1.5 in	9/16 in	Aluminum	**6FFT0**
22	13/64 in	1.401 in	1.625 in	⅝ in	Aluminum	**6FFT2**
24	13/64 in	1.528 in	1.75 in	⅝ in	Aluminum	**6FFT3**
28	13/64 in	1.783 in	2 in	¾ in	Aluminum	**6FFT4**
30	13/64 in	1.91 in	2.125 in	13/16 in	Aluminum	**6FFT5**
44	13/64 in	2.801 in	2.781 in	15/16 in	Aluminum	**6FFV0**
60	13/64 in	3.82 in	3.813 in	15/16 in	Aluminum	**6FFV2**
72	13/64 in	4.584 in	4.563 in	15/16 in	Aluminum	**6FFV3**

H Series Bushed-Bore 6GEK3

Metric Timing Belt Pulleys

Continental ContiTech

Pulleys must be matched with a compatible timing belt series, pitch, and width.

Bushed-Bore—Require a bushing to mount to the drive shaft and adapt the bore, or center hole, to the shaft size. Falcon HTC and Falcon Pd Series are for more demanding drive systems such as in heavy conveying equipment. Hawk Pd Series are for high capacity use; SilentSync Series for low noise and low vibration applications such as robotics.

Plain-Bore—Have a starting bore, or center hole, that can be machined to the size of the shaft. Keyways and/or set screws can be machined to fit the needs of the shaft and application. SilentSync Series are for low noise and low vibration applications such as robotics.

No. of Teeth	Pitch	Pitch Dia.	Outside Dia.	Max. Bore Dia.	Req. Bushing Series	Material	Item No.
Falcon HTC Series Bushed-Bore Timing Belt Pulleys							
For 20 mm Belt Width							
30	14 mm	133.7 mm	130.9 mm	2 in	2012	Cast Iron	**3PDW1**
40	14 mm	178.3 mm	175.5 mm	2 ½ in	2517	Cast Iron	**3PDX8**
For 21 mm Belt Width							
22	8 mm	56.023 mm	54.42 mm	1 in	1008	Cast Iron	**3PDV4**
For 36 mm Belt Width							
140	8 mm	356.5 mm	355.1 mm	3 in	3020	Cast Iron	**3PDV2**
For 37 mm Belt Width							
28	14 mm	124.8 mm	122 mm	2 in	2012	Cast Iron	**3PDV7**
50	14 mm	222.8 mm	220 mm	3 in	3020	Cast Iron	**3PDZ1**
60	14 mm	267.4 mm	264.6 mm	3 in	3020	Cast Iron	**3PDZ8**
For 62 mm Belt Width							
50	8 mm	127.324 mm	125.7 mm	2 ½ in	2517	Cast Iron	**3PDZ3**
For 68 mm Belt Width							
40	14 mm	178.3 mm	175.5 mm	3 in	3020	Cast Iron	**3PDY1**
56	14 mm	249.6 mm	246.8 mm	3 ½ in	3535	Cast Iron	**3PDZ5**
Falcon Pd Series Bushed-Bore Timing Belt Pulleys							
For 12 mm Belt Width							
22	8 mm	56.023 mm	54.42 mm	1 in	1008	Cast Iron	**2UWF4**
25	8 mm	63.662 mm	62.06 mm	1 3/32 in	1108	Cast Iron	**2UWF5**
34	8 mm	86.581 mm	84.98 mm	1 19/32 in	1610	Steel	**2UWH2**
38	8 mm	96.767 mm	95.17 mm	1 19/32 in	1610	Steel	**2UWJ1**
45	8 mm	114.592 mm	112.99 mm	2 in	2012	Cast Iron	**2UWJ9**
50	8 mm	127.324 mm	125.7 mm	2 in	2012	Cast Iron	**2UWK6**
56	8 mm	142.603 mm	141 mm	2 in	2012	Cast Iron	**2UWL1**
60	8 mm	152.789 mm	151.19 mm	2 in	2012	Cast Iron	**2UWL4**
For 21 mm Belt Width							
25	8 mm	63.662 mm	62.06 mm	1 3/32 in	1108	Cast Iron	**2UWF6**
26	8 mm	66.209 mm	64.61 mm	1 3/32 in	1108	Cast Iron	**2UWF8**
28	8 mm	71.302 mm	69.7 mm	1 3/32 in	1108	Cast Iron	**2UWG2**
30	8 mm	76.395 mm	74.79 mm	1 19/32 in	1610	Steel	**2UWG4**
32	8 mm	81.488 mm	79.89 mm	1 19/32 in	1610	Steel	**2UWG8**
34	8 mm	86.581 mm	84.98 mm	1 19/32 in	1610	Steel	**2UWH3**
38	8 mm	96.767 mm	95.17 mm	1 19/32 in	1610	Cast Iron	**2UWJ2**
40	8 mm	101.86 mm	100.26 mm	1 19/32 in	1610	Cast Iron	**2UWJ5**
50	8 mm	127.324 mm	125.7 mm	2 in	2012	Cast Iron	**2UWK7**
55	8 mm	134.964 mm	133.59 mm	2 in	2012	Cast Iron	**2UWK9**
56	8 mm	142.603 mm	141 mm	2 in	2012	Cast Iron	**2UWL2**
60	8 mm	152.789 mm	151.19 mm	12 45/64 in	2517	Cast Iron	**2UWL5**
75	8 mm	190.986 mm	189.39 mm	12 45/64 in	2517	Cast Iron	**2UWL9**
80	8 mm	203.719 mm	202.12 mm	3 in	3020	Cast Iron	**2UWN3**
For 36 mm Belt Width							
32	8 mm	81.488 mm	79.89 mm	1 19/32 in	1615	Steel	**2UWG9**
40	8 mm	101.86 mm	100.26 mm	2 in	2012	Steel	**2UWJ6**
45	8 mm	114.592 mm	112.99 mm	2 in	2012	Cast Iron	**2UWK2**
56	8 mm	142.603 mm	141 mm	12 45/64 in	2517	Cast Iron	**2UWL3**
60	8 mm	152.789 mm	151.19 mm	12 45/64 in	2517	Cast Iron	**2UWL6**
75	8 mm	190.986 mm	189.39 mm	22 mm	3020	Cast Iron	**2UWN1**

No. of Teeth	Pitch	Pitch Dia.	Outside Dia.	Max. Bore Dia.	Req. Bushing Series	Material	Item No.
Hawk Pd Series Bushed-Bore Timing Belt Pulleys							
For 20 mm Belt Width							
24	8 mm	61.12 mm	59.74 mm	—	JA	Cast Iron	**3PEC1**
30	8 mm	76.39 mm	75.13 mm	—	H, QT	Cast Iron	**3PEC3**
34	8 mm	86.58 mm	85.22 mm	—	SH	Cast Iron	**3PEC4**
56	8 mm	142.6 mm	141.22 mm	—	SDS	Cast Iron	**3PEC8**
72	8 mm	183.35 mm	181.97 mm	—	SDS	Cast Iron	**3PEC9**
For 30 mm Belt Width							
30	8 mm	76.39 mm	75.13 mm	12.7 mm	H, QT	Cast Iron	**2UWN5**
36	8 mm	91.67 mm	90.3 mm	12.7 mm	SH	Cast Iron	**2UWN8**
38	8 mm	96.774 mm	95.4 mm	12.7 mm	SH	Cast Iron	**2UWN9**
40	8 mm	101.86 mm	100.48 mm	12.7 mm	SH	Cast Iron	**2UWP1**
44	8 mm	112.04 mm	110.67 mm	12.7 mm	SDS	Cast Iron	**2UWP2**
48	8 mm	122.23 mm	120.85 mm	—	SDS	Cast Iron	**3PED2**
56	8 mm	142.6 mm	141.22 mm	12.7 mm	SDS	Cast Iron	**2UWP3**
72	8 mm	183.35 mm	181.97 mm	12.7 mm	SK	Cast Iron	**2UWP5**
80	8 mm	203.708 mm	202.34 mm	12.7 mm	SK	Cast Iron	**2UWP6**
For 40 mm Belt Width							
40	14 mm	178.25 mm	175.46 mm	—	SF	Cast Iron	**3RAV7**
For 50 mm Belt Width							
34	8 mm	86.58 mm	85.22 mm	—	SH	Cast Iron	**3PED4**
48	8 mm	122.23 mm	120.85 mm	—	SD	Cast Iron	**3PED7**
56	8 mm	142.6 mm	141.22 mm	—	SK	Cast Iron	**3PED8**
64	8 mm	162.967 mm	161.59 mm	—	SK	Cast Iron	**3PED9**
72	8 mm	183.35 mm	181.97 mm	—	SK	Cast Iron	**3PEF1**

No. of Teeth	Pitch	Pitch Dia.	Outside Dia.	Req. Bushing Series	Material	Item No.
SilentSync Series Bushed-Bore Timing Belt Pulleys						
For 32 mm Belt Width						
32	8 mm	81.49 mm	80.12 mm	H	Steel	**45PN34**
38	8 mm	96.77 mm	95.4 mm	SH	Steel	**45PN40**
75	8 mm	190.99 mm	189.62 mm	SF	Cast Iron	**45PN56**
For 35 mm Belt Width						
56	14 mm	249.56 mm	246.77 mm	E	Cast Iron	**45PN98**
For 70 mm Belt Width						
45	14 mm	200.54 mm	197.75 mm	E	Steel	**45PR04**
SilentSync Series Plain-Bore Timing Belt Pulleys						
For 16 mm Belt Width						
34	8 mm	86.58 mm	85.21 mm	—	Steel	**45PM69**
60	8 mm	152.79 mm	151.42 mm	—	Steel	**45PM87**
For 32 mm Belt Width						
20	8 mm	50.93 mm	49.56 mm	—	Steel	**45PN11**
24	8 mm	61.12 mm	59.75 mm	—	Steel	**45PN17**
30	8 mm	76.4 mm	75.03 mm	—	Steel	**45PN33**
60	8 mm	152.79 mm	151.42 mm	—	Steel	**45PN54**
For 52.5 mm Belt Width						
40	14 mm	178.26 mm	175.46 mm	—	Steel	**45PP40**
For 70 mm Belt Width						
30	14 mm	133.69 mm	130.9 mm	—	Steel	**45PP73**

Falcon Pd Series Bushed-Bore 2UWF4

Timing Belts Available

See pages 103 and 104 or search "timing belts" on Grainger.com for an even broader offering.

Scan. Order. Done.
Details on page A1.

QT Series

F Series

TB Wood's Incorporated

Quick-Detachable Bushings

Split through flange and taper to provide a true clamp. All series except for JA and QT have a setscrew over the key to help maintain the bushing's position until the screws are tightened. For use with sheaves, sprockets, and pulleys. Taper: ¾" per ft.

Bushing Series/ Bore Dia.	Item No.
QT	
½ in	5UHZ6
⅝ in	5UJA4
¾ in	5UJA2
⅞ in	5UJA5
15/16 in	5UHZ9
1 in	5UHZ2
1 ⅛ in	5UHZ5
1 3/16 in	5UHZ7
1 ¼ in	5UHZ4
1 ⅜ in	5UHZ8
1 7/16 in	5UJA0
1 ½ in	5UHZ3
14 mm	41D905
19 mm	41D906
24 mm	5UJA1
JA	
9/16 in	5YLG6
⅝ in	5YLG4
¾ in	5YLG3
⅞ in	5YLG5
1 in	5YLF7
1 ⅛ in	5YLF9
1 3/16 in	5YLG0
1 ¼ in	5YLF8
20 mm	5YLG1
24 mm	41D910
25 mm	5YLG2
SH	
½ in	41D896
⅝ in	10Y307
¾ in	5YLK9
⅞ in	5YLL0
1 in	5YLK1
1 ⅛ in	5YLK4
1 ¼ in	5YLK3
1 ⅜ in	5YLK5
1 7/16 in	5YLK7
1 ½ in	5YLK2
1 5/8 in	5YLK6
24 mm	5YLK8
28 mm	41D912

Bushing Series/ Bore Dia.	Item No.
SDS	
½ in	41D885
⅝ in	10Y305
¾ in	5YLH8
⅞ in	10Y306
15/16 in	41D887
1 in	5YLH1
1 ⅛ in	5YLH4
1 3/16 in	41D886
1 ¼ in	5YLH3
1 ⅜ in	5YLH5
1 7/16 in	5YLH7
1 ½ in	5YLH2
1 ⅝ in	5YLH6
1 11/16 in	10Y302
1 ⅞ in	10Y304
1 15/16 in	10Y303
24 mm	41D913
28 mm	41D914
42 mm	41D916
SD	
⅝ in	41D883
⅞ in	41D884
1 in	41D875
1 ⅛ in	41D879
1 3/16 in	10Y301
1 ¼ in	41D878
1 ⅜ in	5YLG7
1 7/16 in	5YLG9
1 ½ in	41D877
1 ⅝ in	5YLG8
1 11/16 in	10Y298
1 ⅞ in	5YLH0
1 15/16 in	10Y299
SK	
¾ in	41D903
⅞ in	41D904
15/16 in	41D899
1 in	10Y308
1 ⅛ in	41D898
1 3/16 in	10Y309
1 ¼ in	5YLL3
1 3/16 in	10Y310
1 ⅜ in	5YLL6
1 7/16 in	5YLL8
1 ½ in	5YLL2
1 9/16 in	41D901
1 ⅝ in	5YLL7
1 11/16 in	5YLL1
1 ¾ in	5YLL5
1 ⅞ in	5YLL9
1 15/16 in	5YLL4
2 in	41D902
2 ⅛ in	5YLN0
2 3/16 in	5YLN1
2 7/16 in	5YLN2
2 ½ in	20LU82
24 mm	41D921
42 mm	41D924
55 mm	41D926

Bushing Series/ Bore Dia.	Item No.
SF	
15/16 in	41D892
1 in	41D888
1 ⅛ in	41D890
1 3/16 in	41D891
1 ¼ in	41D889
1 ⅜ in	5YLJ3
1 7/16 in	38H450
1 ½ in	5YLJ0
1 9/16 in	41D894
1 ⅝ in	41D893
1 11/16 in	5YLH9
1 ¾ in	5YLJ2
1 ⅞ in	5YLJ4
1 15/16 in	5YLJ1
2 in	5YLJ5
2 ⅛ in	5YLJ6
2 3/16 in	5YLJ7
2 ¼ in	41D895
2 ⅜ in	5YLJ8
2 7/16 in	5YLJ9
2 ⅞ in	5YLK0
55 mm	41D931
E	
1 ⅝ in	5YLN6
1 11/16 in	5YLN3
1 ¾ in	5YLN5
1 ⅞ in	5YLN7
1 15/16 in	5YLN4
2 in	5YLN8
2 ⅛ in	5YLP3
2 3/16 in	5YLP4
2 ¼ in	5YLP1
2 ⅜ in	5YLP6
2 7/16 in	5YLP7
2 ½ in	5YLP0
2 11/16 in	5YLN9
2 ¾ in	5YLP5
2 ⅞ in	5YLP8
2 15/16 in	5YLP2
3 ⅜ in	5YLP9
3 7/16 in	5YLR0
F	
1 ¼ in	41D860
1 ⅜ in	41D863
1 ⅞ in	41D866
2 ⅛ in	5YLR7
2 ⅜ in	5YLT0
2 7/16 in	5YLT2
2 ⅝ in	5YLT1
2 11/16 in	5YLR3
2 ⅞ in	5YLT3
2 15/16 in	5YLR6
3 in	5YLT4
3 ¼ in	5YLT6
3 ⅜ in	5YLT8
3 7/16 in	5YLT9
3 15/16 in	5YLT7
60 mm	5YLU0

1008 Series

Gates TRITAN

Taper-Lock Bushings

Non-flanged to take up less space and allow mounting close to bearings. Bushings are split and are tapered for a secure fit on the shaft. For use with sheaves, sprockets, pulleys, gearbelt pulleys, and chain couplings. Include cap screws.

Bushing Series/ Bore Dia.	Gates Item No.	Tritan Item No.
1008		
¾ in	1NHW9	45PX03
1 in	—	45PW97
1108		
¾ in	1NHX8	—
⅞ in	1NHY1	—
1 in	—	45PX09
1 ⅛ in	—	45PX08
1210		
⅝ in	1NHZ4	—
⅞ in	1NHZ5	—
1 in	1NHY3	—
1 ⅛ in	1NHY6	—
1 ¼ in	1NHY5	—
1610		
⅝ in	1NJB6	45PX60
¾ in	1NJB5	45PX59
⅞ in	1NJB7	45PX61
1 in	1NHZ7	45PX54
1 ⅛ in	1NJA2	45PX47
1 ¼ in	1NJA1	45PX46
1 ⅜ in	1NJA5	—
1 7/16 in	1NJA8	—
1 ½ in	1NHZ9	45PX45
1 ⅝ in	1NJA7	—
1615		
1 ½ in	6FLZ0	—
2012		
1 in	1NJB9	45PX96
1 ⅛ in	1NJC4	45PX85
1 ¼ in	1NJC3	45PX84
1 ⅜ in	1NJD1	45PX91
1 7/16 in	1NJD4	45PX94
1 ½ in	1NJC2	45PX83
1 ¾ in	1NJC9	45PX90
1 ⅞ in	1NJD5	—
1 15/16 in	1NJC7	45PX88
2 in	1NJD7	45PY02
2517		
1 in	1NJE7	45PY22
1 ¼ in	1NJF1	45PY09
1 ⅜ in	1NJF8	45PY16
1 7/16 in	1NJG2	45PY19
1 ½ in	1NJE9	45PY08
1 ⅝ in	1NJG1	45PY18
1 11/16 in	1NJF3	—
1 ¾ in	—	45PY15
1 ⅞ in	1NJG3	45PY20
1 15/16 in	1NJF5	45PY13
2 in	1NJG5	45PY35
2 ⅛ in	1NJG9	45PY30
2 ¼ in	1NJG8	45PY29
2 7/16 in	1NJH4	45PY34
3020		
1 ½ in	1NJJ1	—
1 ⅞ in	1NJK4	—
2 in	1NJK6	45PZ01
2 ¼ in	1NJK9	45PY87
2 7/16 in	1NJN1	—
3030		
2 ¾ in	—	45PZ28

Fenner Drives CLIMAX Metal Products Company

Single-Nut Locking Assembly Keyless Bushings

The single-nut locking assembly on one end locks the bushing to the shaft and eases installation/removal. Can be used with timing pulleys, roller chain sprockets, and fan hubs.

For Shaft Dia. (in)	For Bore (Outside) Dia. (in)	Overall Width (in)	Maximum Transmitted Torque (ft-lb)	Material & Finish	Brand*	Mfr. Model	Item No.
¼ in	⅝ in	0.75 in	125	Oil Dipped Steel	Fenner Drives	6410025	13J116
⅜ in	¾ in	0.875 in	421	Oil Dipped Steel	Fenner Drives	6410038	13J118
½ in	⅞ in	1 in	737	Oil Dipped Steel	Fenner Drives	6410050	13J120
⅝ in	1 in	1.125 in	38	Corrosion-Resistant Steel	Fenner Drives	6202115	6VPF2
⅝ in	1 in	1.125 in	1,184	Oil Dipped Steel	Fenner Drives	6410063	13J122
⅝ in	1½ in	1.5 in	169	Zinc Plated Steel	Climax Metal	C801E-062	457K85
¾ in	1½ in	1.5 in	208	Oil Dipped Steel	Fenner Drives	6202160UP	13J124
1 in	1¾ in	1.875 in	292	Oil Dipped Steel	Fenner Drives	6202240UP	13J128
1⅛ in	2 in	2.25 in	383	Oil Dipped Steel	Fenner Drives	6202280UP	13J130
1¼ in	2 in	2.25 in	500	Oil Dipped Steel	Fenner Drives	6202320UP	13J132
1½ in	2⅜ in	2.75 in	583	Oil Dipped Steel	Fenner Drives	6202400UP	13J136
1¾ in	2⅝ in	3.125 in	833	Oil Dipped Steel	Fenner Drives	6202480UP	13J140
2 in	2⅞ in	3.563 in	1,065	Zinc Plated Steel	Climax Metal	C801E-200	457L08
3 in	3⅞ in	4.25 in	1,550	Zinc Plated Steel	Climax Metal	C801E-300	457L24

**Climax Metal = Climax Metal Products.*

44A240

CLIMAX Metal Products Company TSUBAKI Fenner Drives

Multi-Screw Locking Assembly Keyless Bushings

Bushings are tightened down to the shaft for a strong grip on the shaft for high torque and heavy shock loads. For use with gears, pulleys, rollers, and timing cams.

For Shaft Dia.	For Bore Outside Dia.	Overall Width	Max. Trans Torque (ft-lb)	Screw Thread Size	Material & Finish	Brand†	Item No.
For Inch Shaft Size							
¾ in	1½ in	1.22 in	2,053	M6 x 20	Zinc Plated Steel	Climax	38G661 *
1 in	1 31/32 in	0.787 in	318	M6 x 18	Carbon Steel	Tsubaki	1DYG6
1 in	1 31/32 in	0.787 in	352	M6 x 18	Oil Dipped Steel	Fenner	44A240
1 in	1 31/32 in	1.122 in	300	M6 x 20		Fenner	44A288 *
1 3/16 in	2 5/32 in	0.819 in	376	M6 x 18	Carbon Steel	Tsubaki	1DYH1
1¼ in	2 23/64 in	0.787 in	586	M6 x 18	Oil Dipped Steel	Fenner	44A241
1¼ in	2 23/64 in	1.122 in	500	M6 x 20		Fenner	44A291 *
1½ in	2 35/64 in	0.787 in	658	M6 x 18	Carbon Steel	Tsubaki	1DYG7
1½ in	2 35/64 in	1.122 in	600	M8 x 20	Oil Dipped Steel	Fenner	44A293 *
1½ in	2 15/16 in	2.441 in	2,026	M6 x 45		Climax	38G708
2 in	3 9/64 in	2.598 in	3,065	M8 x 55		Fenner	44A273
2 in	3 11/32 in	0.945 in	1,983	M8 x 22		Fenner	44A247
2 in	3 11/32 in	2.52 in	3,141	M8 x 50	Carbon Steel	Tsubaki	4HJW2
2 7/16 in	3 47/64 in	1.358 in	2,102	M8 x 25	Oil Dipped Steel	Fenner	44A302 *
2½ in	3 47/64 in	0.945 in	2,832	M8 x 22		Fenner	44A252
2 15/16 in	4 33/64 in	3.071 in	9,028	M10 x 70	Carbon Steel	Tsubaki	4HJW6
3 in	4 23/32 in	1.594 in	4,923	M10 x 30	Oil Dipped Steel	Fenner	44A226
For Metric Shaft Size							
10 mm	15/16 in	20.5 mm	27	M4 x 12	Oil Dipped Steel	Climax	38AT66 *
25 mm	50 mm	28.5 mm	403	M6 x 20		Fenner	44A230
30 mm	55 mm	20 mm	464	M6 x 18		Fenner	44A258
35 mm	60 mm	20 mm	650	M6 x 18		Fenner	44A260
40 mm	65 mm	26 mm	68	M6 x 18		Climax	38AU22
45 mm	75 mm	24 mm	1,495	M8 x 22		Fenner	44A262
60 mm	90 mm	74 mm	380	M8 x 55		Climax	38AU71
65 mm	95 mm	34.5 mm	2,922	M8 x 25		Fenner	44A238
100 mm	145 mm	114 mm	1,707	M12 x 80		Climax	38AU57

** Flanged.† Climax = Climax Metal Products, Fenner = Fenner Drives.*

B Series

PowerDrive Supplier Diversity

Split-Taper Bushings

Flanged with a double-split barrel for more clamping force than quick-detachable or taper-lock bushings. No split in flange. For use with sheaves, sprockets, pulleys, gearbelt pulleys, and chain couplings. Include cap screws. Taper: ¾" per ft.

Bushing Series/ Bore Dia.	Item No.
B	
1 ⅛ in	6PTR3
1 11/16 in	6PTR4
1 ⅞ in	6PTT2
1 15/16 in	6PTR5
G	
⅝ in	6PTV0
¾ in	6PTU8
⅞ in	6PTV1

Bushing Series/ Bore Dia.	Item No.
P1	
⅞ in	6PTW0
1 in	6PTV2
1 ⅛ in	6PTW1
1 ¼ in	6PTV4
1 ⅜ in	6PTW2
1 7/16 in	6PTV7
1 ⅝ in	6PTV6

Bushing Series/ Bore Dia.	Item No.
Q1	
1 in	6PTW5
1 ⅜ in	6PTX9
1 ⅝ in	6PTY0
1 11/16 in	6PTX7
1 ¾ in	6PTW9
1 ⅞ in	6PTX0
1 15/16 in	6PTW8

Shrink Disc Keyless Bushings

CLIMAX Metal Products Company

Clamp to the shaft using a shrink-disc mechanism that applies compression to clamp the bushing onto the shaft with a zero-backlash frictional connection. Used to connect a hollow shaft over a solid shaft such as hollow output shaft gear boxes or flange couplings.

For Shaft Diameter	For Bore Outside Diameter	Overall Width	Screw Thread Size	Mfr. Model	Item No.
80 mm	5 45/64 in	25 mm	M8 x 25	C733M-80	38AV50
100 mm	6 11/16 in	34 mm	M8 x 35	C733M-100	38AV36

Roller Chain and Individual Links

Standard Roller—Hardened carbon steel construction. Fully interchangeable with other ANSI roller chains. Factory preloading, lube-grooved bushings, and prelubrication minimize wear elongation. One connecting link included for every 10 ft. of chain.

Heavy Riveted Roller—Thicker link plates than standard roller chains. Heavier construction allows chains to absorb more shock and convey heavier loads.

Lube-Free Roller—Oil impregnated bushings are for locations where lubrication is difficult or unwanted to protect products from exposure to grease.

British Standard Roller—Meet manufacturing specifications set by the International Standards Organization metric dimensions (ISO 606), British Standard (BS 228), and DIN 8187 manufacturing specifications. For general conveying applications that require durable chains in non-corrosive environments.

Standard and Heavy Conveyor Roller—Designed specifically for transport applications such as material handling, packaging, road building machinery, commercial bakeries, bottlers, and farm equipment.

Connecting Links—For joining two ends of chain together. Chain Numbers 25 to 60 assemble with spring clips. Numbers 80 and higher, as well as Heavy and Curved connecting links, assemble with cotter pins.

Offset Links—Used when an odd number of links are required in a roller chain.

Roller Links—Individual links serve as replacements for damaged roller links.

Additional sizes and styles of roller chain are available on Grainger.com.

Standard
2YDW8

Heavy
1YGT2

Conveyor
2YDY3

Chain Number	Pitch	Inside Width	Roller Dia.	Chain Overall Width	Overall Length	Working Load Limit (lb)	Tensile Strength (lbf)	CHAIN Item No.	CHAIN Pkg. Qty.	CONNECTING LINKS Item No.	CONNECTING LINKS Pkg. Qty.	OFFSET LINKS Item No.	OFFSET LINKS Pkg. Qty.	ROLLER LINKS Item No.	ROLLER LINKS Pkg. Qty.
Standard Roller Chain, Single Strand - Dayton Chain & Links															
35	3/8 in	0.188 in	13/64 in	0.52 in	10 ft	480	1,760	2YDW4	1	2YEA5	5	2YEA6	5	2YEA7	5
35	3/8 in	0.188 in	13/64 in	0.52 in	100 ft	480	1,760	2YDX5	1	2YEA5	5	2YEA6	5	2YEA7	5
40	1/2 in	0.312 in	5/16 in	0.7 in	10 ft	810	3,125	2YDW5	1	2YEA8	5	2YEA9	5	2YEC1	5
40	1/2 in	0.312 in	5/16 in	0.7 in	100 ft	810	3,125	2YDX6	1	2YEA8	5	2YEA9	5	2YEC1	5
41	1/2 in	0.25 in	5/16 in	0.59 in	10 ft	470	1,500	2YDW6	1	2YEC2	5	2YEC3	5	2YEC4	5
41	1/2 in	0.25 in	5/16 in	0.59 in	100 ft	470	1,500	2YDX7	1	2YEC2	5	2YEC3	5	2YEC4	5
50	5/8 in	0.375 in	13/32 in	0.86 in	10 ft	1,430	4,880	2YDW7	1	2YEC5	5	2YEC6	5	2YEC7	5
50	5/8 in	0.375 in	13/32 in	0.86 in	100 ft	1,430	4,880	2YDX8	1	2YEC5	5	2YEC6	5	2YEC7	5
60	3/4 in	0.5 in	15/32 in	1.06 in	10 ft	1,980	7,030	2YDW8	1	2YEC8	5	2YEC9	5	2YED1	5
60	3/4 in	0.5 in	15/32 in	1.06 in	100 ft	1,980	7,030	2YDX9	1	2YEC8	5	2YEC9	5	2YED1	5
80	1 in	0.625 in	5/8 in	1.34 in	10 ft	3,300	12,500	2YDW9	1	2YED2	1	2YED3	1	2YED4	1
100	1 1/4 in	0.75 in	3/4 in	1.62 in	10 ft	5,070	19,531	2YDX1	1	2YED5	1	2YED6	1	2YED7	1
120	1 1/2 in	1 in	7/8 in	2.03 in	10 ft	6,790	28,125	2YDX2	1	2YED8	1	2YEE2	1	2YEE5	1
140	1 3/4 in	1 in	1 in	2.19 in	10 ft	8,900	38,280	2YDX3	1	2YED9	1	2YEE3	1	2YEE6	1
160	2 in	1.25 in	1 1/8 in	2.6 in	10 ft	11,880	50,000	2YDX4	1	2YEE1	1	2YEE4	1	2YEE7	1
Standard Roller Chain, Single Strand - Triton Chain & Tsubaki Links															
40	1/2 in	0.309 in	5/16 in	0.654 in	50 ft	—	3,900	42MJ72	1	5X293	5	5X294	5	5X295	5
50	5/8 in	0.37 in	13/32 in	0.815 in	10 ft	—	6,600	42MJ76	1	5X299	5	5X300	5	5X301	5
60	3/4 in	0.495 in	15/32 in	1.02 in	50 ft	—	9,300	42MJ80	1	5X302	5	5X303	5	5X304	5
80	1 in	0.62 in	5/8 in	1.287 in	10 ft	—	15,600	42MJ82	1	6X529	1	6X530	1	6X531	1
Standard Roller Chain, Single Strand - Tsubaki Chain & Links															
35	3/8 in	0.188 in	13/64 in	0.5 in	10 ft	480	2,530	2W092	1	5X290	5	5X291	5	5X292	5
35	3/8 in	0.188 in	13/64 in	0.5 in	100 ft	480	2,530	2W192	1	5X290	5	5X291	5	5X292	5
40	1/2 in	0.313 in	5/16 in	0.717 in	10 ft	810	4,290	2W093	1	5X293	5	5X294	5	5X295	5
40	1/2 in	0.313 in	5/16 in	0.717 in	100 ft	810	4,290	2W193	1	5X293	5	5X294	5	5X295	5
41	1/2 in	0.25 in	5/16 in	0.579 in	10 ft	500	2,640	2W094	1	5X296	5	5X297	5	5X298	5
41	1/2 in	0.25 in	5/16 in	0.579 in	100 ft	500	2,640	2W194	1	5X296	5	5X297	5	5X298	5
50	5/8 in	0.375 in	13/32 in	0.878 in	10 ft	1,430	7,050	2W095	1	5X299	5	5X300	5	5X301	5
50	5/8 in	0.375 in	13/32 in	0.878 in	100 ft	1,430	7,050	2W195	1	5X299	5	5X300	5	5X301	5
60	3/4 in	0.5 in	15/32 in	1.087 in	10 ft	1,980	9,920	2W096	1	5X302	5	5X303	5	5X304	5
60	3/4 in	0.5 in	15/32 in	1.087 in	100 ft	1,980	9,920	3W098	1	5X302	5	5X303	5	5X304	5
80	1 in	0.625 in	5/8 in	1.398 in	10 ft	3,300	17,640	2W221	1	6X529	1	6X530	1	6X531	1
100	1 1/4 in	0.75 in	3/4 in	1.678 in	10 ft	5,070	26,460	2W222	1	6X532	1	6X533	1	6X534	1
120	1 1/2 in	1 in	7/8 in	2.118 in	10 ft	6,830	37,480	6L481	1	6L490	1	6L493	1	6L496	1
140	1 3/4 in	1 in	1 in	2.307 in	10 ft	9,040	48,510	6L482	1	6L491	1	6L494	1	6L497	1
160	2 in	1.25 in	1 1/8 in	2.705 in	10 ft	11,900	60,630	6L483	1	6L492	1	6L495	1	6L498	1
Standard Roller Chain, Double Strand - Dayton Chain & Links															
35	3/8 in	0.188 in	13/64 in	0.92 in	10 ft	805	3,520	2YDY5	1	2YEE8	5	2YEF5	5	—	—
40	1/2 in	0.312 in	5/16 in	1.27 in	10 ft	1,360	6,250	2YDY6	1	2YEE9	5	2YEF6	5	—	—
50	5/8 in	0.375 in	13/32 in	1.57 in	10 ft	2,360	9,770	2YDY7	1	2YEF1	5	2YEF7	5	—	—
60	3/4 in	0.5 in	15/32 in	1.95 in	10 ft	3,300	14,060	2YDY8	1	2YEF2	5	2YEF8	5	—	—
80	1 in	0.625 in	5/8 in	2.49 in	10 ft	5,600	25,000	2YDY9	1	2YEF3	1	2YEF9	1	—	—
100	1 1/4 in	0.75 in	3/4 in	3.03 in	10 ft	8,570	39,062	2YDZ1	1	2YEF4	1	2YEG1	1	—	—
Standard Roller Chain, Double Strand - Tsubaki Chain & Links															
35	3/8 in	0.188 in	13/64 in	0.898 in	10 ft	810	5,060	6L484	1	6L499	5	6L505	5	—	—
40	1/2 in	0.313 in	5/16 in	1.283 in	10 ft	1,370	8,580	6L485	1	6L500	5	6L506	5	—	—
50	5/8 in	0.375 in	13/32 in	1.595 in	10 ft	2,430	14,100	6L486	1	6L501	5	6L507	5	—	—
60	3/4 in	0.5 in	15/32 in	1.988 in	10 ft	3,360	19,840	6L487	1	6L502	5	6L508	5	—	—
80	1 in	0.625 in	5/8 in	2.552 in	10 ft	5,610	35,280	6L488	1	6L503	1	6L509	1	—	—
100	1 1/4 in	0.75 in	3/4 in	3.09 in	10 ft	8,610	52,920	6L489	1	6L504	1	6L510	1	—	—
Heavy Riveted Roller Chain, Single Strand - Tsubaki Chain & Links															
60	3/4 in	0.5 in	15/32 in	1.252 in	10 ft	2,200	9,920	1YGT2	1	1YKK8	5	1YKK9	5	1YKL1	5
80	1 in	0.625 in	5/8 in	1.543 in	10 ft	3,630	17,640	1YGT7	1	1YKV8	1	1YKV9	1	1YKW1	1
Lube-Free Roller Chain, Single Strand - Tsubaki Chain & Links															
40	1/2 in	0.297 in	5/16 in	0.755 in	10 ft	816	4,300	1YGP9	1	1YJK8	5	1YJK9	5	—	—
50	5/8 in	0.365 in	13/32 in	0.913 in	10 ft	1,430	7,050	1YGR4	1	1YJX4	5	1YJX5	5	—	—
British Standard Roller Chain, Single Strand - Tsubaki Chain & Links															
06B	3/8 in	0.225 in	1/4 in	0.551 in	10 ft	438	2,310	1YGZ8 *	1	1YGN3	5	1YGN4	5	—	—
08B	1/2 in	0.305 in	21/64 in	0.724 in	10 ft	854	4,410	1YGZ9	1	1YGN5	5	1YGN6	5	—	—
10B	5/8 in	0.38 in	13/32 in	0.819 in	10 ft	1,016	5,840	1YHA1	1	1YGN7	5	1YGN8	5	—	—
12B	3/4 in	0.46 in	15/32 in	0.953 in	10 ft	1,387	7,500	1YHA2	1	1YGN9	5	1YGP1	5	—	—
16B	1 in	0.67 in	5/8 in	1.488 in	10 ft	2,945	16,500	1YHA3	1	1YGP2	1	1YGP3	1	—	—
Standard Conveyor Roller Chain, Single Strand - Dayton Chain & Links															
C2040	1 in	0.312 in	5/16 in	0.7 in	10 ft	534	3,125	2YDY1	1	2YEG2	1	2YEG6	1	2YEH1	1
C2050	1 1/4 in	0.375 in	13/32 in	0.86 in	10 ft	721	4,880	2YDY2	1	2YEG3	1	2YEG7	1	2YEH2	1
Standard Conveyor Roller Chain, Single Strand - Tsubaki Chain & Links															
C2040	1 in	0.313 in	5/16 in	0.717 in	10 ft	595	3,750	6L511	1	6L515	1	6L519	1	6L523	1
C2050	1 1/4 in	0.375 in	13/32 in	0.878 in	10 ft	970	6,170	6L512	1	6L516	1	6L520	1	6L524	1
Heavy Conveyor Roller Chain, Single Strand - Dayton Chain & Links															
C2060H	1 1/2 in	0.5 in	15/32 in	1.15 in	10 ft	1,032	7,227	2YDY3	1	2YEG4	1	2YEG8	1	2YEH3	1
C2080H	2 in	0.625 in	5/8 in	1.425 in	10 ft	1,610	12,886	2YDY4	1	2YEG5	1	2YEG9	1	2YEH4	1
Heavy Conveyor Roller Chain, Single Strand - Tsubaki Chain & Links															
C2060H	1 1/2 in	0.5 in	15/32 in	1.225 in	10 ft	1,410	9,040	6L513	1	6L517	1	6L521	1	6L525	1
C2080H	2 in	0.625 in	5/8 in	1.543 in	10 ft	2,400	15,400	6L514	1	6L518	1	6L522	1	6L526	1

** 06B chain has conveyor-style flat side bar.*

Chain
1YGP6

Connecting Link
1YJH1

Offset Link
1YJH2

TSUBAKI Dayton TRITAN

Corrosion-Resistant Roller Chain and Individual Links

These single-strand roller chains have several material options depending on the needs of the application. Each 10-ft. length includes one connecting link.

Stainless Steel—Less strength than standard roller chains and suitable for light duty applications that require all stainless steel equipment such as food processing plants.

Coated Steel—Material has a surface treatment that withstands harsh outdoor environments such as exposure to seawater. They are stronger than stainless steel and offer more corrosion-resistance than nickel-plated chains.

Nickel-Plated Steel—Withstands mildly corrosive environments. Stronger than stainless steel chains and suitable in humid locations or for operations that require washdown.

Chain Number	Pitch	Overall Length	Working Load Limit	Tensile Strength	Brand	CHAIN Item No.	CHAIN Pkg. Qty.	CONNECTING LINKS Item No.	CONNECTING LINKS Pkg. Qty.	OFFSET LINKS Item No.	OFFSET LINKS Pkg. Qty.
Stainless Steel											
25	¼ in	10 ft	26 lb	—	Tsubaki	**1YGP4**	1	**1YJF9**	5	**1YJG1**	5
35	⅜ in	10 ft	60 lb	—	Tsubaki	**1YGP7**	1	**1YJJ9**	5	**1YJK1**	5
40	½ in	10 ft	100 lb	1,865 lbf	Dayton	**2YDZ5**	1	—	—	—	—
40	½ in	10 ft	99 lb	—	Tsubaki	**6L076**	1	**6L094**	5	**6L085**	5
40	½ in	10 ft	—	2,700 lbf	Tritan	**42MK47**	1	**42ML25**	1	**42ML73**	1
50	⅝ in	10 ft	152 lb	2,943 lbf	Dayton	**2YDZ6**	1	—	—	—	—
50	⅝ in	10 ft	154 lb	—	Tsubaki	**6L077**	1	**6L095**	5	**6L086**	5
50	⅝ in	10 ft	—	4,300 lbf	Tritan	**42MK51**	1	**42ML27**	1	**42ML75**	1
60	¾ in	10 ft	230 lb	4,224 lbf	Dayton	**2YDZ7**	1	—	—	—	—
60	¾ in	10 ft	231 lb	—	Tsubaki	**6L078**	1	**6L096**	5	**6L087**	5
80	1 in	10 ft	397 lb	—	Tsubaki	**1YGT9**	1	**1YKW9**	1	**1YKX1**	1
80	1 in	10 ft	—	11,000 lbf	Tritan	**42MK54**	1	**42ML29**	1	**42MK87**	1
Coated Steel											
35	⅜ in	10 ft	480 lb	2,530 lbf	Tsubaki	**1YGP6**	1	**1YJH1**	5	**1YJH2**	5
40	½ in	10 ft	810 lb	4,290 lbf	Tsubaki	**1YGR2**	1	**1YJP2**	5	**1YJP3**	5
50	⅝ in	10 ft	1,430 lb	7,050 lbf	Tsubaki	**1YGR6**	1	**1YJZ6**	5	**1YJZ7**	5
60	¾ in	10 ft	1,980 lb	9,920 lbf	Tsubaki	**1YGT1**	1	**1YKG6**	5	**1YKG7**	5
Nickel-Plated Steel											
40	½ in	10 ft	648 lb	2,481 lbf	Dayton	**2YDZ2**	1	**2YDZ8**	5	**2YEA2**	5
40	½ in	10 ft	660 lb	4,250 lbf	Tsubaki	**6L073**	1	**6L091**	5	**6L082**	5
50	⅝ in	10 ft	1,140 lb	7,050 lbf	Tsubaki	**6L074**	1	**6L092**	5	**6L083**	5
50	⅝ in	10 ft	1,144 lb	4,880 lbf	Dayton	**2YDZ3**	1	**2YDZ9**	5	**2YEA3**	5
60	¾ in	10 ft	1,630 lb	9,900 lbf	Tsubaki	**6L075**	1	**6L093**	5	**6L084**	5
60	¾ in	10 ft	1,584 lb	7,030 lbf	Dayton	**2YDZ4**	1	**2YEA1**	5	**2YEA4**	5

TSUBAKI

Chain Attachment Links

- Carbon steel links

Fixtures can be mounted to attachments for smoother transfer. Sold in pkg. of 5, except single-pitch size 80. Spring clips standard on sizes 35 to 60. Cotter pins standard on size 80. Additional styles and sizes are available on Grainger.com.

ANSI Chain Size	A-1 Item No.	D-1 Item No.	D-3 Item No.	K-1 Item No.	SA-1 Item No.	SK-1 Item No.	WA-1 Item No.	WK-1 Item No.
35	**1YJG3**	**1YJG6**	**1YJG7**	**1YJG9**	**1YJH4**	**1YJH6**	**1YJH7**	—
40	**1YJK3**	**1YJK6**	**1YJK7**	**1YJL4**	**1YJP6**	**1YJP8**	**1YJR1**	**1YJR2**
41	**1YJV9**	—	—	**1YJW2**	**1YJW4**	**1YJW6**	—	—
50	**1YJW8**	**1YJX2**	**1YJX3**	**1YJX9**	**1YKA3**	**1YKA5**	**1YKA6**	**1YKA7**
60	**1YKD8**	**1YKE3**	**1YKE4**	**1YKE9**	**1YKH2**	**1YKH4**	**1YKH5**	**1YKH6**
80	**1YKN7**	**1YKP2**	**1YKP3**	**1YKP6**	**1YKT4**	**1YKT6**	**1YKT8**	**1YKT9**

Chain Breaker
1A911

Chain Puller
5TZL3

TSUBAKI Fenner Drives Dayton

Roller Chain Tools

Chain Breakers allow you to disassemble the roller chain to add or remove links to the length of chain. **Chain Pullers** can pull the open ends of the roller chain close enough together to ease the insertion of connecting links.

ANSI Size	Brand	Mfr. Model	Item No.
Chain Breakers			
25-60	Tsubaki	D-35	**1A911**
25-60	Fenner Drives	5810100	**38ZD44**
35-50	Dayton	2YEH5	**2YEH5**
60-100	Dayton	2YEH6	**2YEH6**
60-100	Tsubaki	D-60	**1A912**
60-100	Fenner Drives	5810200	**38ZD45**
Chain Pullers			
25-35	Fenner Drives	5800250	**54XX39**
35-60	Fenner Drives	5800350	**5TZL3**
40-80	Fenner Drives	5800500	**33Z791**
80-240	Fenner Drives	5800800	**5TZL4**

1YGR1

TSUBAKI

Hollow-Pin Roller Chains

- Carbon steel
- Length: 10 ft.

These ANSI standard roller chains provide a more precise and controlled drive system over belts because they will not slip or wear. Feature connecting pins with a hollow center that allow cross rods and attachments to be inserted through the pins and moved as needed without disassembling the chain. Must be matched with a compatible ANSI/ASME sprocket. Include a connecting link.

Chain Number	Pitch	Tensile Strength	Item No.
40	½ in	2,430 lbf	**1YGR1**
50	⅝ in	4,410 lbf	**1YGR5**
60	¾ in	5,950 lbf	**1YGR9**
80	1 in	10,800 lbf	**1YGT5**

No. of Teeth	Pitch Dia. (in.)	Approx. Outside Dia. (in.)	Brand	Mfr. Model	Item No.
Size 35					
⅜ in Bore Diameter					
9	1.097	1	Tsubaki	35B9F-3/8	**6L774**
½ in Bore Diameter					
10	1.214	1	Tsubaki	35B10F-1/2	**6L776**
12	1.449	2	Tsubaki	35B12F-1/2	**6L782**
15	1.804	2	Tsubaki	35B15F-1/2	**6L791**
⅝ in Bore Diameter					
10	1.214	1	Tsubaki	35B10F-5/8	**6L777** *
12	1.449	2	Tsubaki	35B12F-5/8	**6L783**
15	1.804	2	Tsubaki	35B15F-5/8	**6L792**
16	1.922	2	Tsubaki	35B16F-5/8	**6L796**
¾ in Bore Diameter					
15	1.804	2	Tsubaki	35B15F-3/4	**6L793**
16	1.922	2	Tsubaki	35B16F-3/4	**6L797**
18	2.16	2	Tsubaki	35B18F-3/4	**6L805**
28	3.349	4	Tritan	35BS28H X ¾	**55VY18**
1 in Bore Diameter					
18	2.16	2	Tsubaki	35B18F-1	**6L806**
24	2.873	3	Tsubaki	35B24F-1	**6L830**
Size 40					
½ in Bore Diameter					
9	1.462	2	Tsubaki	40B9F-1/2	**6L835**
10	1.618	2	Tsubaki	40B10F-1/2	**1L104**
12	1.932	2	Tsubaki	40B12F-1/2	**1L108**
15	2.405	3	Tsubaki	40B15F-1/2	**6L842**
⅝ in Bore Diameter					
9	1.462	2	Tritan	40BS09H X ⅝	**36GA61**
9	1.462	2	Tsubaki	40B9F-5/8	**6L836**
10	1.618	2	Tsubaki	40B10F-5/8	**1L105**
11	1.775	2	Tsubaki	40B11F-5/8	**6L838**
12	1.932	2	Tsubaki	40B12F-5/8	**1L109**
12	1.932	2	Tritan	40BS12H X ⅝	**36GA70**
13	2.089	2	Tsubaki	40B13F-5/8	**1L113**
14	2.247	2	Tsubaki	40B14F-5/8	**1L118**
15	2.405	3	Tsubaki	40B15F-5/8	**1L122**
16	2.563	3	Tsubaki	40B16F-5/8	**1L126**
16	2.563	3	Tritan	40BS16H X ⅝	**36GA89**
17	2.721	3	Tsubaki	40B17F-5/8	**1L130**
18	2.879	3	Tsubaki	40B18F-5/8	**1L134**
18	2.879	3	Tritan	40BS18H X ⅝	**36GA99**
28	4.465	5	Tsubaki	40B28F-5/8	**6L880**
30	4.783	5	Tsubaki	40B30F-5/8	**6L885**
¾ in Bore Diameter					
10	1.618	2	Tsubaki	40B10F-3/4	**1L106**
10	1.618	2	Tritan	40BS10H X ¾	**36GA62**
11	1.775	2	Tsubaki	40B11F-3/4	**6L839**
12	1.932	2	Tsubaki	40B12F-3/4	**1L110**
12	1.932	2	Tritan	40BS12H X ¾	**36GA69**
13	2.089	2	Tsubaki	40B13F-3/4	**1L114**
13	2.089	2	Tritan	40BS13H X ¾	**36GA73**
14	2.247	2	Tsubaki	40B14F-3/4	**1L119**
15	2.405	3	Tsubaki	40B15F-3/4	**1L123**
15	2.405	3	Tritan	40BS15H X ¾	**36GA82**
16	2.563	3	Tsubaki	40B16F-3/4	**1L127**
16	2.563	3	Tritan	40BS16H X ¾	**36GA88**
17	2.721	3	Tsubaki	40B17F-3/4	**1L131**
18	2.879	3	Tsubaki	40B18F-3/4	**1L135**
18	2.879	3	Tritan	40BS18H X ¾	**36GA98**
20	3.196	3	Tsubaki	40B20F-3/4	**1L140**
21	3.355	4	Tsubaki	40B21F-3/4	**6L853**
24	3.831	4	Tsubaki	40B24F-3/4	**1L143**
24	3.831	4	Tritan	40BS24H X ¾	**36GC24**
25	3.989	4	Tritan	40BS25H X ¾	**36GC27**
36	5.737	6	Tritan	40BS36 X ¾	**36GC46**
40	6.373	7	Tritan	40BS40 X ¾	**36GC51**
⅞ in Bore Diameter					
11	1.775	2	Tsubaki	40B11F-7/8	**6L840**
12	1.932	2	Tsubaki	40B12F-7/8	**1L111**
12	1.932	2	Tritan	40BS12H X ⅞	**36GA71**
25	3.989	4	Tritan	40BS25H X ⅞	**36GC28**
1 in Bore Diameter					
12	1.932	2	Tsubaki	40B12F-1	**1L112**
12	1.932	2	Tritan	40BS12H X 1	**36GA67**
13	2.089	2	Tsubaki	40B13F-1	**1L116**
13	2.089	2	Tritan	40BS13H X 1	**36GA72**
14	2.247	2	Tsubaki	40B14F-1	**1L121**
14	2.247	2	Tritan	40BS14H X 1	**36GA75**
15	2.405	3	Tsubaki	40B15F-1	**1L125**
15	2.405	3	Tritan	40BS15H X 1	**36GA79**
16	2.563	3	Tsubaki	40B16F-1	**1L129**
16	2.563	3	Tritan	40BS16H X 1	**36GA85**
17	2.721	3	Tsubaki	40B17F-1	**1L133**
18	2.879	3	Tsubaki	40B18F-1	**1L137**
18	2.879	3	Tritan	40BS18H X 1	**36GA95**
19	3.038	3	Tsubaki	40B19F-1	**1L139**
19	3.038	3	Tritan	40BS19H X 1	**36GC02**
20	3.196	3	Tsubaki	40B20F-1	**1L142**
20	3.196	3	Tritan	40BS20H X 1	**36GC06**
21	3.355	4	Tsubaki	40B21F-1	**6L855**
22	3.513	4	Tritan	40BS22H X 1	**36GC13**
22	3.513	4	Tsubaki	40B22F-1	**6L860**
23	3.672	4	Tritan	40BS23H X 1	**36GC18**
24	3.831	4	Tsubaki	40B24F-1	**1L144**
24	3.831	4	Tritan	40BS24H X 1	**36GC21**
25	3.989	4	Tsubaki	40B25F-1	**6L873**
28	4.466	5	Tritan	40BS28H X 1	**36GC31**
28	4.465	5	Tsubaki	40B28F-1	**6L883**
30	4.783	5	Tsubaki	40B30F-1	**1L145**
30	4.783	5	Tritan	40BS30H X 1	**36GC34**
32	5.101	5	Tritan	40BS32H X 1	**36GC39**
35	5.578	6	Tsubaki	40B35F-1	**1L146**
36	5.737	6	Tritan	40BS36 X 1	**36GC45**
40	6.373	7	Tritan	40BS40 X 1	**36GC50**

No. of Teeth	Pitch Dia. (in.)	Approx. Outside Dia. (in.)	Brand	Mfr. Model	Item No.
1⅛ in Bore Diameter					
19	3.038	3	Tsubaki	40B19F-1B	**20UF19**
1 3/16 in Bore Diameter					
16	2.563	3	Tsubaki	40B16F-1C	**20UF13**
1¼ in Bore Diameter					
15	2.405	3	Tsubaki	40B15F-1 ¼	**6L843** *
20	3.196	3	Tsubaki	40B20F-1 ¼	**6L851**
Size 50					
¾ in Bore Diameter					
9	1.828	2	Tsubaki	50B9F-3/4	**6L927**
10	2.023	2	Tsubaki	50B10F-3/4	**1L147**
15	3.006	3	Tsubaki	50B15F-3/4	**1L157**
16	3.204	4	Tsubaki	50B16F-3/4	**1L161**
20	3.995	4	Tsubaki	50B20F-3/4	**1L169**
⅞ in Bore Diameter					
15	3.006	3	Tsubaki	50B15F-7/8	**6L941**
18	3.599	4	Tsubaki	50B18FP	**20UF80**
1 in Bore Diameter					
10	2.023	2	Tritan	50BS10H X 1	**36GC53**
10	2.023	2	Tsubaki	50B10F-1	**6L929** *
11	2.219	3	Tritan	50BS11H X 1	**36GC57**
11	2.219	3	Tsubaki	50B11F-1	**6L931**
12	2.415	3	Tsubaki	50B12F-1	**1L150**
12	2.415	3	Tritan	50BS12H X 1	**36GC60**
13	2.612	3	Tsubaki	50B13F-1	**1L153**
13	2.612	3	Tritan	50BS13H X 1	**36GC64**
14	2.809	3	Tsubaki	50B14F-1	**1L156**
14	2.803	3	Tritan	50BS14H X 1	**36GC67**
15	3.006	3	Tsubaki	50B15F-1	**1L158**
16	3.204	4	Tsubaki	50B16F-1	**1L162**
16	3.204	4	Tritan	50BS16H X 1	**36GC81**
17	3.401	4	Tsubaki	50B17F-1	**1L166**
17	3.401	4	Tritan	50BS17H X 1	**36GC90**
18	3.599	4	Tritan	50BS18H X 1	**36GC96**
18	3.599	4	Tsubaki	50B18F-1	**6L949**
19	3.797	4	Tritan	50BS19H X 1	**36GD05**
19	3.798	4	Tsubaki	50B19F-1	**6L955**
20	3.995	4	Tsubaki	50B20F-1	**1L170**
20	3.995	4	Tritan	50BS20H X 1	**36GD12**
21	4.194	5	Tsubaki	50B21F-1	**6L965**
22	4.392	5	Tsubaki	50B22F-1	**6L971**
24	4.788	5	Tsubaki	50B24F-1	**1L171**
24	4.788	5	Tritan	50BS24H X 1	**36GD28**
26	5.185	6	Tritan	50BS26H X 1	**36GD35**
28	5.582	6	Tritan	50BS28H X 1	**36GD40**
30	5.979	6	Tritan	50BS30H X 1	**36GD43**
30	5.979	6	Tsubaki	50B30F-1	**6G019**
32	6.376	7	Tritan	50BS32H X 1	**36GD47**
36	7.171	8	Tritan	50BS36 X 1	**36GD52**
1⅛ in Bore Diameter					
12	2.415	3	Tsubaki	50B12F-1 ⅛	**1L151**
15	3.006	3	Tsubaki	50B15F-1 ⅛	**1L159**
16	3.204	4	Tsubaki	50B16F-1 ⅛	**1L163**
18	3.599	4	Tsubaki	50B18F-1B	**20UF76**
1 3/16 in Bore Diameter					
12	2.415	3	Tsubaki	50B12F-1 3/16	**6L933**
15	3.006	3	Tritan	50BS15H X 1 3/16	**36GC75**
24	4.788	5	Tritan	50BS24H X 1 3/16	**36GD31**
26	5.185	6	Tritan	50BS26H X 1 3/16	**36GD37**
32	6.376	7	Tritan	50BS32H X 1 3/16	**36GD48**
36	7.171	8	Tritan	50BS36 X 1 3/16	**36GD55**
1¼ in Bore Diameter					
12	2.415	3	Tritan	50BS12H X 1 ¼	**36GC61**
12	2.415	3	Tsubaki	50B12F-1 ¼	**6L934**
13	2.612	3	Tsubaki	50B13F-1 ¼	**6L937**
15	3.006	3	Tsubaki	50B15F-1 ¼	**1L160**
15	3.006	3	Tritan	50BS15H X 1 ¼	**36GC74**
16	3.204	4	Tsubaki	50B16F-1 ¼	**1L164**
16	3.204	4	Tritan	50BS16H X 1 ¼	**36GC83**
18	3.599	4	Tritan	50BS18H X 1 ¼	**36GC98**
18	3.599	4	Tsubaki	50B18F-1 ¼	**6L952**
20	3.995	4	Tritan	50BS20H X 1 ¼	**36GD14**
20	3.995	4	Tsubaki	50B20F-1 ¼	**6L962**
24	4.788	5	Tritan	50BS24H X 1 ¼	**36GD29**
27	5.384	6	Tritan	50BS27H X 1 ¼	**36GD39**
28	5.582	6	Tritan	50BS28H X 1 ¼	**36GD42**
30	5.979	6	Tritan	50BS30H X 1 ¼	**36GD44**
40	7.966	8	Tritan	50BS40 X 1 ¼	**36GD58**
45	8.96	9	Tritan	50BS45 X 1 ¼	**55WA86**
1 7/16 in Bore Diameter					
16	3.204	4	Tsubaki	50B16F-1G	**20UF65**
32	6.376	7	Tritan	50BS32H X 1 7/16	**55WA72**
1½ in Bore Diameter					
21	4.194	5	Tritan	50BS21H X 1 ½	**36GD18**
Size 60					
1 in Bore Diameter					
9	2.193	3	Tsubaki	60B9F-1	**6G023**
10	2.427	3	Tsubaki	60B10F-1	**6G024**
11	2.663	3	Tsubaki	60B11F-1	**1L173**
12	2.898	3	Tsubaki	60B12F-1	**1L176**
12	2.898	3	Tritan	60BS12H X 1	**36GD65**
13	3.134	3	Tsubaki	60B13F-1	**1L178**
14	3.371	4	Tsubaki	60B14F-1	**1L181**
15	3.608	4	Tsubaki	60B15F-1	**1L183**
15	3.608	4	Tritan	60BS15H X 1	**36GD80**
16	3.845	4	Tsubaki	60B16F-1	**1L186**
16	3.845	4	Tritan	60BS16H X 1	**36GD88**
17	4.082	4	Tsubaki	60B17F-1	**20UG22**
18	4.319	5	Tsubaki	60B18F-1	**1L189**
20	4.794	5	Tritan	60BS20H X 1	**36GE09**
25	5.984	6	Tritan	60BS25H X 1	**36GE26**
1⅛ in Bore Diameter					
15	3.608	4	Tsubaki	60B15F-1B	**20UG07**
16	3.845	4	Tsubaki	60B16F-1B	**20UG14**
17	4.082	4	Tsubaki	60B17F-1B	**20UG23**
20	4.794	5	Tsubaki	60B20F-1B	**20UG45**

ANSI 40
1L104

TSUBAKI TRITAN

Fixed-Bore Roller Chain Sprockets

ANSI standard sprockets for use with standard roller chain. Constructed of high-carbon and heat-treated steel alloy. They are ready to install with machined keyways and/or 2 included setscrews to secure the shaft and prevent slipping. Setscrews are directly over keyway and 90° from keyway, unless noted. For more information see page 116 for Keyway and Setscrew Guide. The ⅜" and ½" bore sizes have no keyway. Additional sprockets available on Grainger.com.

No. of Teeth	Pitch Dia. (in.)	Approx. Outside Dia. (in.)	Brand	Mfr. Model	Item No.
1 3/16 in Bore Diameter					
15	3.608	4	Tsubaki	60B15F-1C	**20UG08**
16	3.845	4	Tsubaki	60B16F-1C	**20UG15**
1¼ in Bore Diameter					
11	2.663	3	Tsubaki	60B11F-1 ¼	**1L175** *
11	2.663	3	Tritan	60BS11H X 1 ¼	**36GD63**
12	2.898	3	Tsubaki	60B12F-1 ¼	**1L177** *
12	2.898	3	Tritan	60BS12H X 1 ¼	**36GD66**
13	3.134	3	Tsubaki	60B13F-1 ¼	**1L180**
13	3.134	3	Tritan	60BS13H X 1 ¼	**36GD71**
14	3.371	4	Tsubaki	60B14F-1 ¼	**1L182**
15	3.608	4	Tsubaki	60B15F-1 ¼	**1L185**
15	3.608	4	Tritan	60BS15H X 1 ¼	**36GD82**
16	3.845	4	Tsubaki	60B16F-1D	**20UG16**
18	4.319	5	Tsubaki	60B18F-1D	**20UG33**
18	4.319	5	Tritan	60BS18H X 1 ¼	**36GE02**
24	5.746	6	Tritan	60BS24H X 1 ¼	**36GE24**
24	5.746	6	Tsubaki	60B24F-1 ¼	**6G078**
25	5.984	6	Tritan	60BS25H X 1 ¼	**36GE27**
1 7/16 in Bore Diameter					
15	3.608	4	Tritan	60BS15H X 1 7/16	**36GD87**
18	4.319	5	Tritan	60BS18H X 1 7/16	**36GE05**
19	4.557	5	Tsubaki	60B19F-1G	**20UG41**
20	4.794	5	Tsubaki	60B20F-1G	**20UG49**
30	7.175	8	Tritan	60BS30H X 1 7/16	**36GE36**
1½ in Bore Diameter					
13	3.134	3	Tsubaki	60B13F-1 ½	**6G028** *
15	3.608	4	Tsubaki	60B15F-1H	**20UG09**
20	4.794	5	Tsubaki	60B20F-1 ½	**6G057**
22	5.27	6	Tritan	60BS22H X 1 ½	**36GE17**
28	6.698	7	Tritan	60BS28H X 1 ½	**36GE32**
30	7.175	8	Tritan	60BS30H X 1 ½	**36GE34**
1¾ in Bore Diameter					
15	3.608	4	Tsubaki	60B15F-1L	**20UG10** *
2 in Bore Diameter					
40	9.56	10	Tritan	60BS40 X 2	**36GE50**
Size 80					
1 in Bore Diameter					
12	3.864	4	Tritan	80BS12H X 1	**36GE59**
17	5.442	6	Tritan	80BS17H X 1	**55WD75**
22	7.027	8	Tritan	80BS22 X 1	**55WD91**
1¼ in Bore Diameter					
9	2.924	3	Tritan	80BS09H X 1 ¼	**36GE51**
12	3.864	4	Tritan	80BS12H X 1 ¼	**36GE61**
18	5.759	6	Tritan	80BS18H X 1 ¼	**36GE79**
20	6.392	7	Tritan	80BS20H X 1 ¼	**36GE84**
1½ in Bore Diameter					
12	3.864	4	Tritan	80BS12H X 1 ½	**36GE60**
13	4.179	5	Tritan	80BS13H X 1 ½	**36GE65**
14	4.494	5	Tritan	80BS14H X 1 ½	**36GE69**
15	4.81	5	Tritan	80BS15H X 1 ½	**36GE71**
18	5.759	6	Tritan	80BS18H X 1 ½	**36GE78**
20	6.392	7	Tritan	80BS20H X 1 ½	**36GE83**
1 15/16 in Bore Diameter					
30	9.567	10	Tritan	80BS30 X 1 15/16	**36GE92**
2 in Bore Diameter					
26	8.296	9	Tritan	80BS26 X 2	**36GE90**

**** Setscrew located 90° and 180° from keyway.***

Scan. Order. Done.
Details on page A1.

Quick Detachable 5XXY1

Split Taper 5PVA5

Taper Lock 5XXN1

TSUBAKI TRITAN

Bushed-Bore Roller Chain Sprockets

These bushed-bore roller chain sprockets work with a single strand of industry chain. They need a bushing to mount to the drive shaft and adapt the bore, or center hole, to the shaft size and are for use in high-power applications. **Quick Detachable** are flanged; a split through the entire unit eases installation/removal. **Split Taper** are flanged; double-split barrel provides more clamping force than quick-detachable or taper-lock bushings. **Taper Lock** have a split barrel to ease installation/removal. Non-flanged, mount flush with the pulley or sprocket, and take up less space.

No. of Teeth	Pitch Dia. (in.)	Outside Dia. (in.)	Req. Bushing Series	Brand	Mfr. Model	Item No.
Size 40						
Quick Detachable						
17	2.721	2.98	JA	Tsubaki	40JA17	**5XXY1** *
60	9.554	9.84	SDS	Tsubaki	40SDS60	**5XXZ9**
Split Taper						
35	5.578	5.855	P1	Tsubaki	40P35	**5PVA5**
Taper Lock						
14	2.247	2.491	1008	Tsubaki	40BTL14	**5XXN1** *
20	3.196	3.457	1610	Tsubaki	40BTL20	**5XXN7** *
30	4.783	5.057	1610	Tsubaki	40BTL30	**5XXP5**
Size 50						
Quick Detachable						
13	2.612	2.91	JA	Tsubaki	50JA13	**5XYA1**
15	3.006	3.32	JA	Tsubaki	50JA15	**5XYA3**
17	3.401	3.72	SH	Tsubaki	50SH17	**5XYA5**
20	3.995	4.32	SDS	Tsubaki	50SDS20	**5XYA8**
21	4.194	4.52	SDS	Tsubaki	50SDS21	**5XYA9**
45	8.96	9.31	SDS	Tsubaki	50SDS45	**5XYD1**
48	9.556	9.91	SDS	Tsubaki	50SDS48	**5XYD2**
60	11.942	12.3	SK	Tsubaki	50SK60	**5XYD3**
Split Taper						
19	3.798	4.12	P1	Tsubaki	50P19	**5PVC1**
20	3.995	4.321	P1	Tsubaki	50P20	**5PTX7**
24	4.788	5.122	P1	Tsubaki	50P24	**5PTX8**
Taper Lock						
15	3.006	3.315	1210	Tsubaki	50BTL15	**5XXR6** *
16	3.204	3.517	1610	Tsubaki	50BTL16	**5XXR7** *
17	3.401	3.719	1610	Tsubaki	50BTL17	**5XXR8** *
18	3.599	3.92	1610	Tsubaki	50BTL18	**5XXR9**
20	3.995	4.321	1610	Tsubaki	50BTL20	**5XXT1**
23	4.59	4.922	2012	Tsubaki	50BTL23	**5XXT4**
24	4.788	5.122	2012	Tsubaki	50BTL24	**5XXT5**
26	5.185	5.522	2012	Tsubaki	50BTL26	**5XXT7**
30	5.979	6.321	2012	Tsubaki	50BTL30	**5XXT9**
32	6.376	6.721	2012	Tsubaki	50BTL32	**5XXU0**
36	7.171	7.519	2012	Tsubaki	50BTL36	**5XXU2**
42	8.363	8.715	2012	Tsubaki	50BTL42	**20UE93**
45	8.96	9.313	2012	Tsubaki	50BTL45	**5XXU4**
60	11.942	12.301	2012	Tsubaki	50BTL60	**5XXU6**
Size 60						
Quick Detachable						
14	3.371	3.74	SH	Tsubaki	60SH14	**5XYD6**
17	4.082	4.46	SDS	Tsubaki	60SDS17	**5XYD9**
20	4.794	5.19	SDS	Tsubaki	60SDS20	**5XYE2**
32	7.652	8.07	SK	Tsubaki	60SK32	**5XYF1**
36	8.605	9.02	SK	Tsubaki	60SK36	**5XYF3**
45	10.752	11.18	SF	Tsubaki	60SF45	**5XYF5**
48	11.467	11.89	SF	Tsubaki	60SF48	**5XYF6**
60	14.331	14.76	SF	Tsubaki	60SF60	**5XYF7**
Split Taper						
13	3.134	3.493	P1	Tsubaki	60P13	**5PTY4**
20	4.794	5.185	Q1	Tsubaki	60Q20	**5PTY8**
60	14.33	14.761	Q1	Tsubaki	60Q60	**5PTZ5**
Taper Lock						
15	3.608	3.979	1610	Tsubaki	60BTL15	**5XXU8**
16	3.845	4.221	1610	Tsubaki	60BTL16	**5XXU9**
17	4.082	4.642	1610	Tsubaki	60BTL17	**5XXV0**
20	4.794	5.185	2012	Tsubaki	60BTL20	**5XXV3**
24	5.746	6.147	2012	Tsubaki	60BTL24	**5XXV7**
25	5.984	6.387	2012	Tsubaki	60BTL25	**5XXV8**
26	6.222	6.627	2012	Tsubaki	60BTL26	**5XXV9**
30	7.175	7.586	2012	Tsubaki	60BTL30	**5XXW1**
32	7.652	8.065	2012	Tsubaki	60BTL32	**5XXW2**
40	9.559	9.98	2012	Tsubaki	60BTL40	**5XXW5**
48	11.467	11.893	2012	Tsubaki	60BTL48	**5XXW7**
60	14.33	14.761	2517	Tsubaki	60BTL60	**5XXW8**
Size 80						
Quick Detachable						
13	4.179	4.66	SDS	Tritan	80SDS13H	**36GG08**
14	4.494	4.98	SDS	Tritan	80SDS14H	**36GG09**
15	4.81	5.3	SK	Tritan	80SK15H	**36GG18**
20	6.392	6.91	SF	Tritan	80SF20H	**36GG10**
23	7.344	7.88	SF	Tritan	80SF23H	**36GG12**
28	8.931	9.48	SF	Tritan	80SF28H	**36GG15**
Split Taper						
17	5.442	5.95	2012	Tritan	80BTL17H	**55WE18**
20	6.392	6.914	2517	Tritan	80BTL20H	**55WE21**

** Has recessed groove in hub for chain clearance.*

Type A 55VX39

Type B 5GVF2

TRITAN TSUBAKI

Plain-Bore Roller Chain Sprockets

- For more sprocket sizes, go to Grainger.com

These plain-bore roller chain sprockets work with a single strand of industry chain. They have a starting bore, or center hole, that can be machined to the correct size of the shaft. Keyways and/or setscrews can be machined to fit the needs of the shaft and application. **Type A** sprockets have no hub. **Type B** sprockets have one sided hub.

No. of Teeth	Pitch Dia.	Outside Dia.	Bore Dia.	Max. Bore Dia.	Brand	Mfr. Model	Item No.
Type A, Steel							
Size 25							
48	3.822 in	3.964 in	½ in	1 ⅜ in	Tritan	25A48 X ½	**55VX39**
Size 35							
24	2.873 in	3.07 in	½ in	1 ⅜ in	Tritan	35A24H X ½	**55VX69**
Size 40							
36	5.737 in	6.02 in	⅝ in	2 ¼ in	Tritan	40A36 X ⅝	**55VY49**
Size 60							
15	3.608 in	3.98 in	¾ in	1 ⅞ in	Tritan	60A15H X ¾	**55WC24**
Type B, Stainless Steel							
Size 35							
15	1.804 in	1.99 in	½ in	⅞ in	Tsubaki	35B15SS	**5GVF2**
40	4.78 in	4.99 in	⅝ in	1 ½ in	Tsubaki	35B40SS	**5GVG8**
Size 40							
22	3.513 in	3.78 in	⅝ in	1 ⅞ in	Tsubaki	40B22SS	**5GVJ2**
60	9.554 in	9.84 in	⅝ in	2 ⅜ in	Tsubaki	40B60SS	**5GVK2**
Size 60							
22	5.27 in	5.67 in	¾ in	2 ¾ in	Tsubaki	60B22SS	**5GVP4**
Type B, Steel							
Size 25							
20	1.598 in	1.729 in	¼ in	⅞ in	Tsubaki	25B20	**5WDW7**
Size 35							
8	0.98 in	1.13 in	⅜ in	⅜ in	Tsubaki	35B8	**5WDY2** *
Size 60							
15	3.608 in	3.98 in	¾ in	1 ⅞ in	Tsubaki	60B15	**5XXG2**
Size 80							
15	4.81 in	5.3 in	1 in	2 ½ in	Tsubaki	80B15	**5XXK3**
26	8.296 in	8.84 in	1 ⅜ in	3 ¼ in	Tsubaki	80B26	**5XXL4**
30	9.567 in	10.11 in	1 ⅜ in	3 ¼ in	Tsubaki	80B30	**5XXL8**

** Has recessed groove in hub for chain clearance.*

6AGN0

Fenner Drives PowerDrive SUPPLIER DIVERSITY TRITAN

Idler Sprockets

Engage with roller chains to maintain tension, change the direction of the chain, or position chains away from obstacles. **Fiberglass-Reinforced Nylon** sprockets are resistant to corrosive environments and are for drive systems that require washdown. **Steel** sprockets are durable and wear resistant. Required shafts for needle bearing models sold separately on page 117.

For Chain Number	No. of Teeth	Outside Dia.	Bore Dia.	Required Tightener Shaft	Brand*	Mfr. Model	Item No.
Fiberglass-Reinforced Nylon Construction, Ball Bearing Type							
40	17	2.98 in	17 mm	—	Fenner	CS4002†	**3ZP37**
50	15	3.34 in	17 mm	—	Fenner	CS5002†	**3ZP38**
60	13	3.52 in	17 mm	—	Fenner	CS6002†	**3ZP39**
Steel Construction, Ball Bearing Type							
40	17	2.96 in	⅝ in	—	Power	HB40A17X5/8	**6AGN0**
40	17	2.98 in	⅝ in	—	Tritan	40BB17H	**55VY59**
40	18	3.14 in	⅝ in	—	Tritan	40BB18H	**55VY60**
50	15	3.32 in	⅝ in	—	Power	HB50A15X5/8	**6AGN1**
50	15	3.32 in	⅝ in	—	Tritan	50BB15H	**55WA28**
50	17	3.72 in	⅝ in	—	Tritan	50BB17H	**55WA29**
60	13	3.49 in	⅝ in	—	Power	HB60A13X5/8	**6AGN2**
60	13	3.49 in	⅝ in	—	Tritan	60BB13H	**55WC43**
60	15	3.98 in	⅝ in	—	Tritan	60BB15H	**55WC44**
80	12	4.33 in	¾ in	—	Power	HB80A12X3/4	**6AGN3**
80	12	4.33 in	¾ in	—	Tritan	80BB12H	**55WD54**
Steel Construction, Needle Roller Bearing Type							
35	13	1.75 in	½ in	6AGL5	Power	HN35B13	**6AGN4**
40	19	3.28 in	1 in	6AGL6	Power	HN40B19	**6AGN5**
50	17	3.72 in	1 in	6AGL6	Power	HN50B17	**6AGN6**
60	17	4.46 in	1 in	6AGL6	Power	HN60B17	**6AGN7**
80	13	4.66 in	1 in	6AGL6	Power	HN80B13	**6AGN8**

** Fenner = Fenner Drives, Power = Power Drive. † Add /CB0004.*

Standard Keyway and Setscrew Machining Guide

Dia. of Shaft	Keyseat Width x Depth	Dia. of Setscrew †
5/16 - 7/16"	3/32 x 3/64"	#8-32"
½ - 9/16"	⅛ x 1/16"	#10-24"
⅝ - ⅞"	3/16 x 3/32"	¼"
15/16 - 1 ¼"	¼ x ⅛"	5/16"
1 5/16 - 1 3/8"	5/16 x 5/32"	5/16"
1 7/16 - 1 ¾"	⅜ x 3/16"	⅜"
1 13/16 - 2 ¼"	½ x ¼"	½"
2 5/16 - 2 ¾"	⅝ x 5/16"	⅝"
2 13/16 - 3 ¼"	¾ x ⅜"	¾"
3 5/16 - 3 ¾"	⅞ x 7/16"	¾"
3 13/16 - 4 ½"	1 x ½"	¾"
4 9/16 - 5 ½"	1 ¼ x ⅝"	¾"
5 9/16 - 6 ½"	1 ½ x ¾"	1"
6 9/16 - 7 ½"	1 ¾ x ⅞"	1"
7 9/16 - 8 15/16"	2 x 1"	1"
9 - 10 15/16"	2 ½ x 1 ¼"	1"

† Setscrew size may vary depending on hub wall thickness. As a general rule, the hub wall over the keyway should be equal to or greater than the dia. of the setscrew.
Note: Maximum bore guidelines should be adhered to in order to ensure maximum product quality standards.

PowerDrive Fenner Drives

V-Belt Idler Pulleys

These grooved V-belt idlers help to position belts away from obstacles and maintain consistent belt tension for proper performance of the drive system. They work with V-shaped belts of a compatible size. **Cast-Iron** pulleys are durable and wear resistant. **Fiberglass-Reinforced Nylon** pulleys are resistant to corrosive environments and are for drive systems that require washdown.

2ZRT6

For Belt Section	Bore Dia.	Outside Dia.	Shaft Required	Brand	Mfr. Model	Item No.
Cast Iron Construction, Needle Roller Bearing Type						
4L, 5L, A, B	½ in	2.5 in	6AGL5	Power Drive	NAK25	**6AGP4**
4L, 5L, A, B	½ in	3.05 in	6AGL5	Power Drive	NAK30	**6AGP5**
4L, 5L, A, B	1 in	4.96 in	6AGL6	Power Drive	NBK52	**6AGP8**
Fiberglass-Reinforced Nylon Construction, Ball Bearing Type						
A	17 mm	3 in	33Z811	Fenner Drives	VA3001	**2ZRT3**
A	17 mm	3.98 in	—	Fenner Drives	VA4001	**2ZRT5**
B	17 mm	3 in	—	Fenner Drives	VA3002	**2ZRT6**
B	17 mm	4 in	—	Fenner Drives	VA4002	**2ZRT7**
B	17 mm	5 in	33Z811	Fenner Drives	VA5001	**2ZRT4**

PowerDrive Fenner Drives

Flat Face Idler Pulleys

Idler pulleys can position belts away from obstacles and maintain consistent belt tension for proper performance of the drive system. They work with flat belts or the back side of V-belts or timing belts. Idlers must be matched with a compatible belt face width size. Durable **Cast-Iron** pulleys resist wear. **Fiberglass-Reinforced Nylon** models are for use in corrosive environments and for drive systems that need washdown.

2ZRT1

Face Width	Bore Dia.	Outside Dia.	Shaft Required	Brand	Mfr. Model	Item No.
Cast Iron Construction, Needle Roller Bearing Type						
0.563 in	½ in	1.75 in	6AGL5	Power Drive	N1D05F	**6AGP0**
1.063 in	1 in	4.375 in	6AGL6	Power Drive	N4D1F	**6AGP2**
2.063 in	1 in	4.375 in	6AGL7	Power Drive	N4D2F	**6AGP3**
Fiberglass-Reinforced Nylon Construction, Ball Bearing Type						
0.77 in	17 mm	3.5 in	—	Fenner Drives	FA3501	**2ZRT1**
1.02 in	17 mm	5.56 in	—	Fenner Drives	FA5501	**2ZRT2**

PowerDrive

Timing Belt Idler Pulleys

Idlers can maintain consistent timing belt tension, position belts away from obstacles, and reduce vibration and wear on the belt. They prevent belt slippage and ensure proper performance of the drive system. Idlers are for use with drive tighteners and tightener shafts, sold separately on this page.

6AGN9

Pitch	For Belt Trade Size	No. of Teeth	Outside Dia.	Bore Dia.	Shaft Req.	Mfr. Model	Item No.
⅜ in	L	22	2.6 in	1 in	6AGL6	N22L100	**6AGP1**
½ in	H	16	2.5 in	1 in	6AGL6	N16H100	**6AGN9**

Fenner Drives

Linear Chain Tensioners

Used to help maintain tension in drive systems with chains that move over long distances. They have a durable, self-lubricating UHMW (ultra-high molecular weight) polyethylene head that engages with a compatible chain number. A built-in spring absorbs momentary overload and vibration to reduce chain wear.

Large Arch 19RU06

Small Arch 19RU12

For Chain Number	Tension Force	LARGE ARCH UHMW HEAD Mfr. Model	Item No.	SMALL ARCH UHMW HEAD Mfr. Model	Item No.
35	15 lbf to 40 lbf	CT1101	**19RU06**	CT1201	**19RU12**
40	15 lbf to 40 lbf	CT1102	**19RU07**	CT1202	**19RU13**
50	20 lbf to 60 lbf	CT2101	**19RU08**	CT2201	**19RU14**
60	20 lbf to 60 lbf	CT2102	**19RU09**	CT2202	**19RU15**
80	45 lbf to 100 lbf	CT3101	**19RU10**	CT3201	**19RU16**
100	45 lbf to 100 lbf	CT3102	**19RU11**	CT3202	**19RU17**

6AGK9

6AGL9

6AGL5

PowerDrive

Drive Tighteners and Shafts

Drive Tighteners provide controlled tensioning in drives to eliminate shock loading through excessive chain vibration and horsepower loss through belt slippage. **Tightener Shafts** are hardened and ground for maximum life. Use with idlers and drive tighteners. Include set collar and grease fitting.

Description	Use With V-Belt Idler Pulley	Use With Idler Sprocket	Use With Flat Face Idler	Use with Timing Belt Pulley Idler	Tightener Shaft Req.	Mfr. Model	Item No.
Drive Tighteners							
Adjusting Tightener	6AGP4 6AGP5	6AGN4	6AGP0	—	Included	ATN1	**6AGK9**
	6AGP6 6AGP7 6AGP8	6AGN5 to 6AGN8	6AGP2 6AGP3	6AGN9 6AGP1	6AGL6	ATQ	**6AGL0**
	6AGP6 6AGP7 6AGP8	6AGN5 to 6AGN8	6AGP2 6AGP3	6AGN9 6AGP1	6AGL6	SATQ	**6AGL9**

Overall Length	Shaft Dia.	Shaft Length	Mfr. Model	Item No.
Tightener Shafts				
2 5⁄16 in	½ in	1 ½ in	N1	**6AGL5**
3 ⅜ in	1 in	2 ⅛ in	N2	**6AGL6**

Self-Adjusting V-Belt Tensioner 2ZRT8

Self-Adjusting Chain Tensioner 2ZRU1

Fenner Drives

Self-Adjusting V-Belt Tensioners and Self-Adjusting Chain Tensioners

Mounting Bracket 16A171

Spring-loaded to maintain correct tension on belt and chain drives without requiring manual retensioning. Models having **Accurately Wound Compression Springs** provide a constant retensioning force. **Torsional Wrapped Spring** models feature a reversible spring for bidirectional use.

For V-Belt Size	Tension Force	Pulley Outside Diameter	Arm Rotation	Mfr. Model	Item No.
Tensioner for V-Belt Size					
Accurately Wound Compression Springs					
A	0 lbf to 30 lbf	3 in	45 °	FS0127	**2ZRT8**
B	0 lbf to 30 lbf	5 3⁄64 in	45 °	FS0209	**16A169**
B	0 lbf to 42 lbf	4 in	70 °	FS0608	**16A170**
Torsional Wrapped Spring					
B	0 lbf to 42 lbf	5 in	70 °	FS0566	**2ZRT9**

For Chain Number	Tension Force	Sprocket Outside Diameter	Arm Rotation	Mfr. Model	Item No.
Tensioner for ANSI Chain Size					
Accurately Wound Compression Springs					
35	0 lbf to 30 lbf	2.48 in	45 °	FS0072	**2ZRU1**
40	0 lbf to 30 lbf	2.98 in	45 °	FS0071	**2ZRU2**
Torsional Wrapped Spring					
50	0 lbf to 42 lbf	3.34 in	70 °	FS0567	**2ZRU4**
60	0 lbf to 42 lbf	3.52 in	70 °	FS0568	**2ZRU3**

Description	Mfr. Model	Item No.
Mounting Bracket		
Compatible with NEMA 48, 56, and 143T Designs	B1265	**16A171**

Scan. Order. Done.
Details on page A1.

Complete Coupling Assembly

Coupling Sprocket

Coupling Chain

Coupling Cover (½ Shown)

PowerDrive

Chain Couplings

- Operating temp.: -25° to 150°F
- Max. parallel misalignment: 0.005"
- Hub material: steel

Complete unit consists of two steel coupling sprockets, double-strand roller chain, and coupling cover. Split-taper bushings required for 50 and 60 pitch couplings, see page 112. **Coupling Chains** are double stranded, steel roller chains which join two compatible chain coupling sprockets together. **Chain Coupling Covers** are cast-aluminum with seals, grease fitting, and hardware for installation.

Chain No.	Bore Dia. (in)	HP @ 100 RPM	Bushing Req.	COUPLING SPROCKETS (2 REQUIRED)* Item No.	COUPLING CHAIN (1 REQUIRED) Item No.	COUPLING COVER (OPTIONAL) Item No.
Round Keyed Bore*						
40	1 in	4.14	—	6AGR4	6AGR2	6AGP9
40	1 ⅛ in	4.14	—	6AGR5	6AGR2	6AGP9
40	¾ in	4.14	—	6AGR6	6AGR2	6AGP9
40	⅝ in	4.14	—	6AGR7	6AGR2	6AGP9
40	⅞ in	4.14	—	6AGR8	6AGR2	6AGP9
40	1 ¼ in	4.14	—	6AGR3	6AGR2	6AGP9
Bushed Bore						
50	½ - 1½	7.86	QT or H	6AGT0	6AGR9	6AGR0
60	½ - 2 1/16	13.48	B	6AGT2	6AGT1	6AGR1

** Sprockets also work with Delrin coupling chain, this page.*

Cut-to-Length 6AGT3

PowerDrive

Coupling Chains

- Operating temp.: -25° to 150°F
- Max. parallel misalignment: 0.005"

Double stranded construction and used to join two compatible chain coupling sprockets together. Complete coupling consists of 2 sprockets (sold separately) and one coupling chain. **Delrin** resist corrosion; use with stainless steel sprockets for washdown applications. 6AGT4 to 6AGT6 include a slip-fit coupler pin.

Chain No.	Pitch	No. of Links	Dimensions (in) L	Dimensions (in) W	Item No.
Delrin Chain					
40	½	12	6	1.25	6AGT4
40	½	16	8	1.25	6AGT5
40	½	24	12	1.25	6AGT6
Delrin Chain, Cut-to-Length					
40	½	240	120	1.25	6AGT3
Steel Chain					
40	½	16	8	1.25	6AGR2
50	⅝	16	10	1.25	6AGR9
60	¾	20	15	1.25	6AGT1

Set Screw Shaft Collars

CLIMAX METAL PRODUCTS COMPANY — Dayton

Ideal for use on soft or predrilled shafts. **Carbon Steel** feature high strength, machinability, and resistance to heat and impacts. **Stainless Steel** have high strength, corrosion resistance, and hardness for high-load applications. **6061 Aluminum** are durable, lightweight, corrosion-resistant, nonmagnetic, and nonsparking. **Acetal Plastic** are lightweight and feature excellent corrosion, moisture, and chemical resistance.

Zinc Plated Steel

Black Oxide Steel

Stainless Steel

Plastic

Bore Dia. (in)	Outside Dia. (in)	Width (in)	1045 CS, Zinc Plated - Dayton Item No.	Pkg. Qty.	1211 CS, Zinc Plated - Climax Metal Products Item No.	Pkg. Qty.	1211 CS, Black Oxide - Climax Metal Products Item No.	Pkg. Qty.
Carbon Steel								
⅛	⅜	¼	1F538	100	—	—	—	—
3/16	7/16	¼	1L626	3	—	—	—	—
	7/16	¼	1F536	100	—	—	—	—
¼	½	5/16	2X735	3	36WX95	1	—	—
	½	5/16	1F520	100	—	—	—	—
5/16	⅝	5/16	2X736	3	36WX98	1	—	—
	⅝	5/16	1F516	100	—	—	—	—
⅜	¾	⅜	2X737	3	36WY02	1	—	—
	¾	⅜	1F512	100	—	—	—	—
7/16	⅞	7/16	1L627	3	—	—	—	—
	⅞	7/16	1F508	100	—	—	—	—
½	1	7/16	1F506	100	36WY08	1	36WY10	1
	1	7/16	2X568	3	—	—	—	—
9/16	1	7/16	3ZN88	3	—	—	—	—
⅝	1⅛	½	1F502	100	36WY11	1	36WY13	1
	1⅛	½	2X569	3	—	—	—	—
11/16	1¼	9/16	3ZN89	3	—	—	—	—
¾	1¼	9/16	1F498	100	36WY14	1	36WY16	1
	1¼	9/16	2X570	3	—	—	29NW79	100
13/16	1¼	½	3ZN90	3	—	—	—	—
⅞	1½	9/16	2X738	3	36WY17	1	—	—
	1½	9/16	1F494	100	—	—	—	—
15/16	1⅝	⅝	3ZN91	3	—	—	—	—
1	1½	⅝	—	—	36WY23	1	36WY25	1
	1⅝	⅝	2X571	3	—	—	—	—
	1⅝	⅝	1F490	100	—	—	—	—
1 1/16	1¾	½	3ZN92	1	—	—	—	—
1⅛	1¾	⅝	2X739	1	—	—	—	—
1 3/16	2	11/16	5X643	1	—	—	—	—
1¼	2	11/16	2X740	1	29NY70	1	29NW89	1
1 5/16	2⅛	11/16	1L628	1	—	—	—	—
1⅜	2⅛	¾	5X644	1	—	—	—	—
1 7/16	2¼	¾	5X645	1	—	—	29NW92	1
1½	2¼	¾	4X228	1	—	—	29NW93	1
1 9/16	2½	13/16	3ZN81	1	—	—	—	—
1⅝	2½	13/16	1L629	1	—	—	—	—
1 11/16	2½	13/16	5X646	1	29NY76	1	—	—
1¾	2¾	⅞	4X229	1	—	—	—	—
1⅞	2¾	⅞	4X230	1	—	—	—	—
1 15/16	3	⅞	4X231	1	29NY79	1	—	—
2	3	⅞	4X232	1	29NY80	1	29NW99	1
2⅛	3	⅞	—	—	29NY81	1	—	—
2¼	3¼	15/16	3ZN83	1	—	—	—	—
2⅜	3¼	15/16	—	—	36WY42	1	—	—
2 7/16	3½	¾	3ZN84	1	—	—	—	—
2½	3½	⅞	3ZN85	1	—	—	—	—
2 15/16	4	⅞	3ZN86	1	—	—	—	—
3	4¼	1⅛	3ZN87	1	—	—	—	—

Bore Dia. (in)	Outside Dia. (in)	Width (in)	303 SS - Climax Metal Products Item No.	Pkg. Qty.	304 SS - Dayton Item No.	Pkg. Qty.	316 SS - Climax Metal Products Item No.	Pkg. Qty.
Stainless Steel								
1/16	¼	3/16	—	—	—	—	36WY58	1
3/32	⅜	3/16	—	—	—	—	36WY59	1
⅛	⅜	¼	29NW39	1	1L630	1	36WY60	1
3/16	7/16	¼	29NW40	1	1L631	1	36WY61	1
	7/16	¼	—	—	—	—	36WY62	1
¼	½	5/16	29NW41	1	1L632	1	36WY63	1
5/16	⅝	5/16	29NW42	1	1L633	1	36WY64	1
⅜	¾	⅜	29NW43	1	1L634	1	36WY65	1
7/16	⅞	7/16	29NW44	1	1L635	1	36WY66	1
½	1	7/16	29NW45	1	1L636	1	36WY67	1
⅝	1⅛	½	29NW46	1	1L637	1	36WY68	1
¾	1¼	9/16	29NW47	1	1L638	1	36WY69	1
⅞	1½	9/16	29NW48	1	1L639	1	—	—
15/16	1½	9/16	29NY28	1	—	—	—	—
1	1½	⅝	29NW49	1	—	—	36WY70	1
	1⅝	⅝	—	—	1L640	1	—	—
1⅛	1¾	⅝	29NW50	1	1L641	1	—	—
1 3/16	2	11/16	29NW51	1	1L642	1	—	—
1¼	2	11/16	29NW52	1	1L643	1	36WY71	1
1 5/16	2⅛	11/16	29NW53	1	1L644	1	—	—
1⅜	2⅛	¾	29NW54	1	1L645	1	—	—
1 7/16	2¼	¾	29NW55	1	1L646	1	—	—
1½	2¼	¾	29NW56	1	1L647	1	—	—
1⅝	2½	13/16	29NW57	1	1L648	1	—	—
1 11/16	2½	13/16	29NW58	1	1L649	1	—	—
1¾	2⅝	⅞	29NW59	1	—	—	—	—
	2¾	⅞	—	—	1L650	1	—	—
1⅞	2¾	⅞	29NW60	1	—	—	—	—
1 15/16	3	⅞	29NW61	1	1L652	1	—	—
2	3	⅞	29NW62	1	1L653	1	—	—
2⅛	3	⅞	29NY29	1	—	—	—	—
2 3/16	3¼	15/16	29NY30	1	—	—	—	—
2¼	3¼	15/16	29NY31	1	—	—	—	—
2⅜	3¼	15/16	36WY46	1	—	—	—	—
2 7/16	3½	1	29NY32	1	—	—	—	—
2½	3½	1	29NY33	1	—	—	—	—
2 11/16	4	1⅛	29NY34	1	—	—	—	—
2¾	4	1⅛	29NY35	1	—	—	—	—
2⅞	4	1⅛	29NY36	1	—	—	—	—
2 15/16	4	1⅛	29NY37	1	—	—	—	—
3	4	1⅛	29NY38	1	—	—	—	—

Bore Dia. (in)	Outside Dia. (in)	Width (in)	Pkg. Qty.	Item No.
6061 Aluminum - Climax Metal Products				
3/16	7/16	¼	1	36WX93
½	1	7/16	1	36WY09
2	3	⅞	1	36WY38

Bore Dia. (in)	Outside Dia. (in)	Width (in)	Pkg. Qty.	Item No.
Acetal Plastic - Dayton				
½	1	7/16	1	1F504
¾	1¼	9/16	1	1F496
1	1⅝	⅝	1	1F488

Dayton | CLIMAX Metal Products Company | RULAND Carefully Made Shaft Collars and Couplings

One-Piece Shaft Collars

Designed to slide over the end of a soft or hard shaft and lock in place without marring. They act as motion stops and positively locate pulleys, bearings, and sprockets. **Black Oxide Steel** feature machinability, high strength, and resist heat and impacts. Collars with **Recessed-Screw** have a clamping screw that rests below the outer surface of the collar when installed, reducing risk of snagging loose clothing, gloves, or equipment. **Stainless Steel** feature corrosion resistance, high strength, and hardness for high-load applications. **Aluminum** are durable, lightweight, corrosion-resistant, nonmagnetic, and nonsparking. **Titanium** provide high strength, excellent corrosion resistance, and very low weight. **Acetal Plastic** are lightweight and feature excellent corrosion, moisture, and chemical resistance.

Bore Dia.	Collar Outside Dia.	Clearance Dia.	Collar Width	Item No.
1045 Black Oxide Steel - Dayton				
3/16 in	5/8 in	0.7 in	5/16 in	**1L655**
1/4 in	11/16 in	0.74 in	5/16 in	**1L656**
5/16 in	11/16 in	0.75 in	5/16 in	**1L657**
3/8 in	7/8 in	0.95 in	11/32 in	**1L658**
1/2 in	1 1/8 in	1.22 in	13/32 in	**1L660**
5/8 in	1 5/16 in	1.46 in	7/16 in	**1L661**
3/4 in	1 1/2 in	1.63 in	1/2 in	**1L662**
7/8 in	1 5/8 in	1.75 in	1/2 in	**1L663**
1 in	1 3/4 in	1.88 in	1/2 in	**1L664**
1 1/8 in	1 7/8 in	2.01 in	1/2 in	**1L665**
1 1/4 in	2 1/16 in	2.16 in	1/2 in	**1L666**
1 3/8 in	2 1/4 in	2.28 in	9/16 in	**1L667**
1 1/2 in	2 3/8 in	2.47 in	9/16 in	**1L668**
1 5/8 in	2 5/8 in	2.67 in	11/16 in	**1L669**
1 3/4 in	2 3/4 in	2.8 in	11/16 in	**1L670**
1 7/16 in	2 1/4 in	2.28 in	9/16 in	**3ZN93**
1 3/16 in	2 1/16 in	2.16 in	1/2 in	**3ZP02**
1 15/16 in	3 in	3.07 in	11/16 in	**3ZN95**
2 in	3 in	3.07 in	11/16 in	**1L672**
2 1/4 in	3 1/4 in	3.3 in	3/4 in	**3ZN96**
2 1/2 in	3 3/4 in	3.82 in	7/8 in	**3ZN98**
2 15/16 in	4 1/4 in	4.3 in	7/8 in	**3ZN99**
3 in	4 1/4 in	4.3 in	7/8 in	**3ZP01**
1211 Black Oxide Steel - Climax Metal Products				
1/4 in	11/16 in	0.88 in	5/16 in	**29NW06**
3/8 in	7/8 in	1.06 in	3/8 in	**29NW08**
1/2 in	1 1/8 in	1.38 in	7/16 in	**29NW10**
5/8 in	1 5/16 in	1.56 in	7/16 in	**29NW11**
3/4 in	1 1/2 in	1.81 in	1/2 in	**29NW12**
1 in	1 3/4 in	2.06 in	1/2 in	**29NW15**
1 1/4 in	2 1/16 in	2.31 in	1/2 in	**29NW18**
1 1/2 in	2 3/8 in	2.63 in	9/16 in	**29NW22**
2 in	3 in	3.31 in	11/16 in	**29NW28**
2 3/16 in	3 1/4 in	3.5 in	3/4 in	**29NW30**
2 1/4 in	3 1/4 in	3.5 in	3/4 in	**29NW31**
2 3/4 in	4 in	4.31 in	7/8 in	**29NW35**
1215 Black Oxide Steel - Ruland Manufacturing				
5/16 in	11/16 in	0.84 in	9/32 in	**2AKX1**
1/2 in	1 1/8 in	1.28 in	13/32 in	**2AKZ1**
3/4 in	1 1/2 in	1.81 in	1/2 in	**2AKG5**
1 in	1 3/4 in	2.03 in	1/2 in	**2AKH8**
1 1/4 in	2 1/16 in	2.3 in	1/2 in	**2AKK2**
1 7/16 in	2 1/4 in	2.47 in	9/16 in	**2AKL2**
1 1/2 in	2 3/8 in	2.58 in	9/16 in	**2AKL5**
1 3/4 in	2 3/4 in	3.05 in	11/16 in	**2AUV5**
2 in	3 in	3.27 in	11/16 in	**2AKP5**
2 3/16 in	3 1/4 in	3.5 in	3/4 in	**2AKR5**
2 11/16 in	4 in	4.27 in	7/8 in	**2ARF5**
3 in	4 1/4 in	4.5 in	7/8 in	**2AKV9**
5 mm	16 mm	20.8 mm	9 mm	**2ALW2**
8 mm	18 mm	22.4 mm	9 mm	**2AMB8**
10 mm	24 mm	26.3 mm	9 mm	**2ALA4**
12 mm	28 mm	32 mm	11 mm	**2ALB7**
15 mm	34 mm	39.3 mm	13 mm	**2ALD7**
20 mm	40 mm	47.4 mm	15 mm	**2ALH1**
25 mm	45 mm	52.1 mm	15 mm	**2ALL4**
30 mm	54 mm	59.2 mm	15 mm	**2AUW4**
40 mm	60 mm	65.6 mm	15 mm	**2ALT1**
50 mm	78 mm	84.7 mm	19 mm	**2ALV1**
60 mm	88 mm	94 mm	19 mm	**2ALW6**

Bore Dia.	Collar Outside Dia.	Clearance Dia.	Collar Width	Item No.
1211 Black Oxide Steel, Recessed-Screw - Climax Metal Products				
1/4 in	13/16 in	0.69 in	1/4 in	**36WY76**
5/8 in	1 1/2 in	1.5 in	13/32 in	**36WY86**
3/4 in	1 3/4 in	1.75 in	1/2 in	**36WY88**
3 1/4 in	4 1/2 in	4.69 in	7/8 in	**29NY23**
3 7/16 in	4 3/4 in	4.94 in	7/8 in	**29NY24**
3 1/2 in	4 3/4 in	4.94 in	7/8 in	**29NY25**
4 in	5 1/4 in	5.44 in	7/8 in	**29NY27**
303 Stainless Steel - Climax Metal Products				
1/4 in	11/16 in	0.88 in	5/16 in	**29NV70**
3/8 in	7/8 in	1.06 in	3/8 in	**29NV72**
1/2 in	1 1/8 in	1.38 in	7/16 in	**29NV74**
5/8 in	1 5/16 in	1.56 in	7/16 in	**29NV75**
1 in	1 3/4 in	2.06 in	1/2 in	**29NV79**
1 3/16 in	2 3/16 in	2.31 in	1/2 in	**29NV81**
1 1/4 in	2 3/16 in	2.31 in	1/2 in	**29NV82**
1 7/8 in	2 7/8 in	3.19 in	11/16 in	**29NV90**
303 Stainless Steel - Ruland Manufacturing				
1/4 in	5/8 in	0.77 in	9/32 in	**2AKW6**
5/16 in	11/16 in	0.84 in	9/32 in	**2AKX3**
3/8 in	7/8 in	1.03 in	11/32 in	**2AKX9**
1/2 in	1 1/8 in	1.28 in	13/32 in	**2AKZ3**
9/16 in	1 1/4 in	1.45 in	7/16 in	**2AKZ9**
5/8 in	1 5/16 in	1.5 in	7/16 in	**2AKF9**
3/4 in	1 1/2 in	1.81 in	1/2 in	**2AKG6**
1 in	1 3/4 in	2.03 in	1/2 in	**2AKH9**
1 1/8 in	1 7/8 in	2.14 in	1/2 in	**2AKJ6**
1 3/16 in	2 1/16 in	2.3 in	1/2 in	**2AKJ9**
1 7/16 in	2 1/4 in	2.47 in	9/16 in	**2AKL3**
1 1/2 in	2 3/8 in	2.58 in	9/16 in	**2AKL6**
1 7/8 in	2 7/8 in	3.16 in	11/16 in	**2AKN9**
1 5/8 in	2 5/8 in	2.94 in	11/16 in	**2AUU9**
1 11/16 in	2 3/4 in	3.05 in	11/16 in	**2AUV3**
2 in	3 in	3.27 in	11/16 in	**2AKP6**
2 1/4 in	3 1/4 in	3.5 in	3/4 in	**2AKR9**
10 mm	24 mm	26.3 mm	9 mm	**2ALA6**
12 mm	28 mm	32 mm	11 mm	**2ALB9**
14 mm	30 mm	33.7 mm	11 mm	**2ALD3**
15 mm	34 mm	39.3 mm	13 mm	**2ALD9**
16 mm	34 mm	39.3 mm	13 mm	**2ALE6**
20 mm	40 mm	47.4 mm	15 mm	**2ALH3**
22 mm	42 mm	49.5 mm	15 mm	**2ALJ6**
25 mm	45 mm	52.1 mm	15 mm	**2ALL6**
30 mm	54 mm	59.2 mm	15 mm	**2AUW6**
40 mm	60 mm	65.6 mm	15 mm	**2ALT3**

Bore Dia.	Collar Outside Dia.	Clearance Dia.	Collar Width	Item No.
304 Stainless Steel - Dayton				
1/4 in	11/16 in	0.74 in	5/16 in	**1L675**
5/16 in	11/16 in	0.75 in	5/16 in	**1L676**
3/8 in	7/8 in	0.95 in	11/32 in	**1L677**
7/16 in	15/16 in	1 in	3/8 in	**1L678**
1/2 in	1 1/8 in	1.22 in	13/32 in	**1L679**
5/8 in	1 5/16 in	1.46 in	7/16 in	**1L680**
3/4 in	1 1/2 in	1.63 in	1/2 in	**1L681**
7/8 in	1 5/8 in	1.75 in	1/2 in	**1L682**
1 in	1 3/4 in	1.88 in	1/2 in	**1L683**
1 1/4 in	2 1/16 in	2.16 in	1/2 in	**1L685**
1 3/8 in	2 1/4 in	2.28 in	9/16 in	**1L686**
1 1/2 in	2 3/8 in	2.47 in	9/16 in	**1L687**
1 3/4 in	2 3/4 in	2.8 in	11/16 in	**1L689**
2 in	3 in	3.07 in	11/16 in	**1L691**
316 Stainless Steel - Ruland Manufacturing				
3/8 in	7/8 in	1.03 in	11/32 in	**30VK64**
1/2 in	1 1/8 in	1.28 in	13/32 in	**30VK67**
7/8 in	1 5/8 in	1.92 in	1/2 in	**30VK37**
1 in	1 3/4 in	2.03 in	1/2 in	**30VK39**
2024 Aluminum - Ruland Manufacturing				
1/4 in	5/8 in	0.77 in	9/32 in	**2AKW2**
3/8 in	7/8 in	1.03 in	11/32 in	**2AKX5**
1/2 in	1 1/8 in	1.28 in	13/32 in	**2AKY8**
3/4 in	1 1/2 in	1.81 in	1/2 in	**2AKG4**
1 in	1 3/4 in	2.03 in	1/2 in	**2AKH7**
1 7/16 in	2 1/4 in	2.47 in	9/16 in	**2AKL1**
20 mm	40 mm	47.4 mm	15 mm	**2ALG8**
6061 Aluminum - Climax Metal Products				
3/4 in	1 1/2 in	1.88 in	1/2 in	**36WX72**
1 in	1 3/4 in	2.06 in	1/2 in	**36WX75**
2 in	3 in	3.31 in	11/16 in	**36WX88**
Grade 5 Titanium - Ruland Manufacturing				
3/8 in	24 mm	26.3 mm	9 mm	**805DG0**
1/2 in	30 mm	33.7 mm	11 mm	**805DJ3**
5/8 in	34 mm	39.3 mm	13 mm	**805CN4**
3/4 in	40 mm	47.4 mm	15 mm	**805CR2**
1 in	45 mm	52.1 mm	15 mm	**805CV5**
Acetal Plastic - Ruland Manufacturing				
5 mm	16 mm	20.8 mm	9 mm	**30VL16**
16 mm	34 mm	39.3 mm	13 mm	**30VK84**
20 mm	40 mm	47.4 mm	15 mm	**30VK86**

Bore Thread Size	Collar Outside Dia.	Clearance Dia.	Collar Width	Carbon Steel, Left Hand Thread Item No.	Carbon Steel, Right Hand Thread Item No.	Stainless Steel, Left Hand Thread Item No.	Stainless Steel, Right Hand Thread Item No.
One-Piece Standard Threaded Shaft Collars							
5/16"-18	11/16 in	0.84 in	9/32 in	**805H92**	**2ALC9**	**805H93**	**2ALD2**
3/8"-16	7/8 in	1.03 in	11/32 in	**805H96**	**2ALD8**	**805H97**	**2ALE1**
1/2"-13	1 1/8 in	1.28 in	13/32 in	**805HA4**	**2ALF6**	**805HA5**	**2ALF8**
1/2"-20	1 1/8 in	1.28 in	13/32 in	**805HA6**	**2ALG1**	**510M14**	**2ALG3**
5/8"-11	1 5/16 in	1.5 in	7/16 in	**805H42**	**2ADC8**	**805H43**	**2ADD2**
5/8"-18	1 5/16 in	1.5 in	7/16 in	**805H44**	**2ADD5**	**805H45**	**2ADD8**
3/4"-10	1 1/2 in	1.81 in	1/2 in	**805H46**	**2ADE2**	**805H47**	**2ADE5**
3/4"-16	1 1/2 in	1.81 in	1/2 in	**805H48**	**2AKW3**	**805H49**	**2AKW5**
7/8"-9	1 5/8 in	1.92 in	1/2 in	**805H52**	**2AKX2**	**805H53**	**2AKX4**
1"-14	1 3/4 in	2.03 in	1/2 in	**805H56**	**2AKY1**	**805H57**	**2AKY3**
1"-8	1 3/4 in	2.03 in	1/2 in	**805H58**	**2AKY5**	**805H59**	**2AKY7**
1 1/8"-12	1 7/8 in	2.14 in	1/2 in	**805H60**	**2AKY9**	**805H61**	**2AKZ2**
1 1/4"-12	2 1/16 in	2.3 in	1/2 in	**805H64**	**2AKZ4**	**805H65**	**2AKZ6**
1 1/2"-12	2 3/8 in	2.58 in	9/16 in	**805H74**	**2ALA7**	**805H75**	**2ALA9**
Two-Piece Standard Threaded Shaft Collars							
3/8"-16	7/8 in	1.03 in	11/32 in	**805HH1**	**30VU43**	**805HH2**	**30VU44**
7/16"-20	15/16 in	1.08 in	11/32 in	**805HH7**	**30VU49**	**805HH8**	**30VU50**
5/8"-18	1 5/16 in	1.5 in	7/16 in	**805HA9**	**30VT90**	**805HC0**	**30VT91**
1"-14	1 3/4 in	2.03 in	1/2 in	**805HD1**	**30VU03**	**805HD2**	**30VU04**
1"-8	1 3/4 in	2.03 in	1/2 in	**805HD3**	**30VU05**	**805HD4**	**30VU06**
1 1/8"-12	1 7/8 in	2.14 in	1/2 in	**805HD5**	**30VU07**	**805HD6**	**30VU08**
1 1/2"-6	2 3/8 in	2.58 in	9/16 in	**805HF1**	**30VU23**	**805HF2**	**30VU24**

One-Piece

Two-Piece

RULAND Carefully Made Shaft Collars and Couplings

Standard Threaded Shaft Collars

Have internal treads that allow precise adjustments, smooth installation, and increased holding power along the length of a threaded soft or hard shaft. Suitable for use as positive limit stops in repeated operations. **One-Piece** thread onto a shaft and lock in place without marring. For use on standard threaded shafts. **Two-Piece** separate fully and install around a standard threaded without marring or disassembly of equipment. **Carbon Steel** material resists wear; durable in applications where corrosion is not a concern. **Stainless Steel** resists corrosion when exposed to harsh or damp environments.

Note: Additional sizes of Ruland and Acme threaded shaft collars are available on Grainger.com.

Scan. Order. Done.
Details on page A1.

Two-Piece Shaft Collars

Design allows collars to separate fully and install around hard or soft shafts without marring or disassembly of equipment. **Black Oxide Steel** are wear resistant and durable in applications where corrosion is not a concern. **Recessed-Screw** feature a clamping screw that rests below the outer surface of the collar when installed, reducing risk of snagging equipment, gloves, or loose clothing. **Stainless Steel** provide corrosion resistance and hardness for high-load applications. **Aluminum** are durable, lightweight, corrosion-resistant, nonmagnetic, and nonsparking. **Grade 5 Titanium** feature high strength, excellent corrosion resistance, and very low weight. **Acetal Plastic** have excellent corrosion, moisture, chemical resistance, and are lightweight.

Bore Dia.	Collar Outside Dia.	Clearance Dia.	Collar Width	Item No.
1045 Black Oxide Steel - Dayton				
1/8 in	1/2 in	0.62 in	1/4 in	**1L692**
3/16 in	5/8 in	0.7 in	5/16 in	**1L693**
1/4 in	11/16 in	0.76 in	5/16 in	**1L694**
5/16 in	11/16 in	0.77 in	5/16 in	**1L695**
3/8 in	7/8 in	0.95 in	11/32 in	**1L696**
7/16 in	15/16 in	0.97 in	3/8 in	**1L697**
1/2 in	1 1/8 in	1.2 in	13/32 in	**1L698**
5/8 in	1 5/16 in	1.4 in	7/16 in	**1L699**
3/4 in	1 1/2 in	1.61 in	1/2 in	**1L700**
7/8 in	1 5/8 in	1.75 in	1/2 in	**1L701**
1 in	1 3/4 in	1.83 in	1/2 in	**1L702**
1 1/8 in	1 7/8 in	2.05 in	1/2 in	**1L703**
1 3/16 in	2 1/16 in	2.16 in	1/2 in	**3ZN80**
1 1/4 in	2 1/16 in	2.19 in	1/2 in	**1L704**
1 3/8 in	2 1/4 in	2.31 in	9/16 in	**1L705**
1 7/16 in	2 1/4 in	2.32 in	9/16 in	**3ZN72**
1 1/2 in	2 3/8 in	2.48 in	9/16 in	**1L706**
1 5/8 in	2 5/8 in	2.76 in	11/16 in	**1L707**
1 11/16 in	2 3/4 in	2.76 in	11/16 in	**3ZN73**
1 3/4 in	2 3/4 in	2.9 in	11/16 in	**1L708**
1 7/8 in	2 7/8 in	3 in	11/16 in	**1L709**
1 15/16 in	3 in	3.15 in	11/16 in	**3ZN74**
2 in	3 in	3.15 in	11/16 in	**1L710**
2 1/4 in	3 1/4 in	3.35 in	3/4 in	**3ZN75**
2 7/16 in	3 1/2 in	3.62 in	3/4 in	**3ZN76**
2 1/2 in	3 3/4 in	3.8 in	7/8 in	**3ZN77**
2 15/16 in	4 1/4 in	4.34 in	7/8 in	**3ZN78**
3 in	4 1/4 in	4.34 in	7/8 in	**3ZN79**
1215 Black Oxide Steel - Ruland*				
1/4 in	5/8 in	0.77 in	9/32 in	**2ACT5**
5/16 in	11/16 in	0.84 in	9/32 in	**2ACW6**
3/8 in	7/8 in	1.03 in	11/32 in	**2ACZ3**
7/16 in	15/16 in	1.08 in	11/32 in	**2ADA3**
1/2 in	1 1/8 in	1.28 in	13/32 in	**2ADB2**
9/16 in	1 1/4 in	1.45 in	7/16 in	**2ADC2**
5/8 in	1 5/16 in	1.5 in	7/16 in	**2ANT5**
11/16 in	1 3/8 in	1.56 in	7/16 in	**2ANU5**
3/4 in	1 1/2 in	1.81 in	1/2 in	**2ANV5**
13/16 in	1 5/8 in	1.92 in	1/2 in	**2ANW5**
7/8 in	1 5/8 in	1.92 in	1/2 in	**2ANX5**
15/16 in	1 3/4 in	2.03 in	1/2 in	**2ANY5**
1 in	1 3/4 in	2.03 in	1/2 in	**2ANZ5**
1 1/16 in	1 7/8 in	2.14 in	1/2 in	**2APA5**
1 1/8 in	1 7/8 in	2.14 in	1/2 in	**2APB5**
1 3/16 in	2 1/16 in	2.3 in	1/2 in	**2APC5**
1 1/4 in	2 1/16 in	2.3 in	1/2 in	**2APD5**
1 5/16 in	2 1/8 in	2.35 in	9/16 in	**2APE5**
1 3/8 in	2 1/4 in	2.47 in	9/16 in	**2APF5**
1 7/16 in	2 1/4 in	2.47 in	9/16 in	**2APG5**
1 1/2 in	2 3/8 in	2.58 in	9/16 in	**2APH5**
1 9/16 in	2 3/8 in	2.58 in	9/16 in	**2APJ5**
1 11/16 in	2 3/4 in	3.05 in	11/16 in	**2APL5**
1 3/4 in	2 3/4 in	3.05 in	11/16 in	**2AUZ2**
1 13/16 in	2 7/8 in	3.16 in	11/16 in	**2APN5**
1 15/16 in	3 in	3.27 in	11/16 in	**2APT5**
2 in	3 in	3.27 in	11/16 in	**2APU5**
2 1/16 in	3 1/8 in	3.36 in	3/4 in	**2APV3**
2 1/8 in	3 1/4 in	3.5 in	3/4 in	**2APW3**
2 3/16 in	3 1/4 in	3.5 in	3/4 in	**2APX3**
2 1/4 in	3 1/4 in	3.5 in	3/4 in	**2APY3**
2 3/8 in	3 1/2 in	3.71 in	3/4 in	**2ARA3**
2 7/16 in	3 1/2 in	3.71 in	3/4 in	**2ARB3**
2 1/2 in	3 3/4 in	4.03 in	7/8 in	**2AUF4**
2 5/8 in	3 7/8 in	4.15 in	7/8 in	**2ACK2**
2 3/4 in	4 in	4.27 in	7/8 in	**2ACL8**
2 11/16 in	4 in	4.27 in	7/8 in	**2AUH6**
2 7/8 in	4 1/4 in	4.5 in	7/8 in	**2ACN5**
2 15/16 in	4 1/4 in	4.5 in	7/8 in	**2ACP5**
3 in	4 1/4 in	4.5 in	7/8 in	**2ACR5**
1211 Black Oxide Steel, Recessed-Screw - Climax*				
3/4 in	1 3/4 in	1.75 in	1/2 in	**36WZ65**
1 in	2 in	2 in	1/2 in	**29NZ15**
1 7/16 in	2 3/8 in	2.38 in	1/2 in	**36WZ82**
1 1/2 in	2 1/2 in	2.5 in	1/2 in	**36WZ84**
1 3/4 in	3 in	3 in	5/8 in	**36WZ92**
1 15/16 in	3 1/4 in	3.25 in	5/8 in	**29NZ17**
2 in	3 1/4 in	3.25 in	5/8 in	**29NZ18**
2 3/16 in	3 1/2 in	3.5 in	5/8 in	**36WZ99**
2 1/4 in	3 1/2 in	3.5 in	5/8 in	**36XA02**
2 3/8 in	3 1/2 in	3.5 in	5/8 in	**36XA04**
2 7/16 in	4 in	4 in	3/4 in	**29NZ19**
2 1/2 in	4 in	4 in	3/4 in	**36XA07**
1211 Black Oxide Steel, Recessed-Screw - Climax* (Cont.)				
2 3/4 in	4 1/4 in	4.25 in	3/4 in	**29NZ20**
2 15/16 in	4 1/2 in	4.5 in	3/4 in	**29NZ21**
2 7/8 in	4 1/2 in	4.5 in	3/4 in	**36XA14**
3 in	4 1/2 in	4.5 in	3/4 in	**29NZ22**
3 1/4 in	4 1/2 in	4.69 in	7/8 in	**29NY12**
3 3/16 in	4 1/2 in	4.75 in	7/8 in	**36XA17**
3 3/8 in	4 3/4 in	4.94 in	7/8 in	**29NY13**
3 7/16 in	4 3/4 in	4.94 in	7/8 in	**29NY14**
3 1/2 in	4 3/4 in	4.94 in	7/8 in	**29NY15**
3 3/4 in	5 in	5.25 in	7/8 in	**36XA19**
3 15/16 in	5 1/4 in	5.44 in	7/8 in	**29NY16**
4 in	5 1/4 in	5.44 in	7/8 in	**29NY17**
4 1/4 in	5 1/2 in	5.69 in	7/8 in	**36XA21**
4 7/16 in	5 3/4 in	5.94 in	7/8 in	**29NZ04**
4 1/2 in	5 3/4 in	5.94 in	7/8 in	**29NZ05**
4 15/16 in	6 1/4 in	6.38 in	7/8 in	**29NZ06**
5 in	6 1/4 in	6.38 in	7/8 in	**29NZ07**
6 in	7 1/4 in	7.38 in	7/8 in	**29NZ09**
303 Stainless Steel - Ruland*				
1/4 in	5/8 in	0.77 in	9/32 in	**2ACT8**
5/16 in	11/16 in	0.84 in	9/32 in	**2ACW9**
3/8 in	7/8 in	1.03 in	11/32 in	**2ACZ6**
7/16 in	15/16 in	1.08 in	11/32 in	**2ADA6**
1/2 in	1 1/8 in	1.28 in	13/32 in	**2ADB5**
9/16 in	1 1/4 in	1.45 in	7/16 in	**2ADC5**
5/8 in	1 5/16 in	1.5 in	7/16 in	**2ANT8**
11/16 in	1 3/8 in	1.56 in	7/16 in	**2ANU8**
3/4 in	1 1/2 in	1.81 in	1/2 in	**2ANV8**
13/16 in	1 5/8 in	1.92 in	1/2 in	**2ANW8**
7/8 in	1 5/8 in	1.92 in	1/2 in	**2ANX8**
15/16 in	1 3/4 in	2.03 in	1/2 in	**2ANY8**
1 in	1 3/4 in	2.03 in	1/2 in	**2ANZ8**
1 1/16 in	1 7/8 in	2.14 in	1/2 in	**2APA8**
1 1/8 in	1 7/8 in	2.14 in	1/2 in	**2APB8**
1 3/16 in	2 1/16 in	2.3 in	1/2 in	**2APC8**
1 1/4 in	2 1/16 in	2.3 in	1/2 in	**2APD8**
1 3/16 in	2 1/8 in	2.35 in	9/16 in	**2APE8**
1 3/8 in	2 1/4 in	2.47 in	9/16 in	**2APF8**
1 7/16 in	2 1/4 in	2.47 in	9/16 in	**2APG8**
1 1/2 in	2 3/8 in	2.58 in	9/16 in	**2APH8**
1 9/16 in	2 3/8 in	2.58 in	9/16 in	**2APJ8**
1 5/8 in	2 5/8 in	2.94 in	11/16 in	**2APK8**
1 11/16 in	2 3/4 in	3.05 in	11/16 in	**2APL8**
1 3/4 in	2 3/4 in	3.05 in	11/16 in	**2AUZ5**
1 7/8 in	2 7/8 in	3.16 in	11/16 in	**1CEZ9**
1 13/16 in	2 7/8 in	3.16 in	11/16 in	**2APN8**
1 15/16 in	3 in	3.27 in	11/16 in	**2APT8**
2 in	3 in	3.27 in	11/16 in	**2ARF6**
2 1/8 in	3 1/4 in	3.5 in	3/4 in	**2APW6**
2 3/16 in	3 1/4 in	3.5 in	3/4 in	**2APX6**
2 1/4 in	3 1/4 in	3.5 in	3/4 in	**2APY6**
2 3/8 in	3 1/2 in	3.71 in	3/4 in	**2ARA6**
2 1/2 in	3 3/4 in	4.03 in	7/8 in	**2AUF7**
2 7/8 in	4 1/4 in	4.5 in	7/8 in	**2ACN8**
2 15/16 in	4 1/4 in	4.5 in	7/8 in	**2AUL5**
2 in	82 mm	88.8 mm	19 mm	**30VM88**
10 mm	24 mm	26.3 mm	9 mm	**2AME2**
12 mm	28 mm	32 mm	11 mm	**2AMG2**
15 mm	34 mm	39.3 mm	13 mm	**2AMK2**
16 mm	34 mm	39.3 mm	13 mm	**2AML2**
18 mm	36 mm	41.1 mm	13 mm	**2AMN2**
19 mm	40 mm	47.4 mm	15 mm	**2AMP2**
20 mm	40 mm	47.4 mm	15 mm	**2AMR2**
22 mm	42 mm	49.5 mm	15 mm	**2AMT2**
24 mm	45 mm	52.1 mm	15 mm	**2AMV1**
25 mm	45 mm	52.1 mm	15 mm	**2AMW1**
30 mm	54 mm	59.2 mm	15 mm	**2AMY2**
35 mm	57 mm	62.4 mm	15 mm	**2ANA2**
38 mm	60 mm	65.6 mm	15 mm	**2ANB2**
40 mm	60 mm	65.6 mm	15 mm	**2AND2**
42 mm	73 mm	80.1 mm	19 mm	**30VN16**
50 mm	78 mm	84.7 mm	19 mm	**2ANG2**
55 mm	82 mm	88.8 mm	19 mm	**2ANG8**
60 mm	88 mm	94 mm	19 mm	**2ANJ5**
304 Stainless Steel - Dayton				
1/8 in	1/2 in	0.62 in	1/4 in	**1L711**
3/16 in	5/8 in	0.7 in	5/16 in	**1L712**
1/4 in	11/16 in	0.76 in	5/16 in	**1L713**
5/16 in	11/16 in	0.77 in	5/16 in	**1L714**
3/8 in	7/8 in	0.95 in	11/32 in	**1L715**
7/16 in	15/16 in	0.97 in	3/8 in	**1L716**
1/2 in	1 1/8 in	1.2 in	13/32 in	**1L717**
304 Stainless Steel - Dayton (Cont.)				
5/8 in	1 5/16 in	1.4 in	7/16 in	**1L718**
3/4 in	1 1/2 in	1.61 in	1/2 in	**1L719**
7/8 in	1 5/8 in	1.75 in	1/2 in	**1L720**
1 in	1 3/4 in	1.83 in	1/2 in	**1L721**
1 1/8 in	1 7/8 in	2.05 in	1/2 in	**1L722**
1 1/4 in	2 1/16 in	2.19 in	1/2 in	**1L723**
1 3/8 in	2 1/4 in	2.31 in	9/16 in	**1L724**
1 1/2 in	2 3/8 in	2.48 in	9/16 in	**1L725**
1 5/8 in	2 5/8 in	2.76 in	11/16 in	**1L726**
1 3/4 in	2 3/4 in	2.9 in	11/16 in	**1L727**
1 7/8 in	2 7/8 in	3 in	11/16 in	**1L728**
2 in	3 in	3.15 in	11/16 in	**1L729**
316 Stainless Steel - Ruland*				
3/8 in	7/8 in	1.03 in	11/32 in	**30VR58**
1/2 in	1 1/8 in	1.28 in	13/32 in	**30VR61**
5/8 in	1 5/16 in	1.5 in	7/16 in	**30VR27**
3/4 in	1 1/2 in	1.81 in	1/2 in	**30VR29**
7/8 in	1 5/8 in	1.92 in	1/2 in	**30VR31**
1 in	1 3/4 in	2.03 in	1/2 in	**30VR33**
1 3/16 in	2 1/16 in	2.3 in	1/2 in	**30VR37**
1 1/2 in	2 3/8 in	2.58 in	9/16 in	**30VR40**
1 3/4 in	2 3/4 in	3.05 in	11/16 in	**30VR41**
2 in	82 mm	88.8 mm	19 mm	**30VM89**
10 mm	24 mm	26.3 mm	9 mm	**30VL97**
20 mm	40 mm	47.4 mm	15 mm	**30VM45**
303 Stainless Steel, Recessed-Screw - Climax*				
9/16 in	1 1/4 in	1.25 in	3/8 in	**36WZ60**
1 1/16 in	2 in	2 in	1/2 in	**36WZ73**
1 5/16 in	2 1/4 in	2.25 in	1/2 in	**36WZ79**
1 1/2 in	2 1/2 in	2.5 in	1/2 in	**36WZ85**
2 3/16 in	3 1/2 in	3.5 in	5/8 in	**36XA01**
2 1/2 in	4 in	4 in	3/4 in	**36XA08**
2 5/8 in	4 1/4 in	4.25 in	3/4 in	**36XA10**
3 1/2 in	4 3/4 in	4.94 in	7/8 in	**29NY94**
3 3/4 in	5 in	5.25 in	7/8 in	**36XA20**
4 in	5 1/4 in	5.44 in	7/8 in	**29NY96**
4 7/16 in	5 3/4 in	5.94 in	7/8 in	**29NY97**
4 1/2 in	5 3/4 in	5.94 in	7/8 in	**29NY98**
4 15/16 in	6 1/4 in	6.38 in	7/8 in	**29NY99**
6 in	7 1/4 in	7.38 in	7/8 in	**29NZ03**
2024 Aluminum - Ruland*				
9/16 in	1 1/4 in	1.45 in	7/16 in	**2ADB8**
3/4 in	1 1/2 in	1.81 in	1/2 in	**2ANV2**
7/8 in	1 5/8 in	1.92 in	1/2 in	**2ANX2**
1 in	1 3/4 in	2.03 in	1/2 in	**2ANZ2**
1 1/4 in	2 1/16 in	2.3 in	1/2 in	**2APD2**
2 in	3 in	3.27 in	11/16 in	**2APU2**
2 1/16 in	3 1/8 in	3.36 in	3/4 in	**2APU9**
2 1/8 in	3 1/4 in	3.5 in	3/4 in	**2APV9**
2 7/16 in	3 1/2 in	3.71 in	3/4 in	**2ARA9**
6 mm	16 mm	20.8 mm	9 mm	**2ANK2**
6061 Aluminum - Climax*				
1/2 in	1 1/8 in	1.38 in	7/16 in	**29NX12**
3/4 in	1 1/2 in	1.81 in	1/2 in	**29NX14**
1 in	1 3/4 in	2.06 in	1/2 in	**29NX17**
1 1/4 in	2 1/16 in	2.31 in	1/2 in	**29NX20**
1 1/2 in	2 3/8 in	2.63 in	9/16 in	**29NX24**
1 5/8 in	2 5/8 in	2.88 in	11/16 in	**29NX25**
1 7/8 in	2 7/8 in	3.19 in	11/16 in	**29NX28**
2 in	3 in	3.31 in	11/16 in	**29NX30**
3 in	4 1/4 in	4.56 in	7/8 in	**29NX40**
Grade 5 Titanium - Ruland*				
3/8 in	24 mm	26.3 mm	9 mm	**805EE5**
1/2 in	30 mm	33.7 mm	11 mm	**805EF7**
5/8 in	34 mm	39.3 mm	13 mm	**805DL8**
3/4 in	40 mm	47.4 mm	15 mm	**805DN0**
1 in	45 mm	52.1 mm	15 mm	**805DP8**
Acetal Plastic - Dayton				
3/4 in	1 1/2 in	1.81 in	1/2 in	**1F584**
7/8 in	1 5/8 in	1.94 in	1/2 in	**1F582**
1 in	1 3/4 in	2.06 in	1/2 in	**1F580**
1 1/8 in	1 7/8 in	2.19 in	1/2 in	**1F578**
1 1/4 in	2 1/16 in	2.31 in	1/2 in	**1F608**
1 1/2 in	2 3/8 in	2.63 in	9/16 in	**1F604**
1 7/8 in	2 7/8 in	3 in	11/16 in	**1F598**
2 in	3 in	3.31 in	11/16 in	**1F596**
Acetal Plastic - Ruland*				
3/4 in	40 mm	47.4 mm	15 mm	**30VM03**
1 1/4 in	54 mm	59.2 mm	15 mm	**30VM41**
30 mm	54 mm	59.2 mm	15 mm	**30VM79**

***Climax = Climax Metal Products,**
Ruland = Ruland Manufacturing.

Two-Piece Balanced Shaft Collars

Feature clamping screw heads that oppose each other for improved balance and reduced vibration. They can separate fully and install around hard or soft shafts without marring or disassembly of equipment, which would risk misaligning shafts on reassembly. **Aluminum** are durable, lightweight, corrosion-resistant, nonmagnetic, and nonsparking. **Black Oxide Steel** have high strength, machinability, and resist heat and impacts. **Stainless Steel** feature high strength, corrosion resistance, and hardness for high-load applications.

Note: Additional types and sizes, including metric are available on Grainger.com.

Bore Dia. (in)	Outside Dia. (in)	Clearance Dia. (in)	Width (in)	2024 Aluminum Item No.	Black Oxide, 1215 Steel Item No.	303 Stainless Steel Item No.
1/8	5/8	0.77	9/32	**805G16**	**805G17**	**805G18**
3/16	5/8	0.77	9/32	**805GC5**	**805GC6**	**805GC7**
1/4	5/8	0.77	9/32	—	**805GF6**	—
1/2	5/8	0.77	9/32	**805GF5**	—	**805GF7**
	1 1/8	1.28	13/32	**805GG9**	**805GH0**	**805GH1**
5/8	1 5/16	1.5	7/16	**805FT9**	**805FV0**	**805FV1**
3/4	1 1/2	1.81	1/2	**805FV6**	**805FV7**	**805FV8**
1	1 3/4	2.03	1/2	**805FW9**	**805FX0**	**805FX1**
1 1/4	2 1/16	2.3	1/2	**805FY2**	**805FY3**	**805FY4**
1 1/2	2 3/8	2.58	9/16	**805FZ5**	**805FZ6**	**805FZ7**
1 3/4	2 3/4	3.05	11/16	**805G09**	**805G10**	**805G11**
2	3	3.27	11/16	**805G25**	**805G26**	**805G27**
2 1/2	3 1/4	3.5	3/4	**805GA3**	**805GA4**	**805GA5**
	3 3/4	4.03	7/8	**805GC8**	**805GC9**	**805GD0**
2 3/4	4	4.27	7/8	**805GE0**	**805GE1**	**805GE2**
3	4 1/4	4.5	7/8	**805GF2**	**805GF3**	**805GF4**

5DFH1

Cam Lever Quick-Clamping Shaft Collars

- Aluminum construction

Collars can slide over the end of a soft or hard shaft and use a lever to lock in place without marring surfaces. The curved cam arm blends into the surface of the collar when locked in place, reducing risk of snags. Toolless design eases installation, removal, and repositioning of the shaft collar.

Note: Additional sizes including metric are available on Grainger.com.

Bore Dia.	Collar Outside Dia.	Collar Width	Item No.
3/8 in	1 1/2 in	13/32 in	**5DFH1**
1/2 in	1 1/2 in	13/32 in	**5DFH2**
5/8 in	1 1/2 in	13/32 in	**5DFH3**
3/4 in	2 in	1/2 in	**5DFH4**
1 3/4 in	3 15/16 in	3/4 in	**30VP42**
1 in	2 in	1/2 in	**5DFH5**
1 1/4 in	2 15/16 in	19/32 in	**5DFH7**
1 1/2 in	2 15/16 in	19/32 in	**5DFH9**
2 in	3 15/16 in	3/4 in	**30VP44**
2 1/4 in	4 3/4 in	3/4 in	**30VP45**
2 1/2 in	4 3/4 in	3/4 in	**30VP47**
3 in	4 3/4 in	3/4 in	**30VP51**

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Dayton RULAND CLIMAX

Set Screw

One-Piece

Two-Piece

Rigid Shaft Couplings for Keyed Shafts

Used to firmly join two shafts of the same size together and are for applications where alignment is critical and flexibility is not required, such as with mixers and servos. **Set Screw** lock two shafts together when the set screws are firmly tightened onto each shaft. **One-Piece** lock two shafts together when both shafts are inserted and all of the socket cap screws are torqued down to close the slotted clamp. **Two-Piece** lock two shafts together when both halves of the coupler join around the shafts and all of the socket cap screws are torqued down. **Carbon Steel** material is wear resistant; durable in applications where corrosion is not a concern. **Stainless Steel** resists corrosion in harsh or damp environments.

Bore Dia. (in)	Keyway Size (in)	Outside Dia. (in)	Clearance Dia. (in)	Length (in)	Max. Speed (RPM)	Max. Torque (in-lb)	Brand*	Item No.
Set Screw Rigid Shaft Couplings								
Carbon Steel								
½	⅛ x 1/16	1	1	1 ½	3,500	240	Dayton	**6L015**
⅝	3/16 x 3/32	1 ¼	1.25	2	3,500	475	Dayton	**6L016**
¾	3/16 x 3/32	1 ½	1.5	2	3,500	575	Dayton	**6L017**
¾	3/16 x 3/32	1 ½	1.5	2 ¼	4,000	3,200	Ruland	**2ARD4**
⅞	3/16 x 3/32	1 ⅝	1.63	2 ½	4,000	3,600	Ruland	**2ARD5**
⅞	3/16 x 3/32	1 ¾	1.75	2	1,800	660	Dayton	**6L018**
1	¼ x ⅛	1 ¾	1.75	3	4,000	4,000	Ruland	**2ARD6**
1	¼ x ⅛	2	2	3	1,800	750	Dayton	**6L019**
1⅛	¼ x ⅛	1 ⅞	1.88	3 ⅛	4,000	4,400	Ruland	**2ARD7**
1⅛	¼ x ⅛	2 ⅛	2.13	3	1,800	1,200	Dayton	**3ZN53**
1⅛	¼ x ⅛	2 ⅛	2.13	3	1,800	1,000	Climax	**38AW46**
1¼	¼ x ⅛	2 ¼	2.25	4	1,800	1,300	Dayton	**3ZN50**
1⅜	5/16 x 5/32	2 ⅜	2.38	4 ½	1,800	1,500	Dayton	**3ZN51**
1⅜	5/16 x 5/32	2 ½	2.5	4 ½	1,800	1,375	Climax	**38AW50**
1½	⅜ x 3/16	2 ½	2.5	4 ½	1,800	1,600	Dayton	**3ZN52**
1¾	⅜ x 3/16	2 ¾	2.75	4 ½	1,800	1,751	Climax	**38AW54**
2	½ x ¼	3 5/16	3.31	4 ½	1,800	2,000	Climax	**38AW58**
Stainless Steel								
⅝	3/16 x 3/32	1 ¼	1.25	2	3,500	281	Climax	**29NK59**
⅝	3/16 x 3/32	2 ¼	1.5	2	3,500	338	Climax	**29NK60**
1	¼ x ⅛	2	2	3	3,500	450	Climax	**29NK61**
One-Piece Rigid Shaft Couplings								
Carbon Steel								
⅜	3/32 x 3/64	⅞	1.03	1 ⅜	4,000	475	Ruland	**2ALL9**
⅝	3/16 x 3/32	1 ¼	1.25	2	1,800	469	Climax	**29NL39**
¾	¼ x ⅛	1 ½	1.5	2	1,800	563	Climax	**29NL41**
⅞	3/16 x 3/32	1 ⅝	1.93	2 ½	4,000	3,600	Ruland	**2ALH4**
1	¼ x ⅛	1 ¾	2.05	3	4,000	4,000	Ruland	**2ALH8**
1	¼ x ⅛	1 ¾	2.06	3	4,000	2,470	Climax	**29NK91**
1¼	¼ x ⅛	2 1/16	2.29	3 ¼	4,000	5,000	Ruland	**2ALJ7**
1¼	¼ x ⅛	2 ¼	2.25	4	1,800	1,250	Climax	**29NL42**
1½	⅜ x 3/16	2 ½	2.5	4 ½	1,800	1,250	Climax	**29NL43**
2	½ x ¼	3 ⅜	3.56	4 ⅞	4,000	8,310	Climax	**29NK96**
Stainless Steel								
⅝	3/16 x 3/32	1 5/16	1.51	2	4,000	475	Ruland	**2ALG7**
¾	3/16 x 3/32	1 ½	1.84	2 ¼	4,000	950	Ruland	**2ALH2**
1	¼ x ⅛	1 ¾	2.05	3	4,000	1,200	Ruland	**2ALJ1**
1¼	¼ x ⅛	2 1/16	2.29	3 ¼	4,000	1,500	Ruland	**2ALJ9**
1½	⅜ x 3/16	2 ⅝	2.89	3 ⅞	4,000	3,100	Ruland	**2ALK8**
2	⅜ x 3/16	3 ⅜	3.56	4 ⅞	4,000	7,220	Climax	**29NK86**

Bore Dia. 1 (in)	Keyway Size 1 (in)	Bore Dia. 2 (in)	Keyway Size 2 (in)	Outside Dia. (in)	Clearance Dia. (in)	L (in)	Max. Torque (in-lb)	Brand	Item No.
Two-Piece Rigid Shaft Couplings									
Carbon Steel, 4,000 RPM Max. Speed									
⅝	3/16 x 3/32	½	⅛ x 1/16	1 5/16	1.51	2	1,600	Ruland	**2APB9**
¾	3/16 x 3/32	⅝	3/16 x 3/32	1 ½	1.81	2 ¼	1,540	Climax	**29NM17**
¾	3/16 x 3/32	⅝	3/16 x 3/32	1 ½	1.84	2 ¼	3,200	Ruland	**2APC6**
¾	3/16 x 3/32	¾	3/16 x 3/32	1 ½	1.84	2 ¼	3,200	Ruland	**2APD3**
¾	3/16 x 3/32	½	⅛ x 1/16	1 ½	1.84	2 ¼	3,200	Ruland	**2APD9**
1 ⅛	¼ x ⅛	1	¼ x ⅛	1 ⅞	2.19	3 ⅛	2,470	Climax	**29NM23**
1 ¼	¼ x ⅛	1 ¼	¼ x ⅛	2 1/16	2.29	3 ¼	5,000	Ruland	**2APK9**
1 ½	⅜ x 3/16	1	¼ x ⅛	2 ⅝	2.89	3 ⅞	10,250	Ruland	**2AUZ6**
1 7/16	⅜ x 3/16	1	¼ x ⅛	2 ⅝	2.84	3 ⅞	9,600	Ruland	**30VK16**
1 ½	⅜ x 3/16	1 ½	⅜ x 3/16	2 ⅝	2.89	3 ⅞	10,250	Ruland	**2APN6**
1 ¼	¼ x ⅛	1 ¼	¼ x ⅛	2 ¼	2.25	3 ⅜	3,080	Climax	**29NL52**
1	¼ x ⅛	1	¼ x ⅛	1 ¾	2.05	3	4,000	Ruland	**2APG6**
1 7/16	⅜ x 3/16	1 7/16	⅜ x 3/16	2 ⅝	2.84	3 ⅞	9,600	Ruland	**30VK18**
1 ¼	¼ x ⅛	1	¼ x ⅛	2 1/16	2.29	3 ¼	5,000	Ruland	**2APK3**
1 ¼	¼ x ⅛	1	¼ x ⅛	2 1/16	2.31	3 ⅛	2,470	Climax	**29NM25**
1 ⅛	¼ x ⅛	1	¼ x ⅛	1 ⅞	2.18	3 ⅛	4,400	Ruland	**2APH9**
1 ½	⅜ x 3/16	1 ½	⅜ x 3/16	2 ½	2.5	3 ¾	3,700	Climax	**29NL53**
1 ¾	⅜ x 3/16	1 ¾	⅜ x 3/16	3	3	4 ½	8,310	Climax	**29NL54**
1	¼ x ⅛	¾	3/16 x 3/32	1 ¾	2.05	3	4,000	Ruland	**2APF9**
1 ⅛	¼ x ⅛	1 ⅛	¼ x ⅛	1 ⅞	2.18	3 ⅛	4,400	Ruland	**2APJ6**
1 3/16	¼ x ⅛	1 3/16	¼ x ⅛	2 1/16	2.24	3 ¼	4,000	Ruland	**30VK14**
1 15/16	½ x ¼	1 15/16	½ x ¼	3 ⅜	3.66	4 ⅞	20,250	Ruland	**30VK20**
1	¼ x ⅛	1	¼ x ⅛	2	2	3	2,470	Climax	**29NL51**
1 ⅜	5/16 x 5/32	1 ⅜	5/16 x 5/32	2 ½	2.77	3 ⅝	9,600	Ruland	**2AUY9**
1	¼ x ⅛	1	¼ x ⅛	1 ¾	2.06	3	2,470	Climax	**29NM22**
1 ⅜	5/16 x 5/32	1	¼ x ⅛	2 ½	2.77	3 ⅝	9,600	Ruland	**2APL6**
2	½ x ¼	2	½ x ¼	3 ⅜	3.72	4 ⅞	20,250	Ruland	**2APP9**
Stainless Steel, 4,000 RPM Max. Speed									
⅝	3/16 x 3/32	½	⅛ x 1/16	1 5/16	1.51	2	475	Ruland	**2APC3**
¾	3/16 x 3/32	¾	3/16 x 3/32	1 ½	1.84	2 ¼	950	Ruland	**2APD6**
¾	3/16 x 3/32	⅝	3/16 x 3/32	1 ½	1.84	2 ¼	950	Ruland	**2APC9**
1	¼ x ⅛	1	¼ x ⅛	1 ¾	2.05	3	1,200	Ruland	**2APG9**
1 ⅜	5/16 x 5/32	1 ⅜	5/16 x 5/32	2 ½	2.75	3 ⅝	3,200	Climax	**38AW19**
1 ⅜	5/16 x 5/32	1	¼ x ⅛	2 ½	2.77	3 ⅝	2,900	Ruland	**2APL9**
1 3/16	¼ x ⅛	1	¼ x ⅛	2 1/16	2.24	3 ¼	1,200	Ruland	**30VK13**
1 ¼	¼ x ⅛	1	¼ x ⅛	2 1/16	2.29	3 ¼	1,500	Ruland	**2APK6**

**Climax = Climax Metal Products, Ruland = Ruland Manufacturing.*

CLIMAX METAL PRODUCTS COMPANY Dayton RULAND

Set Screw

One-Piece

Two-Piece

Rigid Shaft Couplings for Round Shafts

Firmly join two round shafts of the same size together and for applications where alignment is critical and flexibility is not required, such as with servos and mixers. **Set Screw** can lock two shafts together when the set screws are firmly tightened onto each of the shafts. **One-Piece** are used to lock two shafts together when both shafts are inserted and all the socket cap screws are tightened down to close the slotted clamp. **Two-Piece** can lock two shafts together when both halves of the coupler are joined around the shafts and all the socket cap screws are tightened down. **Aluminum** material is lightweight; resists chemicals, corrosion, high temperatures, and moisture. **Carbon Steel** resists wear; durable in applications where corrosion is not a concern. **Stainless Steel** resists corrosion in damp or harsh environments.

Note: Additional sizes including metric are available on Grainger.com.

Bore Dia. (in)	Outside Dia. (in)	Clearance Dia. (in)	Length (in)	Max. Speed (RPM)	Max. Torque (in-lb)	Brand*	Item No.
Set Screw Rigid Shaft Couplings							
Aluminum							
½	1	1	1 ½	3,500	143	Climax	**29NK38**
Carbon Steel							
¼	½	0.5	¾	3,500	70	Dayton	**6L012**
¼	⅝	0.63	1	4,000	200	Ruland	**2AEK6**
5/16	⅝	0.63	1	3,500	90	Dayton	**6L013**
⅜	¾	0.75	1	3,500	180	Dayton	**6L014**
½	1	1	1 ½	3,500	238	Climax	**29NK51**
¾	1 ½	1.5	2	3,500	563	Climax	**29NK53**
1	2	2	3	3,500	750	Climax	**29NK54**
2	3 5/16	3.31	4 ½	1,800	2,000	Climax	**38AW57**
Stainless Steel							
5/16	⅝	0.63	1	3,500	71	Climax	**38AW38**
⅜	¾	0.75	1	3,500	103	Climax	**29NK44**
½	1	1	1 ½	3,500	138	Climax	**29NK45**
⅝	1 ¼	1.25	2	3,500	281	Climax	**29NK46**
1	2	2	3	3,500	338	Climax	**29NK48**
One-Piece Rigid Shaft Couplings							
Aluminum							
¼	⅝	0.82	1	4,000	190	Ruland	**2AMC7**
Carbon Steel							
5/16	11/16	0.74	1 ⅛	4,000	60	Dayton	**3ZN30**
⅜	⅞	0.93	1 ⅜	4,000	190	Dayton	**3ZN31**
½	1 ⅛	1.19	1 ¾	4,000	480	Dayton	**3ZN32**
½	1 ⅛	1.33	1 ¾	4,000	950	Ruland	**2AMF7**
½	1 ⅛	1.33	1 ¾	4,000	950	Ruland	**2AMG7**
½	1 ¼	1.25	1 ⅞	4,000	450	Climax	**38AW20**
⅝	1 5/16	1.51	2	4,000	1,600	Ruland	**2ALN3**
⅝	1 5/16	1.43	2	4,000	940	Dayton	**3ZN33**
⅝	1 5/16	1.56	2	4,000	890	Climax	**29NL21**
⅝	1 5/16	1.56	2	4,000	710	Climax	**29NL20**
¾	1 ½	1.84	2 ¼	4,000	3,200	Ruland	**2ALP6**
¾	1 ½	1.81	2 ¼	4,000	1,540	Climax	**29NL22**
¾	1 ½	1.64	2 ¼	4,000	1,950	Dayton	**3ZN34**
¾	1 ½	1.84	2 ¼	4,000	3,200	Ruland	**2ALN7**
1	1 ¾	1.85	3	4,000	2,600	Dayton	**3ZN36**
1	1 ¾	2.05	3	4,000	4,000	Ruland	**2ALT4**
1	2	2	3	3,500	2,470	Climax	**29NK66**
1¼	2 ⅛	2.31	3 ¼	4,000	2,470	Climax	**29NL30**
Stainless Steel							
⅜	⅞	1.03	1 ⅜	4,000	145	Ruland	**2AMF4**
½	1 ⅛	1.33	1 ¾	4,000	275	Ruland	**2AMG1**
½	1 ⅛	1.33	1 ¾	4,000	275	Ruland	**2AMH1**
½	1 ⅛	1.38	1 ¾	4,000	280	Climax	**29NK99**
⅝	1 5/16	1.51	2	4,000	475	Ruland	**2ALN1**
⅝	1 5/16	1.51	2	4,000	475	Ruland	**2ALN5**
⅝	1 5/16	1.56	2	4,000	380	Climax	**29NL01**
¾	1 ½	1.84	2 ¼	4,000	950	Ruland	**2ALN9**
¾	1 ½	1.84	2 ¼	4,000	950	Ruland	**2ALP4**
¾	1 ½	1.81	2 ¼	4,000	830	Climax	**29NL03**
¾	1 ½	1.84	2 ¼	4,000	950	Ruland	**2ALP8**
1	1 ¾	2.05	3	4,000	1,200	Ruland	**2ALT2**
1	1 ¾	2.05	3	4,000	1,200	Ruland	**2ALT6**
1¾	3 ⅛	3.44	4 ½	4,000	6,310	Climax	**29NL15**

Bore Dia. 1 (in)	Bore Dia. 2 (in)	Outside Dia. (in)	Clearance Dia. (in)	Length (in)	Max. Torque (in-lb)	Brand	Item No.
Two-Piece Rigid Shaft Couplings							
Carbon Steel, 4,000 RPM Max. Speed							
⅜	⅜	⅞	0.93	1 ⅜	190	Dayton	**3ZN43**
½	½	1 ⅛	1.22	1 ¾	480	Dayton	**3ZN44**
⅝	⅝	1 5/16	1.43	2	940	Dayton	**3ZN45**
¾	¾	1 ½	1.63	2 ¼	1,950	Dayton	**3ZN46**
¾	¾	1 ½	1.84	2 ¼	3,200	Ruland	**2APX1**
1	1	1 ¾	1.87	3	2,600	Dayton	**3ZN48**
1 3/16	1 3/16	2 1/16	2.24	3 ¼	4,000	Ruland	**30VK24**
1 7/16	1 7/16	2 ⅝	2.84	3 ⅞	9,600	Ruland	**30VK28**
1	1	1 ¾	2.05	3	4,000	Ruland	**2ARA5**
Stainless Steel, 4,000 RPM Max. Speed							
1	1	1 ¾	2.05	3	1,200	Ruland	**2ARA8**

**Climax = Climax Metal Products, Ruland=Ruland Manufacturing.*

Scan. Order. Done.
Details on page A1.

Complete Coupling Assembly

Flange

Sleeve

TB Wood's Incorporated

Sure-Flex Plus Sleeve Couplings

- Max. angular misalignment: 1° with EPDM, Neoprene sleeves; ¼° with Hytrel sleeves
- EPDM temp range: -30° to 275°F (-34° to 135°C)
- Hytrel temp. range: -65° to 250°F (-54° to 121°C)
- Neoprene temp. range: 0° to 200°F (-18° to 93°C)

Elastomer-in-shear design offers exceptional torsional flexibility to help protect equipment from misalignment, vibration, and shock loads. No lubrication required.

Note: A complete coupling consists of 2 flanges and 1 sleeve, sold separately.

Coupling Flanges

- Type 3J, 4J, and 5J: sintered carbon steel
- Type 6J and all S: cast iron
- Each has a keyway and 2 set screws

Coupling Sleeves

- JE: 1-pc. solid EPDM rubber
- JES: split 1-pc. EPDM
- E: 2-pc. EPDM rubber with retaining ring
- H: 1-pc. molded Hytrel
- HS: 2-pc. molded Hytrel
- N: 2-pc. Neoprene with retaining ring

Coupling Size	Rated Torque	Max. RPM	Coupling Ratings HP Rating @ Listed RPM 100	1200	1800	3600	Assembled Coupling Dim. O.D.	Length
Couplings Assembled with Sleeve Type JE, JES, N								
3	78 in-lb	9,200 RPM	0.12 hp	1.49 hp	2.23 hp	4.46 hp	2.062 in	1.97"
4	156 in-lb	7,600 RPM	0.25 hp	2.97 hp	4.46 hp	8.91 hp	2.5 in	2.39"
Couplings Assembled with Sleeve Type E, JE, JES, N								
5	312 in-lb	7,600 RPM	0.5 hp	5.94 hp	8.91 hp	17.82 hp	3.25 in	2.84"
6	585 in-lb	6,000 RPM	0.93 hp	11.14 hp	16.71 hp	33.42 hp	4 in	3.50"
7	940 in-lb	5,250 RPM	1.49 hp	17.9 hp	26.85 hp	53.69 hp	4.625 in	3.94"
8	1,475 in-lb	4,500 RPM	2.34 hp	28.08 hp	42.13 hp	84.25 hp	5.45 in	4.44"
9	2,340 in-lb	3,750 RPM	3.71 hp	44.55 hp	66.83 hp	133.66 hp	6.35 in	5.06"
10	3,735 in-lb	3,600 RPM	5.93 hp	71.11 hp	106.67 hp	213.34 hp	7.5 in	5.69"
11	5,890 in-lb	3,600 RPM	9.35 hp	112.15 hp	168.22 hp	336.44 hp	7.5 in	5.69"
Couplings Assembled with Sleeve Type H, HS, N								
6	1,800 in-lb	6,000 RPM	2.9 hp	34.27 hp	51.41 hp	98.53 hp	4 in	3.50"
7	2,875 in-lb	5,250 RPM	4.6 hp	54.74 hp	82.11 hp	157.38 hp	4.625 in	3.94"
8	4,530 in-lb	4,500 RPM	7.2 hp	86.25 hp	129.38 hp	247.97 hp	5.45 in	4.44"
9	7,200 in-lb	3,750 RPM	11.4 hp	137.09 hp	205.63 hp	394.13 hp	6.35 in	5.06"
10	11,350 in-lb	3,600 RPM	18 hp	216.1 hp	324.16 hp	621.3 hp	7.5 in	5.69"
11	18,000 in-lb	3,600 RPM	28.6 hp	342.72 hp	514.08 hp	985.32 hp	7.5 in	5.69"

Coupling Size	Bore Dia. ½ in	⅝ in	¾ in	⅞ in	1 in	1⅛ in	1¼ in	1⅜ in	1½ in	1⅝ in	1⅞ in	2⅛ in	JE Sleeves Item No.	JES Sleeves Item No.	E Sleeves Item No.	H Sleeves Item No.	HS Sleeves Item No.	N Sleeves Item No.
Coupling Flange (Complete Assembly Requires 2 Coupling Flanges and 1 Sleeve, Sold Separately)																		
Type J Flanges																		
3	32ZR12	32ZR13	32ZR14	32ZR15	—	—	—	—	—	—	—	—	32ZP54	32ZP62	—	—	—	—
4	32ZR16	32ZR17	32ZR18	32ZR19	32ZR20	—	—	—	—	—	—	—	32ZP55	32ZP63	32ZP70	—	—	32ZP90
5	32ZR21	32ZR22	32ZR23	32ZR24	32ZR25	32ZR26	—	—	—	—	—	—	32ZP56	32ZP64	32ZP71	—	—	32ZP91
6	—	32ZR27	32ZR28	32ZR29	32ZR30	32ZR31	32ZR32	32ZR33	—	—	—	—	32ZP57	32ZP65	32ZP72	32ZP98	32ZR05	32ZP92
Type S Flanges																		
6	—	—	—	—	49EP53	49EP54	49EP55	49EP56	49EP57	49EP58	—	—	32ZP57	32ZP65	32ZP72	32ZP98	32ZR05	32ZP92
7	—	—	—	32ZR35	32ZR36	32ZR37	32ZR38	32ZR39	32ZR40	32ZR41	—	—	32ZP58	32ZP66	32ZP73	32ZP99	32ZR06	32ZP93
8	—	—	—	32ZR44	32ZR45	32ZR46	32ZR47	32ZR48	32ZR49	32ZR50	32ZR52	32ZR53	32ZP59	32ZP67	32ZP74	32ZR01	32ZR07	32ZP94
9	—	—	—	—	—	32ZR55	32ZR56	32ZR57	32ZR58	32ZR59	32ZR61	32ZR63	32ZP60	32ZP68	32ZP75	32ZR02	32ZR08	32ZP95
10	—	—	—	—	—	—	—	32ZR67	32ZR68	48VF31	32ZR69	32ZR71	32ZP61	32ZP69	32ZP76	32ZR03	32ZR09	32ZP96
11	—	—	—	—	—	—	32ZR74	—	—	32ZR75	32ZR77	32ZR79	—	—	32ZP77	32ZR04	32ZR10	32ZP97

Taper Lock Coupling Hub
15E696

Coupling Hub
15E635

Standard Element

Spacer Element

TB Wood's Incorporated

Tire Couplings

- Temp. range: -40° to 200°F

Dura-Flex tire shaft couplings have a split-in-half design which allows easy element installation without disturbing shaft connection; no need to move connected equipment. 100% part-for-part interchangeable with popular bonded tire couplings, with design, materials, and construction that are superior to common orange polyurethane coupling elements. The couplings accommodate shaft misalignment and minimize vibration to help prevent damage to connected equipment, and offer a large range of spacing with few parts.

Note: A complete coupling assembly consists of 2 hubs and 1 element, sold separately. Taper-Lock coupling hubs require Taper-Lock bushings, see page 112.

Coupling Size	Taper-Lock® Coupling Hub	Taper-Lock® Required Bushing	FIXED BORE HUB Bore Dia. ⅝ in	⅞ in	1 ⅛ in	1 in	1 ⅜ in	1 ⅝ in	1 ⅞ in	2 ⅛ in	2 ⅜ in	2 ⅞ in	3 ⅜ in
Coupling Hubs (Complete Assembly Requires 2 Coupling Hubs and 1 Element)													
WE2	—	—	15E635	15E637	15E636	15E638	—	—	—	—	—	—	—
WE3	15E696	1008	15E639	15E640	15E642	15E641	15E644	—	—	—	—	—	—
WE4	15E697	1008	—	15E645	15E646	—	15E648	15E649	—	—	—	—	—
WE5	15E698	1108	—	15E650	15E652	15E651	15E653	15E654	15E655	—	—	—	—
WE10	15E699	1310	—	—	15E657	15E656	15E658	15E659	15E660	—	—	—	—
WE20	15E701	1610	—	—	15E662	—	15E663	15E664	—	15E666	15E667	—	—
WE30	15E702	2012	—	—	—	—	15E668	15E669	—	15E671	15E672	15E673	—
WE40	15E703	2517	—	—	—	—	—	15E674	—	15E675	15E676	15E677	15E678
WE50	15E704	2517	—	—	—	—	—	—	—	15E680	15E681	—	15E682
WE60	15E705	3020	—	—	—	—	—	—	—	15E683	15E684	—	15E685

Coupling Size	Rated Torque	Max. RPM	Coupling Ratings HP Rating @ Listed RPM 100	1200	1800	3600	Assembled O.D.	Standard Element Item No.	Spacer Element Item No.
Coupling Elements								**Coupling Elements**	
WE2	190 in.-lb.	7500	.30	3.5	5.3	11	3.7"	15E615	15E625
WE3	365 in.-lb.	7500	.58	6.7	10	20	4.2"	15E616	15E626
WE4	550 in.-lb.	7500	.88	10	15	31	4.5"	15E617	15E627
WE5	925 in.-lb.	7500	1.5	17	26	51	5.4"	15E618	15E628
WE10	1450 in.-lb.	7500	2.3	27	40	81	6.5"	15E619	15E629
WE20	2300 in.-lb.	6600/4800*	3.6	42	64	128	7.4"	15E620	15E630
WE30	3650 in.-lb.	5800/4200*	5.8	67	101	203	8.4"	15E621	15E631
WE40	5500 in.-lb.	5000/3600*	8.8	101	153	305	9.7"	15E622	15E632
WE50	7650 in.-lb.	4200/3100*	12	141	212	425	11.3"	15E623	15E633
WE60	12500 in.-lb.	3800/2800*	19	230	347	694	12.5"	15E624	15E634

** Max. rpm for spacer elements. The higher max. rpm is applicable for spacer elements when using high-speed rings.*

Find even **MORE** on **Grainger.com**®

1-800-GRAINGER (472-4643)

Find information on Keyways and Spiders on page 124.

Dayton

Jaw Couplings

L-type couplings are designed for close-coupling applications.

SPIDER INSERTS

- Temp. range: -40° to 100°C (Buna N); -51° to 121°C (Hytrel)

Oil- and high temperature-resistant inserts conform to the sintered alloy couplings to help them maintain position and structure for equal power transfer.

COUPLING HUBS

- Max. angular misalignment: 1°
- Max. parallel misalignment: 0.015"

Maintenance-free couplings connect to drive shafts to provide dependable power transfer, even in high-temperature applications. Plated metal construction requires no lubrication. Simple design helps assure easy installation and consistent performance. Coupling keyway dimensions conform to DIN 6885, JIS B 1310-1976, UNI 6604-1969, USAS B 17.1-1967, GB 1095-1979 standards.

Note: A complete assembly requires 2 hubs and 1 spider, sold separately.

Sintered Iron Coupling Hub

Hytrel Spider Insert

Coupling Size	Max. Torque (in-lb)	Max. Speed (RPM)	HP Rating @ Listed RPM 100	1200	1800	3600	Item No.
Buna N Spider Inserts (Black Color)							
L050	26	18,000	0.04	0.49	0.73	1.47	**29HZ10**
L070	43	14,000	0.07	0.83	1.25	2.51	**29HZ09**
L075	90	11,000	0.14	1.67	2.51	5.03	**29HZ11**
L090	144	9,000	0.23	2.74/3.69	4.11/5.54	8.23/11.08	**29HZ08**
L099	318	7,000	0.66	5.99/7.9	8.99/11.85	17.99/23.7	**29HZ07**
L110	792	5,000	1.3	15	22.5	45.01	**29HZ12**
L150	1,240	5,000	2.0	23.99	35.98	71.97	**29HZ05**
L190	1,726	5,000	2.7	32.4	48.6	97.22	**29HZ06**
Hytrel Spider Inserts (Tan Color)							
L070	114	14,000	0.18	2.17	3.25	6.51	**29HZ16**
L075	227	11,000	0.36	4.32	6.48	12.97	**29HZ17**
L090	401	9,000	0.89	7.63/10.68	11.45/16.02	22.90/32.04	**29HZ18**
L099	792	7,000	1.8	16.37/21.59	24.56/32.39	49.12/64.78	**29HZ15**
L110	2,268	5,000	3.6	43.18	64.77	129.55	**29HZ14**
L150	3,708	5,000	5.9	70.6	105.9	211.8	**29HZ13**
L190	4,680	5,000	7.4	89.1	133.66	267.3	**29HZ19**

Size	Outside Dia. (in)	Overall Length (in)†	Bore Diameter ⅞ in	1 ⅛ in	1 ¼ in	1 ⅜ in	1 ½ in	1 ⅝ in	1 ¾ in	1 ⅞ in	5/16 in	¾ in	7/16 in	1 in	⅜ in	½ in	⅝ in	¼ in
Sintered Iron Coupling Hubs																		
L150	3 3/4	4 1/2	**29HY49**	**29HY50**	**29HY51**	**29HY52**	**29HY53**	**29HY54**	**29HY55**	**29HY56**	—	—	—	—	—	—	—	—
L050	1 5/64	1 23/32	—	—	—	—	—	—	—	—	**29HY57** *	—	**29HY97** *	—	**29HY74** *	**29HY75** *	**29HY76** *	**29HY94** *
L110	3 21/64	4 15/64	**29HY67**	**29HY69**	**29HY70**	**29HY71**	**29HY72**	**29HY73**	—	—	—	**29HY58**	—	**29HY68**	—	—	—	—
L095	2 7/64	2 1/2	**29HY89**	**29HZ01** *	—	—	—	—	—	—	—	**29HY88**	**29HY59**	**29HY90**	—	**29HY98** *	**29HY99**	—
Steel Coupling Hubs																		
L190	4 1/2	4 7/8	—	**29HY61**	**29HY62**	**29HY63**	**29HY64**	**29HY65**	—	**29HY66**	—	—	—	**29HY60**	—	—	—	—
Sintered Iron Coupling Hubs																		
L070	1 23/64	2	—	—	—	—	—	—	—	—	—	**29HY79**	**29HY95** *	—	—	**29HY77** *	**29HY78**	—
L075	1 3/4	2 1/8	**29HY83**	—	—	—	—	—	—	—	—	**29HY82**	**29HY96** *	—	—	**29HY80** *	**29HY81**	—
L090	2 7/64	2 1/8	**29HY87**	—	—	—	—	—	—	—	—	**29HY86**	—	—	—	**29HY84** *	**29HY85**	—
L100	2 17/32	3 1/2	**29HZ03**	**29HY91**	**29HY92**	**29HY93**	—	—	—	—	—	**29HZ02**	—	**29HZ04**	—	—	—	—

** No Keyway. †Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*

Boston Gear

High-Torque Jaw Couplings

BOST-BRONZE SPIDER INSERTS

- Oil-impregnated
- Temp. range: -60° to 250°F (-51° to 121°C)

Recommended for high-torque loads, particularly at slower speeds.

SYNTHETIC RUBBER SPIDER INSERTS

- Oil-resistant
- Temp. range: -32° to 200°F (-35° to 93°C)

Recommended where minimal noise is desired, particularly at motor speeds.

POLYURETHANE SPIDER INSERTS

- Temp. range: -32° to 200°F (-35° to 93°C)

Recommended where moderate-to-heavy shock loads are encountered.

COUPLING HUBS

- Standard tolerance: +0.001/-0.000", all bore dimensions

3-jaw insert design is complete with keyway and set screw. No lubrication required.

Note: A complete assembly requires 2 hubs and 1 spider, sold separately.

Bost-Bronze Spider Insert

Steel Coupling Hub

Coupling Size	Shaft Dia. Range	Max. Torque (in-lb)	Max. Speed (RPM)	HP Rating @ Listed RPM 100	300	690	870	1750	Item No.
Bost-Bronze Spider Inserts									
FC12	⅜ to ⅝"	200	1,750	0.32	1.0	2.2	2.8	5.6	**2L064**
FC15	½ to ⅞"	500	1,750	0.79	2.4	5.5	6.9	13.9	**2L067**
FC20	½ to 1⅛"	1,000	1,150	1.6	4.8	10.9	13.8	—	**2L070**
FC25	¾ to 1⅜"	1,800	870	2.9	8.6	19.7	24.8	—	**2L073**
FC30	1 to 1⅝"	3,200	690	5.10	15.2	35.0	—	—	**2L076**
FC38	1¼ to 1⅞"	7,000	300	11.1	33.3	—	—	—	**2L079**
FC45	1¾ to 2⅛"	11,000	100	17.5	—	—	—	—	**2L082**
Synthetic Rubber Spider Inserts									
FC12	⅜ to ⅝"	65	3,450	0.1	0.3	0.7	0.9	1.8	**2L065**
FC15	½ to ⅞"	125	3,450	0.2	0.6	1.4	1.7	3.5	**2L068**
FC20	½ to 1⅛"	250	3,450	0.4	1.2	2.7	3.5	6.9	**2L071**
FC25	¾ to 1⅜"	450	3,450	0.71	2.1	4.9	6.2	12.5	**2L074**
FC30	1 to 1⅝"	800	3,450	1.30	3.8	8.8	11.0	22.2	**2L077**
FC38	1¼ to 1⅞"	1,600	1,750	2.5	7.6	17.5	22.1	44.4	**2L080**
FC45	1¾ to 2⅛"	2,800	1,750	4.4	13.3	30.7	38.7	77.7	**2L083**
Polyurethane Spider Inserts									
FC12	⅜ to ⅝"	125	3,450	0.19	0.56	1.2	1.6	3.0	**2L066**
FC15	½ to ⅞"	250	3,450	0.37	1.1	2.5	3.1	6.0	**2L069**
FC20	½ to 1⅛"	470	3,450	0.7	2.1	4.6	5.7	11.1	**2L072**
FC25	¾ to 1⅜"	845	3,450	1.2	3.7	8.1	10.1	19.3	**2L075**
FC30	1 to 1⅝"	1,500	3,450	2.2	6.5	14.4	17.9	34.3	**2L078**
FC38	1¼ to 1⅞"	3,000	1,750	4.30	12.9	28.4	35.3	67.3	**2L081**
FC45	1¾ to 2⅛"	5,250	1,750	7.5	22.4	49.2	61.0	115.9	**2L084**

Size	Outside Dia. (in)	Overall Length (in)*	Bore Diameter ⅜ in	7/16 in	½ in	9/16 in	⅝ in	¾ in	⅞ in	15/16 in	1 in	1 ⅛ in	1 3/16 in	1 ¼ in	1 ⅜ in	1 7/16 in	1 ½ in	1 9/16 in	1 ⅝ in	1 ¾ in	1 ⅞ in	2 in	2 ⅛ in	¼ in
Steel Coupling Hubs																								
FC12	1 1/4	2 9/16	**2L028**	**2L029**	**2L030**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC15	1 1/2	2 3/4	—	—	**2L031**	**2L032**	**2L033**	**2L034**	**2L035**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC20	2	3 11/16	—	—	**2L036**	**2L037**	**2L038**	**2L039**	**2L040**	**2L041**	**6G234**	—	—	—	—	—	—	—	—	—	—	—	—	—
FC25	2 1/2	4 1/8	—	—	—	—	—	**2L042**	**2L043**	—	**2L044**	**2L045**	**2L046**	**2L047**	—	—	—	—	—	—	—	—	—	—
FC30	3	5 15/32	—	—	—	—	—	—	—	—	**2L048**	**2L049**	—	**2L050**	**2L051**	**2L052**	**2L053**	—	—	—	—	—	—	—
FC38	3 3/4	6 5/16	—	—	—	—	—	—	—	—	—	—	—	**2L054**	—	—	**2L055**	**2L056**	**2L057**	**2L058**	**2L059**	—	—	—
FC45	4 1/2	7 3/16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**2L061**	**2L062**	**2L063**	—
Stainless Steel Coupling Hubs																								
FC12	1 1/4	2 9/16	**36GG27**	—	**36GG28**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC15	1 1/2	2 3/4	—	—	**36GG30**	—	**36GG31**	**36GG32**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FC20	2	3 11/16	—	—	—	—	**36GG34**	**36GG35**	**36GG36**	—	**36GG37**	—	—	—	—	—	—	—	—	—	—	—	—	—
FC25	2 1/2	4 1/8	—	—	—	—	—	**36GG39**	—	—	**36GG40**	—	—	—	—	—	—	—	—	—	—	—	—	**36GG41**
FC30	3	5 15/32	**36GG45**	—	—	—	—	—	—	—	**36GG43**	—	—	—	—	—	—	—	—	—	—	—	—	**36GG44**

** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*

Scan. Order. Done.
Details on page A1.

How to Determine Keyways and Spiders for Jaw Couplings

Spider Selection Procedure

1. Select a Service Factor (SF) based upon the load classification.
   - Uniform = SF of 1.00
   - Moderate Shock = SF of 1.75
   - Heavy Shock = SF of 2.50
2. Determine design load.
   - Design Torque = Application Torque (T) x SF or Design HP = Application HP x SF
   - T = [HP(63025)]/rpm
3. Select coupling size that has a HP rating equal to or greater than the design load.

Keyway Chart

Use the coupling's bore diameter to determine the required keyway.

Bore	Keyway	Bore	Keyway	Bore	Keyway
½"	⅛ x 1⁄16"	1¼"	¼ x ⅛"	2⅛"	½ x ¼"
⅝"	3⁄16 x 3⁄32"	1⅜"	5⁄16 x 5⁄32"	2¼"	½ x ¼"
¾"	3⁄16 x 3⁄32"	1½"	⅜ x 3⁄16"	2⅜"	⅝ x 5⁄16"
⅞"	3⁄16 x 3⁄32"	1⅝"	⅜ x 3⁄16"	2½"	⅝ x 5⁄16"
1"	¼ x ⅛"	1¾"	⅜ x 3⁄16"	2¾"	⅝ x 5⁄16"
1⅛"	¼ x ⅛"	1⅞"	½ x ¼"	2⅞"	¾ x ⅜"
—	—	2"	½ x ¼"	3⅜"	⅞ x 7⁄16"

Buna N Spider Insert

Jaw Coupling Hub

Jaw Couplings

TB Wood's Incorporated

Spiders have 0.015" max. parallel misalignment. Buna N and urethane spiders have 1° max. angular misalignment and Hytrel have ½".

Buna N Spider Inserts (Black Color)—Made of long-life material with excellent flexibility. Good resistance to oil, vibration, and temperature.
- Temp. range: -40° to 212°F (-40° to 100°C)

Urethane Spider Inserts (Blue Color)—Provide 1.5-times greater torque capability than Buna N but with less dampening. Good resistance to oil and chemicals.
- Temp. range: -30° to 160°F (-34° to 71°C)

Hytrel Spider Inserts (Tan Color)—Provide 2.5-times greater torque capability with excellent oil, chemical, and temperature resistance compared with Buna N and urethane.
- Temp. range: -60° to 250°F (-51° to 121°C)

Jaw Couplings—Models are 100% interchangeable with industry-standard L-jaw couplings. No lubrication required. Standard keyway on ⅝" and larger bore sizes; 4X177, 3KX86, and ¼" to ½" coupling hubs have no keyway (except where footnoted).

Coupling Size	Max. Speed (RPM)	Max. Torque (in-lb)	HP Rating @ Listed RPM 100	300	1200	1800	3600	Item No.
Spider Inserts								
Buna N (Black Color)								
L050	18,000	26	0.04	0.1	0.5	0.8	1.5	**1X409**
L070	14,000	43	0.07	0.2	0.8	1.2	2.5	**1X408**
L075	11,000	90	0.14	0.4	1.7	2.6	5.0	**2X814**
L090, L095	9,000	144	0.23	0.7/0.9	2.8/3.7	4.1/5.5	8.3/11	**1X407**
L099, L100	7,000	318	0.66	2.0	7.9	12	24	**1X406**
L110	5,000	792	1.3	3.8	15	23	46	**3X715**
L150	5,000	1,240	2.0	6.0	24	36	72	**1A413**
L190	5,000	1,726	2.7	8.1	32	49	98	**1A928**
L225	4,600	2,340	3.7	11	44	67	133	**3EMN9**
Urethane (Blue Color)								
L050	18,000	39	0.06	0.2	0.8	1.1	2.3	**3KZ67**
L070	14,000	65	0.10	0.3	1.3	1.8	3.7	**3KX87**
L075	11,000	135	0.21	0.6	2.5	3.9	7.7	**3KX92**
L090, L095	9,000	216	0.35	1.0/1.4	4.1/5.6	6.2/8.3	12/17	**3KZ03**
L099, L100	7,000	477	0.77	3.0	12	18	36	**3KZ04**
L110	5,000	1,188	2.0	5.7	23	35	69	**3KZ05**
L150	5,000	1,860	3.0	9.0	36	54	108	**3KZ06**
L190	5,000	2,589	4.1	12	49	74	147	**3KZ07**
L225	4,600	3,510	5.6	16	66	100	200	**3EMP1**
Hytrel (Tan Color)								
L070	14,000	114	0.18	0.5	2.1	3.3	6.5	**1A923**
L075	11,000	227	0.36	1.1	4.2	6.4	13	**1A924**
L090, L095	9,000	401	0.89	1.9/2.7	7.7/11	12/16	23/32	**1A925**
L099, L100	7,000	792	1.8	5.0	22	32	65	**1A416**
L110	5,000	2,268	3.6	11	43	65	130	**1A415**
L150	5,000	3,708	5.9	18	71	106	212	**1A414**
L190	5,000	4,680	7.4	20	89	134	266	**1A927**
L225	4,600	6,228	9.9	29	118	178	356	**3EMP2**

Coupling Size	Outside Dia. (in)	Overall Length (in)**	Bore Diameter ¼ in	5⁄16 in	⅜ in	7⁄16 in	½ in	⅝ in	¾ in	⅞ in	1 in	1 ⅛ in	1 ¼ in	1 ⅜ in	1 ½ in	1 ⅝ in	1 ¾ in	1 ⅞ in
Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)																		
Carbon Steel																		
L050	1 5⁄64	1 23⁄32	**4X236** ‡	**1A417** ‡	**4X175** ‡	**6X070** ‡	**4X176** ‡	**4X177** ‡	—	—	—	—	—	—	—	—	—	—
L070	1 23⁄64	2	—	—	—	**5X401** ‡	**4X178** ‡	**4X179**	**4X180**	—	—	—	—	—	—	—	—	—
L075	1 ¾	2 ⅛	—	—	—	**5X402** ‡	**4X181** ‡	**4X182**	**4X183**	**4X184**	—	—	—	—	—	—	—	—
L075	1 ¾	2 ⅛	—	—	—	**1A073** *	**5X447** *	—	—	—	—	—	—	—	—	—	—	—
L090	2 7⁄64	2 ⅛	—	—	—	**6JAW6** †	**4X185** ‡	**4X186**	**4X187**	**4X188**	—	—	—	—	—	—	—	—
L095	2 7⁄64	2 ½	—	—	—	**1A914** †	**6X071** ‡	**6X072**	**4X191**	**4X192**	**4X193**	**6X073**	—	—	—	—	—	—
L100	2 17⁄32	3 ½	—	—	—	—	—	—	**6X074**	**6X075**	**6X076**	**4X194**	**4X195**	**4X196**	—	—	—	—
L110	3 21⁄64	4 15⁄64	—	—	—	—	—	—	**1A418**	**3X708**	**3X709**	**3X710**	**3X711**	**3X712**	**3X713**	**3X714**	—	—
L150	3 ¾	4 ½	—	—	—	—	—	—	—	**1A405**	**6JAW7**	**1A406**	**1A407**	**1A408**	**1A409**	**1A410**	**1A411**	**1A412**
Cast Iron																		
L190	4 ½	4 ⅞	—	—	—	—	—	—	—	—	**1A916**	**1A917**	**1A918**	**1A919**	**1A920**	**1A921**	**6JAW8**	**1A922**
Aluminum																		
L050	1 5⁄64	1 23⁄32	**3KX82** ‡	**3KX83** ‡	**3KX84** ‡	—	**3KX85** ‡	**3KX86** ‡	—	—	—	—	—	—	—	—	—	—
L070	1 23⁄64	2	—	—	—	**3KX88** ‡	**3KX89** ‡	**3KX90**	**3KX91**	—	—	—	—	—	—	—	—	—
L075	1 ¾	2 ⅛	—	—	—	—	**3KX93** ‡	**3KX95**	**3KX96**	**3KX97**	—	—	—	—	—	—	—	—
L075	1 ¾	2 ⅛	—	—	—	—	**3KX94** *	—	—	—	—	—	—	—	—	—	—	—
L090	2 7⁄64	2 ⅛	—	—	—	—	**3KX98** ‡	**3KX99**	**3KZ01**	**3KZ02**	—	—	—	—	—	—	—	—
L095	2 7⁄64	2 ½	—	—	—	—	**3KZ10** ‡	**3KZ11**	**3KZ12**	**3KZ13**	**3KZ14**	**3KZ15**	—	—	—	—	—	—
L100	2 ½	3 ½	—	—	—	—	—	—	**3KZ16**	**3KZ17**	—	—	—	—	—	—	—	—
L100	2 17⁄32	3 ½	—	—	—	—	—	—	—	—	**3KZ18**	**3KZ19**	**3KZ20**	**3KZ21**	—	—	—	—
L110	3 21⁄64	4 15⁄64	—	—	—	—	—	—	—	—	**3KZ22**	**3KZ23**	**6JAW9**	**3KZ24**	**6JAX0**	**3KZ25**	—	—
L150	3 ¾	4 ½	—	—	—	—	—	—	—	—	—	**48VF26**	**48VF25**	**48VF27**	**48VF24**	**48VF28**	**48VF30**	**48VF29**
Stainless Steel																		
L075	1 ¾	2 ⅛	—	—	—	—	**3KA91** *	**3KA93**	**3KA95**	—	—	—	—	—	—	—	—	—
L095	2 7⁄64	2 ½	—	—	—	—	**3KA98** *	**3KA99**	**3KB10**	**3KB11**	**3KB12**	**3KB13**	—	—	—	—	—	—
L100	2 17⁄32	3 ½	—	—	—	—	—	—	**3KB14**	**3KB15**	**3KB16**	**3KB17**	—	**3KB18**	—	—	—	—
L110	3 21⁄64	4 15⁄64	—	—	—	—	—	—	—	—	—	—	—	**3KB21**	**3KB22**	—	—	—

Coupling Size	Outside Dia. (mm)	Overall Length (mm)**	Bore Diameter 9 mm	10 mm	11 mm	12 mm	14 mm	15 mm	16 mm	17 mm	18 mm	19 mm	20 mm	22 mm	24 mm	25 mm	28 mm	30 mm	32 mm	35 mm	38 mm	40 mm	42 mm	45 mm	48 mm
Metric Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)																									
Carbon Steel																									
L050	27	43.7	**1CXN8**	**1CXN9**	**1CXP1**	**1CXP2**	**1CXP3**	**1CXP4**	**1CXP5**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
L070	35	50.8	—	**1CXP6**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
L090	54	54	—	—	—	**1CXR1**	**1CXR2**	**1CXR3**	**1CXR4**	—	**1CXR5**	**1CXR6**	**1CXR7**	**1CXR8**	**1CXR9**	—	—	—	—	—	—	—	—	—	—
L095	54	64	—	—	—	—	**1CXT1**	**1CXT2**	**1CXT3**	**1CXT4**	**1CXT5**	**1CXT6**	**1CXT7**	**1CXT8**	**1CXT9**	**1CXU1**	**1CXU2**	—	—	—	—	—	—	—	—
L100	64	89	—	—	—	—	**1CXW4**	**1CXW5**	**1CXW6**	—	**1CXW7**	**1CXW8**	**1CXW9**	**1CXY1**	**1CXY2**	**1CXY3**	**1CXY4**	**1CXY5**	**1CXY6**	**1CXY7**	—	—	—	—	—
L099	64	73	—	—	—	—	—	—	**1CXU4**	—	**1CXU5**	**1CXU6**	**1CXU7**	**1CXU8**	**1CXU9**	**1CXW1**	**1CXW2**	**1CXW3**	—	—	—	—	—	—	—
L075	44	54	—	—	—	—	—	—	—	—	—	**1CXP7**	**1CXP8**	**1CXP9**	—	—	—	—	—	—	—	—	—	—	—
L110	85	107	—	—	—	—	—	—	—	—	—	**1CXY8**	**1CXY9**	**1CXZ1**	**1CXZ2**	**1CXZ3**	**1CXZ4**	**1CXZ5**	**1CXZ6**	**1CXZ7**	**1CXZ8**	**1CXZ9**	**1CYA1**	—	—
L150	95	114	—	—	—	—	—	—	—	—	—	—	—	—	**1CYA2**	**1CYA3**	—	**1CYA5**	—	**1CYA6**	**1CYA7**	**1CYA8**	**1CYA9**	**1CYB1**	**1CYB2**
Cast Iron																									
L190	114	124	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	**1CYB7**	—	—

Coupling Size	Outside Dia. (mm)	Overall Length (mm)**	Bore Diameter 38 mm	40 mm	42 mm	45 mm	48 mm	50 mm	55 mm	60 mm
Metric Coupling Hubs (Complete Assembly Requires 2 Hubs and 1 Jaw-Coupling Spider Insert, Sold Separately)										
Cast Iron										
L225	127	137	**1CYB9**	**1CYC1**	**1CYC2**	**1CYC3**	**1CYC4**	**1CYC5**	**1CYC6**	**1CYC7**

** 1/8" x 1/16" keyway. † 3/32 x 3/64 keyway. ‡ No keyway. ** Total length of assembled coupling with jaws engaged to full depth (assembled coupling = 2 hubs + 1 spider).*

Selection Guide for Universal Joints

Step 1: Find the appropriate correction value for your application using the Correction Factor table. The table is based on "intermittent" application—more than 1 start/stop per hr., with sufficient time for cooling before starting. If your application is continuous—sustained operation with less than 1 stop/start per hr. for up to 8 hr. per day—multiply the value in the table by 2.

Step 2: Multiply your specific torque requirements by the correction value found in Step 1. (Be sure to use in.-lb.).

Step 3: Refer to the "Break Torque" column in the Universal Joints table to select a joint with the same or greater torque than the in.-lb. number you calculated in Step 2.

Operating RPM	Angle of Operation in Degrees 0°	3°	5°	7°	10°	15°	20°	25°
Correction Factor Table								
1800	9	20	34	45	—	—	—	—
1500	8	16	28	39	—	—	—	—
1200	7	13	22	32	40	—	—	—
900	6	11	16	23	34	—	—	—
600	5	8	11	15	22	34	40	—
300	4	5	7	8	11	16	22	28
100	3	4	4	5	6	8	9	11

Outside Dia.	SOLID TYPE Manufacturer's Model Lovejoy	Curtis	Boston	Browning	Alves	Apex
Part Number Cross Reference Guide						
½"	D-2	C-642	J-50	UJ-4S	S-500	300-8
⅝"	D-3	C-643	J-62	UJ-5S	S-625	300-10
¾"	D-4	C-644	J-75	UJ-6S	S-750	300-12
⅞"	D-5	C-645	J-87	UJ-7S	S-875	300-14
1"	D-6	C-646	J-100	UJ-8S	S-1000	300-16
1⅛"	D-7	C-647	—	UJ-9S	S-1125	—
1¼"	D-8	C-648	J-125	UJ-10S	S-1250	300-20
1½"	D-10	C-650	J-150	UJ-12S	S-1500	300-24
1¾"	D-11	C-651	J-175	UJ-14S	S-1750	300-28
2"	D-12	C-652	J-200	UJ-16S	S-2000	300-32
2½"	D-13	C-653	J-250	UJ-20S	S-2500	400-40
3"	D-14	C-654	J-300	UJ-24S	S-3000	400-48

Needle Bearing Joint For Round Shafts 1CYR4

Pin & Block Joint For Keyed Shaft 1CYP6

Joint Boots 1L753

Lovejoy BELDEN universal

Universal Joints & Joint Boots

UNIVERSAL JOINTS

Tapered yoke shape provides strength while allowing full free movement of joint.

Joint Type—Used to join the yoke ears of a universal joint. **Pin and Block** for high torque use; require lubrication. **Needle Bearing** for low torque, continuous duty, and high performance use.

Shaft Type—Round lock in place with set screws. **Keyed** have machined keyway for reliable torque transmission. **Machinable** allow end users to machine the required bore, keyway, and shaft lock passages for a precise fit.

High-Speed for Round Shafts are pre-lubricated; for use up to 6000 rpm. **High-Speed for Keyed Shafts** operate at high RPM and include a protective boot to prevent contamination. **Heavy Duty** models are heat treated/machined to high tolerances for long life.

Material—Durable **Carbon Steel** resist wear in applications where corrosion is not a concern. **Alloy Steel** have high tensile strength; durable and resist wear. **Stainless Steel** resist corrosion in harsh/damp locations.

UNIVERSAL JOINT BOOTS

Keep dirt/debris from contaminating joint components. Boots and included tie wraps are sold in pkg. of 2.

Bore Dia. (in)	Coupling Size	Length Through Bore (in)	Outside Dia. (in)	Yoke Length (in)	Overall Length (in)	Max. Operating Angle	Max. Speed (RPM)	Break Torque (in-lb)	Item No.
General Purpose Universal Joints for Round Shafts, Pin & Block Joint Type									
Carbon Steel, Lovejoy									
¼	D-2B	⅝	½	1	2	25 °	1,750	378	**1L742**
5/16	D-3B	11/16	⅝	1 ⅛	2 ¼	25 °	1,750	540	**1L743**
⅜	D-4B	⅞	¾	1 ⅜	2 11/16	25 °	1,750	768	**1A929**
7/16	D-5B	⅞	⅞	1 ½	3	25 °	1,750	1,176	**1L744**
½	D-6B	1	1	1 11/16	3 ⅜	25 °	1,750	1,560	**1A930**
9/16	D-7B	1	1 ⅛	1 ¾	3 ½	25 °	1,750	2,880	**1L745**
⅝	D-8B	1	1 ¼	1 ⅞	3 ¾	25 °	1,750	5,220	**1A931**
¾	D-10B	1 3/16	1 ½	2 ⅛	4 ¼	25 °	1,750	7,920	**1A932**
⅞	D-11B	1 ⅜	1 ¾	2 ½	5	25 °	1,750	10,680	**1L746**
1	D-12B	1 ½	2	2 ¾	5 7/16	25 °	1,750	15,600	**1A933**

Bore Dia. (mm)	Length Through Bore (mm)	Outside Dia. (mm)	Yoke Length (mm)	Overall Length (mm)	Max. Operating Angle	Max. Torque (N-m)	Break Torque (N-m)	Item No.
Heavy Duty Universal Joints for Round Shafts, Pin & Block Joint Type								
Alloy Steel, Belden								
8	12.3	15.9	20	40	45 °	15	76	**55YE17**
10	12.5	19.1	22.5	45	45 °	28	141	**55YE19**
10	13.1	22.2	25	50	45 °	39	197	**55YE21**
12	12.3	25.4	25	50	45 °	50	254	**55YE25**
14	14	28.6	28	56	45 °	73	367	**55YE27**
16	16.6	31.8	32.5	65	45 °	117	587	**55YE29**
18	17.6	38.1	41	82	45 °	226	1,129	**55YE31**
Stainless Steel, Belden								
8	20.9	15.9	28.6	57.2	45 °	10	53	**55YE51**
10	28	19.1	38.1	76.2	45 °	19	98	**55YE53**
10	26.2	22.2	38.1	76.2	45 °	28	142	**55YE55**
12	26.2	22.2	38.1	76.2	45 °	28	142	**55YE57**
12	30.2	25.4	42.9	85.7	45 °	35	178	**55YE59**
14	30.4	28.6	44.5	88.9	45 °	50	254	**55YE61**
16	31.8	31.8	47.6	95.3	45 °	76	384	**55YE63**

Bore Dia. (in)	Coupling Size	Length Through Bore (in)	Outside Dia. (in)	Yoke Length (in)	Overall Length (in)	Max. Operating Angle	Max. Speed (RPM)	Max. Torque (in-lb)	Break Torque (in-lb)	Item No.
High-Speed Universal Joints for Round Shafts, Needle Bearing Joint Type										
Alloy Steel, Belden										
⅜	—	15/16	¾	1 ⅜	2 11/16	45 °	6,000	30	—	**41D805**
½	—	1 3/16	1	1 11/16	3 ⅜	45 °	6,000	121	—	**41D807**
⅝	—	1 ¼	1 ¼	1 ⅞	3 ¾	45 °	6,000	260	—	**41D809**
¾	—	1 ⅜	1 ½	2 ⅛	4 ¼	45 °	6,000	572	—	**41D811**
1	—	1 11/16	2	2 ¾	5 ½	45 °	6,000	1,269	—	**41D813**
Carbon Steel, Lovejoy										
½	NB-6B	1	1	1 11/16	3 ⅜	25 °	6,000	325	1,150	**1CYR4**
⅝	NB-8B	1 1/16	1 ¼	1 ⅞	3 ¾	25 °	6,000	550	2,500	**1CYR5**
¾	NB-10B	1 3/16	1 ½	2 ⅛	4 ¼	25 °	6,000	850	4,400	**1CYR6**
1	NB-12B	1 ½	2	2 ¾	5 7/16	25 °	6,000	1,450	10,500	**1CYR7**
Stainless Steel, Belden										
⅜	—	15/16	¾	1 ⅜	2 11/16	45 °	6,000	30	—	**41D806**
½	—	1 3/16	1	1 11/16	3 ⅜	45 °	6,000	121	—	**41D808**
⅝	—	1 ¼	1 ¼	1 ⅞	3 ¾	45 °	6,000	260	—	**41D810**
¾	—	1 ⅜	1 ½	2 ⅛	4 ¼	45 °	6,000	572	—	**41D812**
1	—	1 11/16	2	2 ¾	5 ½	45 °	6,000	1,269	—	**41D814**

Bore Dia. (in)	Coupling Size	Keyway Size (in)	Length Through Bore (in)	Outside Dia. (in)	Yoke Length (in)	Overall Length (in)	Max. Operating Angle	Max. Speed (RPM)	Break Torque (in-lb)	Item No.
General Purpose Universal Joints for Keyed Shafts, Pin & Block Joint Type										
Stainless Steel, Lovejoy										
½	D-6B	⅛ x 1/16	1	1	1 11/16	3 ⅜	25 °	1,750	1,040	**1CYP6**
¾	D-8B	3/16 x 3/32	1 1/16	1 ¼	1 ⅞	3 ¾	25 °	1,750	3,480	**1CYR1**
¾	D-10B	3/16 x 3/32	1 3/16	1 ½	2 ⅛	4 ¼	25 °	1,750	5,280	**1CYR3**
⅝	D-7B	3/16 x 3/32	1	1 ⅛	1 ¾	3 ½	25 °	1,750	1,920	**1CYP7**
⅝	D-8B	3/16 x 3/32	1 1/16	1 ¼	1 ⅞	3 ¾	25 °	1,750	3,480	**1CYP8**

Bore Dia. (mm)	Keyway Size (mm)	Length Through Bore (mm)	Outside Dia. (mm)	Yoke Length (mm)	Overall Length (mm)	Max. Operating Angle	Max. Torque (N-m)	Break Torque (N-m)	Item No.
Heavy Duty Universal Joints for Keyed Shafts, Pin & Block Joint Type									
Alloy Steel, Belden									
30	8 x 3.5	34.1	63.5	70	140	45 °	723	3,615	**55YE44**
35	10 x 3.5	34.1	63.5	70	140	45 °	723	3,615	**55YE48**
Stainless Steel, Belden									
12	4 x 1.9	26.2	22.2	38.1	76.2	45 °	28	142	**55YE58**
22	6 x 2.9	40.8	44.5	63.5	127	45 °	237	1,186	**55YE70**

Bore Dia. (in)	Keyway Size (in)	Length Through Bore (in)	Outside Dia. (in)	Yoke Length (in)	Overall Length (in)	Max. Operating Angle	Max. Torque (in-lb)	Item No.
High-Speed Universal Joints with Boot for Keyed Shafts, Needle Bearing Joint Type								
Alloy Steel, Belden								
½	⅛ x 1/16	1 3/16	1 17/32	1 11/16	3 ⅜	45 °	121	**41D817**
¾	3/16 x 3/32	1 ⅜	2 ¼	2 ⅛	4 ¼	45 °	572	**41D821**
⅜	⅛ x 1/16	15/16	1 ⅜	1 ⅜	2 11/16	45 °	30	**41D815**
⅝	3/16 x 3/32	1 ¼	1 ⅞	1 ⅞	3 ¾	45 °	260	**41D819**
1	¼ x ⅛	1 11/16	2 11/16	2 ¾	5 ½	45 °	1,269	**41D823**
Stainless Steel, Belden								
½	⅛ x 1/16	1 3/16	1 17/32	1 11/16	3 ⅜	45 °	121	**41D818**
¾	3/16 x 3/32	1 ⅜	2 ¼	2 ⅛	4 ¼	45 °	572	**41D822**
⅜	⅛ x 1/16	15/16	1 ⅜	1 ⅜	2 11/16	45 °	30	**41D816**
⅝	3/16 x 3/32	1 ¼	1 ⅞	1 ⅞	3 ¾	45 °	260	**41D820**
1	¼ x ⅛	1 11/16	2 11/16	2 ¾	5 ½	45 °	1,269	**41D824**

Coupling Size	Max, Bore Dia. (in)	Outside Dia. (in)	Yoke Length (in)	Overall Length (in)	Max. Operating Angle	Max. Speed (RPM)	Break Torque (in-lb)	Item No.
General Purpose Universal Joints for Machining, Pin & Block Joint Type								
Carbon Steel, Lovejoy								
D-2	⅜	½	1	2	25 °	1,750	378	**1L730**
D-3	½	⅝	1 ⅛	2 ¼	25 °	1,750	540	**1L731**
D-4	⅝	¾	1 ⅜	2 11/16	25 °	1,750	768	**1L732**
D-5	11/16	⅞	1 ½	3	25 °	1,750	1,176	**1L733**
D-6	¾	1	1 11/16	3 ⅜	25 °	1,750	1,560	**1L734**
D-7	⅞	1 ⅛	1 ¾	3 ½	25 °	1,750	2,880	**1L735**
D-8	1	1 ¼	1 ⅞	3 ¾	25 °	1,750	5,220	**1L736**
D-10	1 ⅛	1 ½	2 ⅛	4 ¼	25 °	1,750	7,920	**1L737**
D-11	1 ¼	1 ¾	2 ½	5	25 °	1,750	10,680	**1L738**
D-12	1 ½	2	2 ¾	5 7/16	25 °	1,750	15,600	**1L739**
Stainless Steel, Lovejoy								
D-4	⅝	¾	1 ⅜	2 11/16	25 °	1,750	512	**1CYR8**

Coupling Size	Number of Bellows	Inside Dia.	Outside Dia.	Overall Length	Item No.
Universal Joint Boots					
Neoprene, Lovejoy					
D-3	Single	⅝ in	1 ⅛ in	0.94 in	**1L750**
D-5	Single	⅞ in	1 ½ in	1.25 in	**1L751**
D-7	Single	1 ⅛ in	2 1/16 in	1.5 in	**1L752**
D-11	Triple	1 ¾ in	2 3/16 in	2.25 in	**1L753**

Scan. Order. Done.
Details on page A1.

Round Keyless Rotary Shafts

- Length tolerance: ±0.01" (standard), ±0.25mm (metric)

Have smooth surfaces with no keyways or grooves and are ground to ensure precise roundness and straight surfaces. For use with pulleys, gears, bearings, and other mechanical components in power transmission applications. **12L14 Steel** has a high lead content that provides low friction and better machinability than stainless steel. **303 Stainless Steel** resists corrosion and machinable for applications that require custom shafts. **17-4PH Stainless Steel** offers corrosion resistance to chemicals, acid, and saltwater and withstands high temperatures. Hardened for added strength. **316 Stainless Steel** resists corrosion in extremely harsh environments, including marine applications and industrial settings exposed to chlorinated or saline fluids.

	Overall Length														
Dia. (in)	2 in Item No.	3 in Item No.	4 in Item No.	5 in Item No.	6 in Item No.	7 in Item No.	8 in Item No.	9 in Item No.	10 in Item No.	12 in Item No.	18 in Item No.	24 in Item No.	36 in Item No.	48 in Item No.	60 in Item No.
12L14 Steel															
Chamfered End Type, -0.0002 in Dia. Tolerance															
1/8	—	802V90	802V92	802V93	802V94	802V95	802V96	802V97	802V86	802V87	802V88	802V89	802V91	—	—
3/16	—	802VC2	802VC4	802VC5	802VC6	802VC7	802VC8	802VC9	802VA8	802VA9	802VC0	802VC1	802VC3	—	—
1/4	—	802VD9	802VE1	802VE3	802VE4	802VE5	802VE6	802VE7	802VD5	802VD6	802VD7	802VD8	802VE0	802VE2	—
5/16	—	802VF2	802VF4	802VF5	802VF6	802VF7	802VF8	802VF9	802VE8	802VE9	802VF0	802VF1	802VF3	—	—
3/8	—	—	—	—	—	—	—	—	—	802VG0	802VG1	802VG2	802VG3	802VG4	—
Chamfered End Type, -0.0004 in Dia. Tolerance															
1/2	—	—	—	—	—	—	—	—	—	802VG5	—	—	802VG8	—	—
5/8	—	—	—	—	—	—	—	—	—	802VH0	—	—	802VH3	802VH4	—
3/4	—	—	—	—	—	—	—	—	—	802VH5	802VH6	—	802VH8	—	—
1	—	—	—	—	—	—	—	—	—	802V71	—	—	—	—	—
Edge Break End Type, -0.0002 in Dia. Tolerance															
1/32	—	802V52	802V53	802V54	802V55	802V56	802V57	802V58	802V49	802V50	802V51	—	—	—	—
1/16	—	802V63	802V65	802V66	802V67	802V68	802V69	802V70	802V59	802V60	802V61	802V62	802V64	—	—
303 Stainless Steel															
Chamfered End Type, -0.0002 in Dia. Tolerance															
1/8	—	802X64	802X66	802X67	802X68	802X69	802X70	802X71	802X60	802X61	802X62	802X63	802X65	—	—
5/32	—	802X76	802X78	802X79	802X80	802X81	802X82	802X83	802X72	802X73	802X74	802X75	802X77	—	—
3/16	—	802XG5	802XG7	802XG8	802XG9	802XH0	802XH1	802XH2	802XG1	802XG2	802XG3	802XG4	802XG6	—	—
1/4	—	802XT1	802XM2	802XT5	802XT6	802XT8	802XU0	802XU1	802XR6	802XJ1	802XR9	802XT0	802XT2	802XT4	802XT7
1/4	—	—	802XT3	—	—	—	—	—	—	802XR8	—	—	—	—	—
5/16	—	802Y10	802Y12	802Y14	802Y15	802Y16	802Y17	802Y18	802Y06	802Y07	802Y08	802Y09	802Y11	—	—
3/8	—	—	—	—	—	—	—	—	—	802Y84	802Y85	802Y86	802Y87	802Y88	802Y90
1/2	—	—	—	—	—	—	—	—	—	802YG6	—	802YG9	802YH0	802YH1	802YH2
Chamfered End Type, -0.0004 in Dia. Tolerance															
5/8	—	—	—	—	—	—	—	—	—	802YH4	802YH5	802YH6	802YH7	802YH8	802YH9
3/4	—	—	—	—	—	—	—	—	—	802YJ2	802YJ3	802YJ4	802YJ5	802YJ6	802YJ7
1	—	—	—	—	—	—	—	—	—	802WX5	802WX6	802WX7	802WX8	802WX9	802WY0
1 1/4	—	—	—	—	—	—	—	—	—	802WY2	802WY3	802WY4	802WY5	802WY6	802WY7
Edge Break End Type, -0.0002 in Dia. Tolerance															
1/16	—	802WU3	802WU5	802WU6	802WU7	802WU8	802WU9	802WX0	802WT9	802WU0	802WU1	802WU2	802WU4	—	—
17-4PH Stainless Steel															
Chamfered End Type, -0.0002 in Dia. Tolerance															
1/32	—	802VJ8	—	802VK0	—	—	—	—	—	—	—	—	—	—	—
3/64	—	—	802VK7	—	—	—	—	—	—	—	—	—	—	—	—
5/64	—	—	—	802VM6	—	—	—	—	—	—	—	—	—	—	—
3/32	802VN0	802VN2	802VN4	802VN5	802VN6	—	—	—	—	802VM8	802VM9	802VN1	802VN3	—	—
1/8	802VN9	802VP1	802VP3	802VP4	802VP5	—	—	—	—	802VN7	802VN8	802VP0	802VP2	—	—
5/32	802VP8	802VR0	802VR2	802VR3	802VR4	—	—	—	—	802VP6	802VP7	802VP9	802VR1	—	—
3/16	802VR7	802VR9	802VT1	802VT2	802VT3	—	—	—	—	802VR5	802VR6	802VR8	802VT0	—	—
7/32	802VT6	802VT8	802VU0	802VU1	802VU2	—	—	—	—	802VT4	802VT5	802VT7	802VT9	—	—
1/4	802VU5	802VU8	802VX0	802VX1	802VX2	—	—	—	—	802VU3	802VU4	802VU6	802VU9	—	—
5/16	802VX5	802VX7	802VX9	802VY0	802VY1	—	—	—	—	802VX3	802VX4	802VX6	802VX8	—	—
3/8	802VY4	802VY6	802VY8	802VY9	802VZ0	—	—	—	—	802VY2	802VY3	802VY5	802VY7	—	—
Edge Break End Type, -0.0002 in Dia. Tolerance															
1/32	802VJ7	—	802VJ9	—	802VK1	—	—	—	—	802VJ5	802VJ6	—	—	—	—
3/64	802VK4	802VK6	—	802VK8	802VK9	—	—	—	—	802VK2	802VK3	802VK5	—	—	—
1/16	802VL2	802VL4	802VL6	802VL7	802VL8	—	—	—	—	802VL0	802VL1	802VL3	802VL5	—	—
5/64	802VM1	802VM3	802VM5	—	802VM7	—	—	—	—	802VL9	802VM0	802VM2	802VM4	—	—
316 Stainless Steel															
Chamfered End Type, -0.0002 in Dia. Tolerance															
3/32	—	802W95	802W97	802W98	802W99	802WA0	802WA1	802WA2	802W91	802W92	802W93	802W94	802W96	—	—
1/8	—	802WA7	802WA9	802WC0	802WC1	802WC2	802WC3	802WC4	802WA3	802WA4	802WA5	802WA6	802WA8	—	—
5/32	—	802WC9	802WD1	802WD2	802WD3	802WD4	802WD5	802WD6	802WC5	802WC6	802WC7	802WC8	802WD0	—	—
3/16	—	802WE1	802WE3	802WE4	802WE5	802WE6	802WE7	802WE8	802WD7	802WD8	802WD9	802WE0	802WE2	—	—
7/32	—	802WF3	802WF5	802WF6	802WF7	802WF8	802WF9	802WG0	802WE9	802WF0	802WF1	802WF2	802WF4	—	—
1/4	—	802WG5	802WG7	802WG8	802WG9	802WH0	802WH1	802WH2	802WG1	802WG2	802WG3	802WG4	802WG6	—	—
5/16	—	802WH7	802WH9	802WJ0	802WJ1	802WJ2	802WJ3	802WJ4	802WH3	802WH4	802WH5	802WH6	802WH8	—	—
3/8	—	802WJ9	802WK1	802WK3	802WK4	802WK6	802WK7	802WK8	802WJ5	802WJ6	802WJ7	802WJ8	802WK0	—	—
Edge Break End Type, -0.0002 in Dia. Tolerance															
1/32	—	802W49	802W50	802W51	802W52	802W53	802W54	802W55	802W46	802W47	802W48	—	—	—	—
3/64	—	802W60	802W61	802W62	802W63	802W64	802W65	802W66	802W56	802W57	802W58	802W59	—	—	—
1/16	—	802W71	802W73	802W74	802W75	802W76	802W77	802W78	802W67	802W68	802W69	802W70	802W72	—	—
5/64	—	802W83	802W85	802W86	802W87	802W88	802W89	802W90	802W79	802W80	802W81	802W82	802W84	—	—

	Overall Length						
Dia. (mm)	100 mm Item No.	200 mm Item No.	300 mm Item No.	400 mm Item No.	600 mm Item No.	800 mm Item No.	900 mm Item No.
17-4PH Stainless Steel							
Chamfered End Type, -0.005 mm Dia. Tolerance							
2.5	—	—	802W15	—	802W16	—	802W17
3	802W18	—	802W20	—	802W21	—	802W22
4	802W23	802W24	802W25	—	802W26	—	802W27
5	—	—	802W30	—	—	—	802W33
6	—	—	802W34	—	—	—	—
Edge Break End Type, -0.005 mm Dia. Tolerance							
1	802VZ9	802W01	802W02	—	—	—	—
1.5	—	—	802W05	—	802W07	—	—
2	802W09	—	802W11	—	802W12	—	802W13
303 Stainless Steel							
Chamfered End Type, -0.005 mm Dia. Tolerance							
6	—	802YP0	—	802YP2	802YP3	—	—
8	—	—	—	—	802YR5	—	—

	Overall Length						
Dia. (mm)	100 mm Item No.	200 mm Item No.	300 mm Item No.	400 mm Item No.	600 mm Item No.	800 mm Item No.	900 mm Item No.
316 Stainless Steel							
Chamfered End Type, -0.005 mm Dia. Tolerance							
2.5	—	802WN5	—	802WN6	802WN7	802WN8	—
3	—	802WN9	—	802WP1	802WP2	802WP3	—
4	—	802WP4	—	802WP5	802WP6	802WP7	—
5	—	802WP8	—	802WP9	802WR0	802WR1	—
6	—	802WR2	—	802WR3	802WR4	802WR5	—
7	—	802WR6	—	802WR7	802WR8	802WR9	—
8	—	802WT0	—	802WT1	802WT2	802WT3	—
9	—	802WT4	—	802WT5	802WT6	802WT7	—
10	—	802WM1	—	802WM2	802WM3	802WM4	—
Edge Break End Type, -0.005 mm Dia. Tolerance							
1	—	802WM5	—	802WM6	—	—	—
1.5	—	802WM7	—	802WM8	—	—	—
2	—	802WN1	—	802WN2	802WN3	802WN4	—

Keyed Rotary Shafts

A keyway milled into the length of the shaft prevents slippage between the shaft and the rotating machine element. Used in high-load applications such as hoists or precision applications such as robotics. **Carbon Steel** material is durable and wear resistant in applications where corrosion is not a concern. **Aluminum** is lightweight and resistant to chemicals, corrosion, high temperatures, and moisture. **304 Stainless Steel** offers corrosion resistance and strength, and maintains its properties in extreme temperatures. **316 Stainless Steel** is highly corrosion-resistant and commonly used in marine or other corrosive environments.

Dia. (in)	Keyway Width (in)	Keyway Depth (in)	Dia. Tolerance (in)	Overall Length 3 in Item No.	6 in Item No.	9 in Item No.	12 in Item No.	18 in Item No.	24 in Item No.	36 in Item No.	48 in Item No.	60 in Item No.	72 in Item No.
Carbon Steel													
5/8	3/16	3/32	±0.0025	797C09	797C19	797C25	797AZ7	797AZ8	797C03	797C06	797C12	797C15	797C22
3/4	3/16	3/32	±0.0025	797C40	797C50	797C56	797C29	797C30	797C34	797C37	797C43	797C46	797C53
7/8	3/16	3/32	±0.0025	797C61	797C64	797C66	797C57	797C58	797C59	797C60	797C62	797C63	797C65
15/16	1/4	1/8	±0.0025	797C71	797C74	797C76	797C67	797C68	797C69	797C70	797C72	797C73	797C75
1	1/4	1/8	±0.0025	797A64	797A85	797A91	797A65	797A66	797A70	797A73	797A78	797A81	797A88
1 1/8	1/4	1/8	±0.0025	797A96	797A99	797AA1	797A92	797A93	797A94	797A95	797A97	797A98	797AA0
1 3/16	1/4	1/8	±0.0025	797AA9	797AC4	797AC7	797AA3	797AA4	797AA6	797AA8	797AC1	797AC3	797AC6
1 1/4	1/4	1/8	±0.0030	797AD9	797AE8	797AF4	797AD0	797AD1	797AD3	797AD6	797AE2	797AE5	797AF1
1 3/8	5/16	5/32	±0.0030	797AF9	797AG2	797AG4	797AF5	797AF6	797AF7	797AF8	797AG0	797AG1	797AG3
1 7/16	3/8	3/16	±0.0030	797AH3	797AH6	797AH9	797AG6	797AG7	797AH0	797AH2	797AH4	797AH5	797AH8
1 1/2	3/8	3/16	±0.0030	797AJ8	797AK4	797AK8	797AJ1	797AJ2	797AJ4	797AJ6	797AK0	797AK2	797AK6
1 5/8	3/8	3/16	±0.0030	797AL3	797AL6	797AL8	797AK9	797AL0	797AL1	797AL2	797AL4	797AL5	797AL7
1 3/4	3/8	3/16	±0.0030	797AM3	797AM6	797AM8	797AL9	797AM0	797AM1	797AM2	797AM4	797AM5	797AM7
1 15/16	1/2	1/4	±0.0035	797AN3	797AN6	797AN8	797AM9	797AN0	797AN1	797AN2	797AN4	797AN5	797AN7
2	1/2	1/4	±0.0035	797AP8	797AP7	797AR7	797AP0	797AP1	797AP3	797AP5	797AR0	797AR2	797AR5
2 3/16	1/2	1/4	±0.0035	797AT2	797AT4	797AT6	797AR8	797AR9	797AT0	797AT1	—	797AT3	797AT5
2 3/16	5/8	5/16	±0.0035	—	—	—	—	—	—	—	797AU7	—	—
2 7/16	5/8	5/16	±0.0035	797AU5	797AV2	797AV6	797AT8	797AT9	797AU1	797AU3	797AU8	797AV0	797AV4
2 1/2	5/8	5/16	±0.0035	797AW1	797AW4	797AW6	797AV7	797AV8	797AV9	797AW0	797AW2	797AW3	797AW5
Aluminum													
5/16	3/32	3/64	±0.0025	—	797AW9	—	797AW7	—	797AW8	—	—	—	—
3/8	3/32	3/64	±0.0025	—	797AX9	—	797AX1	—	797AX3	—	—	—	—
1/2	1/8	1/16	±0.0025	—	797AZ1	—	797AY3	—	797AY5	—	—	—	—
5/8	3/16	3/32	±0.0025	—	797C18	—	797AZ6	—	797C02	—	—	—	—
3/4	3/16	3/32	±0.0025	—	797C49	—	797C28	—	797C33	—	—	—	—
1	1/4	1/8	±0.0025	—	797A84	—	797A63	—	797A69	—	—	—	—
304 Stainless Steel													
3/8	3/32	3/64	±0.0025	797AX5	797AX8	797AY1	797AX0	—	797AX2	797AX4	797AX6	797AX7	797AY0
1/2	1/8	1/16	±0.0025	797AY7	797AZ0	797AZ3	797AY2	—	797AY4	797AY6	797AY8	797AY9	797AZ2
5/8	3/16	3/32	±0.0025	797C07	797C16	797C23	797AZ4	—	797AZ9	797C04	797C10	797C13	797C20
3/4	3/16	3/32	±0.0025	797C38	797C47	797C54	797C26	—	797C31	797C35	797C41	797C44	797C51
1	1/4	1/8	±0.0025	797A74	797A82	797A89	797A61	—	797A67	797A71	797A76	797A79	797A86
1 3/16	1/4	1/8	±0.0025	—	—	—	797AA2	—	797AA5	797AA7	797AC0	797AC2	797AC5
1 1/4	1/4	1/8	±0.0030	797AD7	797AE6	797AF2	797AC8	—	—	797AD4	797AE0	797AE3	797AE9
1 7/16	3/8	3/16	±0.0030	—	—	—	797AG5	—	797AG8	—	—	—	797AH7
1 7/16	3/8	3/16	±0.0030	—	—	—	—	—	797AG9	—	—	—	—
1 1/2	3/8	3/16	±0.0030	797AJ7	797AK3	797AK7	797AJ0	—	797AJ3	797AJ5	797AJ9	—	797AK5
2 7/16	5/8	5/16	±0.0035	797AU4	—	797AV5	797AT7	—	797AU0	797AU2	797AU6	797AU9	797AV3
316 Stainless Steel													
5/8	3/16	3/32	±0.0025	797C08	797C17	797C24	797AZ5	—	797C01	797C05	797C11	797C14	797C21
3/4	3/16	3/32	±0.0025	797C39	797C48	797C55	797C27	—	—	797C36	797C42	797C45	—
1	1/4	1/8	±0.0025	797A75	797A83	797A90	797A62	—	797A68	797A72	797A77	797A80	797A87
1 1/4	1/4	1/8	±0.0030	797AD8	797AE7	797AF3	797AC9	—	797AD2	797AD5	797AE1	797AE4	797AF0
2	1/2	1/4	±0.0035	797AP6	797AR3	797AR6	797AN9	—	797AP2	797AP4	797AP9	797AR1	797AR4

Grooved Shaft

Retaining Ring & Spacers Set

Grooved Rotary Shafts

- Shaft length tolerance: ±0.02"

Feature two retaining ring grooves on one end spaced for common ball bearing sizes and multiple grooves on the other end to provide options for positioning components as needed. Corrosion-resistant 303 stainless steel material; chamfered ends. Used to position and align gears, sprockets, and other mechanical components and as drive shafts or axles in industrial machinery applications. **Retaining Ring and Spacers Sets** fit grooved rotary shafts for securely positioning components.

Dia.	Diameter Tolerance	Groove Spacing	3 in Length Item No.	6 in Length Item No.	12 in Length Item No.	Retaining Ring & Spacer Set Item No.
Inch Rotary Shafts with Retaining Ring Grooves						
1/4 in	-0.0002 in	1/4 in	802YU1	802YU2	802YU0	802YU3
3/8 in	-0.0002 in	3/8 in	802YU6	802YU7	802YU5	802YU8
1/2 in	-0.0002 in	437/1000 in	802YV1	802YV2	802YV0	802YV3
5/8 in	-0.0004 in	1/2 in	802YV6	802YV7	802YV5	802YV8
3/4 in	-0.0004 in	281/500 in	802YW1	802YW2	802YW0	802YW3
1 in	-0.0004 in	281/500 in	802YT6	802YT7	802YT5	802YT8

6L098

Dayton®

Ball Bearing Mandrels

- Max. speed: 3000 RPM
- Overall length: 12"
- Pulley dia.: 2" (O.D.)

Models are the rotating mechanism found in benchtop buffing and finishing tools. They are supported by prelubricated set-screw-type ball-bearing pillow blocks. Corrosion resistant. Compatible with Type A V-belts and can accept up to 1½"-thick buffing/finishing wheels. Include a hex nut and two machined flange washers (1½" O.D.) for each end.

Left Hand Thread Size	Right Hand Thread Size	Shaft Dia.	Item No.
½"-20	½"-20	5/8 in	6L098
5/8"-11	5/8"-11	3/4 in	6L099

Scan. Order. Done.
Details on page A1.

Bearing Selection Guide

Set Screws tighten the inner ring of the bearing onto the shaft.

Eccentric Collar engages with the bearing's inner ring where the hold increases over time.

Concentric Collar tightens the inner ring evenly around the shaft; allows for higher speeds than set screws or eccentric collars.

DIAMETER

Bore

Outside

Bore

Bore

OVERALL HEIGHT

LENGTH

Overall

Mount Hole Center-to-Center

CENTER HEIGHT

Center

Mounting Surface to Shaft

WIDTH

Overall

Outter Ring

THICKNESS

Flange

Dayton SEALMASTER TRITAN NTN

Flange-Mount Radial Ball Bearings

2 Bolt
3FCV3

3-Bolt
36UY58

4 Bolt
3FCX4

- Double sealed closure

These bearings feature a plate that is bolted to a surface and supports a shaft running through the bearing perpendicular to the surface. The plate comes with different bolting patterns to fit the mounting configuration needed. Bearings have a smaller contact surface with the bearing raceway. This reduces friction and allows ball bearings to run at higher speeds but with a lower load capacity than roller bearings. Alloy steel bearing insert.

No. of Mount Holes	Bore Dia. (in)	Bolt Size (in)	Mount Hole C-to-C Length (in)*	Flange Thickness (in)	Overall Dim. (in) L	W	H	Dyn. Load Cap. (lbf)	Mfr. Model	Item No.
Cast Iron, Set Screws Locking										
Painted Housing Finish, Temp. Range: -20 °F to 200 °F, DAYTON										
2	½ in	⅜	3	55/64	3.875	2.125	1 9/64	2,146	3FCN2	**3FCN2**
	⅝ in	⅜	3	55/64	3.875	2.125	1 9/64	2,146	3FCN3	**3FCN3**
	⅝ in	⅜	3 17/32	31/32	4 13/32	2.375	1 9/32	2,146	3FCU8	**3FCU8**
	¾ in	⅜	3 17/32	1	4 7/16	2.375	1.375	2,876	3FCN4	**3FCN4**
	¾ in	⅜	3 17/32	31/32	4 13/32	2.375	1 9/32	2,876	3FCU9	**3FCU9**
	1 in	7/16	3 57/64	1 1/16	5.125	2.75	1 25/64	3,146	3FCN5	**3FCN5**
	1 in	7/16	3 57/64	1 1/16	4.875	2.75	1 13/32	3,146	3FCV3	**3FCV3**
	1 in	7/16	3 57/64	1 1/16	4.875	2.75	1 13/32	3,146	3FDC1	**3FDC1**
	1⅛ in	7/16	4 19/32	1 3/16	5 9/16	3.25	1 37/64	4,382	3FCV4	**3FCV4**
	1 3/16 in	7/16	4 19/32	1 3/16	5 9/16	3.25	1 37/64	4,382	3FCV5	**3FCV5**
	1¼ in	7/16	4 19/32	1 7/32	5 13/16	3.25	1 37/64	4,382	3FCN7	**3FCN7**
	1¼ in	½	5.125	1 11/32	6.125	3.75	1.75	5,775	3FCV6	**3FCV6**
	1⅜ in	½	5.125	1 11/32	6.125	3.75	1.75	5,775	3FCV7	**3FCV7**
	1 7/16 in	½	5.125	1 11/32	6.125	3.75	1.75	5,775	3FCV8	**3FCV8**
	1½ in	½	5 21/32	1.5	6.625	4.125	2 1/64	6,652	3FCV9	**3FCV9**
Painted Housing Finish, Temp. Range: -40 °F to 250 °F, TRITAN										
2	⅝ in	¼	2.5	0.375	3 11/64	1	2 13/64	2,158	SBLF202-10G	**36UX99**
	¾ in	5/16	2 13/16	7/16	3 35/64	1 5/32	2 25/64	2,877	SBLF204-12G	**36UY01**
	¾ in	⅜	3 35/64	19/32	4 7/16	2.375	1 5/16	2,877.55	UCFL204-12	**36UY64**
	1 in	⅜	3 57/64	0.5	5.125	2 11/16	1 13/32	3,147	SBFL205-16G	**36UX96**
	1 in	5/16	3	7/16	3.75	1 7/32	2 33/64	3,147	SBLF205-16G	**36UY02**
	1 in	⅜	3 57/64	0.5	5.125	2 11/16	1 13/32	3,147.33	UCFL205-16	**36UY68**
	1 in	⅜	3 57/64	0.5	5.125	2 11/16	1 13/32	3,147.33	UCFL205-16 (16MM BH)	**36UY69**
	1⅛ in	⅜	4 39/64	0.5	5 13/16	3 5/32	1 19/32	4,383.77	UCFL206-18	**36UY71**
	1 3/16 in	⅜	4 39/64	0.5	5 13/16	3 5/32	1 19/32	4,383.77	UCFL206-19	**36UY72**
	1¼ in	⅜	3 9/16	15/32	4 29/64	1 11/32	3	4,383	SBLF206-20G	**36UY04**
	1¼ in	⅜	4 39/64	0.5	5 13/16	3 5/32	1 19/32	4,383.77	UCFL206-20	**36UY73**
	1¼ in	½	5.125	35/64	6 11/32	3 35/64	1.75	5,777.59	UCFL207-20	**36UY75**
	1 7/16 in	½	5.125	35/64	6 11/32	3 35/64	1.75	5,777.59	UCFL207-23	**36UY78**
	1½ in	½	5 43/64	35/64	6.875	3 13/16	2 1/64	6,631.86	UCFL208-24	**36UY80**
Painted Housing Finish, Temp. Range: -40 °F to 250 °F, NTN										
2	1 in	⅝	3 57/64	21/64	5.125	1 13/32	2 11/16	3,147	UCFL205-100D1	**5ZUD4**
	1¼ in	⅝	5.125	19/32	6 11/32	1.75	3 17/32	5,778	UCFL207-104D1	**5ZUD7**
Black Oxide Housing Finish, Temp. Range: -20 °F to 220 °F, SEALMASTER										
2	¾ in	⅜	3 17/32	7/16	4 7/16	1 5/16	2.375	2,611	SFT-12	**44A550**
	15/16 in	⅜	3 57/64	17/32	5.125	1 15/32	2 11/16	2,801	SFT-15	**44A553**
	1 in	⅜	3 57/64	17/32	5.125	1 15/32	2 11/16	2,801	SFT-16	**44A554**
	1 3/16 in	⅜	4 19/32	17/32	5 13/16	1 19/32	3 5/32	4,381	SFT-19	**44A557**
	1¼ in	7/16	5.125	9/16	6 11/32	1.75	3 17/32	5,782	SFT-20	**44A558**
	1 7/16 in	7/16	5.125	9/16	6 11/32	1.75	3 17/32	5,782	SFT-23	**44A562**
Painted Housing Finish, Temp. Range: -40 °F to 250 °F, TRITAN										
3	¾ in	¼	1.5	0.5	4.25	2.5	1 11/32	2,877	UCFB204-12A	**36UY58**
	1 in	5/16	1.625	0.5	4.75	2.75	1 27/64	3,147	UCFB205-16A	**36UY59**
Painted Housing Finish, Temp. Range: -20 °F to 200 °F, DAYTON										
4	¾ in	⅜	2.5	1	3.375	3.375	1 5/16	2,876	3FCX2	**3FCX2**
	1 in	⅜	2.75	1 1/16	3.75	3.75	1 13/32	3,146	3FCX4	**3FCX4**
	1⅛ in	⅜	3.25	1 7/32	4.25	4.25	1 37/64	4,382	3FCX5	**3FCX5**
	1 3/16 in	⅜	3.25	1 7/32	4.25	4.25	1 37/64	4,382	3FCX6	**3FCX6**
	1¼ in	½	3.625	1 11/32	4.625	4.625	1.75	5,775	3FCX7	**3FCX7**
	1⅜ in	½	3.625	1 11/32	4.625	4.625	1.75	5,775	3FCX8	**3FCX8**
	1 7/16 in	½	3.625	1 11/32	4.625	4.625	1.75	5,775	3FCX9	**3FCX9**
	1½ in	½	4	1 25/64	5.125	5.125	2 1/64	6,652	3FCY3	**3FCY3**
	1 11/16 in	½	4.125	1.5	5.375	5.375	2 1/16	7,157	3FCY1	**3FCY1**
	1¾ in	½	4.125	1.5	5.375	5.375	2 1/16	7,157	3FCY2	**3FCY2**
	1 15/16 in	½	4.375	1 9/16	5.625	5.625	2 9/64	7,888	3FCY6	**3FCY6**
	2 in	⅝	5.125	1 11/16	6.375	6.375	2.375	9,787	3FCY4	**3FCY4**
	2 3/16 in	⅝	5.125	1 11/16	6.375	6.375	2.375	9,787	3FCY5	**3FCY5**
	2 7/16 in	⅝	5.625	1.875	6.875	6.875	2.75	10,742	3FCY7	**3FCY7**
Painted Housing Finish, Temp. Range: -40 °F to 250 °F, TRITAN										
4	1 in	7/16	2.75	35/64	3.75	1 25/64	3.75	3,147	SBF205-16G	**36UX92**
	1 in	⅜	2.75	35/64	3.75	1 13/32	3.75	3,147.33	UCF205-16	**36UY15**
	1¼ in	⅜	3 17/64	35/64	4.25	1 19/32	4.25	4,383.77	UCF206-20	**36UY19**
	1¼ in	7/16	3.625	0.625	4 39/64	1.75	4 39/64	5,777.59	UCF207-20	**36UY21**
	1⅜ in	7/16	3.625	0.625	4 39/64	1.75	4 39/64	5,777.59	UCF207-22	**36UY23**
	1½ in	½	4 1/64	0.625	5.125	2 1/64	5.125	6,631.86	UCF208-24	**36UY26**
	1 11/16 in	½	4 9/64	23/32	5 13/32	2 1/16	5 13/32	7,103.96	UCF209-27	**36UY30**
	1¾ in	½	4 9/64	23/32	5 13/32	2 1/16	5 13/32	7,103.96	UCF209-28	**36UY31**
	1 15/16 in	½	4.375	23/32	5.625	2 5/32	5.625	7,868.31	UCF210-31	**36UY35**
	2 in	½	4.375	23/32	5.625	2 5/32	5.625	7,868	UCF210-32	**36UY36**
	2 in	⅝	5.125	25/32	6.375	2 5/16	6.375	9,779.19	UCF211-32	**36UY38**
	2 7/16 in	⅝	5.625	25/32	6 57/64	2 45/64	6 57/64	10,723.39	UCF212-39	**36UY45**
	2½ in	⅝	5 59/64	55/64	7 13/32	2.75	7 13/32	12,926.51	UCF213-40	**36UY47**
	3 in	¾	6 1/4	55/64	7.875	3 3/32	7.875	14,837.39	UCF215-48	**36UY53**
Painted Housing Finish, Temp. Range: -40 °F to 250 °F, NTN										
4	1 in	7/16	2.75	0.5	3.75	1 13/32	3.75	3,147	UCF205-100D1	**5RGW1**
	1¼ in	½	3.625	19/32	4 19/32	1.75	4 19/32	5,778	UCF207-104D1	**5RGW4**
	1½ in	⅝	4 1/64	19/32	5.125	2 1/64	5.125	6,542	UCF208-108D1	**5RGW7**
	1 15/16 in	⅝	4.375	0.625	5.625	2 5/32	5.625	7,869	UCF210-115D1	**5RGX0**
Black Oxide Housing Finish, Temp. Range: -40 °F to 250 °F, NTN										
4	1 in	7/16	2.75	19/32	3 25/32	1 17/32	3 25/32	3,147	UCFU-1M	**5RYJ6**
	1½ in	½	4	21/32	5 5/32	2 9/64	5 5/32	6,542	UCFU-1.1/2M	**5RYJ7**
	2 in	⅝	4.375	25/32	5 41/64	2 25/64	5 21/32	7,869	UCFU-2SM	**5RYN1**
	2 in	⅝	5.125	13/16	6 13/32	2 17/32	6 13/32	9,780	UCFUX-2M	**5RYP5**
	2 7/16 in	⅝	5.625	13/16	6.875	2 29/32	6.875	11,803	UCFU-2.7/16M	**5RYN0**
	2 15/16 in	¾	6	0.875	7.875	3 23/64	7.875	16,300	UCFUX-2.15/16M	**5RYP9**
	3 in	¾	6	0.875	7.875	3 23/64	7.875	14,838	UCFU-3M	**5RYN2**
	3 in	¾	6	0.875	7.875	3 23/64	7.875	16,300	UCFUX-3M	**5RYR2**
Powder Coated Housing Finish, Temp. Range: -20 °F to 220 °F, SEALMASTER										
4	1 7/16 in	½	4	19/32	5.125	2 1/32	5.125	7,340	MSF-23	**44A350**
	1½ in	9/16	4.125	9/16	5 13/32	2 1/16	5 13/32	7,901	MSF-24	**44A351**
Black Oxide Housing Finish, Temp. Range: -20 °F to 220 °F, SEALMASTER										
4	1 in	⅜	2.75	17/32	3.75	1 21/64	3.75	2,801	SF-16	**44A518**
	1 3/16 in	7/16	3.25	17/32	4.25	1.5	4.25	4,381	SF-19	**44A521**
	1¼ in	7/16	3.625	9/16	4 19/32	1 11/16	4 19/32	5,782	SF-20	**44A522**
	1 7/16 in	7/16	3.625	9/16	4 19/32	1 11/16	4 19/32	5,782	SF-23	**44A526**
	1½ in	½	4	9/16	5.125	1 59/64	5.125	7,340	SF-24	**44A527**
	1 15/16 in	9/16	4.375	9/16	5.625	2 1/32	5.625	7,889	SF-31	**44A534**
	2 in	⅝	5.125	23/32	6.5	2 3/16	6.5	9,752	SF-32	**44A535**
	2 3/16 in	⅝	5.125	23/32	6.5	2 3/16	6.5	9,752	SF-35	**44A538**
	2 7/16 in	⅝	5.625	23/32	6.875	2 9/16	6.875	11,789	SF-39	**44A541**
Cast Iron, Eccentric Collar Locking										
Painted Housing Finish, Temp. Range: -20 °F to 200 °F, DAYTON										
2	1 in	⅜	3 57/64	1 5/16	4.875	2.75	1 13/16	3,146	3FCW5	**3FCW5**
4	1 in	7/16	2.75	1 11/64	3.75	3.75	1 57/64	3,146	3FCY9	**3FCY9**
	1¼ in	7/16	3.25	1.375	4.25	4.25	2 1/64	5,775	3FCZ3	**3FCZ3**
	1 7/16 in	½	3.625	1.375	4.625	4.625	2 11/64	5,775	3FCZ5	**3FCZ5**
	1½ in	½	4	1 17/32	5.125	5.125	2.375	6,652	3FCZ6	**3FCZ6**

No. of Mount Holes	Bore Dia. (mm)	Bolt Size	Mount Hole C-to-C (mm)*	Flange Thickness (mm)	Overall Dim. (mm) L	W	H	Dyn. Load Cap. (N)	Mfr. Model	Item No.
Cast Iron, Set Screws Locking - Metric										
Painted Housing Finish, Temp. Range: -40 °C to 120 °C, TRITAN										
2	20	M10	90	15	33.3	60.3	112.7	12,800	UCFL204-20MM	**36UY65**
2	25	M10	98.8	12.7	35.7	68.2	130.1	14,000	UCFL205-25MM	**36UY70**
2	30	M10	117	12.7	40.4	80.1	147.6	19,500	UCFL206-30MM	**36UY74**
Painted Housing Finish, Temp. Range: -40 °C to 120 °C, TRITAN										
4	25	M10	69.8	13.8	95.2	35.7	95.2	14,000	UCF205-25MM	**36UY16**
4	30	M10	82.9	13.8	107.9	40.4	107.9	19,500	UCF206-30MM	**36UY20**
4	40	M12	101.9	15.8	130.1	51.1	130.1	29,500	UCF208-40MM	**36UY28**
4	50	M14	111.1	18.2	142.8	54.7	142.8	35,000	UCF210-50MM	**36UY37**

No. of Mount Holes	Bore Dia. (in)	Bolt Size (in)	Mount Hole C-to-C Length (in)*	Flange Thickness (in)	Overall Dim. (in) L	W	H	Dyn. Load Cap. (lbf)	Mfr. Model	Item No.
Pressed Steel, Set Screws Locking										
Rustproof Plated Finish, Temp. Range: -30 °F to 200 °F, Self Aligning Type, DAYTON										
2	½ in	⅜	3	—	4	2	1	2,152	4X727	**4X727**
	⅝ in	⅜	3	—	4	2	1	2,152	4X728	**4X728**
	¾ in	7/16	3.375	—	4.5	2.5	1.125	2,877	4X729	**4X729**
	1 in	7/16	4	—	5	3	1.75	3,153	1A403	**1A403** †
	1 in	7/16	3.375	—	4.5	2.5	1.125	3,153	4X730	**4X730**
Black Oxide Finish, Temp. Range: -20 °F to 220 °F, Rubber Flange Type, SEALMASTER										
2	¾ in	7/16	3.625	—	4.5	2.75	1 ⅜	2,611	SRF-12	**44A587**
	1¼ in	7/16	4.375	—	5.375	3.5	1 21/32	4,381	SRF-20R	**44A593**
Zinc Die Cast, Set Screws Locking										
Unfinished Finish, Temp. Range: -30 °F to 200 °F, Rigid Type, DAYTON										
2	½ in	¼	2.5	—	3.25	2	1 1/16	2,152	1A396	**1A396**
	⅝ in	¼	2.5	—	3.25	2	1 1/16	2,152	1A397	**1A397**
	¾ in	5/16	2 13/16	—	3.625	2.25	1.125	2,877	1A398	**1A398**
	1 in	5/16	3	—	3.875	2.5	1 3/16	3,153	1A399	**1A399**
4	½ in	⅜	2.125	0.375	3	1 1/64	3	1,075	1F552	**1F552**
	⅝ in	⅜	2.125	0.375	3	1 1/64	3	1,075	1F550	**1F550**
	¾ in	⅜	2.5	7/16	3.375	1.125	3.375	1,479	1F548	**1F548**
	1 in	7/16	2.75	7/16	3.75	1.25	3.75	1,768	1F546	**1F546**

**Mount Hole Center-to-Center. †Heavy Gauge.*

No. of Mount Holes	Bore Dia.	Mount Hole C-to-C*	Bolt Size	Overall Dim. L	Overall Dim. W	Overall Dim. H	Lubricant Material	Dyn. Load Cap.	Includes	Min. Temp.	Max. Temp.	Mfr. Model	Item No.
Flange - FDA/USDA-H1 Solid Grease													
PBT - Thermoplastic Housing, Stainless Steel Insert													
2	30-mm	117 mm	M10	80 mm	41.2 mm	148 mm	FDA/USDA-H1 Solid Grease	15,300 N	(2) Set Screws	-20 °C	120 °C	SUCNFL206	**5TPW8**
Stainless Steel Housing, Stainless Steel Insert													
3	20-mm	38.1 mm	M10	63.5 mm	33.7 mm	108 mm	FDA/USDA-H1 Solid Grease	10,100 N	(3) Set Screws	-20 °C	120 °C	SUCFBL204	**49C716**
	25-mm	41.3 mm	M10	70 mm	21.8 mm	120.6 mm		11,000 N	(3) Set Screws	-20 °C	120 °C	SUCFBL205	**49C717**
Flange Mount - FDA/USDA-H1 Solid Grease													
PBT - Thermoplastic Housing, Alloy Steel Insert with Zinc Chromate Coating													
2	1 in	3 5/64 in	7/16 in	5.125 in	1 7/16 in	2.75 in	FDA/USDA-H1 Solid Grease	2,680 lbf	(2) Set Screws	-2 °F	250 °F	ZUCNFL205-16	**46N881**
3	1 in	1.625 in	7/16 in	2.5 in	1.625 in	3.375 in		2,680 lbf	(3) Set Screws	-2 °F	250 °F	ZUCFBL205-16	**49C728**
4	1 in	2.75 in	7/16 in	3.75 in	1 7/16 in	3.75 in		2,680 lbf	(4) Set Screws	-2 °F	250 °F	ZUCFPL205-16	**46N887**
PBT - Thermoplastic Housing, Stainless Steel Insert													
2	1 in	3 5/64 in	3/8 in	5 7/64 in	2 in	2 3/4 in	FDA/USDA-H1 Solid Grease	2,473 lbf	(2) Set Screws	-4 °F	250 °F	SUCNFL205-16CCFG1	**406U35** †
3	1 in	1 5/8 in	3/8 in	2 3/4 in	2 13/64 in	4.75 in		2,271 lbf	(3) Set Screws	-4 °F	250 °F	SUCFBL205-16	**49C722**
4	1 in	2 3/4 in	3/8 in	3 47/64 in	1 7/16 in	3 47/64 in		2,473 lbf	(4) Set Screws	-4 °F	250 °F	SUCFPL205-16CCFG1	**406U41** †
	1 in	2 3/4 in	3/8 in	3 47/64 in	1 7/16 in	3 47/64 in		2,473 lbf	(4) Set Screws	-4 °F	250 °F	SUCFPL205-16C0FG1	**406V03** ‡
Stainless Steel Housing, Stainless Steel Insert													
2	3/4 in	3 35/64 in	7/16 in	4 25/64 in	1 21/64 in	2 11/32 in	FDA/USDA-H1 Solid Grease	2,270 lbf	(2) Set Screws	14 °F	212 °F	SUCFL204-12CCFG1	**406U52** †
	1 in	3 5/64 in	5/8 in	4 29/32 in	1 13/32 in	2 21/32 in		2,470 lbf	(2) Set Screws	14 °F	212 °F	SUCFL205-16CCFG1	**406U53** †
	3/4 in	3 35/64 in	7/16 in	4 25/64 in	1 21/64 in	2 11/32 in		2,270 lbf	(2) Set Screws	14 °F	212 °F	SUCFL204-12	**5TPY2**
	1 in	3 5/64 in	5/8 in	4 29/32 in	1 13/32 in	2 21/32 in		2,470 lbf	(2) Set Screws	14 °F	212 °F	SUCFL205-16	**5TPY3**
3	1 in	1 1/8 in	M8	2 3/8 in	1 13/32 in	4 11/16 in		2,473 lbf	(3) Set Screws	-4 °F	250 °F	SUCFB205-16	**55PC98**
4	1 in	2.75 in	3/8 in	3.75 in	1 13/32 in	3.75 in		2,475 lbf	(2) Set Screws	-20 °F	250 °F	SUCF205-16N	**10H886**
	1 in	2.75 in	7/16 in	3.75 in	1 13/32 in	3.75 in		2,475 lbf	(2) Set Screws	-20 °F	250 °F	SUCF205-16	**5TPX4**
	1 in	2.75 in	7/16 in	3.75 in	1 13/32 in	3.75 in		2,475 lbf	(2) Set Screws	-20 °F	250 °F	SUCF205-16CC	**7AY04** †

406U52

5ZNA5

NTN®

Food-Grade Mounted Rolling-Element Bearings

Solid, flat base construction prevents buildup of particles in difficult to clean areas. Self-aligning design provides optimal performance under high rotational speeds. Replacement inserts are interchangeable; stainless steel inserts offer superior corrosion resistance compared with zinc-plated inserts.

No. of Mount Holes	Bore Dia. (in)	Mount Surface To Shaft Center Ht. (in)	Mount Hole C-to-C (in)*	Bolt Size (in)	Overall Dim. (in) L	Overall Dim. (in) W	Overall Dim. (in) H	Dyn. Load Cap. (lb)	Min. Temp.	Max. Temp.	Mfr. Model	Item No.
Pillow Block - FDA/USDA-H1 Solid Grease												
PBT -Polymer Housing, Stainless Steel Insert												
2	1 1/4	1 11/16	4 43/64	1/2	6.375	1.796	3.265	3,440	-4 °F	212 °F	SUCPPL206-20CCFG1	**406V41** #
	1 1/4	1 55/64	5	1/2	6.562	1.875	3.687	4,520	-4 °F	212 °F	SUCPPL207-20CCFG1	**406U31** #
Stainless Steel Housing, Stainless Steel Insert												
2	1 1/2	1 59/64	5 11/32	1/2	7.244	2.728	3.937	5,130	-4 °F	250 °F	SUCP208-24CCFG1	**406U51** #
	1 7/16	1 55/64	5	M14	6.574	1.889	3.7	4,520	-4 °F	250 °F	SUCP207-23	**10H910**
	3/4	1 19/64	3 47/64	M12	4.96	1.496	2.559	2,270	-4 °F	250 °F	SUCP204-12	**5ZNA5**
	1	1 27/64	4 1/8	M12	5.511	1.496	2.755	2,475	-4 °F	250 °F	SUCP205-16	**10H899**
	1	1 27/64	4 1/8	M10	5.511	1.862	2.755	2,470	-4 °F	250 °F	SUCP205-16CCFG1	**406U47** #
	1	1 27/64	4 1/8	M12	5.511	1.496	2.755	2,470	-4 °F	250 °F	SUCP205-16	**5ZNA6**
Tapped Base Pillow Block - FDA/USDA-H1 Solid Grease												
Stainless Steel Housing, Stainless Steel Insert												
2	1	1 27/64	2	M10 x 1.5	2.992	1.496	2.795	2,470	-4 °F	250 °F	SUCPA205-16	**5ZNC3**

** Mount Hole Center-to-Center. † Includes closed bearing cap. ‡ Includes open bearing cap. #Includes open end cap & closed end cap.*

Bore Dia.	Mount Surface To Shaft Center Ht.	Mount Hole C-to-C*	Bolt Size	Overall Dimensions L	Overall Dimensions W	Overall Dimensions H	Dyn. Load Cap.	Housing Material Finish†	Min. Temp.	Max. Temp.	Brand	Mfr. Model	Item No.
Set Screws Locking, Open Closure													
5/8 in	1 1/16 in	3 5/8 in	M10	4.752 in	1.375 in	2.126 in	2,878 lbf	BO	-40 °F	250 °F	NTN	UCPL-5/8M	**5RYX2**
3/4 in	1 1/4 in	3 49/64 in	M10	5 in	1.5 in	2.531 in	2,878 lbf	BO	-40 °F	250 °F	NTN	UCPL-3/4M	**5RYX1**
Set Screws Locking, Double Sealed Closure													
3/4 in	1.25 in	3 21/32 in	M10	5 in	0.5 in	2.48 in	2,878 lbf	P	-40 °F	250 °F	Tritan	UCPK204-12	**36UZ52**
3/4 in	1.25 in	4 1/8 in	3/8 in	5 in	1.5 in	2.5 in	2,611 lbf	BO	-20 °F	220 °F	Sealmaster	NPL-12	**44A419**
3/4 in	1.25 in	3 49/64 in	3/8 in	5 in	1.25 in	2.468 in	3,190 lbf	PC	-65 °F	200 °F	Timken	SAK 3/4	**46R484**
7/8 in	1 19/64 in	4 1/8 in	M10	5.511 in	0.563 in	2.677 in	3,147 lbf	P	-40 °F	250 °F	Tritan	UCPK205-14	**36UZ53**
1 in	1 5/16 in	4 3/8 in	3/8 in	5.5 in	1.5 in	2.687 in	2,801 lbf	BO	-20 °F	220 °F	Sealmaster	NPL-16	**44A423**
1 in	1 5/16 in	4 1/8 in	3/8 in	5.5 in	1.39 in	2.671 in	3,490 lbf	PC	-65 °F	200 °F	Timken	SAK 1	**46R476**
1 3/16 in	1 9/16 in	4 3/4 in	M12	6.299 in	0.626 in	3.149 in	4,384 lbf	P	-40 °F	250 °F	Tritan	UCPK206-19	**36UZ56**
1 3/16 in	1 9/16 in	5 3/64 in	1/2 in	6.5 in	1.875 in	3.25 in	4,381 lbf	BO	-20 °F	220 °F	Sealmaster	NPL-19	**44A425**
1 3/16 in	1 9/16 in	4 5/8 in	1/2 in	6.187 in	1.562 in	3.156 in	4,850 lbf	PC	-65 °F	200 °F	Timken	SAK 1 3/16	**46R480**
1 1/4 in	1 9/16 in	4 3/4 in	M12	6.299 in	0.626 in	3.149 in	4,384 lbf	P	-40 °F	250 °F	Tritan	UCPK206-20	**36UZ57**
1 1/2 in	1 59/64 in	5 1/2 in	M12	7.126 in	0.748 in	3.937 in	6,632 lbf	P	-40 °F	250 °F	Tritan	UCPK208-24	**36UZ60**
1 3/4 in	2 1/16 in	6 3/64 in	1/2 in	7.5 in	2.125 in	2.187 in	7,901 lbf	BO	-20 °F	220 °F	Sealmaster	NPL-28	**44A434**
25-mm	39.6 mm	105 mm	M10	140 mm	14.3 mm	68 mm	3,147 lbf	P	-40 °C	120 °C	Tritan	UCPK205-16	**36UZ55**
Eccentric Collar Locking, Open Closure													
3/4 in	1 1/4 in	3 49/64 in	M10	5 in	1.5 in	2.531 in	2,878 lbf	BO	-40 °F	250 °F	NTN	UELPL-3/4M	**5RZL3**
1 in	1 19/64 in	4 1/8 in	M10	5.5 in	1.5 in	2.689 in	3,147 lbf	BO	-40 °F	250 °F	NTN	UELPL-1M	**5RZH9**
1 3/16 in	1 9/16 in	4 5/8 in	1/2 in	6.5 in	1.874 in	3.157 in	4,384 lbf	BO	-40 °F	250 °F	NTN	UELPL-1.3/16M	**5RZJ5**
1 3/16 in	1 9/16 in	4 3/4 in	1/2 in	6.496 in	1.875 in	3.149 in	4,384 lbf	P	-40 °F	250 °F	NTN	UELPL206-103D1W3	**5ZUT7**
Eccentric Collar Locking, Double Sealed Closure													
3/4 in	1.25 in	3 49/64 in	3/8 in	5 in	1.296 in	2.515 in	3,190 lbf	PC	-65 °F	200 °F	Timken	RAK 3/4	**46R422**
1 in	1 5/16 in	4 1/8 in	3/8 in	5.5 in	1.468 in	2.734 in	3,490 lbf	PC	-65 °F	200 °F	Timken	RAK 1	**46R396**
1 in	1 5/16 in	4 1/8 in	3/8 in	5.5 in	1.39 in	2.687 in	3,490 lbf	PC	-65 °F	200 °F	Timken	VAK 1	**46R538**
1 3/16 in	1 9/16 in	4 5/8 in	1/2 in	6.187 in	1.562 in	3.156 in	4,850 lbf	PC	-65 °F	200 °F	Timken	VAK 1 3/16	**46R545**
1 7/16 in	1 13/16 in	5 1/8 in	1/2 in	6.562 in	1.828 in	3.687 in	6,400 lbf	PC	-65 °F	200 °F	Timken	RAK 1 7/16	**46R409**
1 1/2 in	1 59/64 in	5 23/64 in	1/2 in	7.062 in	2.015 in	4 in	8,130 lbf	PC	-65 °F	200 °F	Timken	RAK 1 1/2	**46R398**
1 11/16 in	2 1/16 in	5 7/8 in	1/2 in	7.515 in	2.062 in	4.125 in	8,160 lbf	PC	-65 °F	200 °F	Timken	RAK 1 11/16	**46R402**
1 15/16 in	2 11/64 in	6 7/32 in	5/8 in	7.859 in	2.265 in	4.421 in	8,740 lbf	PC	-65 °F	200 °F	Timken	RAK 1 15/16	**46R403**
2 3/16 in	2 27/64 in	6 59/64 in	5/8 in	8.75 in	2.359 in	4.968 in	10,800 lbf	PC	-65 °F	200 °F	Timken	RAK 2 3/16	**46R418**
20-mm	31.7 mm	98 mm	M10	127 mm	43.7 mm	63 mm	2,877 lbf	P	-40 °C	120 °C	Tritan	HCPK204-12	**36UX73**
25-mm	33.3 mm	105 mm	M10	140 mm	44.4 mm	68 mm	3,147 lbf	P	-40 °C	120 °C	Tritan	HCPK205-16	**36UX74**

**Mount Hole Center-to-Center. †BO=Black Oxide, P=Painted, PC=Powder Coated.*

46R396

NTN® TRITAN SEALMASTER® TIMKEN

Low-Base Pillow Block Ball Bearings

- Cast-iron housing, alloy steel insert
- 2 mounting holes, metric sized bearings have M10 bolt size

Feature ball-shaped rolling elements that have a small contact surface with the bearing raceway which reduces friction. The low friction allows the ball bearings to run at higher speeds but with a lower load capacity than roller bearings. Low-Base have a bore that is positioned closer to the mounting surface for low-clearance installations.

General Purpose Tapped-Base Pillow Block Ball Bearings

TRITAN

- 2-bolt mounting, set screw locking
- Double sealed closure
- Temp. range: -40° to 250°F

Cast-iron construction with a tapped base that allows bolts to be threaded up into the bearing from below the surface. Bearings have a smaller footprint than standard pillow block bearings and are for use in tight spaces.

Bore Dia. (in)	Mount Surface To Shaft Center Ht. (in)	Mount Hole Center -to- Center (in)	Bolt Size (in)	Overall Dim. (in) L	Overall Dim. (in) W	Overall Dim. (in) H	Dynamic Radial Load Capacity	Mfr. Model	Item No.
3/4	1 19/64	2	3/8"-16	2.559	1.22	2.519	2,877	UCPA204-12A	**36UZ48**
1	1 19/64	2	3/8"-16	2.755	1.342	2.755	3,147	UCPA205-16A	**36UZ49**

36UZ48

Rubber-Cushioned Pillow Block Ball Bearings

SEALMASTER

44A602

- Steel housing with black oxide finish, alloy steel insert
- Temp. range: -20° to 220°F

Ball-shaped rolling elements have a small contact surface with the bearing raceway which reduces friction and allows the ball bearings to run at higher speeds but with a lower load capacity than roller bearings. Constructed with a rubber-cushioned liner that dissipates static and limits vibration and noise. Bearings are for use in light-duty applications such as air handling.

Bore Dia. (in)	Mount Surface To Shaft Center Ht. (in)	Mount Hole Center-to-Center (in)	Bolt Size (in)	Overall Dim. (in) L	W	H	Dyn. Radial Load Cap. (lbf)	Mfr. Model	Item No.
2 Bolt, Set Screws Locking, Double Sealed Closure									
½	1.5	3.63	⅜	4.75	1.437	2.812	200	SRP-8	**44A604**
⅝	1.5	3.63	¾	4.75	1.437	2.812	200	SRP-10	**44A595**
¾	1.5	3.63	⅜	4.75	1.437	2.812	200	SRP-12	**44A596**
⅞	1.5	3.63	⅜	4.75	1.437	2.812	200	SRP-14	**44A597**
1	1.5	3.63	⅜	4.75	1.437	2.812	200	SRP-16	**44A599**
1 3/16	1.75	4.13	¾	5.25	1.734	3.375	300	SRP-19	**44A602**
1¼	1.75	4.13	¾	5.25	1.734	3.375	300	SRP-20R	**44A603**

NTN Dayton TRITAN SEALMASTER TIMKEN

3FCP4

General Purpose Pillow Block Ball Bearings

- Alloy steel insert
- 2-bolt mounting

Produce less friction and can run at high speeds but with a lower load capacity than roller bearings. Models with black oxide finish feature superior environmental protection. Suitable for use in air and material handling, packaging, and dry-goods processing.

Bore Dia. (in)	Mount Surface To Shaft Center Ht. (in)	Mount Hole Center-to-Center (in)	Bolt Size (in)	Overall Dim. (in) L	W	H	Dyn. Radial Load Cap. (lbf)	Mfr. Model	Item No.
Eccentric Collar Locking, Open Closure - Standard									
Cast Iron Housing with Black Oxide Finish, Temp. Range: -40 °F-250 °F, NTN									
1	1.437	4.126	M10	5.5	1.5	2.779	3,147	UELP-1M	**5RZF2**
1 3/16	1.688	4.626	½	6.5	1.875	3.279	4,384	UELP-1.3/16M	**5RZF9**
1 7/16	1.873	5.126	½	6.563	1.875	3.657	5,778	UELP-1.7/16M	**5RZG3**
Set Screws Locking, Double Sealed Closure									
Cast Iron Housing with Painted Finish, Temp. Range: -20 °F-200 °F, DAYTON									
½	1.187	3.75	⅜	5	1.5	2.468	2,146	3FCN9	**3FCN9**
⅝	1.187	3.75	⅜	5	1.5	2.468	2,146	3FCP1	**3FCP1**
¾	1.312	3.75	⅜	5	1.5	2.484	2,876	3FCP2	**3FCP2**
¾	1.312	3.75	⅜	5	1.5	2.484	2,876	3FDA4	**3FDA4**
⅞	1.437	4.13	⅜	5	1.5	2.75	3,146	3FCP3	**3FCP3**
1	1.437	4.13	⅜	5.5	1.5	2.75	3,146	3FCP4	**3FCP4**
1	1.437	4.13	⅜	5.5	1.5	2.75	3,146	3FDA5	**3FDA5**
1⅛	1.687	4.75	½	6.5	1.875	3.312	4,382	3FCP5	**3FCP5**
1 3/16	1.687	4.75	½	6.5	1.875	3.312	4,382	3FCP6	**3FCP6**
1 3/16	1.687	4.75	½	6.5	1.875	3.312	4,382	3FDA1	**3FDA1**
1¼	1.687	5	½	6.562	1.688	3.656	5,775	3FCP7	**3FCP7**
1¼	1.875	4.75	½	6.5	1.875	3.312	4,382	3FCP8	**3FCP8**
1¼	1.875	5	½	6.562	1.875	3.656	5,775	3FDA2	**3FDA2**
1⅜	1.875	5	½	6.562	1.875	3.656	5,775	3FCP9	**3FCP9**
1 7/16	1.875	5	½	6.562	1.875	3.656	5,775	3FCR1	**3FCR1**
1 7/16	1.875	5	½	6.562	1.875	3.656	5,775	3FDA6	**3FDA6**
1½	1.937	5.41	½	7.25	2.125	3.843	6,652	3FCR2	**3FCR2**
1⅝	2.125	5.75	½	7.468	2.125	4.187	7,157	3FCR3	**3FCR3**
1 11/16	2.125	5.75	½	7.468	2.125	4.187	7,157	3FCR4	**3FCR4**
1¾	2.125	5.75	½	7.468	2.125	4.187	7,157	3FCR5	**3FCR5**
1 15/16	2.25	6.25	⅝	8.125	2.375	4.437	7,888	3FCR6	**3FCR6**
1 15/16	2.25	6.25	½	8.125	2.375	4.437	7,888	3FDA7	**3FDA7**
2	2.5	6.72	⅝	8.625	2.375	4.875	9,787	3FCR8	**3FCR8**
2 7/16	2.75	7.25	⅝	9.5	2.75	5.437	10,742	3FCR9	**3FCR9**
Cast Iron Housing with Painted Finish, Temp. Range: -40 °F-250 °F, TRITAN									
½	1.187	3.74	M10	5	1.22	2.44	2,877.55	UCP201-8 (47MM)	**36UY98**
¾	1.312	3.779	M10	5	0.984	2.511	2,877.55	SBP204-12G	**36UY07**
¾	1.312	3.74	M10	5	1.22	2.559	2,877.55	UCP204-12	**36UZ02**
⅞	1.437	4.133	M10	5.511	1.342	2.795	3,147.33	UCP205-14	**36UZ04**
1	1.437	4.133	M10	5.511	1.063	2.736	3,147.33	SBP205-16G	**36UY08**
1⅛	1.687	4.763	½	6.299	1.5	3.307	4,383.77	UCP206-18	**36UZ08**
1 3/16	1.687	4.763	½	6.299	1.5	3.307	4,383.77	UCP206-19	**36UZ09**
1¼	1.687	4.763	½	6.299	1.5	3.307	4,383.77	UCP206-20	**36UZ10**
1¼	1.187	5	½	6.574	1.689	3.661	5,777.59	UCP207-20	**36UZ12**
1⅜	1.187	5	½	6.574	1.689	3.661	5,777.59	UCP207-22	**36UZ14**
1 7/16	1.187	5	½	6.574	1.689	3.661	5,777.59	UCP207-23	**36UZ15**
1½	1.937	5.393	½	7.244	1.937	3.937	6,631.86	UCP208-24	**36UZ17**
1⅝	2.124	5.748	½	7.48	1.937	4.173	7,103.96	UCP209-26	**36UZ20**
1⅞	2.249	6.259	⅝	8.11	2.031	4.448	7,868.31	UCP210-30	**36UZ25**
1 15/16	2.249	6.259	⅝	8.11	2.031	4.448	7,868.31	UCP210-31	**36UZ26**
2	2.249	6.259	⅝	8.11	2.031	4.448	7,868.31	UCP210-32	**36UZ27**
2	2.5	6.732	⅝	8.622	2.189	4.921	9,779.19	UCP211-32	**36UZ29**
2¼	2.749	7.244	⅝	9.488	2.563	5.433	10,723.39	UCP212-36	**36UZ33**
2⅜	2.749	7.244	⅝	9.488	2.563	5.433	10,723.39	UCP212-38	**36UZ34**
2 7/16	2.749	7.244	⅝	9.488	2.563	5.433	10,723.39	UCP212-39	**36UZ35**
2½	2.999	7.992	¾	10.433	2.563	5.905	12,926.51	UCP213-40	**36UZ37**
2¾	3.125	8.267	¾	10.472	2.937	6.141	13,668.38	UCP214-44	**36UZ40**
3	3.249	8.543	¾	10.826	3.063	6.378	14,837.39	UCP215-48	**36UZ43**

Bore Dia. (in)	Mount Surface To Shaft Center Ht. (in)	Mount Hole Center-to-Center (in)	Bolt Size (in)	Overall Dim. (in) L	W	H	Dyn. Radial Load Cap. (lbf)	Mfr. Model	Item No.
Cast Iron Housing with Black Oxide Finish, Temp. Range: -20 °F-220 °F, SEALMASTER									
¾	1.312	4.13	⅜	5	1.5	5.562	2,611	NP-12	**44A385**
1	1.437	4.38	⅜	5.5	1.5	2.812	2,801	NP-16	**44A389**
1 3/16	1.687	5.06	½	6.5	1.875	3.375	4,381	NP-19	**44A392**
1¼	1.875	5.31	½	6.562	1.875	3.75	5,782	NP-20	**44A393**
1 7/16	1.875	5.31	½	6.562	1.875	3.75	5,782	NP-23	**44A397**
1½	1.937	5.88	½	7.25	2.125	3.937	7,340	NP-24	**44A398**
1 11/16	2.125	6.06	½	7.5	2.125	4.25	7,901	NP-27	**44A402**
1¾	2.125	6.06	½	7.5	2.125	4.25	7,901	NP-28	**44A403**
1 15/16	2.25	6.5	⅝	8.125	2.375	4.562	7,889	NP-31	**44A406**
2	2.5	7.2	⅝	8.625	2.375	5	9,752	NP-32	**44A407**
2 3/16	2.5	7.2	⅝	8.625	2.375	5	9,752	NP-35	**44A410**
2 7/16	2.75	7.63	⅝	9.5	2.75	5.562	11,789	NP-39	**44A412**
Cast Iron Housing with Powder Coated Finish, Temp. Range: -65 °F-200 °F, TIMKEN									
1	1.421	4.126	⅜	5.5	1.39	2.796	3,490	SAS 1	**46R486**
1 3/16	1.671	4.626	½	6.187	1.562	3.265	4,850	SAS 1 3/16	**46R493**
2 3/16	2.5	6.937	⅝	8.75	2.296	4.968	10,800	SAS 2 3/16	**46R499**
Cast Iron Housing with Powder Coated Finish, Temp. Range: -65 °F-200 °F, TIMKEN - Industrial-duty									
1	1.421	4.126	⅜	5.5	1.468	2.859	3,490	YAS 1 SGT	**46R639**
1½	1.921	5.374	½	7.062	2.015	4	8,130	YAS 1 ½ SGT	**46R627**
Set Screws Locking, Open Closure - Standard									
Cast Iron Housing with Black Oxide Finish, Temp. Range: -40 °F-250 °F, NTN									
¾	1.31	3.779	M10	5	1.5	2.563	2,878	UCP-3/4M	**5RYU7**
15/16	1.437	4.126	M10	5.5	1.5	2.779	3,147	UCP-15/16M	**5RYT9**
1	1.437	4.126	M10	5.5	1.5	2.779	3,147	UCP-1M	**5RYR3**
1	1.31	4.126	M10	5.5	1.5	2.689	3,147	UCPL-1M	**5RYV0**
1 3/16	1.688	4.626	½	6.5	1.875	3.279	4,384	UCP-1.3/16M	**5RYT0**
1 7/16	1.873	5.126	½	6.563	1.875	3.657	5,778	UCP-1.7/16M	**5RYT5**
1½	1.936	5.374	½	7.252	2.125	3.842	6,542	UCP-1.1/2M	**5RYR4**
1 11/16	2.126	5.874	½	7.468	2.125	4.189	7,306	UCP-1.11/16M	**5RYR8**
1 15/16	2.251	6.22	⅝	8.126	2.375	4.5	7,868	UCP-1.15/16M	**5RYR9**
2	2.5	6.937	⅝	8.625	2.375	4.968	9,779	UCP-2M	**5RYU0**
2	2.251	6.22	⅝	8.126	2.375	4.5	7,868	UCP-2SM	**5RYU5**
2 3/16	2.5	6.937	⅝	8.626	2.375	4.968	9,779	UCP-2.3/16M	**5RYU2**
2 7/16	2.751	7.405	⅝	9.5	2.75	5.437	11,802	UCP-2.7/16M	**5RYU4**
2 15/16	3.251	8.5	¾	10.811	2.906	6.405	14,837	UCP-2.15/16M	**5RYU1**
3	3.251	8.5	¾	10.811	2.906	6.405	14,837	UCP-3M	**5RYU6**
Cast Iron Housing with Painted Finish, Temp. Range: -40 °F-250 °F, NTN									
¾	1.31	3.74	M10	5	1.5	2.559	2,878	UCP204-012D1	**5ZUF9**
1	1.437	4.133	M10	5.511	1.5	2.795	3,147	UCP205-100D1	**5ZUG1**
1⅛	1.688	4.763	½	6.496	1.875	3.267	4,384	UCP206-102D1	**5ZUG2**
1 3/16	1.688	4.763	½	6.496	1.875	3.267	4,384	UCP206-103D1	**5ZUG3**
1¼	1.688	4.763	½	6.496	1.875	3.267	4,384	UCP206-104D1	**5ZUG4**
1 7/16	1.873	5	½	6.574	1.875	3.661	5,778	UCP207-107D1	**5ZUG7**
2 7/16	2.747	7.244	⅝	9.488	2.75	5.433	11,802	UCP212-207D1	**5ZUH5**

Bore Dia. (mm)	Mount Surface To Shaft Center Ht. (mm)	Mount Hole Center-to-Center (mm)	Bolt Size	Overall Dim. (mm) L	W	H	Dyn. Radial Load Cap. (lbf)	Mfr. Model	Item No.
Set Screws Locking, Double Sealed Closure - Metric									
Cast Iron Housing with Painted Finish, Temp. Range: -40 °C-120 °C, TRITAN									
25	36.5	105	M10	140	34.1	71	3,147.33	UCP205-16	**36UZ06**
30	42.8	121	M12	160	38.1	84	4,383.77	UCP206-30MM	**36UZ11**
40	49.2	137	M12	184	49.2	100	6,631.86	UCP208-40MM	**36UZ19**
50	57.1	159	M12	206	51.6	113	7,868.31	UCP210-50MM	**36UZ28**
35	30.1	127	M12	167	42.9	93	5,777.59	UCP207-35MM	**36UZ16**
45	53.9	146	M12	190	49.2	106	7,103.96	UCP209-45MM	**36UZ23**

Bore Dia. (in)	Mount Surface To Shaft Center Ht. (in)	Mount Hole Center-to-Center (in)	Bolt Size (in)	Overall Dim. (in) L	W	H	Dyn. Radial Load Cap. (lbf)	Mfr. Model	Item No.
Pressed Steel Housing, Set Screws Locking									
Self Aligning, Heavy Gauge Type, Temp. Range:-30 °F-200 °F, DAYTON									
⅝	1.312	3.44	7/16	4.437	1.687	2.625	1,479	2X404	**2X404**
¾	1.312	3.44	7/16	4.437	1.687	2.625	1,479	2X405	**2X405**
1	1.5	4	½	5.187	1.875	2.875	1,768	2X406	**2X406**
Self Aligning Type, Temp. Range:-30 °F-200 °F, DAYTON									
½	0.937	3.19	7/16	4.187	1.187	1.875	1,075	2X897	**2X897**
⅝	0.937	3.19	7/16	4.187	1.187	1.875	1,075	2X898	**2X898**
¾	1.187	3.44	7/16	4.437	1.312	2.312	1,479	2X899	**2X899**
1	1.187	3.44	7/16	4.437	1.312	2.312	1,768	2X900	**2X900**
Zinc Die Cast Housing, Set Screws Locking									
Rigid Type, Temp. Range: -30 °F-200 °F, DAYTON									
⅝	1.125	3.38	⅜	4.25	1.312	2.312	1,479	4X724	**4X724**
¾	1.125	3.38	⅜	4.25	1.312	2.312	1,479	4X725	**4X725**
1	1.25	3.63	⅜	4.625	1.375	2.5	1,768	4X726	**4X726**

Dayton SEALMASTER NTN

Light and Medium Duty Pillow Block Bearings

3FGA4

Produce less friction and can run at high speeds but with a lower load capacity than roller bearings. Cast-iron housing is wear resistant and dampens vibration. Alloy steel bearing insert has high tensile strength and wear resistance. 2-bolt mounting; setscrew locking. **Light Duty** for fans/blowers in air handling applications. **Medium Duty** for use in material handling and packaging.

Bore Dia. (in)	Mount Surface To Shaft Center Ht. (in)	Mount Hole Center -to- Center (in)	Bolt Size (in)	Dyn. Radial Load Cap. (lbf)	Overall Dim. (in) L	W	H	Mfr. Model	Item No.
Light Duty Pillow Block Ball Bearings									
Double Sealed Closure, Temp. Range: -20 °F to 200 °F, DAYTON									
½	1.187	3.63	⅜	2,146	4.875	1.218	2.25	3CUR1	**3CUR1**
⅝	1.187	3.63	⅜	2,146	4.875	1.218	2.25	3CUR2	**3CUR2**
¾	1.312	3.75	7/16	2,876	5	1.5	2.484	3FGA3	**3FGA3**
1	1.437	4.13	7/16	3,146	5.5	1.5	2.75	3FGA4	**3FGA4**
1¼	1.687	4.75	½	4,382	6.5	1.875	3.312	3FCN1	**3FCN1**
Open Closure, Temp. Range: -40 °F to 250 °F, NTN									
1	1.437	4.126	M10	3,147	5.5	1.5	2.779	ARP-1	**5ZMW9**
Medium Duty Pillow Block Ball Bearings									
Double Sealed Closure, Temp. Range: -20 °F to 200 °F, DAYTON									
1	1.75	4.69	½	4,382	6.25	2	3.375	3FDC3	**3FDC3**
1 3/16	1.875	5	½	5,775	6.875	2.25	3.687	3FDC4	**3FDC4**
1 7/16	2.125	5.66	½	6,652	8	2.25	4.125	3FDC5	**3FDC5**
1½	2.312	6.16	⅝	7,157	8.75	2.625	4.5	3FDC6	**3FDC6**
1 11/16	2.312	6.16	⅝	7,888	8.75	2.625	4.562	3FDC7	**3FDC7**
1 15/16	2.5	6.78	⅝	9,787	9.5	2.875	4.968	3FDC9	**3FDC9**
2	2.75	7.25	¾	9,787	10.25	3.125	5.468	3FDD1	**3FDD1**
2 3/16	2.75	7.25	¾	10,742	10.25	3.125	5.468	3FDD2	**3FDD2**
2 7/16	3	8	¾	12,854	11.25	3.281	5.968	3FDD3	**3FDD3**
2 15/16	3.5	9.03	⅞	16,280	13	3.5	6.875	3FDD4	**3FDD4**
Double Sealed Closure, Temp. Range: -20 °F to 220 °F, SEALMASTER									
1	1.75	5.19	½	4,381	6.25	2	3.437	MP-16	**44A315**
1 3/16	1.875	5.5	½	5,782	6.875	2.25	3.812	MP-19	**44A317**
1 7/16	2.125	6.38	½	7,340	8	2.25	4.187	MP-23	**44A320**
1 11/16	2.312	6.81	⅝	7,889	8.75	2.625	4.625	MP-27	**44A322**
1 15/16	2.5	7.56	⅝	9,752	9.5	2.875	5.093	MP-31	**44A325**
2 3/16	2.75	7.94	¾	11,789	10.25	3.125	5.625	MP-35	**44A328**
2 7/16	3	8.88	¾	13,971	11.25	3.25	6.25	MP-39	**44A331**
2 11/16	3.5	10.13	⅞	14,839	13	3.5	7	MP-43	**44A334**
Open Closure, Temp. Range: -40 °F to 250 °F, NTN									
1	1.688	4.626	½	4,384	6.5	1.875	3.279	UCPX-1M	**5RYX4**
1 3/16	1.873	5.126	½	5,778	6.563	1.875	3.657	UCPX-1.3/16M	**5RYX9**
1 7/16	2.126	5.374	½	6,542	7.063	1.875	4.126	UCPX-1.7/16M	**5RYY1**
1½	2.126	5.874	½	7,306	7.468	2.125	4.189	UCPX-1.1/2M	**5RYX5**
1 11/16	2.251	6.22	⅝	7,868	8.126	2.375	4.5	UCPX-1.11/16M	**5RYX7**
1 15/16	2.5	6.937	⅝	9,779	8.626	2.375	4.968	UCPX-1.15/16M	**5RYX8**
2 3/16	2.751	7.405	⅝	11,802	9.5	2.75	5.437	UCPX-2.3/16M	**5RYY8**
2 7/16	2.999	8	¾	13,938	10.468	2.843	6.063	UCPX-2.7/16M	**5RYY9**
2½	2.999	8	¾	13,938	10.468	2.843	6.063	UCPX-2.1/2M	**5RYY4**
2 11/16	3.499	9	¾	14,837	13	3.5	7	UCPX-2.11/16M	**5RYY6**

Flange-Mount Spherical and Tapered Roller Bearings

60JR05

Bearings have a plate that is bolted to a surface and supports a shaft running through the bearing perpendicular to the surface, and it allows different mounting configurations. Double sealed closure helps keep out contaminants and keeps lubricants from seeping out. Cast-iron housing is wear resistant and dampens vibration. Alloy steel bearing insert has high tensile strength and wear resistance. 4-bolt mounting; setscrew locking. **Flange-Mount Spherical** feature a design that makes the spherical roller bearings less likely to become misaligned on the shaft. **Flange-Mount Tapered** can support heavy radial, axial, or thrust loads.

Bore Dia. (in)	Mount Hole Center -to- Center (in)	Flange Thick-ness	Bolt Size (in)	Dyn. Load Cap. (lbf)	Overall Dim. (in) L	W	H	Mfr. Model	Item No.
Flange-Mount Spherical Roller Bearings									
Circular Housing Type, Temp. Range: -40 °F to 205 °F									
2½	6.5	0.625	½	33,300	7.625	3.5	7.625	19231208	**60JP65**
3 15/16	8.625	15/16	¾	69,900	10.25	4.25	10.25	19231315	**60JP68**
Flange-Mount Tapered Roller Bearings									
Circular Housing Type, Temp. Range: -40 °F to 250 °F									
2	5.375	1 3/16	7/16	10,300	6.375	3.5	6.375	19331200	**60JR40**
Square Housing Type, Temp. Range: -40 °F to 250 °F									
1 3/16	2.875	1	⅜	3,810	3.75	2.75	3.75	19311103	**60JR05**
1¼	2.875	1	⅜	3,810	3.75	2.75	3.75	19311104	**60JR06**
2	4.375	1 3/16	½	10,300	5.625	3.5	5.625	19311200	**60JR14**
2 15/16	6	1.625	¾	12,300	7.75	4.5	7.75	19311215	**60JR18**
3	6	1.625	¾	12,300	7.75	4.5	7.75	19311300	**60JR19**

SEALMASTER

Corrosion-Resistant Take-Up Unit Bearings

44D175

Used to help maintain belt tension and ensure track alignment on conveyor systems. Stainless steel housing, bearing insert, and radial ball bearings resist rust and corrosion. Include a guide frame, positioning screw, and hardware for mounting to belt-driven equipment.

Bore Dia (in)	Overall Dimensions (in) H	L	W	Compatible Frame	Min. Temp.	Max. Temp.	Mfr. Model	Item No.
1	4	4.437	1.75	Sth 17 Thru 19-6 Dzu	-20 °F	220 °F	MST-16	**44D175**
1 3/16	4	5.062	1.75	Sth 20 Thru 23-12 Dzu	-20 °F	220 °F	MST-19	**44D176**
1¼	4	5.062	1.75	Sth 20 Thru 23-12 Dzu	-20 °F	220 °F	MST-20	**44D177**
1 7/16	4.5	5.687	2.125	Sth 24 Thru 28-12 Dzu	-20 °F	220 °F	MST-23	**44D180**
1½	4.625	5.687	2.187	Sth 24 Thru 28-12 Dzu	-20 °F	220 °F	MST-24	**44D181**
1 11/16	4.625	5.875	2.187	Sth 30 Thru 31-12 Dzu	-20 °F	220 °F	MST-27	**44D182**
1 15/16	5.75	6.75	2.25	Sth 32 Thru 35-12 Dzu	-20 °F	220 °F	MST-31	**44D184**
2	5.75	6.75	2.25	Sth 32 Thru 35-12 Dzu	-20 °F	220 °F	MST-32	**44D185**
2 15/16	7.25	9.25	3.375	Sth 40 Thru 47-12 Dzu	-20 °F	220 °F	MST-47	**44D191**

SEALMASTER NTN TRITAN TIMKEN Dayton

Insert Bearings

36UZ61

Used to replace worn or damaged bearings in an existing mounted bearing housing. Double sealed closure helps keep out contaminants and keeps lubricants from seeping out. Extended inner ring with a locking device for quick installation on a shaft. **Retaining-Ring Cylindrical** have a groove cut in the outer ring of the bearing to accommodate a retaining ring. **General Purpose Spherical** feature an outer ring with a slightly rounded profile to resist misalignment between the shaft and the bearing housing. **Rubber-Mounted** have a rubber-cushioned liner that dissipates static and limits vibration and noise.

Note: Additional types and sizes are available on Grainger.com.

Bore Dia. (in)	Outside Dia.	Outer Ring Width (in)	Dyn. Radial Load Cap. (lbf)	Seal Material	Min. Temp.	Max. Temp.	Brand†	Mfr. Model	Item No.
Retaining-Ring Cylindrical Insert Bearings									
Alloy Steel Ring, Set Screws Locking									
¾	1 27/32	0.625	2,611	Felt	-20 °F	220 °F	SM	ER-12	**44A656**
¾	1 27/32	0.669	2,875	Nitrile Rubber	-4 °F	250 °F	NTN	UCS204-012LD1NR	**5ZUK0**
1	2 3/64	0.748	3,147	Rubber	-40 °F	250 °F	Tritan	ER16	**36UZ71**
1	2 3/64	0.75	2,801	Felt	-20 °F	220 °F	SM	ER-16	**44A660**
1	2 3/64	0.669	3,150	Nitrile Rubber	-4 °F	250 °F	NTN	UCS205-100LD1NR	**5ZUK2**
1 7/16	2 53/64	0.937	5,777	Rubber	-40 °F	250 °F	Tritan	ER23	**36UZ77**
1½	3 9/64	1.094	6,631	Rubber	-40 °F	250 °F	Tritan	ER24	**36UZ78**
General Purpose Spherical Insert Bearings									
Alloy Steel Ring, Eccentric Collar Locking									
¾	1 27/32	0.551	3,192.446	Rubber	—	250 °F	Timken	RA012RRB	**46N510**
1	2 3/64	0.593	3,147.33	Rubber	-40 °F	250 °F	Tritan	SA205-16	**36VA33**
1	2 3/64	0.591	3,484.712	Rubber	—	250 °F	Timken	RA100RRB	**46N514**
Alloy Steel Ring, Set Screws Locking									
⅝	1 9/16	0.468	2,158.17	Rubber	-40 °F	250 °F	Tritan	SB202-10	**36VA47**
¾	1 27/32	0.546	2,877.55	Rubber	-40 °F	250 °F	Tritan	SB204-12	**36VA49**
¾	1 27/32	0.629	2,877.55	Rubber	-40 °F	250 °F	Tritan	UC204-12	**36VA69**
1	2 3/64	0.593	3,147.33	Rubber	-40 °F	250 °F	Tritan	SB205-16	**36VA53**
1	2 3/64	0.59	3,147	Rubber	-40 °F	250 °F	Tritan	SB205-16G	**36VA54**
1	2 3/64	0.669	3,147.33	Rubber	-40 °F	250 °F	Tritan	UC205-16	**36VA73**
1	2 3/64	0.591	3,484.712	Rubber	—	250 °F	Timken	GYA100RRB	**46N494**
1 3/16	2 7/16	0.748	4,383.77	Rubber	-40 °F	250 °F	Tritan	UC206-19	**36VA77**
1¼	2 7/16	0.748	4,383.77	Rubber	-40 °F	250 °F	Tritan	UC206-20	**36VA78**
1⅜	2 53/64	0.787	5,777.59	Rubber	-40 °F	250 °F	Tritan	UC207-22	**36VA82**
1 7/16	2 53/64	0.787	5,777.59	Rubber	-40 °F	250 °F	Tritan	UC207-23	**36VA83**
1½	3 9/64	0.826	6,631.86	Rubber	-40 °F	250 °F	Tritan	UC208-24	**36VA85**
Stainless Steel Ring, Set Screws Locking									
1	2 3/64	0.669	2,475	Silicone	-4 °F	250 °F	NTN	SUC205-16FG1	**46N986**
General Purpose Cylindrical Insert Bearings									
Alloy Steel Ring, Eccentric Collar Locking									
¾	1 41/64	0.472	2,100	Rubber	-40 °F	250 °F	Tritan	CSA104-12	**36UZ61**
Alloy Steel Ring, Set Screws Locking									
1	2 3/64	0.59	3,147	Rubber	-40 °F	250 °F	Tritan	CSB205-16	**36UZ67**

Bore Dia. (in)	Outside Dia. (in)	Overall Width (in)	Dyn. Radial Load Cap. (lbf)	Min. Temp.	Max. Temp.	Brand	Mfr. Model	Item No.
Rubber-Mounted Insert Bearings								
Alloy Steel Ring, Eccentric Collar Locking								
¾	2 17/32	1.406	2,876	-20 °F	220 °F	Dayton	3FDE9	**3FDE9**
1	2 17/32	1.421	—			Tritan	RCSM16	**36VA20**
1	2 17/32	1.406	3,146	-20 °F	220 °F	Dayton	3FDF1	**3FDF1**
Alloy Steel Ring, Set Screws Locking								
⅝	2 17/32	1.14	2,146	-20 °F	220 °F	Dayton	3FDF3	**3FDF3**
¾	2 17/32	1.218	2,876	-20 °F	220 °F	Dayton	3FDF4	**3FDF4**
1	2 17/32	1.281	3,146	-20 °F	220 °F	Dayton	3FDF5	**3FDF5**

†SM = Sealmaster.

55PW95

55PZ06

NTN

Tapered Roller Bearing Cones and Cups

Carry maximum combinations of radial and thrust loads simultaneously. Feature roller guiding inner ring construction. Roller bearing cones have steel cages and are nonlubricated. Use in lower-speed applications where there is a high degree of thrust or radial load, shock loads, and/or alternating thrust and radial loads.

Note: When replacing bearings, replace both cone and cup to ensure optimum performance and longer life.

Bearing Industry Number	Bore Dia.	Outside Dia.	Cone Width	Dynamic Load Capacity	Compatible Cup Manufacturer Part Number	Cone Item No.	Cup Item No.
LM11949V1	¾ in	1.634 in	0.875 in	31.5 kN	LM11910	**1YTV2**	**55PY97**
LM11749	43/64 in	1.457 in	0.575 in	26.4 kN	LM11710	**55PY96**	**55PY95**
LM67048V2	1 ¼ in	2.205 in	0.78 in	38.5 kN	LM67010	**1YTV8**	**55PZ09**
25580	1 ¾ in	3.031 in	1 in	84.5 kN	25520	**55PX28**	**55PX27**
L68149V1	1 ⅜ in	2.205 in	0.78 in	39 kN	L68110, L68111	**1YTW3**	**1YTW4**
LM48548	1 ⅜ in	2.402 in	0.72 in	51.5 kN	LM48510	**55PZ05**	**55PZ04**
LM501349	1 ⅝ in	2.756 in	0.78 in	62 kN	LM501310	**55PZ07**	**55PZ06**
JLM104948	1 31/32 in	3.071 in	0.846 in	77.5 kN	JLM104910	**55PY74**	**55PY73**
L44643	1 in	1.85 in	0.58 in	32 kN	L44610	**1YTV6**	**55PY88**
07100	1 in	1.85 in	0.561 in	28.8 kN	07196	**55PW95**	**55PW96**

35TW65

TRITAN Koyo INA

Needle Roller Bearings

Feature a thin profile where the radial space is limited. Alloy steel ring. Support high radial loads and high speed applications. **Drawn-Cup** support radial loads with reduced friction and are often used in steering systems and drive-lines for automotive applications. **Heavy-Duty** have a thicker outer shell that serves as the outer-ring raceway for high-load capacity and shock resistance. For demanding applications such as industrial machinery and wind power generation. **Single-Direction Assemblies** include a clutch in the assembly that move the bearing in a single direction. Commonly used in conveyor applications that require movement in only one direction.

Bearing Industry Number	Bore Dia.	Outside Dia.	Overall Width	Dyn. Radial Load Cap.	Full Comple-ment	Brand	Item No.
Drawn-Cup Needle Roller Bearings							
Bearing Designation B, Open Closure							
1012	⅝ in	⅞ in	0.75 in	3,720 lbf	Yes	Tritan	**35TW65**
1416	⅞ in	1 ⅛ in	1 in	7,100 lbf	Yes	Tritan	**35TW74**
1612	1 in	1 ¼ in	0.75 in	5,770 lbf	Yes	Tritan	**35TW77**
1616	1 in	1 ¼ in	1 in	7,630 lbf	Yes	Tritan	**35TW78**
Bearing Designation BH, Open Closure							
812	½ in	¾ in	0.75 in	3,910 lbf	Yes	Tritan	**35TX18**
1616	1 in	1 5/16 in	1 in	8,200 lbf	Yes	Tritan	**35TX14**
1616	1 in	1 5/16 in	1 in	8,200 lbf	Yes	Koyo	**779K92**
Bearing Designation HK, Open Closure							
810	8	12	10 mm	3.8 kN	No	Ina	**4ZZW6**
1010	10	14	10 mm	4.4 kN	No	Ina	**4ZZW8**
1210	12	16	10 mm	4.982 kN	No	Tritan	**35TZ12**
1212	12	18	12 mm	6.5 kN	No	Ina	**4ZZW9**
2020	20	26	20 mm	15,700 N	No	Ina	**4ZZX3**
Bearing Designation JH, Open Closure							
88	½ in	¾ in	0.5 in	1,700 lbf	No	Tritan	**35TX73**
Bearing Designation SCE, Open Closure							
47	¼ in	7/16 in	0.438 in	921.8 lbf	No	Ina	**4XFG3**
68	⅜ in	9/16 in	0.5 in	1,304 lbf	No	Ina	**4XFG8**
88	½ in	11/16 in	0.5 in	1,551.3 lbf	No	Ina	**4XFH5**
108	⅝ in	13/16 in	0.5 in	1,821 lbf	No	Ina	**4XFH8**
148	⅞ in	1 ⅛ in	0.5 in	1,843.5 lbf	No	Ina	**4XFJ5**
610	⅜ in	9/16 in	0.625 in	1,663.7 lbf	No	Ina	**4XFG9**
810	½ in	11/16 in	0.625 in	1,978.4 lbf	No	Ina	**4XFH2**
812	½ in	11/16 in	0.75 in	2,225.7 lbf	No	Ina	**4XFH3**
1010	⅝ in	13/16 in	0.625 in	2,338.1 lbf	No	Ina	**4XFH9**
1210	¾ in	1 in	0.625 in	2,877.7 lbf	No	Ina	**4XFJ3**
1212	¾ in	1 in	0.75 in	3,462.2 lbf	No	Ina	**4XFJ4**
1612	1 in	1 ¼ in	0.75 in	4,046.8 lbf	No	Ina	**4XFJ8**
Heavy-Duty Needle Roller Bearings							
Bearing Designation HJ, Double Sealed Closure							
162416	1 in	1 ½ in	1 in	5,680 lbf	No	Koyo	**779KD8**
Bearing Designation MR, Double Sealed Closure							
12	½ in	¾ in	1 in	6,190 lbf	No	Tritan	**35TX89**
Single-Direction Needle Roller Clutch & Bearing Assemblies							
Bearing Designation RC, Open Closure							
81208	½ in	¾ in	0.5 in	—	No	Tritan	**35TY16**
101410	⅝ in	⅞ in	0.625 in	—	No	Tritan	**35TY17**
162110	1 in	1 5/16 in	0.625 in	—	No	Tritan	**35TY19**
Bearing Designation RCB, Open Closure							
81214	½ in	¾ in	0.875 in	1,600 lbf	No	Tritan	**35TY21**
121616	¾ in	1 in	1 in	2,000 lbf	No	Tritan	**35TY23**
162117	1 in	1 5/16 in	1.062 in	3,460 lbf	No	Tritan	**35TY24**

Tapered Roller Bearing Assemblies

NTN

Commonly used in vehicles where the wheel bearings must handle large vertical (radial) and horizontal (axial) forces at the same time. Held together by an inner race that has a tapered surface for the bearings to roll against, and a flat inner radial surface to slide over a shaft. The outer race is the opposite design with the inner surface that's tapered, and the outer surface being flat. These tapered roller bearing assemblies are case-hardened steel construction and resist heat, heavy loads, humidity, and shocks. Suitable for use in hydraulic engines, gear motor transmissions, and locomotive axles.

55PX44

Bearing Industry Number	Bore Dia.	Outside Dia.	Overall Width	Cone Width	Cup Width	Item No.
4T-30204	20 mm	47 mm	15.25 mm	14 mm	12 mm	**55PX44**
4T-30205	25 mm	52 mm	16.25 mm	15 mm	13 mm	**55PX45**
4T-32005X	25 mm	47 mm	15 mm	15 mm	11.5 mm	**55PX55**
4T-30206	30 mm	62 mm	17.25 mm	16 mm	14 mm	**55PX46**
4T-32006X	30 mm	55 mm	17 mm	17 mm	13 mm	**55PX56**
4T-30207	35 mm	72 mm	18.25 mm	17 mm	15 mm	**55PX47**

4ZZP5

Banded Ball Thrust Bearings

INA EZO PRECISION BALL BEARINGS

Can run at higher speeds but with a lower load capacity than roller bearings. They support axial, or thrust, loads in a single direction. **Banded** ease installation and provide extra protection to the internal bearing components against contaminants. They consist of a housing washer, a shaft washer, and a ball and cage assembly that are banded together as one unit. **Separable Grooved-Race** can be separated in three parts to ease repair and replacement. They have grooved raceways which help guide the balls and limit variations in the ball's movement. Bearings can handle higher loads than flat race ball thrust bearings.

Bearing Industry Number	Bore Dia.	Outside Dia.	Overall Width	Dyn. Axial Load Cap.	Static Axial Load Cap.	Brand	Item No.
Banded Ball Thrust Bearings							
D1	½ in	1 7/32 in	0.563 in	3,850 lbf	5,600 lbf	Ina	**4ZZP5**
D3	⅝ in	1 11/32 in	0.563 in	4,100 lbf	6,700 lbf	Ina	**4ZZP6**
D5	¾ in	1 15/32 in	0.563 in	4,250 lbf	7,300 lbf	Ina	**4ZZP8**
D6	13/16 in	1 15/32 in	0.563 in	4,250 lbf	7,300 lbf	Ina	**4ZZP9**
D9	1 in	1 31/32 in	0.625 in	6,700 lbf	13,100 lbf	Ina	**4ZZR3**
D11	1 ⅛ in	2 3/32 in	0.625 in	6,900 lbf	14,000 lbf	Ina	**4ZZR5**
D12	1 3/16 in	2 3/32 in	0.625 in	6,900 lbf	14,000 lbf	Ina	**4ZZR6**
D15	1 ⅜ in	2 15/32 in	0.625 in	7,300 lbf	16,600 lbf	Ina	**4ZZR9**
D17	1 ½ in	2 19/32 in	0.625 in	7,700 lbf	18,300 lbf	Ina	**4ZZT1**
D25	2 in	3 11/32 in	0.813 in	10,800 lbf	29,000 lbf	Ina	**4ZZT5**
D33	2 ½ in	3 31/32 in	0.813 in	11,500 lbf	34,000 lbf	Ina	**4ZZT7**
Separable Grooved-Race Ball Thrust Bearings							
F8-16M	8 mm	16 mm	5 mm	3,920 N	4,990 N	Ezo	**45VD14**

35TX91

Needle Roller Thrust Bearings

TRITAN INA

Consist of an axial cage with needle rollers. Support axial loads in 1 direction. Use directly with surrounding hardened faces or separate thrust washers to provide the most compact thrust solution.

Bearing Industry Number	Bore Dia.	Outside Dia.	Overall Width	Dyn. Axial Load Cap.	Static Axial Load Cap.	Max. Speed (RPM)	Brand	Item No.
512	5/16 in	¾ in	0.078 in	1,300 lbf	2,900 lbf	24,000	Tritan	**35TY07**
815	½ in	15/16 in	0.078 in	1,600 lbf	4,300 lbf	18,000	Tritan	**35TY12**
815	½ in	15/16 in	0.078 in	1,910 lbf	5,300 lbf	13,000	Ina	**4XFN2**
821	8 mm	21 mm	2 mm	7,800 N	19,400 N	18,000	Ina	**4ZZN3**
1018	⅝ in	1 ⅛ in	0.078 in	2,160 lbf	6,630 lbf	11,000	Ina	**4XFN3**
1220	¾ in	1 ¼ in	0.078 in	2,400 lbf	8,200 lbf	13,000	Tritan	**35TX91**
1220	¾ in	1 ¼ in	0.078 in	2,410 lbf	8,000 lbf	9,500	Ina	**4XFN4**
1226	12 mm	26 mm	2 mm	9,900 N	29,000 N	15,000	Ina	**4ZZN5**
1625	1 in	1 9/16 in	0.078 in	3,100 lbf	12,000 lbf	11,000	Tritan	**35TX93**
1625	1 in	1 9/16 in	0.078 in	3,130 lbf	12,100 lbf	7,500	Ina	**4XFN6**
2435	1 ½ in	2 3/16 in	0.078 in	5,200 lbf	26,000 lbf	7,000	Tritan	**35TX97**
3244	2 in	2 ¾ in	0.078 in	5,800 lbf	32,600 lbf	4,000	Ina	**4XFP3**
6681	4 ⅛ in	5 1/16 in	0.125 in	14,000 lbf	93,000 lbf	3,000	Tritan	**35TY11**

Needle Roller Thrust Bearing Washers

INA TRITAN

Use as fatigue liners for soft housing faces. Combine with needle roller and cage assembly to form a complete needle roller thrust bearing.

35TY61

Compatible Bearing	Bore Dia.	Outside Dia.	Washer Thickness	Brand	Item No.
0821	8 mm	21 mm	1 mm	Ina	**4ZZL1**
1018	⅝ in	1 ⅛ in	1/32 in	Ina	**4XFR1**
1226	12 mm	26 mm	1 mm	Ina	**4ZZL3**
3244	2 in	2 ¾ in	3/32 in	Tritan	**35TY74**
3244	2 in	2 ¾ in	1/32 in	Ina	**4XFT1**
4060	40 mm	60 mm	1 mm	Ina	**4ZZN1**
4860	3 in	3 ¾ in	1/16 in	Tritan	**35TY61**

Bearing Ind. No.	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	Brand	Double Shielded Closure Dyn. Radial Load Cap.	Double Shielded Closure Item No.	Double Sealed Closure Dyn. Radial Load Cap.	Double Sealed Closure Item No.	Open Closure Dyn. Radial Load Cap.	Open Closure Item No.
General Purpose Radial Ball Bearings-Metric										
605	5	14	5	Tritan	4,900 lbf	**49DD41**	—	—	—	—
608	8	22	7	Tritan	740 lbf	**49DD47**	740 lbf	**49DD46**	—	—
625	5	16	5	Tritan	7,870 lbf	**49DD54**	7,300 lbf	**49DD53**	—	—
626	6	19	6	Tritan	7,870 lbf	**49DD56**	7,300 lbf	**49DD55**	—	—
6000	10	26	8	SKF	4.75 kN	**35UF40**	1,070 lbf	**36MC08**	4.75 kN	**36MC09**
6001	12	28	8	SKF	5.4 kN	**35UF41**	1,210 lbf	**36MC10**	5.4 kN	**36MC11**
6002	15	32	9	SKF	5.85 kN	**36MC13**	1,320 lbf	**36MC12**	5.85 kN	**35UF42**
6003	17	35	10	SKF	6.37 kN	**35UF43**	1,430 lbf	**36MC14**	6.37 kN	**36MC15**
6004	20	42	12	SKF	9.95 kN	**36MC17**	2,240 lbf	**36MC16**	9.95 kN	**36MC18**
6005	25	47	12	SKF	11.9 kN	**36MC20**	2,680 lbf	**36MC19**	11.9 kN	**36MC21**
6006	30	55	13	SKF	13.8 kN	**36MC23**	3,100 lbf	**36MC22**	13.8 kN	**36MC24**
6007	35	62	14	Timken	17,700 N	**45A061**	17,700 N	**45A062**	17,704 N	**45A059**
6007	35	62	14	SKF	16.8 kN	**36MC26**	3,780 lbf	**36MC25**	16.8 kN	**36MC27**
6008	40	68	15	SKF	17.8 kN	**36MC29**	4,000 lbf	**36MC28**	17.8 kN	**36MC30**
6009	45	75	16	SKF	22.1 kN	**36MC32**	4,970 lbf	**36MC31**	22.1 kN	**36MC33**
6010	50	80	16	SKF	22.9 kN	**36MC35**	5,150 lbf	**36MC34**	22.9 kN	**36MC36**
6012	60	95	18	SKF	30.7 kN	**36MC41**	6,900 lbf	**36MC40**	30.7 kN	**36MC42**
6013	65	100	18	SKF	31.9 kN	**36MC44**	7,170 lbf	**36MC43**	31.9 kN	**36MC45**
6014	70	110	20	SKF	39.7 kN	**36MC47**	8,920 lbf	**36MC46**	39.7 kN	**36MC48**
6200	10	30	9	SKF	5.4 kN	**23Y187**	1,220 lbf	**23Y185**	5.4 kN	**23Y189**
6201	12	32	10	SKF	7.28 kN	**23Y193**	1,700 lbf	**23Y191**	7.28 kN	**23Y195**
6202	15	35	11	SKF	8.06 kN	**23Y198**	1,800 lbf	**23Y196**	8.06 kN	**23Y201**
6203	17	40	12	SKF	9.95 kN	**23Y205**	2,200 lbf	**23Y203**	9.95 kN	**23Y207**
6203	17	40	12	Timken	10,600 N	**44Z810**	2,450 lbf	**44Z813**	10,587 N	**44Z809**
6204	20	47	14	SKF	13.5 kN	**23Y211**	3,000 lbf	**23Y209**	13.5 kN	**23Y213**
6205	25	52	15	Timken	14,900 N	**44Z819**	14,900 N	**44Z821**	15,524 N	**44Z818**
6205	25	52	15	SKF	14.8 kN	**23Y217**	3,300 lbf	**23Y215**	14.8 kN	**23Y219**
6206	30	62	16	SKF	20.3 kN	**23Y223**	4,600 lbf	**23Y221**	20.3 kN	**23Y225**
6206	30	62	16	Timken	—	—	21,600 N	**44Z826**	5,000 lbf	**44Z822**
6207	35	72	17	SKF	27 kN	**23Y229**	6,100 lbf	**23Y227**	27 kN	**23Y231**
6207	35	72	17	Timken	28,500 N	**44Z830**	28,500 N	**44Z833**	28,500 N	**44Z829**
6208	40	80	18	SKF	32.5 kN	**23Y235**	7,300 lbf	**23Y233**	32.5 kN	**23Y237**
6209	45	85	19	SKF	35.1 kN	**23Y241**	7,900 lbf	**23Y239**	35.1 kN	**23Y243**
6210	50	90	20	SKF	37.1 kN	**23Y247**	8,300 lbf	**23Y245**	37.1 kN	**23Y249**
6211	55	100	21	SKF	46.2 kN	**23Y253**	10,400 lbf	**23Y251**	46.2 kN	**23Y255**
6212	60	110	22	SKF	55.3 kN	**23Y259**	12,400 lbf	**23Y257**	55.3 kN	**23Y261**
6213	65	120	23	SKF	58.5 kN	**23Y264**	13,200 lbf	**23Y263**	58.5 kN	**23Y265**
6220	100	180	34	SKF	127 kN	**23Y285**	28,500 lbf	**23Y284**	127 kN	**23Y286**
6301	12	37	12	SKF	10.1 kN	**36D435**	2,300 lbf	**36D434**	10.1 kN	**36D436**
6302	15	42	13	SKF	11.9 kN	**36D438**	2,700 lbf	**36D437**	11.9 kN	**36D439**
6303	17	47	14	SKF	14.3 kN	**36D441**	3,200 lbf	**36D440**	14.3 kN	**36D442**
6304	20	52	15	SKF	16.8 kN	**36D445**	3,800 lbf	**36D443**	16.8 kN	**36D447**
6305	25	62	17	SKF	23.4 kN	**36D451**	5,300 lbf	**36D449**	23.4 kN	**36D453**
6306	30	72	19	SKF	29.6 kN	**36D457**	6,700 lbf	**36D455**	29.6 kN	**36D459**
6307	35	80	21	SKF	35.1 kN	**36D463**	7,900 lbf	**36D461**	35.1 kN	**36D465**
6308	40	90	23	SKF	42.3 kN	**36D469**	9,500 lbf	**36D467**	42.3 kN	**36D471**
6309	45	100	25	SKF	55.3 kN	**36D475**	12,400 lbf	**36D473**	55.3 kN	**36D477**
6309	45	100	25	Timken	58,500 N	**44Z975**	58,500 N	**44Z978**	58,717 N	**44Z974**
6310	50	110	27	SKF	65 kN	**36D481**	14,600 lbf	**36D479**	65 kN	**36D483**
6311	55	120	29	SKF	74.1 kN	**36D486**	16,700 lbf	**36D485**	74.1 kN	**36D487**
6312	60	130	31	SKF	85.2 kN	**36D489**	19,200 lbf	**36D488**	85.2 kN	**36D490**
6313	65	140	33	SKF	97.5 kN	**36D492**	21,900 lbf	**36D491**	97.5 kN	**36D493**
6314	70	150	35	SKF	111 kN	**36D495**	25,000 lbf	**36D494**	111 kN	**36D496**
6315	75	160	37	SKF	119 kN	**36D498**	26,800 lbf	**36D497**	119 kN	**36D499**
6318	90	190	43	SKF	151 kN	**36D508**	33,900 lbf	**36D507**	151 kN	**36D509**

23Y185

TRITAN SKF TIMKEN

General Purpose Radial Ball Bearings

Can operate at high speeds with low loads in general purpose applications. They have a single row of ball rollers for radial loads, but can support some axial movement. Alloy steel ring.

Bearing Ind. No.	Bore Dia. (in)	Outside Dia. (in)	Outer Ring Width (in)	Brand	Double Sealed Closure Dyn. Radial Load Cap. (lbf)	Double Sealed Closure Item No.	Double Shielded Closure Dyn. Radial Load Cap. (lbf)	Double Shielded Closure Item No.
General Purpose Radial Ball Bearings-Standard								
188	¼	½	0.187	Tritan	—	—	88	**49DE12**
1602	¼	11/16	0.25	Tritan	—	—	491	**35JC12**
1602	¼	11/16	0.312	Tritan	491	**35JC37**	—	—
1604	⅜	⅞	0.343	Tritan	747	**35JC39**	—	—
1614	⅜	1 ⅛	0.375	Tritan	1,047	**35JC43**	1,047	**35JC18**
1616	½	1 ⅛	0.375	Tritan	1,047	**35JC45**	1,047	**35JC20**
1621	½	1 ⅜	0.437	Tritan	1,525	**35JC47**	1,525	**35JC22**
1623	⅝	1 ⅜	0.437	Tritan	1,525	**35JC49**	1,525	**35JC24**
1628	⅝	1 ⅝	0.5	Tritan	2,109	**35JC50**	2,109	**35JC25**
1630	¾	1 ⅝	0.5	Tritan	2,109	**35JC51**	2,109	**35JC26**
1633	⅝	1 ¾	0.5	Tritan	2,109	**35JC52**	2,109	**35JC27**
1635	¾	1 ¾	0.5	Tritan	2,109	**35JC53**	2,109	**35JC28**
1638	¾	2	0.562	Tritan	3,150	**35JC54**	3,150	**35JC29**
1641	1	2	0.562	Tritan	3,150	**35JC56**	3,150	**35JC31**
1654	1 ¼	2 ½	0.625	Tritan	2,880	**35JC58**	2,880	**35JC33**
R3	3/16	½	0.196	Tritan	295	**35JC75**	295	**35JC62**
R4	¼	⅝	0.196	Tritan	335	**35JC76**	335	**35JC63**
R4A	¼	¾	0.281	Tritan	525	**49DE07**	525	**49DE08**
R6	⅜	⅞	0.281	Tritan	745	**35JC77**	745	**35JC64**
R8	½	1 ⅛	0.312	Tritan	1,148	**35JC78**	1,148	**35JC65**
R10	⅝	1 ⅜	0.343	Tritan	1,347	**35JC79**	1,347	**35JC66**
R12	¾	1 ⅝	0.437	Tritan	1,770	**35JC80**	1,770	**35JC67**
R16	1	2	0.5	Tritan	2,261	**35JC82**	2,261	**35JC69**
R20	1 ¼	2 ¼	0.5	Tritan	3,150	**35JC84**	3,150	**35JC71**
R22	1 ⅜	2 ½	0.562	Tritan	3,480	**35JC85**	3,480	**35JC72**
R24	1 ½	2 ⅝	0.562	Tritan	3,780	**35JC86**	3,780	**35JC73**

4ZXK8

NTN

General Purpose Cartridge Radial Ball Bearings

Constructed with a thick outer ring but have standard bore and outside diameter dimensions. They are for general purpose applications that require a wider bearing to fit properly in the assembly without impacting the load capacity of the bearing, and are often used in bicycles. Alloy steel ring and a double-sealed closure.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	Dyn. Radial Load Cap.	Item No.
63203	17	40	17.5	10,600 N	**4ZXK8**
63304	20	52	22.2	3,500 N	**4ZXN3**
63206	30	62	23.8	28,400 N	**4ZXK9**
63207	35	72	27	32,500 N	**4ZXL1**

1L009

NTN

High-Temperature Radial Ball Bearings

- Max. operating temp.: 120°F

Resist high temperatures and are for use in industrial applications where bearings are exposed to sustained high temperatures such as in steel mills.

Note: Additional sizes and types are available on Grainger.com.

Bearing Industry Number	Bore Dia. (in)	Outside Dia. (in)	Outer Ring Width (in)	Dyn. Radial Load Cap.	Item No.
Alloy Steel Ring, Double Sealed Closure					
R16	1	2	0.5	7,750 N	**1L043**
R20	1 ¼	2 ¼	0.5	9,050 N	**5U487**
Alloy Steel Ring, Double Shielded Closure					
624	4 mm	13 mm	5 mm	1,450 N	**5U557**
R16	1	2	0.5	7,750 N	**1L009**
R20	1 ¼	2 ¼	0.5	9,050 N	**5U488**
Special	5/16	22 mm	7 mm	3,700 N	**5U528**

EZO PRECISION BALL BEARINGS

49DE50

High-Precision Radial Ball Bearings

Feature a higher ABEC rating than standard radial ball bearings. They are used in applications that require a high level of precision, efficiency, and speed such as aerospace assemblies, medical systems, and robotics.

Bearing Industry Number	Bore Dia. (in)	Outside Dia. (in)	Outer Ring Width (in)	Dyn. Radial Load Cap. (lbf)	Item No.
High-Precision Radial Ball Bearings-Standard					
Alloy Steel Ring, Double Shielded Closure					
R4	¼	⅝	0.196	332.7338	**49DE54**
Stainless Steel Ring, Open Closure					
1810	5/16	½	0.156	121.6276	**45VC71**
R2-6	⅛	⅜	0.109	144.1097	**45VC79**
Bearing Industry Number	**Bore Dia. (mm)**	**Outside Dia. (mm)**	**Outer Ring Width (mm)**	**Dyn. Radial Load Cap.**	**Item No.**
High-Precision Radial Ball Bearings-Metric					
Alloy Steel Ring, Double Sealed Closure					
698	8	19	6	2,240 N	**49DE50**
Alloy Steel Ring, Double Shielded Closure					
696	6	15	5	1,340 N	**49DE49**

NTN TRITAN

High-Clearance Radial Ball Bearings

6L026

- Alloy steel ring

Feature more space within the bearing housing and are for use where there is an increased press fit on the housing, elevated temperatures that may cause expansion, or a slight misalignment between the housing and the shaft.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	Brand	Double Shielded Closure Dyn. Radial Load Cap.	Double Shielded Closure Item No.	Double Sealed Closure Dyn. Radial Load Cap.	Double Sealed Closure Item No.
600 Series								
607	7	19	6	NTN	2,480 N	**5U526**	3,750 N	**5U591**
608	8	22	7	NTN	3,700 N	**1L001**	3,700 N	**1L035**
625	5	16	5	NTN	1,940 N	**5U592**	—	—
626	6	19	6	NTN	2,590 N	**5U593**	—	—
6000, 6200, 6300 Series								
6000	10	26	8	NTN	5,050 N	**1L010**	5,650 N	**1L044**
6000	10	26	8	Tritan	1,030 lbf	**35HZ61**	1,030 lbf	**35HZ74**
6001	12	28	8	NTN	5,650 N	**1L011**	6,200 N	**1L045**
6001	12	28	8	Tritan	1,150 lbf	**35HZ62**	1,150 lbf	**35HZ75**
6002	15	32	9	Tritan	1,260 lbf	**35HZ63**	1,260 lbf	**35HZ76**
6002	15	32	9	NTN	6,200 N	**5U494**	6,200 N	**5U493**
6003	17	35	10	Tritan	—	—	1,350 lbf	**35HZ77**
6003	17	35	10	NTN	7,550 N	**5U496**	7,550 N	**5U495**
6004	20	42	12	Tritan	2,110 lbf	**35HZ65**	2,110 lbf	**35HZ78**
6004	20	42	12	NTN	10,400 N	**5U498**	10,400 N	**5U497**
6005	25	47	12	NTN	11,200 N	**1L012**	11,200 N	**1L046**
6005	25	47	12	Tritan	—	—	2,260 lbf	**35HZ79**
6006	30	55	13	Tritan	2,970 lbf	**35HZ67**	2,970 lbf	**35HZ80**
6006	30	55	13	NTN	—	—	14,700 N	**5U499**
6007	35	62	14	Tritan	—	—	3,600 lbf	**35HZ81**
6008	40	68	15	Tritan	—	—	3,750 lbf	**35HZ82**
6008	40	68	15	NTN	—	—	18,600 N	**5U503**
6200	10	30	9	NTN	5,650 N	**1L013**	6,750 N	**6L022**
6200	10	30	9	Tritan	1,150 lbf	**35JA01**	1,150 lbf	**35JA14**
6201	12	32	10	NTN	6,750 N	**1L014**	6,750 N	**6L023**
6201	12	32	10	Tritan	1,530 lbf	**35JA02**	1,530 lbf	**35JA15**
6202	15	35	11	NTN	8,600 N	**1L015**	8,600 N	**6L024**
6202	15	35	11	Tritan	1,740 lbf	**35JA03**	1,740 lbf	**35JA16**
6203	17	40	12	NTN	10,600 N	**1L016**	10,600 N	**4ZXE9**
6203	17	40	12	Tritan	2,150 lbf	**35JA04**	2,150 lbf	**35JA17**
6203	17	40	12	NTN	—	—	10,600 N	**6L025**
6204	20	47	14	NTN	14,200 N	**1L017**	14,200 N	**6L026**
6204	20	47	14	Tritan	2,880 lbf	**35JA05**	—	—
6205	25	52	15	NTN	15,500 N	**1L018**	15,500 N	**4ZXF4**
6205	25	52	15	Tritan	3,150 lbf	**35JA06**	3,150 lbf	**35JA19**
6205	25	52	15	NTN	—	—	15,500 N	**6L027**
6206	30	62	16	NTN	21,600 N	**1L019**	21,600 N	**6L028**
6206	30	62	16	Tritan	4,390 lbf	**35JA07**	4,390 lbf	**35JA20**
6207	35	72	17	NTN	28,400 N	**1L020**	28,400 N	**6L029**
6207	35	72	17	Tritan	5,800 lbf	**35JA08**	5,800 lbf	**35JA21**
6208	40	80	18	NTN	32,500 N	**1L021**	32,500 N	**6L030**
6208	40	80	18	Tritan	6,500 lbf	**35JA09**	6,500 lbf	**35JA22**
6209	45	85	19	NTN	36,000 N	**1L022**	—	—
6210	50	90	20	NTN	39,000 N	**1L023**	39,000 N	**6L032**
6301	12	37	12	Tritan	—	—	2,180 lbf	**35JA54**
6303	17	47	14	NTN	—	—	15,000 N	**6L052**
6304	20	52	15	Tritan	—	—	3,580 lbf	**35JA57**
6304	20	52	15	NTN	17,600 N	**6L036**	23,500 N	**6L053**
6305	25	62	17	NTN	23,500 N	**6L037**	29,500 N	**6L054**
6306	30	72	19	Tritan	—	—	6,000 lbf	**35JA59**
6306	30	72	19	NTN	29,500 N	**6L038**	—	—
6307	35	80	21	Tritan	—	—	7,500 lbf	**35JA60**
6307	35	80	21	NTN	37,000 N	**6L039**	45,000 N	**6L056**
6308	40	90	23	NTN	45,000 N	**6L040**	—	—
6309	45	100	25	Tritan	11,900 lbf	**35JA49**	11,900 lbf	**35JA62**
6309	45	100	25	NTN	58,500 N	**6L041**	68,500 N	**6L058**
6310	50	110	27	NTN	68,500 N	**6L042**	—	—
6311	55	120	29	NTN	79,500 N	**6L043**	90,500 N	**6L060**
6312	60	130	31	NTN	90,500 N	**6L044**	—	—
6313	65	140	33	NTN	—	—	103,000 N	**5U568**
R Series								
R4	¼ in	⅝ in	0.625 in	NTN	1,490 N	**5U490**	—	—
R6	⅜ in	⅞ in	0.281 in	NTN	3,300 N	**1L004**	3,300 N	**1L038**
R8	½ in	1 ⅛ in	0.312 in	NTN	5,120 N	**1L005**	5,120 N	**1L039**
R12	¾ in	1 ⅝ in	0.437 in	NTN	6,100 N	**1L007**	7,920 N	**1L041**

Bearing Industry Number	Bore Dia.	Outside Dia.	Outer Ring Width	Dyn. Radial Load Cap.	Closure	Brand	Item No.
Special Standard Bore Series							
1623	⅝ in	1 ⅜ in	0.437 in	7,750 N	Double Sealed	NTN	**5U491**
6202/16	16 mm	35 mm	11 mm	8,600 N	Double Sealed	NTN	**5U534**
6202/16	16 mm	35 mm	11 mm	8,600 N	Double Shielded	NTN	**5U536**
6311	55 mm	120 mm	29 mm	79,500 N	Open	NTN	**4ZXK4**
Special	12.7 mm	32 mm	10 mm	6,750 N	Double Sealed	NTN	**5U531**
Special	12.7 mm	32 mm	10 mm	6,750 N	Double Shielded	NTN	**5U532**
Special	15.875 mm	35 mm	11 mm	8,600 N	Double Sealed	NTN	**5U533**
Special	15.875 mm	40 mm	12 mm	10,600 N	Double Sealed	NTN	**5U537**
Special	15.875 mm	40 mm	12 mm	10,600 N	Double Shielded	NTN	**1L097**

35JD05

TRITAN

Food-Grade Radial Ball Bearings

- Stainless steel ring

These bearings can withstand high and low temperatures and washdown conditions. They meet FDA standards for use in food processing facilities.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	Dyn. Radial Load Cap. (lbf)	Item No.
Food-Grade Radial Ball Bearings-Metric					
Double Sealed Closure					
608	8	22	7	740	**49DD90**
6000	10	26	8	1,078	**35JD05**
6001	12	28	8	596	**35JD06**
6002	15	32	9	918	**35JD07**
6004	20	42	12	420	**35JD09**
6005	25	47	12	96	**35JD10**
6008	40	68	15	3,000	**35JD13**
6200	10	30	9	920	**35JD33**
6201	12	32	10	1,224	**35JD34**
6202	15	35	11	1,392	**35JD35**
6203	17	40	12	1,720	**35JD36**
6204	20	47	14	2,304	**35JD37**
6205	25	52	15	2,520	**35JD38**
Double Shielded Closure					
6203	17	40	12	1,720	**35JD28**
6205	25	52	15	2,520	**35JD30**

Bearing Industry Number	Bore Dia. (in)	Outside Dia. (in)	Outer Ring Width (in)	Dyn. Radial Load Cap. (lbf)	Item No.
Food-Grade Radial Ball Bearings-Standard					
Double Sealed Closure					
1616	½	1 ⅛	0.375	800	**35JE18**
1621	½	1 ⅜	0.437	1,175	**35JE19**
1623	⅝	1 ⅜	0.437	1,175	**35JE20**
1630	¾	1 ⅝	0.5	1,625	**35JE22**
R4	¼	⅝	0.196	268	**35JE38**
R6	⅜	⅞	0.281	4,720	**35JE39**
R8	½	1 ⅛	0.312	4,900	**35JE40**
R10	⅝	1 ⅜	0.281	4,720	**35JE41**
R12	¾	1 ⅝	0.437	1,467	**35JE42**
R16	1	2	0.5	1,669	**35JE44**
Double Shielded Closure					
R8	½	1 ⅛	0.312	4,900	**35JE31**

45VA90

EZO PRECISION BALL BEARINGS

Miniature Flanged Ball Bearings

- Stainless steel ring
- Double shielded closure

Resist corrosion and can handle heavy radial loads and moderate thrust loads in both directions. They have a flange that assists with aligning and mounting the bearing to the shaft and reduces bearing slippage. Suitable for use in pharmaceutical and marine applications where bearings are exposed to chemicals and salt water.

Bearing Industry Number	Bore Dia.	Outside Dia.	Outer Ring Width	Flange Dia.	Flange Thickness	Dyn. Radial Load Cap.	Item No.
168	¼ in	⅜ in	0.125 in	0.422 in	0.036 in	83.85791 lbf	**45VA86**
188	¼ in	½ in	0.187 in	0.547 in	0.045 in	242.8057 lbf	**45VA90**
685	5 mm	11 mm	5 mm	12.5 mm	1 mm	716 N	**45VA61**
R2-5	⅛ in	5⁄16 in	0.14 in	0.359 in	0.031 in	125.6744 lbf	**45VA94**

General Purpose Retaining Ring Ball Bearings

SKF TIMKEN

Have a groove cut in the outer ring of the bearing to accommodate a snap ring that holds the bearing in place and provides a shoulder to prevent movement. Bearings are suitable for high rotational speeds and can accommodate radial and axial loads in both directions.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	SKF Open Dyn. Radial Load Cap.	SKF Open Item No.	SKF Double Sealed Dyn. Radial Load Cap.	SKF Double Sealed Item No.	SKF Double Shielded Dyn. Radial Load Cap.	SKF Double Shielded Item No.	TIMKEN Open Dyn. Radial Load Cap.	TIMKEN Open Item No.	TIMKEN Double Sealed Dyn. Radial Load Cap.	TIMKEN Double Sealed Item No.	TIMKEN Single Shielded Dyn. Radial Load Cap.	TIMKEN Single Shielded Item No.
6205	25	52	15	14.8 kN	**23Y220**	3,300 lbf	**23Y216**	14.8 kN	**23Y218**	—	—	—	—	—	—
6201	12	32	10	—	—	1,700 lbf	**23Y192**	7.28 kN	**23Y194**	—	—	—	—	—	—
6202	15	35	11	—	—	1,800 lbf	**23Y197**	8.06 kN	**23Y199**	9,390 N	**44Z806**	9,390 N	**44Z808**	—	—
6203	17	40	12	—	—	2,200 lbf	**23Y204**	9.95 kN	**23Y206**	10,600 N	**44Z812**	2,450 lbf	**44Z814**	—	—
6204	20	47	14	—	—	3,000 lbf	**23Y210**	13.5 kN	**23Y212**	—	—	—	—	—	—
6206	30	62	16	—	—	4,600 lbf	**23Y222**	20.3 kN	**23Y224**	5,000 lbf	**44Z825**	21,600 N	**44Z827**	—	—
6307	35	80	21	—	—	7,900 lbf	**36D462**	35.1 kN	**36D464**	37,100 N	**44Z961**	—	—	37,100 N	**44Z960**
6309	45	100	25	—	—	12,400 lbf	**36D474**	55.3 kN	**36D476**	—	—	—	—	—	—
6207	35	72	17	—	—	6,100 lbf	**23Y228**	27 kN	**23Y230**	—	—	—	—	—	—
6208	40	80	18	—	—	7,300 lbf	**23Y234**	—	—	—	—	—	—	—	—
6306	30	72	19	—	—	6,700 lbf	**36D456**	—	—	—	—	—	—	—	—

44Z808

TRITAN

General Purpose Thin-Section Bearings

Feature a narrow design that is lightweight and requires less space than standard bearings. Double sealed. The bearing's thin profile allows for more design flexibility and running precision. Suitable for use in applications where corrosion is not a concern.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	Dyn. Radial Load Cap.	Item No.
61800	10	19	5	410 lbf	**35JA77**
61801	12	21	5	430 lbf	**35JA78**
61802	15	24	5	470 lbf	**35JA79**
61803	17	26	5	630 lbf	**35JA80**
61804	20	32	7	900 lbf	**35JA81**
61805	25	37	7	1,010 lbf	**35JA82**
61806	30	42	7	1,060 lbf	**35JA83**
61807	35	47	7	1,100 lbf	**35JA84**
61807	35	47	7	1,100 lbf	**35JA73**
61808	40	52	7	1,140 lbf	**35JA74**
61808	40	52	7	1,140 lbf	**35JA85**
61810	50	65	7	1,480 lbf	**35JA87**
61900	10	22	6	610 lbf	**35JA99**
61901	12	24	6	650 lbf	**35JA89**
61901	12	24	6	650 lbf	**35JC01**
61902	15	28	7	980 lbf	**35JC02**
61903	17	30	7	1,040 lbf	**35JC03**
61904	20	37	9	1,440 lbf	**35JC04**
61905	25	42	9	1,590 lbf	**35JC05**
61906	30	47	9	1,630 lbf	**35JC06**
61908	40	62	12	3,080 lbf	**35JC08**
61909	45	68	12	3,400 lbf	**35JC09**
61910	50	72	12	3,500 lbf	**35JC10**

35JA77

TRITAN

High-Clearance Double-Row Angular Contact Bearings

Have more space within the bearing housing; ideal when there is an increased press fit on the housing, elevated temps. that may cause expansion, or a slight misalignment between the housing and shaft. Handle axial and radial loads. Double row design provides for multi-directional axial load and allows bearings to act as a matching set of singular bearings arranged back-to-back, or a duplex, saving space on the shaft.

35HY94

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Overall Width (mm)	Double Shielded Dyn. Radial Load Cap.	Double Shielded Item No.	Double Sealed Dyn. Radial Load Cap.	Double Sealed Item No.
5200	10	30	14.3	7,100 N	**35HY85**	7,100 N	**35HY94**
3201/5201	12	32	15.9	10,200 N	**35HY86**	10,200 N	**35HY95**
3202/5202	15	35	15.9	11,600 N	**35HY87**	11,600 N	**35HY96**
3203/5203	17	40	17.5	14,700 N	**35HY88**	14,700 N	**35HY97**
3204/5204	20	47	20.6	19,600 N	**35HY89**	19,600 N	**35HY98**
3304/5304	20	52	22.2	21,400 N	**35HZ06**	21,400 N	**35HZ13**
3205/5205	25	52	20.6	20,900 N	**35HY90**	20,900 N	**35HY99**
3305/5305	25	62	25.4	30,200 N	**35HZ07**	30,200 N	**35HZ14**
3206/5206	30	62	23.8	28,500 N	**35HY91**	28,500 N	**35HZ01**
3306/5306	30	72	30.2	39,100 N	**35HZ08**	39,100 N	**35HZ15**
3207/5207	35	72	27	37,800 N	**35HY92**	37,800 N	**35HZ02**
3208/5208	40	80	30.2	42,700 N	**35HY93**	42,700 N	**35HZ03**
3308/5308	40	90	36.5	60,500 N	**35HZ10**	60,500 N	**35HZ17**

Dayton SCHATZ BEARING CORPORATION

Flanged Ball Bearings

Feature a flange at one end of the bearing that provides a thrust surface to support radial loads and light axial loads. The flange also assists with aligning and mounting the bearing to the shaft and reduces bearing slippage. **General Purpose** are for use in applications that operate at high speeds with low loads. They have a single row of ball rollers and are designed for radial loads, but can support some axial movement. **Unground Flanged Radial** have very low precision tolerance levels making them suitable for applications that do not require high precision movement such as garden wheels, trailer jacks, and hoists.

1ZGE3

Note: Additional types and sizes, including metric, are available on Grainger.com.

Bearing Industry Number	Bore Dia. (in)	Outside Dia. (in)	Outer Ring Width (in)	Flange Dia. (in)	Flange Thick-ness (in)	Dyn. Radial Load Cap. (lbf)	Double Sealed Item No.	Double Shielded Item No.
General Purpose Flanged Ball Bearings, Dayton								
R3	3/16	1/2	0.196	0.565	0.042	292	**1ZGE5**	**1ZGD9**
R4	1/4	5/8	0.196	0.69	0.042	333	**1ZGE6**	**1ZGE1**
R6	3/8	7/8	0.281	0.969	0.062	749	**1ZGE7**	**1ZGE2**
R8	1/2	1 1/8	0.312	1.225	0.062	884	**1ZGE8**	**1ZGE3**

Bearing Industry Number	Closure	Bore Dia. (in)	Outside Dia. (in)	Outer Ring Width (in)	Flange Dia. (in)	Flange Thick-ness (in)	Dyn. Radial Load Cap. (lbf)	Item No.
Unground Flanged Radial Ball Bearings, Schatz Bearing								
AF4044	Open	5/8	1 3/8	0.5	1.531	0.06	120	**45DK40**
TW7	Double Sealed	5/8	1 3/8	0.5	1.53	0.06	120	**45DK57**

SKF

General Purpose Double Row Self-Aligning Ball Bearings

- Cylindrical bore

These bearings are self-aligning and allow some angular misalignment of the shaft relative to the bearing housing. Their double-row ball design runs with lower friction at higher speeds, causing less heat build-up and noise. They are for use in light-load, high-speed applications and where shaft deflection is likely due to heavy radial loads.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	Dyn. Radial Load Cap.	Item No.
1201	12	32	10	6.24 kN	**36MC80**
1202	15	35	11	7.41 kN	**36MC81**
1204	20	47	14	12.7 kN	**36MC86**
1205	25	52	15	14.3 kN	**36MC90**
2200	10	30	14	8.06 kN	**36MD60**
2202	15	35	14	8.71 kN	**36MD62**
2205	25	52	18	16.8 kN	**36MD67**
2208	40	80	23	31.9 kN	**36MD73**
2210	50	90	23	33.8 kN	**36MD78**
2212	60	110	28	48.8 kN	**36MD81**

36MD60

BESSEY

Cone Bearing Heaters

These GCS Series non-inductive heaters temporarily expand the bore diameter of a bearing to help slide the bearing onto a shaft, reducing the risk of shaft damage. Provide even heat without the use of hot oil baths or a torch. Lightweight, portable, and accommodate a range of bearing sizes. Include heat protective gloves rated to 300°F and a heat sensitive marking crayon. 52HZ28 has a temp. control box.

Bore Diameter Range	Max. Output Temp.	Operating Voltage	Current	Width (in)	Height (in)	Without Control Box Item No.	With Control Box Item No.
⅜ in to 8 ¼ in	250 °F	120V	15 A	8 11/16	9 ½	**52HZ27**	**52HZ28**

BESSEY

Induction Bearing Heaters

- Max. temp. output: 250°F (Induction); 302°F (Portable)

Use magnetic induction to heat a bearing so that it temporarily expands the bore diameter of a bearing to help slide the bearing onto a shaft, reducing the risk of shaft damage. Provide even heat without the use of hot oil baths or a torch. **Cross Bar** supports a bearing while it is being heated. **Raising Blocks** allow larger bearings to fit on the heater.

For Max. Outside Dia. (in)	Voltage	Current (A)	Cross Bar Sq. Sizes Included (in)	Cross Bar L (in)	Overall Dim. (in) W	H	D	Mfr. Model	Item No.
Bearing Heaters									
22	240V	30	1 ¼, 3	14 ¾	8	16	17	BC 220V	**4TDJ7**
22	480V	20	1 ¼, 3	14 ¾	8	16	17	BC 440V	**4TDJ8**
22	240V	30	1 ¼, 3	18 ½	10	16	22	BCS 220V	**39F028**
22	480V	20	1 ¼, 3	18 ½	10	16	22	BCS 440V	**39F029**
11	120V	17	¾, 2	9 ¼	7	9	11 ½	SC 110V	**4TDJ6**
Portable Bearing Heater									
9 ½	120V	15	¼, ⅜, 9/16, 13/16, 1 9/16	7 ⅞	9 ½	11	18	PV2412	**45ZM98**

Series	Cross Bar Square (in)	L (in)	H (in)	Item No.
Cross Bars for Bearing Heaters				
SC	1 ¼	9 ¼	1 ¼	**38ZD37**
SC	¾	9 ¼	¾	**181L46**

Series	Length (in)	Height (in)	Item No.
Raising Blocks for Bearing Heaters			
BC	3 ⅝	5	**4TDK1**
SC	2 ⅝	2 ⅜	**4TDJ9**

Dayton

Flange-Mount Plain Bearings

- Mounting Hole Center-to-Center: 3.375"

Support light to moderate loads, such as in conveying and other operations where the shaft passes through the bearing. **Bronze Insert** have a rust-resistant housing and an oiler port for lubrication. **UHMW Polyethylene Insert** are for use in washdown applications in wet or harsh environments.

Note: For more information on Max. PV, see Bearing Selection Guide on p. 128.

Bore Dia. (in)	Max. PV (lb/sq in-fpm)	Overall Dim. (in) L	W	H	Flange Thickness (in)	Temp. Range	Item No.
2 Bolt Mount, Bronze Insert, Self-Aligning Type							
½ in	50,000	4.375	2.75	1.125	0.125	-5 °F to 220 °F	**4X815**
¾ in	50,000	4.375	2.75	1.125	0.125	-5 °F to 220 °F	**4X817**
1 in	50,000	4.375	2.75	1.125	0.125	-5 °F to 220 °F	**4X818**
2 Bolt Mount, UHMW Polyethylene Insert, Self-Aligning Type							
¾ in	3,000	4.375	2.75	1.125	0.125	-60 °F to 180 °F	**1F572**
1 in	3,000	4.375	2.75	1.125	0.125	-60 °F to 180 °F	**1F570**

Kit No. 1X968 Contains:

Qty.	Inside Dia.	Outside Dia.	L
10	¼"	5/16"	¾"
5	¼"	⅜"	1"
5	⅜"	½"	1"
12	½"	⅝"	1⅛"
5	½"	11/16"	1⅛"
5	½"	¾"	1⅛"
5	⅝"	¾"	1"
5	⅝"	¾"	1⅛"
4	¾"	1"	1⅞"

Dayton

Metallic Sleeve Plain Bearings

C87850, Lead-Free Cast-Bronze—Machined from continuous cast C87850 Eco Bronze with no added arsenic or bismuth. Suitable alternative to C93200 bronze. Uniform bronze structure, non-porous, and no solid particle inclusions.
- Max. PV: 100,000
- Temp. range: -40° to 400°F

C93200 (SAE 660), Cast-Bronze—Machined from continuous cast C93200 bronze. Uniform bronze structure, non-porous, and no solid particle inclusions.
- Max. PV: 75,000
- Temp. range: -40° to 500°F

SAE 841, Sintered Bronze—Oil-Impregnated and conform to ASTM chemical and physical properties. Vacuum impregnated with SAE 30 oil that provides lubricant which is metered from the bearing to the shaft during rotation.
- Max. PV: 50,000
- Temp. range: 10° to 220°F

Metallic Sleeve Bearing Kit, SAE 841— Includes an assortment of different sizes of metallic sleeve bearings.

Bore Dia.	Outside Dia.	Overall Length	Max. PV (lb/sq in-fpm)	Min. Temp. (°F)	Max. Temp. (°F)	Flange Dia. (in)	Flange Thickness (in)	Mfr. Model	Item No.
C87850, Lead-Free Cast Bronze									
Bunting Bearings									
¾ in	1 in	1 in	100,000	-40	400	1.25	0.187	EBCF121608	**49YV44**
C93200 (SAE 660), Cast Bronze									
Bunting Bearings									
⅝ in	½ in	1 ½ in	75,000	-450	500	—	—	CB060812	**13T460**
¾ in	1 in	2 in	75,000	-450	500	—	—	CB121616	**13T638**
1 in	1 ¼ in	2 in	75,000	-450	500	—	—	CB162016	**13T764**
1 in	1 ¼ in	3 in	75,000	-450	500	—	—	CB162024	**13T768**
1½ in	2 in	2 in	75,000	-450	500	—	—	CB243216	**13U033**
SAE 841, Sintered Bronze									
Bunting Bearings									
¼ in	⅜ in	½ in	50,000	10	220	0.5	0.062	EF040608	**12R650**
5/16 in	½ in	⅜ in	50,000	10	220	0.687	0.062	EF050806	**12R656**
⅜ in	½ in	½ in	50,000	10	220	0.687	0.062	EF060808	**12R659**
½ in	⅝ in	⅜ in	50,000	10	220	0.875	0.125	EF081006	**12R665**
½ in	⅝ in	½ in	50,000	10	220	0.875	0.125	EF081008	**12R666**
½ in	¾ in	½ in	50,000	10	220	1	0.125	EF081208	**12R671**
½ in	¾ in	1 in	50,000	10	220	—	—	EP081216	**12R742**
¾ in	1 in	1 in	50,000	10	220	—	—	EP121616	**12R760**
¾ in	1 in	1 in	50,000	10	220	1.25	0.187	EF121616	**12R688**
1 in	1 ¼ in	¾ in	50,000	10	220	1.5	0.125	EF162012	**12R693**
1 in	1 ¼ in	1 in	50,000	10	220	—	—	EP162016	**12R768**
1 in	1 ¼ in	1 in	50,000	10	220	1.5	0.125	EF162016	**12R694**
Dayton									
⅜ in	½ in	1 in	50,000	-5	220	—	—	1X871	**1X871**
¾ in	1 in	1 ⅛ in	50,000	-5	220	—	—	1X872	**1X872**

No. of Bearings	Bore Dia. Range	Outer Dia. Range	Max. Temp.	Brand	Mfr. Model	Item No.
Metallic Sleeve Bearing Kits, SAE 841						
56	¼ in to ¾ in	3/16 in to 1 in	220 °F	Dayton	1X968	**1X968**

Dayton

Pillow Block Plain Bearings

- Mounting Hole Center-to-Center Length: 3"
- Center Height: 1"

Support light to moderate loads, such as in conveying and other operations where the shaft passes through the bearing. **Bronze Insert** feature an oiler port for lubrication and a rust-resistant housing. **UHMW Polyethylene Insert** are for use in washdown applications in wet or harsh environments.

Note: For more information on Max. PV, see Bearing Selection Guide on p. 128.

Bore Dia. (in)	Max. PV (lb/sq in-fpm)	Overall Dimensions (in) L	W	H	Max. Speed (RPM)	Temp. Range	Item No.
2 Bolt Mount, Bronze Insert, Self-Aligning Type							
½ in	50,000	4	1.125	2.093	6,000	-5 °F to 220 °F	**2X567**
¾ in	50,000	4	1.125	2.093	4,500	-5 °F to 220 °F	**2X530**
⅝ in	50,000	4	1.125	2.093	5,000	-5 °F to 220 °F	**2X529**
1 in	50,000	4	1.125	2.093	3,500	-5 °F to 220 °F	**2X531**
2 Bolt Mount, UHMW Polyethylene Insert, Self-Aligning Type							
¾ in	3,000	4	1.125	2	4,500	-60 °F to 180 °F	**1F634**
1 in	3,000	4	1.125	2	3,500	-60 °F to 180 °F	**1F632**

Spherical Rod Ends Selection Guide

Rod ends provide a fixed point of contact between two components to allow rotational movement and to compensate for angular misalignment in industrial applications.

TYPES OF SPHERICAL ROD ENDS

General Purpose—Have a precision ground, chrome-plated hardened 52100 steel spherical ball and 1045 carbon steel body.

Corrosion-Resistant—Feature a precision-ground, hardened 440C stainless steel ball and 300 Series stainless steel body with bonded PTFE fabric race. Excellent for low to moderate load applications where lubricating the parts is not desirable.

Wear-Resistant—Precision-ground, chrome-plated hardened 52100 steel spherical ball, 1045 carbon steel body, and nylon/PTFE compound molded race. Ideal for low to moderate load applications where parts lubrication is not desirable.

Male External Threading

Female Internal Threading

Bore Diameter

Head Outside Diameter

Head Width

Shank Thread Length

Ball Stud Center Length

Ball Stud Thread Length

QA1

Spherical Rod Ends

Models consist of a plain bearing in the eye-shaped head of the rod. They allow pivoting in the housing to compensate for misalignment in industrial applications.

Note: Not for automotive or aircraft use.

20F959 20F975

Bore Dia.	Head Outside Dia.	Head Width	Shank Thread Size	Shank Thread Length	Static Radial Load Capacity	Shank Thread Direction Right Hand Item No.	Shank Thread Direction Left Hand Item No.
General Purpose Spherical Rod Ends							
Female Plain Ball, Carbon Steel Housing with Alloy Steel Ball							
3/16 in	5/8 in	0.234 in	#10-32	1/2 in	2,079 lbf	20F959	20F960
1/4 in	3/4 in	0.25 in	1/4"-28	5/8 in	3,820 lbf	20F961	20F962
5/16 in	7/8 in	0.312 in	5/16"-24	5/8 in	5,110 lbf	20F963	20F964
3/8 in	1 in	0.359 in	3/8"-24	3/4 in	6,323 lbf	20F965	20F966
7/16 in	1 1/8 in	0.406 in	7/16"-20	7/8 in	7,897 lbf	20F967	20F968
1/2 in	1 1/4 in	0.453 in	1/2"-20	1 in	10,046 lbf	20F969	20F970
5/8 in	1 1/2 in	0.484 in	5/8"-18	1 3/8 in	11,385 lbf	20F971	20F972
3/4 in	1 3/4 in	0.593 in	3/4"-16	1 1/2 in	15,894 lbf	20F973	20F974
6 mm	19 mm	6.25 mm	M6-1	14 mm	11,895 N	39N425	39N426
8 mm	22.25 mm	8 mm	M8-1.25	17 mm	15,190 N	39N427	39N428
10 mm	27 mm	9.5 mm	M10-1.5	21 mm	22,750 N	39N429	39N430
12 mm	30 mm	10.75 mm	M12-1.75	24 mm	25,819 N	39N431	39N432
16 mm	38 mm	12.75 mm	M16-2	33 mm	37,391 N	39N435	39N436
Male Plain Ball, Carbon Steel Housing with Alloy Steel Ball							
3/16 in	5/8 in	0.234 in	#10-32	3/4 in	1,558 lbf	20F975	20F976
1/4 in	3/4 in	0.25 in	1/4"-28	1 in	2,835 lbf	20F977	20F978
5/16 in	7/8 in	0.312 in	5/16"-24	1 1/4 in	4,517 lbf	20F979	20F980
3/8 in	1 in	0.359 in	3/8"-24	1 1/4 in	6,323 lbf	20F981	20F982
7/16 in	1 1/8 in	0.406 in	7/16"-20	1 3/8 in	7,897 lbf	20F983	20F984
1/2 in	1 1/4 in	0.453 in	1/2"-20	1 1/2 in	10,046 lbf	20F985	20F986
5/8 in	1 1/2 in	0.484 in	5/8"-18	1 5/8 in	11,385 lbf	20F987	20F988
3/4 in	1 3/4 in	0.593 in	3/4"-16	1 3/4 in	15,894 lbf	20F989	20F990
5 mm	16 mm	5.75 mm	M5-0.08	20 mm	5,168 N	39N437	39N438
6 mm	19 mm	6.25 mm	M6-1	22 mm	7,296 N	39N439	39N440
8 mm	22.25 mm	8 mm	M8-1.25	25 mm	13,591 N	39N441	39N442
10 mm	27 mm	9.5 mm	M10-1.5	29 mm	21,024 N	39N443	39N444
12 mm	30 mm	10.75 mm	M12-1.75	33 mm	25,819 N	39N445	39N446
12 mm	30 mm	10.75 mm	M12-1.75	33 mm	25,819 N	—	39N446
14 mm	34.75 mm	12.25 mm	M14-2	36 mm	35,214 N	39N447	39N448
16 mm	38 mm	12.75 mm	M16-2	40 mm	37,391 N	39N449	39N450
Corrosion-Resistant Spherical Rod Ends							
Female Plain Ball, Stainless Steel Housing with Stainless Steel Ball							
1/4 in	3/4 in	0.25 in	1/4"-28	5/8 in	2,165 lbf	20G026	20G027
3/8 in	1 in	0.359 in	3/8"-24	3/4 in	4,527 lbf	20G030	20G031
7/16 in	1 1/8 in	0.406 in	7/16"-20	7/8 in	5,689 lbf	20G032	20G033
1/2 in	1 1/4 in	0.453 in	1/2"-20	1 in	7,352 lbf	20G034	20G035
5/8 in	1 1/2 in	0.484 in	5/8"-18	1 3/8 in	8,200 lbf	20G036	20G037
3/4 in	1 3/4 in	0.593 in	3/4"-16	1 1/2 in	11,595 lbf	20G038	20G039
6 mm	19 mm	6.25 mm	M6-1	14 mm	6,138 N	39N481	39N482
8 mm	22.25 mm	8 mm	M8-1.25	17 mm	9,340 N	39N483	39N484
10 mm	27 mm	9.5 mm	M10-1.5	21 mm	15,310 N	39N485	39N486
Male Plain Ball, Stainless Steel Housing with Stainless Steel Ball							
1/4 in	3/4 in	0.25 in	1/4"-28	1 in	2,165 lbf	20G042	20G043
5/16 in	7/8 in	0.312 in	5/16"-24	1 1/4 in	3,278 lbf	20G044	20G045
3/8 in	1 in	0.359 in	3/8"-24	1 1/4 in	4,527 lbf	20G046	20G047
7/16 in	1 1/8 in	0.406 in	7/16"-20	1 3/8 in	5,689 lbf	20G048	20G049
1/2 in	1 1/4 in	0.453 in	1/2"-20	1 1/2 in	7,352 lbf	20G050	20G051
5/8 in	1 1/2 in	0.484 in	5/8"-18	1 5/8 in	8,200 lbf	20G052	20G053
3/4 in	1 3/4 in	0.593 in	3/4"-16	1 3/4 in	11,595 lbf	20G054	20G055
10 mm	27 mm	9.5 mm	M10-1.5	29 mm	14,144 N	39N499	39N501
Wear-Resistant Spherical Rod Ends							
Female Plain Ball, Carbon Steel Housing with Alloy Steel Ball							
1/4 in	3/4 in	0.281 in	1/4"-28	3/4 in	2,470 lbf	20F896	20F897
5/16 in	7/8 in	0.344 in	5/16"-24	3/4 in	2,740 lbf	20F898	20F899
3/8 in	1 in	0.406 in	3/8"-24	7/8 in	4,100 lbf	20F901	20F902
7/16 in	1 1/8 in	0.437 in	7/16"-20	1 in	5,350 lbf	20F903	20F904
1/2 in	1 1/4 in	0.5 in	1/2"-20	1 1/8 in	6,430 lbf	20F905	20F906
5/8 in	1 1/2 in	0.562 in	5/8"-18	1 1/2 in	8,300 lbf	20F907	20F908
3/4 in	1 3/4 in	0.687 in	3/4"-16	1 3/4 in	10,900 lbf	20F909	20F910
Male Plain Ball, Carbon Steel Housing with Alloy Steel Ball							
1/4 in	3/4 in	0.281 in	1/4"-28	1 in	2,470 lbf	20F913	20F914
5/16 in	7/8 in	0.344 in	5/16"-24	1 1/4 in	2,740 lbf	20F915	20F916
3/8 in	1 in	0.406 in	3/8"-24	1 1/4 in	4,210 lbf	20F917	20F918
7/16 in	1 1/8 in	0.437 in	7/16"-20	1 3/8 in	5,350 lbf	20F919	20F920
1/2 in	1 1/4 in	0.5 in	1/2"-20	1 1/2 in	6,430 lbf	20F921	20F922
5/8 in	1 1/2 in	0.562 in	5/8"-18	1 5/8 in	8,300 lbf	20F923	20F924
3/4 in	1 3/4 in	0.687 in	3/4"-16	1 3/4 in	10,900 lbf	20F925	20F926

QA1

Spherical Rod Ends with Stud

Feature a threaded ball stud that can mount to a moving part. Rod ends are designed to pivot in the housing to compensate for misalignment in industrial applications.

Note: Not for automotive or aircraft use.

20F991

Bore Dia.	Head Outside Dia.	Head Width	Shank Thread Size	Shank Thread Length	Ball Stud Thread Size	Ball Stud Thread Length	Static Radial Load Capacity	Shank Thread Direction Right Hand Item No.	Shank Thread Direction Left Hand Item No.
General Purpose Spherical Rod Ends									
Female Studded Ball, Carbon Steel Housing with Alloy Steel Ball									
3/16 in	5/8 in	0.234 in	#10-32	1/2 in	#10-32	3/8 in	2,079 lbf	20F991	20F992
1/4 in	3/4 in	0.25 in	1/4"-28	5/8 in	1/4"-28	1/2 in	3,820 lbf	20F993	20F994
5/16 in	7/8 in	0.312 in	5/16"-24	5/8 in	5/16"-24	9/16 in	5,110 lbf	20F995	20F996
3/8 in	1 in	0.359 in	3/8"-24	3/4 in	3/8"-24	3/4 in	6,323 lbf	20F997	20F998
7/16 in	1 1/8 in	0.406 in	7/16"-20	7/8 in	7/16"-20	7/8 in	7,897 lbf	20F999	20G001
1/2 in	1 1/4 in	0.453 in	1/2"-20	1 in	1/2"-20	1 in	10,046 lbf	20G002	20G003
6 mm	19 mm	6.25 mm	M6-1	14 mm	M6-1.0	11 mm	11,895 N	39N453	39N454
8 mm	22.25 mm	8 mm	M8-1.25	17 mm	M8-1.25	14 mm	15,190 N	39N455	39N456
10 mm	27 mm	9.5 mm	M10-1.5	21 mm	M10-1.5	19.5 mm	22,750 N	39N457	—
16 mm	38 mm	12.75 mm	M16-2	33 mm	M16-2.0	34 mm	37,391 N	39N463	39N464
Male Studded Ball, Carbon Steel Housing with Alloy Steel Ball									
3/8 in	1 in	0.359 in	3/8"-24	1 1/4 in	3/8"-24	3/4 in	6,323 lbf	20G014	20G015
Corrosion-Resistant Spherical Rod Ends									
Female Studded Ball, Stainless Steel Housing with Stainless Steel Ball									
3/16 in	5/8 in	0.234 in	#10-32	1/2 in	#10-32	3/8 in	1,190 lbf	20G056	20G057
1/4 in	3/4 in	0.25 in	1/4"-28	5/8 in	1/4"-28	1/2 in	2,165 lbf	20G058	20G059
5/8 in	1 1/2 in	0.484 in	5/8"-18	1 3/8 in	5/8"-18	1 3/8 in	8,200 lbf	20G068	20G069
6 mm	19 mm	6.25 mm	M6-1	14 mm	M6-1.0	11 mm	6,138 N	39N510	39N511
16 mm	38 mm	12.75 mm	M16-2	33 mm	M16-2.0	34 mm	25,162 N	39N520	39N521
Male Studded Ball, Stainless Steel Housing with Stainless Steel Ball									
7/16 in	1 1/8 in	0.406 in	7/16"-20	1 3/8 in	7/16"-20	7/8 in	5,689 lbf	20G080	20G081
1/2 in	1 1/4 in	0.453 in	1/2"-20	1 1/2 in	1/2"-20	1 in	7,352 lbf	20G082	20G083
Wear-Resistant Spherical Rod Ends									
Female Studded Ball, Carbon Steel Housing with Alloy Steel Ball									
3/16 in	7/8 in	0.344 in	3/16"-24	3/4 in	3/16"-24	3/16 in	2,740 lbf	20F931	20F932
3/8 in	1 in	0.406 in	3/8"-24	7/8 in	3/8"-24	3/4 in	4,100 lbf	20F933	20F934
1/2 in	1 1/4 in	0.5 in	1/2"-20	1 1/8 in	1/2"-20	1 in	6,430 lbf	20F937	20F938
3/4 in	1 3/4 in	0.687 in	3/4"-16	1 3/4 in	3/4"-16	1 5/8 in	10,900 lbf	20F941	20F942
Male Studded Ball, Carbon Steel Housing with Alloy Steel Ball									
3/8 in	1 in	0.406 in	3/8"-24	1 1/4 in	3/8"-24	3/4 in	4,210 lbf	20F949	20F950

QA1

Spherical Bearings

Compact size and can join moving parts in confined spaces. Alloy steel outer ring. **Heavy-Duty** for high load applications where there is increased demand and wear on the bearing. **Self-Lubricating** has a PTFE-lined raceway that is self-lubricating to reduce wear on the bearing.

45GY14

Bore Dia.	Outside Dia.	Outer Ring Width	Ball Dia.	Closure Open Item No.	Closure Double Sealed Item No.
Heavy-Duty Spherical Bearings					
1/2 in	7/8 in	0.375 in	0.709 in	45GY14	—
5/8 in	1 3/64 in	0.469 in	0.906 in	45GY15	—
1 in	1 5/8 in	0.75 in	1.437 in	45GY18	45GY19
1 1/4 in	2 in	0.937 in	1.791 in	45GY20	45GY21
1 1/2 in	2 7/16 in	1.125 in	2.154 in	45GY24	45GY25
2 in	3 3/16 in	1.5 in	2.874 in	45GY28	45GY29
2 1/2 in	3 15/16 in	1.875 in	3.622 in	45GY32	45GY33
Self-Lubricating Spherical Bearings					
1 in	2 in	0.781 in	1.687 in	19RT80	—
1 1/2 in	2 3/4 in	1.094 in	2.312 in	19RT83	—
2 in	3 1/2 in	1.375 in	2.937 in	19RT85	—

Scan. Order. Done.
Details on page A1.

Screwdriver Slot Face 13W661

Hex Socket Face Design 13W704

Yoke Type 11Y167

Cam Followers

A type of bearing that travels along a rotating projection on machinery and can handle high load and both symmetrical and elliptical motion. **General Purpose Stud** have a threaded stud that extends from the inner race to secure the bearing to a component and are for general purpose applications to convert rotating motion to linear motion. **Heavy Stud** feature a large diameter stud to accommodate heavy running loads and shock to reduce stud deflection or bending. For high-impact, industrial applications. **Eccentric Stud** have a stud mounted eccentrically on the follower bearing head, allowing for fine adjustments to the positioning of the bearing by turning the stud. They reduce system downtime caused by re-aligning the cam follower or re-machining of the stud's mounting hole position. **General Purpose Yoke** feature a hollow bore and mount directly to a stud shaft for more mounting flexibility. For general purpose applications that require minimal deflection or changes in direction.

Roller Dia. (in.)	Roller Width (in.)	Stud Thread Size	Stud Thread Length (in.)	Stud Length (in.)	Roller Head Type	Screwdriver Slot Face Design, Open Mfr. Model	Item No.	Screwdriver Slot Face Design, Double Sealed Mfr. Model	Item No.	Hex Socket Face Design, Open Mfr. Model	Item No.	Hex Socket Face Design, Double Sealed Mfr. Model	Item No.
General Purpose Stud Cam Followers													
½	⅜	#10-32	¼	⅝	Flat	CR-1/2	**13W661**	CR-1/2-X	**13W682**	CR-1/2-B	**13W704**	CR-1/2-XB	**13W725**
⅝	7/16	¼"-28	5/16	¾	Flat	CR-5/8	**13W663**	CR-5/8-X	**13W684**	CR-5/8-B	**13W706**	CR-5/8-XB	**13W727**
¾	½	⅜"-24	⅜	⅞	Flat	CR-3/4	**13W664**	CR-3/4-X	**13W685**	CR-3/4-B	**13W707**	CR-3/4-XB	**13W728**
⅞	½	⅜"-24	⅜	⅞	Flat	CR-7/8	**13W665**	CR-7/8-X	**13W686**	CR-7/8-B	**13W708**	CR-7/8-XB	**13W729**
1	⅝	7/16"-20	½	1	Flat	CR-1	**13W666**	CR-1-X	**13W687**	CR-1-B	**13W709**	CR-1-XB	**13W730**
1	⅝	7/16"-20	½	1	Crowned	—	—	CR-1-XC	**11Y070**	—	—	CR-1-XBC	**11Y091**
1¼	¾	½"-20	⅝	1 ¼	Flat	CR-1-1/4	**13W668**	CR-1-1/4-X	**13W689**	CR-1-1/4-B	**13W711**	CR-1-1/4-XB	**13W732**
1⅜	¾	½"-20	⅝	1 ¼	Flat	CR-1-3/8	**13W669**	CR-1-3/8-X	**13W690**	CR-1-3/8-B	**13W712**	CR-1-3/8-XB	**13W733**
1½	⅞	⅝"-18	¾	1 ½	Flat	CR-1-1/2	**13W670**	CR-1-1/2-X	**13W691**	CR-1-1/2-B	**13W713**	CR-1-1/2-XB	**13W734**
1½	⅞	⅝"-18	¾	1 ½	Crowned	—	—	CR-1-1/2-XC	**11Y074**	—	—	CR-1-1/2-XBC	**11Y095**
1¾	1	¾"-16	⅞	1 ¾	Flat	—	—	CR-1-3/4-X	**13W693**	—	—	CR-1-3/4-XB	**13W736**
2	1 ¼	⅞"-14	1	2	Flat	CR-2	**13W674**	CR-2-X	**13W695**	CR-2-B	**13W717**	CR-2-XB	**13W738**
2	1 ¼	⅞"-14	1	2	Crowned	—	—	—	—	—	—	CR-2-XBC	**11Y099**
3	1 ¾	1 ¼"-12	1 ¼	2 ½	Flat	CR-3	**13W678**	CR-3-X	**13W699**	CR-3-B	**13W721**	CR-3-XB	**13W742**

Roller Dia. (in.)	Roller Width (in.)	Stud Thread Size	Stud Thread Length (in.)	Stud Length (in.)	Roller Head Type	Hex Socket Face Design, Open Mfr. Model	Item No.	Hex Socket Face Design, Double Sealed Mfr. Model	Item No.
Heavy Stud Cam Followers									
½	⅜	¼"-28	¼	⅝	Flat	HR-1/2-B	**11Y026**	HR-1/2-XB	**11Y046**
⅝	7/16	5/16"-24	5/16	¾	Flat	HR-5/8-B	**11Y027**	HR-5/8-XB	**11Y047**
¾	½	7/16"-20	⅜	⅞	Flat	HR-3/4-B	**11Y028**	HR-3/4-XB	**11Y048**
¾	½	7/16"-20	⅜	⅞	Crowned	—	—	HR-3/4-XBC	**11Y149**
⅞	½	7/16"-20	⅜	⅞	Flat	HR-7/8-B	**11Y029**	—	—
1	⅝	⅝"-18	½	1	Flat	HR-1-B	**11Y030**	HR-1-XB	**11Y050**
1¼	¾	¾"-16	⅝	1 ¼	Flat	HR-1-1/4-B	**11Y032**	HR-1-1/4-XB	**11Y052**
1¼	¾	¾"-16	⅝	1 ¼	Crowned	—	—	HR-1-1/4-XBC	**11Y153**
1½	⅞	⅞"-14	¾	1 ½	Flat	HR-1-1/2-B	**11Y034**	HR-1-1/2-XB	**11Y054**
1½	⅞	⅞"-14	¾	1 ½	Crowned	—	—	HR-1-1/2-XBC	**11Y155**
2	1 ¼	1 ⅛"-12	1	2	Flat	HR-2-B	**11Y038**	HR-2-XB	**11Y058**
2	1 ¼	1 ⅛"-12	1	2	Crowned	—	—	HR-2-XBC	**11Y159**
Eccentric Stud Cam Followers									
1½	⅞	⅝"-18	¾	1 ½	Flat	—	—	CR-1-1/2-XBE	**13W755**
1½	⅞	⅝"-18	¾	1 ½	Crowned	—	—	CR-1-1/2-XBEC	**11Y118**

Roller Dia. (in.)	Bore Dia. (in.)	Roller Width (in.)	Overall Length (in.)	Roller Head Type	Open Mfr. Model	Item No.	Double Sealed Mfr. Model	Item No.
General Purpose Yoke Cam Followers								
¾	¼	½	9/16	Flat	YR-3/4	**11Y167**	YR-3/4-X	**11Y185**
¾	¼	½	9/16	Crowned	YR-3/4-C	**11Y204**	YR-3/4-XC	**11Y222**
1	5/16	⅝	11/16	Flat	YR-1	**11Y169**	YR-1-X	**11Y187**
1	5/16	⅝	11/16	Crowned	YR-1-C	**11Y206**	YR-1-XC	**11Y224**
1¼	⅜	¾	13/16	Flat	YR-1-1/4	**11Y171**	YR-1-1/4-X	**11Y189**
1¼	⅜	¾	13/16	Crowned	YR-1-1/4-C	**11Y208**	YR-1-1/4-XC	**11Y226**
1⅜	⅜	¾	13/16	Flat	YR-1-3/8	**11Y172**	YR-1-3/8-X	**11Y190**
1⅜	⅜	¾	13/16	Crowned	YR-1-3/8-C	**11Y209**	YR-1-3/8-XC	**11Y227**
1½	7/16	⅞	15/16	Flat	YR-1-1/2	**11Y173**	YR-1-1/2-X	**11Y191**
1½	7/16	⅞	15/16	Crowned	YR-1-1/2-C	**11Y210**	YR-1-1/2-XC	**11Y228**
1¾	½	1	1 1/16	Flat	YR-1-3/4	**11Y175**	YR-1-3/4-X	**11Y193**
1¾	½	1	1 1/16	Crowned	YR-1-3/4-C	**11Y212**	YR-1-3/4-XC	**11Y230**
2	⅝	1 ¼	1 5/16	Flat	YR-2	**11Y177**	YR-2-X	**11Y195**
2	⅝	1 ¼	1 5/16	Crowned	YR-2-C	**11Y214**	YR-2-XC	**11Y232**

Hardened Crown Roller Bearing

- Dynamic load cap.: 300 lb.
- Axial load cap.: 250 lb.

Durable zinc-plated steel bearing can support heavy loads. Roller rail, roller, and end stop are available on Grainger.com.

Roller Dia. (in.)	Roller Width (in.)	Stud Thread Size	Stud Thread Length (in.)	Stud Length (in.)	Roller Head Type	Mfr. Model	Item No.
Plain Face Design, Double Sealed Closure							
1 ⅜	⅜	5/16"-18	7/16	⅝	Crowned	PAC3016	**2CPP4**

15U560

Track Rollers

These track rollers are a bearing type that convert rotating motion to linear motion by making contact with and follow a track and withstand light to moderate loads. **Flanged Stud** have a flanged-roller head style for applications where the roller needs more guidance along the track and to withstand thrust loads. **V-Groove Stud** feature a deep channel along the roller head to connect to a rail and are for dirty environments where dust and dirt fall away from the track and can't accumulate on a flat surface. **V-Groove Yoke** feature a deep channel along the roller head to connect to a rail and are for dirty environments where dust and dirt fall away from the track and can't accumulate on a flat surface.

Roller Dia. (in)	Roller Width (in)	Overall Length (in)	Brand*	Stud Type: Stud Thread Size	Stud Thread Length	Concentric Stud Length (in)	Mfr. Model	Item No.	Eccentric Stud Thread Size	Stud Thread Length	Eccentric Stud Length (in)	Mfr. Model	Item No.
Flanged Stud Track Rollers													
Plain Face Design, Open													
1	25/32	1 27/32	SB	7/16"-20	½ in	1	FCR-1	**15U560**	—	—	—	—	—
1 ¾	1 3/16	3	SB	¾"-16	⅞ in	1 ¾	FCR-1-3/4	**15U565**	¾"-16	⅞ in	1 ¾	FCR-1-3/4-E	**15U623**
2	1 11/16	3 ¾	SB	⅞"-14	1 ⅛ in	2	FCR-2	**15U566**	⅞"-14	1 ⅛ in	2	FCR-2-E	**15U624**
3	2	4 9/16	SB	1 ¼"-12	1 ¾ in	2 ½	FCR-3	**15U570**	1 ¼"-12	1 ¾ in	2 ½	FCR-3-E	**15U628**
V-Groove Stud Track Rollers													
Plain Face Design, Double Sealed													
49/64	19/64	49/64	B-W	M8-1.25	5/16 in	5/16	SWSC1A	**35FV69**	M6-1	7/32 in	5/16	SWSE1A	**35FV70**
1 13/64	7/16	1 3/64	B-W	M10-1.5	7/16 in	7/16	SWSC2XA	**35FV71**	M8-1.25	21/64 in	7/16	SWSE2XA	**35FV72**
Plain Face Design, Open													
1 ½	25/32	1 27/32	SB	7/16"-20	½ in	1	VCR-1-1/2	**15U577**	—	—	—	—	—
2	27/32	2 5/32	SB	½"-20	⅝ in	1 ¼	VCR-2	**15U578**	½"-20	⅝ in	1 ¼	VCR-2-E	**15U632**
2 ½	1 5/16	3 ⅛	SB	¾"-16	⅞ in	1 ¾	VCR-2-1/2	**15U579**	¾"-16	⅞ in	1 ¾	VCR-2-1/2-E	**15U633**

Roller Dia. (in.)	Bore Dia. (in.)	Roller Width (in.)	Overall Length (in.)	Brand	Mfr. Model	Item No.
V-Groove Yoke Track Rollers						
Open						
3 ¾	¾	1 ½	1 35/64	Smith Bearing	VYR-3-3/4	**15U605**
4 ½	1	1 ¾	1 13/16	Smith Bearing	VYR-4-1/2	**15U606**

***SB = Smith Bearing, B-W = Bishop-Wisecarver.**

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Dayton

General Purpose Linear Actuators

- Linear motion: 10" to 12"; can be modified to shorter stroke lengths
- 115VAC, 60 Hz PSC motor
- Automatic thermal protection
- Limit switches: adjustable
- Duty cycle: 25%, 1 min. On/3 min. Off max.
- Single right-hand Acme screw

Adjustable internal limit switches provide control in positioning applications. For additional stroke modification, remove outer and translator tubes and replace with included driver nut. Single-lead, rolled-thread lifting screw for long life and smooth operation. Built-in worm gear is set for quiet gear reduction. Outer tube protects screw and nut from dust. Includes capacitor.

Totally Enclosed Nonventilated 1XFY1

Totally Enclosed Fan-Cooled 1XFX8

Item No.	Dimensions A	B	C	D	E	G	H	J	L	M	N
1XFY1	5.43"	0.382/0.376"	1.66"	1.38"	.75 to 8"	18.92"	18.63"	4.63"	20"	32"	½"
1XFY9	5.43"	0.382/0.376"	1.66"	1.38"	.75 to 8"	18.92"	18.63"	4.63"	20"	32"	½"
1XFX8	3.94"	0.382/0.376"	1.66"	1.38"	.75 to 5"	18.94"	19.35"	4.47"	20 ½"	32 ½"	½"
1XFX7	3.94"	0.382/0.376"	1.66"	1.38"	.75 to 5"	18.94"	19.35"	4.47"	20 ½"	32 ½"	½"
1XFX6	3.94"	0.505/0.500"	2.5"	2"	1 to 5"	19"	19.2"	5.3"	20 ½"	30 ½"	¾"

Rated Load	Stroke Length	Speed @ Rated Load	Full Load Amps	Item No.
Totally Enclosed Nonventilated				
300 lb	12 in	19.4 in/min	1.4 A	**1XFY1**
400 lb	12 in	8.4 in/min	1.4 A	**1XFX9**
Totally Enclosed Fan-Cooled				
1,000 lb	12 in	8.9 in/min	1.8 A	**1XFX8**
1,000 lb	12 in	20 in/min	4.2 A	**1XFX7**
1,300 lb	10 in	8.9 in/min	4.2 A	**1XFX6**

Linear Actuators

Warner Linear

- Aluminum alloy housing
- Totally enclosed nonventilated motor
- Duty cycle is time/temp./load dependent
- Clevis mount

Light-Duty provide lift-and-lower or push-and-pull movement for light load and short distance applications. **Rugged-Duty** are for high load and impact applications including construction/paving equipment, wagon and engine lifts, and deck and scissor lifts.

M-TRACK 1 SERIES (LIGHT-DUTY)

- Max. ambient temp.: 150°F
- Limit switch: nonadjustable
- Screw type: acme
- Nut material: delrin

Compact, self-contained design is excellent for use in small spaces. Typical uses include throttle control, air vent opening, remote window/mirror positioning, and gate opening.

B-TRACK K2 SERIES (RUGGED-DUTY)

- Thermal protection: auto
- Max. ambient temp.: 140°F
- Load-limiting clutch: nonadjustable
- Screw type: acme
- Nut material: bronze

Hybrid nut and screw design requires no brake. Intended for severe applications such as fertilizer gate control, mower decks, and implement lifts.

B-TRACK K2X SERIES (RUGGED-DUTY)

- Thermal protection: auto
- Max. ambient temp.: 140°F
- Load-limiting clutch: nonadjustable
- Screw type: ball screw

Ball screw with load control wrap spring brake. Excellent for severe, high-load applications such as commercial mower decks, spray booms, and construction equipment.

M-Track 1 Series

B-Track K2 Series

B-Track K2X Series

Rated Load	Stroke Length	Retracted Length	12V DC Full Load Amps	12V DC Speed @ Rated Load	12V DC Item No.	24V DC Full Load Amps	24V DC Speed @ Rated Load	24V DC Item No.
M-Track 1 Series (Light-Duty)								
100 lb	2 in	6 ¼ in	4.5 A	27 in/min	**18G681**	2.3 A	30 in/min	**18G684**
	4 in	8 ¼ in	4.5 A	30 in/min	**18G682**	2.3 A	30 in/min	**18G685**
	6 in	10 ¼ in	4.5 A	30 in/min	**18G683**	2.3 A	30 in/min	**18G686**

Rated Load	Gear Ratio	Stroke Length	Speed @ Rated Load	12V DC Retracted Length	12V DC Full Load Amps	12V DC Item No.	24V DC Retracted Length	24V DC Full Load Amps	24V DC Item No.	115V AC Retracted Length	115V AC Full Load Amps	115V AC Item No.	230V AC Retracted Length	230V AC Full Load Amps	230V AC Item No.
B-Track K2 Series (Rugged-Duty)															
600 lb	10:1	4 in	60 in/min	10 ¼ in	25 A	**18G641**	10 ¼ in	13 A	**18G651**	15 in	5 A	**18G661**	15 in	5 A	**18G671**
		6 in	60 in/min	12 ¼ in	25 A	**18G642**	12 ¼ in	13 A	**18G652**	17 in	5 A	**18G662**	17 in	5 A	**18G672**
		8 in	60 in/min	14 ¼ in	25 A	**18G643**	14 ¼ in	13 A	**18G653**	19 in	5 A	**18G663**	19 in	5 A	**18G673**
		12 in	60 in/min	18 ¼ in	25 A	**18G644**	18 ¼ in	13 A	**18G654**	23 in	5 A	**18G664**	23 in	5 A	**18G674**
		18 in	60 in/min	24 ¼ in	25 A	**18G645**	24 ¼ in	13 A	**18G655**	29 in	5 A	**18G665**	29 in	5 A	**18G675**
1,200 lb	20:1	4 in	30 in/min	10 ¼ in	25 A	**18G646**	10 ¼ in	13 A	**18G656**	15 in	5 A	**18G666**	15 in	5 A	**18G676**
		6 in	30 in/min	12 ¼ in	25 A	**18G647**	12 ¼ in	13 A	**18G657**	17 in	5 A	**18G667**	17 in	5 A	**18G677**
		8 in	30 in/min	14 ¼ in	25 A	**18G648**	14 ¼ in	13 A	**18G658**	19 in	5 A	**18G668**	19 in	5 A	**18G678**
		12 in	30 in/min	18 ¼ in	25 A	**18G649**	18 ¼ in	13 A	**18G659**	23 in	5 A	**18G669**	23 in	5 A	**18G679**
		18 in	30 in/min	24 ¼ in	25 A	**18G650**	24 ¼ in	13 A	**18G660**	29 in	5 A	**18G670**	29 in	5 A	**18G680**
B-Track K2X Series (Rugged-Duty)															
1,200 lb	10:1	4 in	54 in/min	12 in	25 A	**18G750**	12 in	13 A	**18G760**	15 in	5 A	**18G770**	15 in	5 A	**18G780**
		6 in	54 in/min	14 in	25 A	**18G751**	14 in	13 A	**18G761**	17 in	5 A	**18G771**	17 in	5 A	**18G781**
		8 in	54 in/min	16 in	25 A	**18G752**	16 in	13 A	**18G762**	19 in	5 A	**18G772**	19 in	5 A	**18G782**
		12 in	54 in/min	20 in	25 A	**18G753**	20 in	13 A	**18G763**	23 in	5 A	**18G773**	23 in	5 A	**18G783**
		18 in	54 in/min	26 in	25 A	**18G754**	26 in	13 A	**18G764**	29 in	5 A	**18G774**	29 in	5 A	**18G784**
2,200 lb	20:1	4 in	30 in/min	12 in	25 A	**18G755**	12 in	13 A	**18G765**	15 in	5 A	**18G775**	15 in	5 A	**18G785**
		6 in	30 in/min	14 in	25 A	**18G756**	14 in	13 A	**18G766**	17 in	5 A	**18G776**	17 in	5 A	**18G786**
		8 in	30 in/min	16 in	25 A	**18G757**	16 in	13 A	**18G767**	19 in	5 A	**18G777**	19 in	5 A	**18G787**
		12 in	30 in/min	20 in	25 A	**18G758**	20 in	13 A	**18G768**	23 in	5 A	**18G778**	23 in	5 A	**18G788**
		18 in	30 in/min	26 in	25 A	**18G759**	26 in	13 A	**18G769**	29 in	5 A	**18G779**	29 in	5 A	**18G789**

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Dayton VIBCO VIBRATORS

Electric Vibrators

Dayton—Quiet-operating units have a pressurized aluminum housing and feature prelubricated bearings; oversize vacuum-impregnated windings that withstand vibration and high centrifugal force; and steel end caps. Use in bins, chutes, hoppers, screens, feeders, compaction tables, and concrete pumping.

Dayton Micro models are compact for use in small spaces.

- **Force adjustable with eccentric weights (except 1DYN5 is not adjustable)**
- **Continuous duty at 100% output force**

VIBCO 2P and 4P Series—High-heat-resistant winding and oversize bearings help improve safety and extend service life. Terminal box offers easy connection and change of voltage. Meet ASTM and ASME standards.

2P models are designed for use on bins containing fine to granular materials, to pack coarse materials, and to consolidate concrete.

4P models are designed for bins containing lumpy or sticky materials, to pack light fluffy materials, and for typical screen vibrator uses.

- **Adjustable eccentrics for easy change of force**
- **Continuous duty only at certain force settings, intermittent Duty at maximum force settings**
- **Oversize electric motor for higher safety factor (watts/lb. impact)**

VIBCO Small-Impact Line—Designed to activate small hoppers, screens, chutes, tables and filling machines where a small shake is needed. Compact, noiseless vibrators help provide controlled flow of all materials, including fine powders, flakes, pills, bottle caps, and jars. Meet ASTM and ASME standards.

Heavy-duty 4HR13, 4HR14, 4HR16, and 4HR17 have oversize bearing, and the end bell is cast iron for extra-long life.

- **Speed and force can be adjusted with rheostats or speed adjusters**
- **4HR18 and 4HR19 have a continuous-duty motor with convenient 115V plugin**

Dayton 1DYN1

2P Series 6L744

SPRT Series 4HR16

SPWT Series 4HR18

Force Rating	Voltage VAC	Phase	Amps	Speed	dBA	Overall Dim. L	W	H	Bin Wt. Cap.	Mfr. Model	Item No.
Dayton Micro with TENV Motor											
20 lb	115V AC	1	0.8	3600 vpm	76	5 ¾ in	3 ½ in	3 in	132 lb	1DYN5	**1DYN5**
64 lb	115V AC	1	0.8	3600 vpm	76	5 ¾ in	4 ⅜ in	3 in	704 lb	1DYN6	**1DYN6**
143 lb	115V AC	1	0.5	3600 vpm	60	6 ⅜ in	4 5⁄16 in	3 ⅛ in	1,433 lb	23Y181	**23Y181**
Dayton with TENV Motor											
157 lb	115V AC	1	1.03	3600 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	1,300 lb	1DYN1	**1DYN1**
	230/460V AC	3	0.36/0.18	3600 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	1,300 lb	1DYL3	**1DYL3**
209 lb	115V AC	1	1.3	3600 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	2,430 lb	1DYN2	**1DYN2**
	230/460V AC	3	0.36/0.18	3600 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	2,430 lb	1DYL4	**1DYL4**
417 lb	115V AC	1	2.62	3600 vpm	76	9 7⁄64 in	5 ⅛ in	6 ¼ in	4,170 lb	1DYN3	**1DYN3**
	230/460V AC	3	0.70/0.35	3600 vpm	76	8 ½ in	5 ⅛ in	6 ¼ in	4,170 lb	1DYL5	**1DYL5**
712 lb	115V AC	1	3.43	3600 vpm	76	10 in	6 ⅛ in	7 in	7,120 lb	1DYN4	**1DYN4**
	230/460V AC	3	0.90/0.45	3600 vpm	76	10 in	6 ⅛ in	7 in	7,120 lb	1DYL6	**1DYL6**
1177 lb	230/460V AC	3	1.94/0.97	3600 vpm	76	13 ¼ in	6 ⅝ in	8 in	11,770 lb	1DYL7	**1DYL7**
1766 lb	230/460V AC	3	3.00/1.50	3600 vpm	76	12 ⅝ in	9 ¼ in	8 ¼ in	17,640 lb	1DYL8	**1DYL8**
2233 lb	230/460V AC	3	3.90/1.95	3600 vpm	76	15 ⅝ in	8 ¼ in	8 ¼ in	22,330 lb	1DYL9	**1DYL9**
VIBCO 2P & 4P Series with TENV Motor											
50 to 100 lb	115V AC	1	0.5	3600 vpm	60 @ 3 ft	7 ⅞ in	4 ⅛ in	5 in	750 lb	2P-75-1	**6L738**
50 to 200 lb	230/460V AC	3	1.0/0.5	1800 vpm	60	11 ½ in	5 ¾ in	6 ¾ in	3,000 lb	4P-350-3	**4HR70**
100 to 175 lb	115V AC	1	0.5	3600 vpm	63 @ 3 ft	8 3⁄16 in	4 ⅛ in	5 in	1,500 lb	2P-100-1	**4HR27**
	460V AC	3	0.7	3600 vpm	63 @ 3 ft	8 3⁄16 in	4 ⅛ in	5 in	1,500 lb	2P-100-3-460V	**4HR29**
100 to 500 lb	115/230V AC	1	6.0/3.0	1800 vpm	63	13 ⅛ in	6 ½ in	7 ½ in	7,000 lb	4P-700-1	**4HR77**
	230/460V AC	3	1.2/0.6	1800 vpm	63	13 ⅛ in	6 ½ in	7 ½ in	7,000 lb	4P-700-3	**6L745**
100 to 1100 lb	115/230V AC	1	5.0/2.5	3600 vpm	64 @ 3 ft	13 ½ in	6 ½ in	7 ½ in	9,000 lb	2P-450-1	**6L743**
	230/460V AC	3	1.2/0.6	3600 vpm	64 @ 3 ft	12 ⅜ in	6 ½ in	7 ½ in	9,000 lb	2P-450-3	**6L744**
100 to 1750 lb	115/230V AC	1	8.0/4.0	3600 vpm	70 @ 3 ft	15 ¼ in	7 ½ in	8 ½ in	17,000 lb	2P-800-1	**4HR46**
	230/460V AC	3	2.0/1.0	3600 vpm	70 @ 3 ft	14 ⅜ in	7 ½ in	8 ½ in	17,000 lb	2P-800-3	**4HR47**
180 to 400 lb	115/230V AC	1	3.0/1.5	3600 vpm	62 @ 3 ft	11 ½ in	5 ¾ in	6 ¾ in	4,500 lb	2P-200-1	**6L741**
	230/460V AC	3	1.0/0.5	3600 vpm	62 @ 3 ft	11 ½ in	5 ¾ in	6 ¾ in	4,500 lb	2P-200-3	**6L742**
250 to 800 lb	230/460V AC	3	1.2/0.6	1800 vpm	63	15 ½ in	6 ½ in	7 ⅝ in	10,000 lb	4P-1000-3	**4HR60**
750 to 1500 lb	230/460V AC	3	4.0/2.0	1800 vpm	72	17 9⁄16 in	6 5⁄16 in	8 9⁄16 in	—	4P-2000	**4HR66**
600 to 2500 lb	230/460V AC	3	3.0/1.5	3600 vpm	72 @ 3 ft	16 ½ in	7 ½ in	8 ½ in	25,000 lb	2P-1700	**4HR32**
VIBCO SPR Small-Impact Line with Open Motor											
20 lb	115V AC	1	0.4	1600 vpm	60	5 in	5 in	3 ½ in	150 lb	SPR-20	**4HR12**
	115V AC	1	0.7/3.2	3200 vpm	60	5 in	5 in	3 ½ in	200 lb	SPR-21	**6L727**
VIBCO SPR Small-Impact Line with TEFC Motor											
25 lb	115V AC	1	1.12	1600 vpm	60	7 in	6 in	4 ¼ in	250 lb	SPR-40	**6L728**
60 lb	115V AC	1	1.27/0.64	3200 vpm	60	7 in	6 in	4 ¼ in	600 lb	SPR-60	**6L729**
	115V AC	1	1.27/0.64	3200 vpm	60	7 in	6 in	4 ¼ in	600 lb	SPR-60HD	**4HR13**
80 lb	115V AC	1	1.36/0.64	3200 vpm	60	7 in	6 in	4 ¼ in	800 lb	SPR-80	**6L730**
	115V AC	1	1.36/0.64	3200 vpm	60	7 in	6 in	4 ¼ in	800 lb	SPR-80HD	**4HR14**
VIBCO SPRT Small-Impact Line with TENV Motor											
20 lb	115V AC	1	0.6/0.24	3200 vpm	60	5 in	5 in	3 ½ in	200 lb	SPRT-21	**4HR15**
60 lb	115V AC	1	0.6/0.24	3200 vpm	60	5 ½ in	6 in	4 ¼ in	600 lb	SPRT-60	**6L731**
	115V AC	1	0.6/0.24	3200 vpm	60	5 ½ in	6 in	4 ¼ in	600 lb	SPRT-60HD	**4HR16**
80 lb	115V AC	1	0.6/0.24	3200 vpm	60	5 ½ in	6 in	4 ¼ in	800 lb	SPRT-80	**6L732**
	115V AC	1	0.6/0.24	3200 vpm	60	5 ½ in	6 in	4 ¼ in	800 lb	SPRT-80HD	**4HR17**
VIBCO SPWT Small-Impact Line with Non-Ventilated, Totally Enclosed, Watertight Motor											
20 lb	115V AC	1	0.7/0.32	3200 vpm	60	5 ⅜ in	5 ½ in	6 ½ in	200 lb	SPWT-21	**4HR18**
80 lb	115V AC	1	0.7/0.32	3200 vpm	60	5 ⅜ in	5 ½ in	6 ½ in	800 lb	SPWT-80	**4HR19**

VIBCO VIBRATORS

Electric Vibrators with Adjustable Speed and Force

- **Continuous duty 950 to 2500 vpm**
- **Intermittent duty 2500 to 4000 vpm**
- **1 phase**

Heavy-duty vibrators' easy speed/impact dial control helps keep even hard-to-move materials in motion. The 115V plug fits standard outlets; with the TENV housing, these vibrators are great for outdoor and indoor use.

Force Rating	Amps	dBA	Overall Dim. L	W	H	Bin Wt. Cap.	Mfr. Model	Item No.
100 lb	1.3	68 @ 3 ft	6 ¾ in	6 in	4 ¼ in	1,000 lb	SCR-100	**6L734**
200 lb	2.60	70 @ 3 ft	8 1⁄16 in	4 ⅞ in	4 ⅛ in	2,000 lb	SCR-200	**6L735**
500 lb	3.5	70 @ 3 ft	13 3⁄16 in	5 ¾ in	6 ¾ in	5,000 lb	SCR-500	**6L736**
1000 lb	6.50	72 @ 3 ft	14 ¼ in	6 ½ in	7 ½ in	10,000 lb	SCR-1000	**6L737**

6L736

Dayton

VIBCO VIBRATORS

1DYN7

6L765

12VDC Vibrators

Battery-operated units are great for mobile applications. They are totally enclosed, watertight, and weather-resistant for use on farm equipment, heavy dump trucks, tailgate spreaders and salters, concrete pumps, and screens. Also for cleaning and to aid the flow of material from bins and chutes. Big Bertha standard dump truck vibrator 6L765 comes with a wiring and mounting kit.

Force Rating	Amps	Speed	dBA	Overall Dim. L	Overall Dim. W	Overall Dim. H	Bin Wt. Cap.	Mfr. Model	Item No.
Dayton Continuous Duty									
110 lb	6.60	3000 vpm	76	8 ¼ in	5 ⅛ in	5 ⅜ in	1,100 lb	1DYN7	**1DYN7**
437 lb	13.30	3000 vpm	76	8 ⅝ in	6 ½ in	5 ½ in	4,370 lb	1DYN8	**1DYN8**
VIBCO DC Series Continuous Duty									
100 lb	12/6	4000 vpm	72	6 ¾ in	6 in	4 1/16 in	1,000 lb	DC-100	**4HP57**
300 lb	14/7	4000 vpm	73	8 ⅝ in	4 1/16 in	4 ⅝ in	2,000 lb	DC-200	**6L769**
350 lb	16/8	4000 vpm	74	9 in	4 1/16 in	5 1/16 in	3,000 lb	DC-300	**4HP59**
400 lb	22/11	7000 vpm	75	8 ¼ in	4 ⅞ in	4 3/16 in	4,000 lb	DC-450T	**6L768**
VIBCO DC Series Intermittent Duty									
700 lb	25/13	6000 vpm	75	7 ¾ in	5 ⅝ in	5 3/16 in	7,000 lb	DC-700	**4HP60** *
1000 lb	32/16	5000 vpm	82	11 ⅛ in	5 ⅝ in	6 ¼ in	10,000 lb	DC-1600	**6L766** *
3500 lb	105/75	4000 vpm	70	11 ½ in	10 ⅛ in	9 1/16 in	35,000 lb	DC-3500	**6L765** †

** Duty based on 30 min./hr. † Duty based on 15 sec./min.*

Dayton

24A965

24A967

Fluidization Nozzles and Vibrating Bin Aerators

FLUIDIZATION NOZZLE

Emits a continuous low-pressure air flow to keep dry powders and granular products moving efficiently through bins or silos.

BIN AERATORS

- FDA 177-2600 Approved

Devices combine product aeration with an additional slight vibration on the silo wall to aid flow of fine powdery materials inside silos or bins. Will not damage silos. 24A968 stainless steel construction is for use in more demanding applications.

Air Consumption	Material	Inlet Port	Overall Dim. L	Overall Dim. W	Overall Dim. H	Item No.
Low Pressure Fluidization Nozzle						
0.03 cfm @ 2.9 PSI	Polymer	½"	1 9/16	1 9/16	2¾	**24A965**
Vibrating Bin Aerators						
8.82 cfm @ 87 psi	Aluminum	⅜"	4⅛	4⅛	2¾	**24A967**
8.82 cfm @ 87 psi	Stainless Steel	⅜"	4⅛	4⅛	2¾	**24A968**

4HP70

488H55

VIBCO VIBRATORS

WYCO Division of Badger Meter

Corded Concrete Vibrators

- 115V AC

These concrete vibrators can remove air pockets from newly poured concrete to ensure that it consolidates and reaches its maximum finished strength. They are corded to allow long run times for repetitive tasks, maintain full power during operation, and have no batteries to recharge.

Shaft Length (ft)	Head Dia. (in)	Head Length (in)	Radius of Vibration (in)	Vibrations per Minute (vpm)	Force Rating (lbf)	Mfr. Model	Item No.
1 ½ hp, Quick-Connect Shaft Connection Type, VIBCO							
5	1	13	5	11,000	183	JVS5-1	**4HR06**
7	1 ½	14	14	11,000	760	JVS7-1-1/2	**4HR10**
7	1 ¼	13	7	11,000	430	JVS7-1-1/4	**4HR11**
10	1 ½	14	14	11,000	760	JVS10-1-1/2	**4HP95**
2 ½ hp, Quick-Connect Shaft Connection Type, VIBCO							
10	1 ½	14	14	11,000	760	ACE10-1-1/2	**4HP70**
10	1 ¾	14	18	11,000	1,100	ACE10-1-3/4	**4HP71**
14	1 ½	14	14	11,000	760	ACE14-1-1/2	**4HP74**
3 hp, Thread-Mount Shaft Connection Type, WYCO							
7	1	—	4	10,500	300	W995G1T-100-7	**488H55**
7	1 ¾	—	7	10,500	1,100	W995G1T-175-7	**488H61**
7	2	—	8	10,500	2,500	W995G1T-200-7	**488H64**
10	1	—	4	10,500	300	W995G1T-100-10	**488H56**
10	2	—	8	10,500	2,500	W995G1T-200-10	**488H65**
14	1	—	4	10,500	300	W995G1T-100-14	**488H57**
14	2	—	8	10,500	2,500	W995G1T-200-14	**488H66**

VIBCO VIBRATORS

Air-Powered Concrete Vibrators

- 10-ft. shaft length
- Quick-connect shaft connection

Used to remove air pockets from newly poured concrete to ensure that it consolidates and reaches its maximum finished strength. Concrete vibrators operate on compressed air and contain few moving parts, so they are lightweight to ease handling, run cool for long life, and require minimal maintenance.

Head Dia. (in)	Head Length (in)	Radius of Vibration (in)	Vibrations per Minute (vpm)	Force Rating (lbf)	Air Consumption (cfm)	Mfr. Model	Item No.
1 ⅜	10 ¾	10	18,000	450	21.5	KA-1-3/8	**4HP67**
1 ¾	11 ½	14	17,000	800	26	KA-1-3/4	**4HP66**
2 ½	13	16	16,000	2,100	36	KA-2-1/2	**4HP68**
3	15	18	16,000	3,200	40	KA-3	**4HP69**

21AH50
Self-Adhesive Mounting Bracket

4HX08
Railroad Car Wedge Mounting Bracket

4HW96
Mounting Plate

4HV86
Clamp-On Mounting Bracket

Vibrator Mounting Brackets and Plates

VIBCO VIBRATORS

Self-Adhesive Brackets mount to most smooth surfaces in seconds without bolting or welding. **Clamp-On Brackets** provide a non-permanent mounting and are portable for use where needed. **Railroad Car Brackets** are specifically for use on railroad cars. **Mounting Plates** are used for the proper installation of vibrators in most applications.

For Use With	Material	Mfr. Model	Item No.
Self-Adhesive Mounting Bracket			
MLT-190, MLT-250, MLT-320, VS-130, VS-160VS-190VS-250VS-320BVS-130BVS-160BVS-190BVS-250BVS-320V-130V-190V-250V-320BV-130BV-190BV-250BV-32055-155-1-1/4B-190B-250B-320SCR-50SCR-100SPR-20SPR-21SPR-40SPR-60SPR-80SPRT-21SPRT-60SPRT-80	Aluminum & Silicone	STKIT903	**21AH50**
MLT-190MLT-250MLT-320VS-130VS-160VS-190VS-250VS-320BVS-130BVS-160BVS-190BVS-250BVS-320V-130V-190V-250V-320BV-130BV-190BV-250BV-32055-155-1-1/4B-190B-250B-320SCR-50SCR-100SPR-20SPR-21SPR-40SPR-60SPR-80SPRT-21SPRT-60SPRT-80	Aluminum & Silicone	STKIT903AM	**21AH51**
VS-380V-38050-1-1/2S-SP50-2S-SPUS-450TUS-700SVRFS-4000AL	Aluminum & Silicone	STKIT906	**21AH52**
Clamp-On Mounting Bracket			
BV, BVS-320, Clamp-On Bracket for B, V, VS-250/320	Steel	C-3	**4HV86**
Clamp-On Bracket for CCF-2000/4000, SVRFS-4000/2000	Steel	CCFC-3	**4HV89**
Clamp-On Bracket for SCR-1000	Steel	SCRC-1	**4HW27**
Railroad Car Wedge Mounting Bracket			
4P-350, Railroad Wedge For 2P-200	Steel	VMW-2	**4HX08**
Railroad Wedge For 2P-800-1	Steel	VMW-61	**4HX12**
Mounting Plate			
DC-100, Mounting Plate, SCR-100, US-100	Steel	UM-1	**4HW63**
Mounting Plate for 2P-75	Steel	VMM-11	**4HW96**

Find Mounting Brackets on page 142 and more Vibrator Accessories on Grainger.com.

VIBCO VIBRATORS

Hydraulic Vibrators

- Adjustable speed

Unaffected by dirty, muddy, or wet locations, hydraulic vibrators offer a low-cost solution for OEM applications. They produce high-frequency vibration with low noise levels and can be mounted in any position.

4HT14

Force Rating @ 1000 psi	GPM @ 1000 psi	Speed @ 1000 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Mfr. Model	Item No.
Inlet/Outlet Port:⅜ in NPT								
488 lb	6.5	7,400 vpm	5 ¼ in	3 ¼ in	4 ⅜ in	3,320 lb	B-190	**4HT14**
Inlet/Outlet Port:½ in NPT								
534 lb	6.5	5,800 vpm	7 in	3 ⅜ in	5 ⅜ in	3,970 lb	B-250	**4HT15**
617 lb	7	5,300 vpm	6 ⅞ in	3 ⅝ in	5 ⅞ in	4,450 lb	B-320	**4HT16**
Inlet/Outlet Port:¾"-16 SAE								
1,300 lb	3.2	5,000 vpm	11 ¼ in	10 ⅜ in	8 ¾ in	—	HF-800	**4HT21**
2,000 lb	2.6	4,000 vpm	11 ¼ in	10 ⅜ in	8 ¾ in	—	HF-1500	**4HT19**
3,500 lb	2.4	3,500 vpm	12 ¼ in	12 ½ in	10 ¾ in	—	HC-3500	**4HT17**
3,500 lb	2.4	3,500 vpm	12 ⅝ in	10 ¾ in	9 ¼ in	—	HF-3500	**4HT20**

VIBCO VIBRATORS

Pneumatic Railroad Carshakers

- Max. pressure: 100 psi
- Inlet port: 1" NPT

Heavy-duty rotary vibrators can move even the most stubborn materials, with 30% less air consumption than comparable piston vibrators. Lightweight, portable, and easy to handle, they fit all standard wedge brackets on railroad cars. Virtually noiseless operation. 4HV09, 4HV42, 4HV43 handle materials with moisture content as well as salts, clay-lime lumps, and like materials. 4HV40 can handle molasses, iron ore, sand, stone and like materials. 6L764 is designed for unloading grain, cement, and similar materials. It includes an 18" flex hose with muffler and quick-disconnect fittings.

6L764

Force Rating	CFM @ 60 psi	Speed @ 60 psi	dB @ 60 psi	Overall Dim. L	W	H	Mfr. Model	Item No.
3500 lb	39	3,500 vpm	80	12 ¼ in	12 ½ in	10 ¾ in	PC-3500	**4HV09**
Force Rating	**CFM @ 80 psi**	**Speed @ 80 psi**	**dB @ 80 psi**	**Overall Dim. L**	**W**	**H**	**Mfr. Model**	**Item No.**
5500 lb	56	9,000 vpm	—	8 ⅝ in	8 ⅝ in	9 ⅞ in	SVRWS-5500	**4HV42**
6500 lb	56	10,000 vpm	95	—	—	—	SVRC-6500	**4HV40**
7000 lb	48	7,200 vpm	78	8 ⅝ in	8 ⅝ in	9 ¾ in	CCW-5000	**6L764**
7200 lb	58	8,800 vpm	85	8 ⅝ in	8 ⅝ in	9 ⅞ in	SVRWS-6500	**4HV43**

Dayton

Silent Pneumatic Turbine Vibrators

Turbine has integrated flyweights that rotate on 2 oversize ball bearings. Units provide high-frequency, controllable speed, and low-amplitude, gentle vibration. Aluminum housing. For use with applicators, silos, hoppers, piping, and chutes.

1DYP6

Force Rating	Speed @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Item No.
581 lb	20,000 vpm	10.1	21,000 vpm	64	4 ½ in	1 ⅝ in	2 ½ in	5,810 lb	¼ in NPT	¼ in BSPP	Included	**1DYP6**
659 lb	28,500 vpm	10.1	31,000 vpm	61	4 ½ in	1 ⅝ in	2 ½ in	6,590 lb	¼ in NPT	¼ in BSPP	Included	**1DYP5**
1157 lb	19,000 vpm	16	23,000 vpm	66	5 in	2 ¼ in	3 ⅛ in	11,570 lb	¼ in NPT	¼ in BSPP	Included	**1DYP7**
1718 lb	12,500 vpm	26.5	14,500 vpm	67	6 ¼ in	2 ⅞ in	4 in	17,180 lb	⅜ in NPT	⅜ in BSPP	Included	**1DYP9**

CLEVELAND VIBRATOR COMPANY

Silent Pneumatic Turbine Vibrators

Acetal plastic and stainless steel body construction. Great for use in cleanroom and other sterile environments. Have very low air consumption to force ratio. Grade 5 mounting, fasteners included. No lubrication required.

18K887

Force Rating	CFM @ 60 psi	Speed @ 60 psi	dB @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
11 lb	0.61	19,250 vpm	74	0.81	20,000 vpm	78	1 ¼ in	23/32 in	⅞ in	100 lb	#10-32 UNF	#10-32 UNF	Included	CVT-P-1	**18K887**
25 lb	1.1	20,500 vpm	64	1.4	20,900 vpm	85	1 ½ in	31/32 in	1 9/32 in	200 lb	#10-32 UNF	#10-32 UNF	Included	CVT-P-10	**18K888**
47 lb	2.2	10,580 vpm	79	2.8	11,300 vpm	90	2 ¾ in	1 ¼ in	1 ¾ in	300 lb	⅛ in NPT	⅛ in NPT	Included	CVT-P-30	**18K889**
147 lb	2.8	6,280 vpm	74.5	3.6	6,560 vpm	76	4 ⅛ in	2 1/16 in	2 11/16 in	2,000 lb	¼ in NPT	¼ in NPT	Included	CVT-P-60	**18K890**

Find Mounting Brackets on page 142 and more Vibrator Accessories on Grainger.com.

VS Series
6L747

BVS Series
6L752

BBS Series
6L759

CCF/CCL
Series
6L763

GIO Series
14K260

MLT Series
30FW93

Silent Pneumatic Turbine Vibrators

Vibrators make no more noise than an electric motor. Maintenance-free, no lubrication required. Use 30% less air than comparable pneumatic vibrators and outlast ball and piston vibrators 3 to 1.

VS Series—For rough applications or where exhausted air will not affect production. Simple, compact design.

BVS Series—Threaded exhaust for closed-air environments and other applications where exhausted air must be remotely discharged.

BBS Series—For continuous duty in small applications such as parts feeders, tracks, and foundry matchplates. Versatile 1-bolt mount.

CCF/CCL Series—For heavy-duty applications on large bins, hoppers, chutes, packing tables, screens, and concrete forms.

GIO Series—Can be used with all types of bins that contain fine to granular materials, or for packing coarse materials and unjamming parts in conveyor lines, chutes, and pipes. Corrosion-resistant housing has excellent resistance to solvents. Single-bolt mount for maximum flexibility.

MLT Series—Prelubricated for continuous duty and maintenance-free operation in sanitary applications or where harsh chemicals are present. Threaded exhaust ports seal the system to help you maintain a clean environment. MLTSS HA model vibrator 30FW99 features high amplitude, and is better suited for lumpy or sticky applications. MLTSS HT model vibrator 30FX02 and MLT HT vibrator 30FW95 are suited for higher temperature applications.

MHI Series—Same as MLT Series but designed for intermittent duty, to produce high frequency and maximum forces. MLI HT model vibrator 30FW88 designed for higher temperature applications. Washdown-safe.

Force Rating	CFM @ 60 psi	Speed @ 60 psi	dB @ 60 psi	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	Overall Dim. W	Overall Dim. H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
VS Series, Cast Iron Housing															
20 lb	2	12,000 vpm	66	—	—	—	3 7/8 in	1 7/8 in	2 in	200 lb	1/8 in NPT	—	Included	VS-100	**4HV35**
75 lb	2	8,000 vpm	—	2	10,500 vpm	67	4 7/8 in	2 in	2 5/16 in	750 lb	1/8 in NPT	—	Included	VS-130	**6L746**
160 lb	2.3	10,000 vpm	—	2.5	12,000 vpm	70	5 1/8 in	2 7/8 in	3 in	1,600 lb	1/4 in NPT	—	Included	VS-160	**4HV36**
270 lb	3	4,200 vpm	—	3.5	12,000 vpm	70	5 7/16 in	3 1/4 in	3 1/16 in	5,000 lb	1/4 in NPT	—	Included	VS-190	**6L747**
500 lb	3	5,500 vpm	—	3.5	12,000 vpm	70	5 1/2 in	3 5/8 in	3 11/16 in	5,000 lb	1/4 in NPT	—	Included	VS-250	**6L748**
600 lb	4.5	5,200 vpm	—	5.5	6,800 vpm	69	5 1/2 in	4 in	4 3/4 in	7,000 lb	3/8 in NPT	—	Included	VS-320	**6L749**
725 lb	8	4,600 vpm	—	10	5,200 vpm	72	6 7/8 in	4 3/4 in	4 7/8 in	7,250 lb	3/8 in NPT	—	Included	VS-380	**6L750**
900 lb	18	4,000 vpm	—	21	4,500 vpm	77	6 15/16 in	4 3/4 in	5 3/8 in	9,000 lb	1/2 in NPT	—	Included	VS-510	**6L751**
1000 lb	18	4,000 vpm	—	21	4,500 vpm	77	7 3/8 in	4 13/16 in	8 in	10,000 lb	1/2 in NPT	—	Included	VSP-510	**4HV37** *
BVS Series, Cast Iron Housing															
20 lb	2	12,000 vpm	66	—	—	—	3 13/16 in	1 5/8 in	2 7/16 in	200 lb	1/8 in NPT	1/8 in NPT	1A325	BVS-60	**4HV01**
75 lb	2	8,000 vpm	—	2	10,500 vpm	67	4 7/8 in	1 7/8 in	2 5/8 in	750 lb	1/8 in NPT	1/4 in NPT	1A326	BVS-130	**6L752**
160 lb	2.3	9,500 vpm	—	2.5	11,000 vpm	70	5 1/2 in	2 7/8 in	3 5/8 in	1,600 lb	1/4 in NPT	3/8 in NPT	1A327	BVS-160	**4HT96**
270 lb	3	5,500 vpm	—	3.5	7,200 vpm	71	5 1/4 in	3 1/16 in	3 7/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	1A327	BVS-190	**6L753**
480 lb	3	5,200 vpm	—	3.5	7,200 vpm	72	6 3/4 in	3 9/16 in	3 15/16 in	4,800 lb	1/4 in NPT	3/8 in NPT	1A327	BVS-250	**6L754**
600 lb	4.5	5,500 vpm	—	5.5	6,800 vpm	70	6 3/4 in	4 in	4 7/8 in	5,300 lb	3/8 in NPT	1/2 in NPT	1A328	BVS-320	**6L755**
670 lb	8	4,500 vpm	—	10	5,000 vpm	74	7 15/16 in	4 3/4 in	5 13/16 in	6,700 lb	3/8 in NPT	1/2 in NPT	1A328	BVS-380	**6L756**
900 lb	12	4,000 vpm	—	13	4,500 vpm	77	8 15/16 in	4 3/4 in	5 3/4 in	9,000 lb	1/2 in NPT	3/4 in NPT	6F600	BVS-510	**6L757**
1050 lb	21	3,600 vpm	—	26	4,000 vpm	83	10 3/16 in	5 7/16 in	7 1/4 in	10,500 lb	3/4 in NPT	1 in NPT	6F601	BVS-570	**6L758**
BBS Series, Aluminum Housing															
20 lb	2	10,000 vpm	66	—	—	—	3 1/4 in	1 5/8 in	2 in	200 lb	1/8 in NPT	1/8 in NPT	1A325	BBS-100	**6L759**
75 lb	2	12,000 vpm	—	5.5	17,000 vpm	67	3 1/16 in	1 7/8 in	2 1/4 in	750 lb	1/4 in NPT	1/4 in NPT	1A326	BBS-130	**6L760**
160 lb	2	10,000 vpm	—	7	12,000 vpm	67	4 1/8 in	2 in	2 9/16 in	1,600 lb	1/4 in NPT	1/4 in NPT	1A326	BBS-160	**6L761**
250 lb	2	10,000 vpm	—	7	15,000 vpm	70	4 1/8 in	2 in	2 9/16 in	2,500 lb	1/4 in NPT	1/4 in NPT	1A326	BBS-190	**4HT88**
CCF/CCL Series, Cast Iron Housing															
2000 lb	30	4,000 vpm	—	40	6,000 vpm	78	7 1/2 in	8 1/16 in	7 1/8 in	20,000 lb	3/4 in NPT	3/4 in NPT	Included	CCF-2000	**6L762**
5000 lb	35	4,000 vpm	—	50	6,000 vpm	75	10 1/4 in	8 5/8 in	8 7/8 in	50,000 lb	1 in NPT	1 in NPT	Included	CCF-5000	**6L763**
5000 lb	35	4,000 vpm	—	50	6,000 vpm	75	9 3/4 in	8 5/8 in	8 5/8 in	50,000 lb	1 in NPT	1 in NPT	Included	CCL-5000	**4HV03**
GIO Series, High Density Plastic Housing															
20 lb	3.5	12,000 vpm	66	—	—	—	3 1/4 in	1 5/8 in	2 in	200 lb	1/8 in NPT	1/8 in NPT	1A325	GIO-100	**14K260**
75 lb	4.5	8,000 vpm	67	5.5	10,500 vpm	67	3 3/4 in	1 7/8 in	2 1/4 in	750 lb	1/4 in NPT	1/4 in NPT	1A326	GIO-130	**14K261**
160 lb	5	5,500 vpm	67	7	9,000 vpm	67	4 1/8 in	2 in	2 9/16 in	1,600 lb	1/4 in NPT	1/4 in NPT	1A326	GIO-160	**14K262**
250 lb	5	8,500 vpm	70	7	10,000 vpm	70	4 1/8 in	2 in	2 9/16 in	2,500 lb	1/4 in NPT	1/4 in NPT	1A326	GIO-190	**14K263**
MLT Series, Aluminum Housing															
20 lb	4	12,000 vpm	68	—	—	—	3 1/2 in	1 7/8 in	2 1/2 in	200 lb	1/8 in NPT	1/8 in NPT	Optional	MLT-100	**30FW92**
75 lb	4.5	8,600 vpm	68	5.5	10,500 vpm	68	3 1/2 in	1 7/8 in	2 1/2 in	750 lb	1/8 in NPT	1/4 in NPT	Optional	MLT-130	**30FW93**
270 lb	7.5	5,500 vpm	71	8.5	7,200 vpm	71	4 1/2 in	1 13/16 in	3 3/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	Optional	MLT-190	**30FW94**
270 lb	7.5	5,500 vpm	71	8.5	7,200 vpm	71	4 1/2 in	1 13/16 in	3 3/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	Optional	MLT-190HT	**30FW95**
480 lb	8	5,200 vpm	72	9	7,200 vpm	72	5 in	3 1/2 in	3 3/8 in	4,800 lb	1/4 in NPT	3/8 in NPT	Optional	MLT-250	**30FW96**
600 lb	9	5,500 vpm	70	10	6,800 vpm	70	6 3/8 in	4 in	4 1/4 in	5,000 lb	3/8 in NPT	1/2 in NPT	Optional	MLT-320	**30FW97**
MLT Series, 303 Stainless Steel Housing															
75 lb	4.5	8,600 vpm	68	5.5	10,500 vpm	68	3 1/2 in	1 7/8 in	2 9/16 in	750 lb	1/8 in NPT	1/4 in NPT	Optional	MLTSS-130	**30FW98**
75 lb	4.5	8,600 vpm	68	5.5	10,500 vpm	68	3 1/2 in	1 7/8 in	2 9/16 in	750 lb	1/8 in NPT	1/4 in NPT	Optional	MLTSS-130HA	**30FW99**
270 lb	7.5	5,500 vpm	71	8.5	7,200 vpm	71	5 1/8 in	3 3/8 in	3 3/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	Optional	MLTSS-190	**30FX01**
270 lb	7.5	5,500 vpm	71	8.5	7,200 vpm	71	5 1/8 in	3 3/8 in	3 3/16 in	2,700 lb	1/4 in NPT	3/8 in NPT	Optional	MLTSS-190HT	**30FX02**
600 lb	9	5,500 vpm	70	10	6,800 vpm	70	6 in	4 in	3 3/16 in	6,000 lb	3/8 in NPT	1/2 in NPT	Optional	MLTSS-320	**30FX03**
MLT Series, 316L Stainless Steel Housing															
600 lb	9	5,500 vpm	70	10	6,800 vpm	70	6 in	4 in	3 3/16 in	6,000 lb	3/8 in NPT	1/2 in NPT	Optional	MLTSS-320-316L	**30FX04**
MHI Series, Aluminum Housing															
80 lb	4	24,000 vpm	68	—	—	—	3 1/2 in	1 7/8 in	2 1/2 in	—	1/8 in NPT	1/8 in NPT	Optional	MHI-100	**30FW82**
80 lb	4	24,000 vpm	68	—	—	—	3 1/2 in	1 7/8 in	2 1/2 in	—	1/8 in NPT	1/8 in NPT	Optional	MHI-100S	**30FW83** †
300 lb	4.5	17,200 vpm	68	5.5	21,000 vpm	68	3 1/2 in	1 7/8 in	2 3/8 in	—	1/8 in NPT	1/4 in NPT	Optional	MHI-130	**30FW84**
575 lb	7.5	8,000 vpm	71	8.5	10,500 vpm	71	4 1/2 in	3 3/8 in	3 3/16 in	—	1/4 in NPT	3/8 in NPT	Optional	MHI-190	**30FW85**
965 lb	8	7,400 vpm	72	9	10,200 vpm	72	5 in	3 1/2 in	3 3/8 in	—	1/4 in NPT	3/8 in NPT	Optional	MHI-250	**30FW86**
1300 lb	9	7,200 vpm	70	10	10,000 vpm	70	6 in	4 in	4 1/4 in	—	3/8 in NPT	1/2 in NPT	Optional	MHI-320	**30FW87**
1300 lb	9	7,200 vpm	70	10	10,000 vpm	70	6 3/8 in	4 in	4 1/4 in	—	3/8 in NPT	1/2 in NPT	Optional	MHI-320HT	**30FW88**
MHI Series, 303 Stainless Steel Housing															
300 lb	4.5	17,200 vpm	68	5.5	21,000 vpm	68	3 1/2 in	1 7/8 in	2 3/8 in	—	1/8 in NPT	1/4 in NPT	Optional	MHISS-130	**30FW89**
575 lb	7.5	8,000 vpm	71	8.5	10,500 vpm	71	4 1/2 in	3 3/8 in	3 1/16 in	—	1/4 in NPT	3/8 in NPT	Optional	MHISS-190	**30FW90**
1300 lb	9	7,200 vpm	70	10	10,000 vpm	70	6 in	4 in	4 9/16 in	—	3/8 in NPT	1/2 in NPT	Optional	MHISS-320	**30FW91**

** For portable mounting; requires Bracket 4HW67, sold separately on Grainger.com. † Stainless steel turbine wheel.*

Find Mounting Brackets on page 142 and more Vibrator Accessories on Grainger.com.

Dayton 1DYN9

VIBCO V Series 4HV27

VIBCO BV Series 4HT93

VIBCO BB Series 4HT84

Pneumatic Ball Vibrators

DAYTON

Suitable for continuous operation in harsh outdoor conditions with small- to medium-size hoppers, bins, chutes, and pipes. Anodized aluminum housing. Maintenance-free when used with filtered/lubricated air.

VIBCO

Simple ball design is built for rough use and continuous operation on a wide variety of hoppers, bins, and chutes. Clean air and lubrication are recommended for longer life. Threaded exhaust ports.

V and BV Series—V series units are built to fit in minimal space locations. BV series vibrators are designed with industry-standard bolt pattern for easy interchange.

BB Series—Built for small to medium amounts of vibration on laboratory equipment, small hoppers, parts feeders, chutes, and match plates.

Force Rating	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
Dayton												
242 lb	9.9	19,500 vpm	76	4 ½ in	2 in	2 ½ in	2,420 lb	¼ in NPT	¼ in BSPP	Included	1DYN9	**1DYN9**
378 lb	12	16,500 vpm	76	5 in	2 ⅜ in	3 ⅛ in	3,780 lb	¼ in NPT	¼ in BSPP	Included	1DYP1	**1DYP1**
451 lb	15.0	14,000 vpm	80	5 in	2 ⅜ in	3 ⅛ in	4,510 lb	¼ in NPT	¼ in BSPP	Included	1DYP2	**1DYP2**
706 lb	20.1	12,500 vpm	80	6 ¼ in	3 ⅛ in	4 in	7,060 lb	⅜ in NPT	⅜ in BSPP	Included	1DYP3	**1DYP3**
891 lb	23.8	10,000 vpm	86	6 ¼ in	3 ⅛ in	4 in	8,910 lb	⅜ in NPT	⅜ in BSPP	Included	1DYP4	**1DYP4**
Force Rating	**CFM @ 60 psi**	**Speed @ 60 psi**	**dB @ 60 psi**	**Overall Dim. L**	**W**	**H**	**Bin Wt. Cap.**	**Inlet Port**	**Outlet Port**	**Muffler**	**Mfr. Model**	**Item No.**
VIBCO												
V Series												
55 lb	6	24,000 vpm	75	3 ⅞ in	1 11/16 in	2 in	550 lb	⅛ in NPT	⅛ in NPT	Included	V-100	**4HV27**
80 lb	7.5	19,000 vpm	72	4 ⅞ in	1 15/16 in	2 9/16 in	800 lb	⅛ in NPT	⅛ in NPT	Included	V-130	**4HV28**
260 lb	10	14,000 vpm	73	5 1/16 in	2 ⅜ in	3 3/16 in	2,600 lb	¼ in NPT	¼ in NPT	1A326	V-190	**4HV29**
380 lb	11	10,500 vpm	72	5 9/16 in	2 7/16 in	3 ½ in	3,800 lb	¼ in NPT	¼ in NPT	1A326	V-250	**4HV30**
600 lb	15	6,200 vpm	78	6 ⅞ in	2 15/16 in	4 ⅞ in	6,000 lb	⅜ in NPT	⅜ in NPT	1A327	V-380	**4HV32**
650 lb	14	8,900 vpm	78	5 9/16 in	2 ¾ in	4 ⅞ in	6,500 lb	⅜ in NPT	⅜ in NPT	1A327	V-320	**4HV31**
BV Series												
55 lb	6	24,000 vpm	74	3 ⅞ in	1 11/16 in	2 ½ in	550 lb	⅛ in NPT	⅛ in NPT	1A325	BV-60	**4HT95**
80 lb	7.5	19,000 vpm	76	4 ⅞ in	1 15/16 in	2 ¾ in	800 lb	⅛ in NPT	¼ in NPT	1A326	BV-130	**4HT90**
260 lb	10	14,000 vpm	77	5 ½ in	2 ¼ in	3 9/16 in	2,600 lb	¼ in NPT	¼ in NPT	1A326	BV-190	**4HT91**
380 lb	11	10,500 vpm	79	6 ¾ in	2 7/16 in	3 15/16 in	3,800 lb	¼ in NPT	¼ in NPT	1A326	BV-250	**4HT92**
480 lb	14	7,500 vpm	80	6 11/16 in	2 ¾ in	4 ⅞ in	4,800 lb	⅜ in NPT	⅜ in NPT	1A327	BV-320	**4HT93**
600 lb	15	6,200 vpm	82	7 ⅞ in	2 15/16 in	5 ¾ in	6,000 lb	⅜ in NPT	⅜ in NPT	1A327	BV-380	**4HT94**
BB Series												
55 lb	6	24,000 vpm	75	3 ¼ in	1 9/16 in	2 in	550 lb	⅛ in NPT	⅛ in NPT	1A325	BB-100	**4HT84**
80 lb	7.5	19,000 vpm	72	3 ¾ in	1 15/16 in	2 ¼ in	800 lb	¼ in NPT	¼ in NPT	1A326	BB-130	**4HT85**
140 lb	8	15,000 vpm	76	4 ⅛ in	2 in	2 9/16 in	1,400 lb	¼ in NPT	¼ in NPT	1A326	BB-160	**4HT86**
250 lb	11	15,500 vpm	77	4 ⅛ in	2 in	2 9/16 in	2,500 lb	¼ in NPT	¼ in NPT	1A326	BB-190	**4HT87**

Pneumatic Piston Vibrators

DAYTON

Cast-iron vibrators are maintenance-free when used with filtered/lubricated air. Start in every mounting orientation to keep material flowing from bins, hoppers, chutes, and pipes. For sticky, coarse, or high-moisture materials.

VIBCO

High-impact and efficient energy transfer ensure a smooth flow of material through bins, chutes, and weigh batchers. Can be used in any mounting orientation. Lubrication required. For industry, mining, chemical plants, plastics, manufacturing, foundries, and paper plants.

10 Series—Basic vibrators for foundry match-plate applications feature all-steel construction with end-mounted single attaching head.

50 Series—All-steel construction withstands abuse and handles tough flow applications including sticky, high-moisture, and coarse materials. Hardened ground piston for long life. 4HT60 long-stroke, low-frequency version is great for material packing applications.

55 Series—Low-cost, 1-pc. cast-iron housing, and only 3 parts, total.

CLEVELAND

Dual-diameter piston allows units to be mounted at any angle without use of springs. Excellent for automatic parts track vibration, packaging/filling machine, and small bin and hopper applications. Include mounting fasteners and push-fit hose connections for quick setup.

All models have a 304 stainless steel housing. 18K850 and 18K852 have mild steel end caps; for use in manufacturing and packaging industries. 18K851 has 304 stainless steel end caps; well-suited for chemical and pharmaceutical industries.

Dayton 1DYR1

VIBCO 10 Series 4HT24

VIBCO 50 Series 4HT46

VIBCO 55 Series 4HT74

Cleveland 18K850

Force Rating	CFM @ 80 psi	Speed @ 80 psi	dB @ 80 psi	Overall Dim. L	W	H	Bin Wt. Cap.	Inlet Port	Outlet Port	Muffler	Mfr. Model	Item No.
Dayton												
19.3 lb	2.8	2,340 vpm	87	2 in	2 in	4 ½ in	193 lb	⅛ in NPT	⅛ in BSPP	1A325	23Y178	**23Y178**
33.9 lb	3.7	2,220 vpm	90	2 ⅜ in	2 ⅜ in	4 ½ in	339 lb	¼ in NPT	¼ in BSPP	1A326	23Y179	**23Y179**
397 lb	7.1	3,500 vpm	91	5 ¾ in	3 ⅝ in	3 ⅝ in	3,970 lb	¼ in NPT	¼ in BSPP	Included	1DYR1	**1DYR1**
1323 lb	10.6	3,000 vpm	96	5 ¾ in	3 ⅝ in	4 ¾ in	13,230 lb	⅜ in NPT	⅜ in BSPP	Included	1DYR2	**1DYR2**
VIBCO												
10 Series												
148 lb	4.5	14,500 vpm	90	5 ½ in	1 ⅛ in	1 ⅞ in	100 lb	⅛ in NPT	⅛ in NPT	1A325	10⅝	**4HT28**
182 lb	5	13,000 vpm	91	5 ½ in	1 ¼ in	1 15/16 in	200 lb	⅛ in NPT	⅛ in NPT	1A325	10¾	**4HT27**
242 lb	5	11,000 vpm	93	5 9/16 in	1 ⅝ in	1 15/16 in	400 lb	⅛ in NPT	⅛ in NPT	1A325	10-1	**4HT24**
325 lb	9	7,000 vpm	95	9 ¼ in	2 ¼ in	2 15/16 in	1,000 lb	¼ in NPT	¼ in NPT	1A326	10-1-1/4	**4HT26**
50 Series												
242 lb	5	11,000 vpm	90	4 ½ in	2 in	4 9/16 in	400 lb	⅛ in NPT	⅛ in NPT	1A325	50-1	**4HT46**
325 lb	9	7,000 vpm	92	6 in	2 ½ in	6 ½ in	1,000 lb	¼ in NPT	¼ in NPT	1A326	50-1-1/4	**4HT51**
585 lb	11	5,200 vpm	95	7 ½ in	3 in	7 15/16 in	4,000 lb	¼ in NPT	¼ in NPT	1A326	50-1-1/2	**4HT47**
610 lb	15	5,000 vpm	99	9 in	3 ½ in	7 15/16 in	10,000 lb	¼ in NPT	¼ in NPT	1A326	50-2	**4HT58**
770 lb	31	2,400 vpm	99	9 in	3 ½ in	9 7/16 in	20,000 lb	¼ in NPT	¼ in NPT	1A326	50-2L	**4HT60**
55 Series												
242 lb	5	11,000 vpm	91	4 ½ in	2 in	3 ⅞ in	400 lb	¼ in NPT	9/16 in NPT	1A326	55-1	**4HT74**
325 lb	9	7,000 vpm	94	6 in	2 ½ in	5 ⅝ in	1,000 lb	¼ in NPT	¼ in NPT	1A326	55-1-1/4	**4HT77**
585 lb	11	5,200 vpm	96	9 in	3 ½ in	7 ¼ in	4,000 lb	¼ in NPT	¼ in NPT	1A326	55-1-1/2	**4HT75**
610 lb	15	5,000 vpm	99	9 in	3 ½ in	7 ¼ in	10,000 lb	¼ in NPT	¼ in NPT	1A326	55-2	**4HT80**
1900 lb	30	3,800 vpm	99	10 ½ in	5 in	9 7/16 in	30,000 lb	⅜ in NPT	⅜ in NPT	1A327	55-3	**4HT82**
Cleveland												
15 lb	2	16,000 vpm	95	2 3/16 in	⅝ in	1 ¼ in	100 lb	¼ in OD Hose	#10-32 UNF	1EJX3	VM-25	**18K850**
15 lb	2	16,000 vpm	95	2 3/16 in	⅝ in	1 ¼ in	100 lb	¼ in OD Hose	#10-32 UNF	1EJX3	VM-25 SS	**18K851**
21 lb	2.1	11,400 vpm	101	2 ⅞ in	⅝ in	1 ¼ in	100 lb	¼ in OD Hose	#10-32 UNF	1EJX3	VM-38	**18K852**