



Drive Couplings

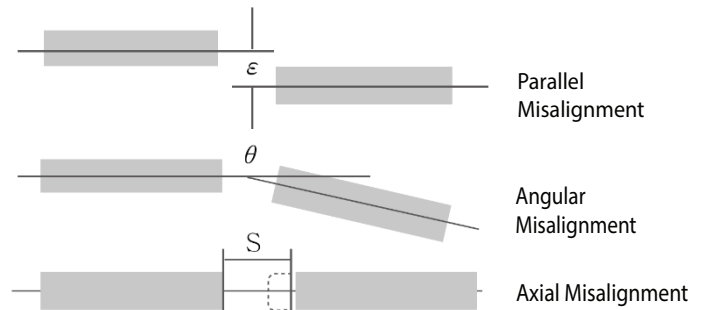
Overview

Rotating shaft-driven mechanical components are commonly used in all forms of machinery that perform the various processes and functions of modern industry. Perfect alignment of shafts and rotating components is desired, but it is nearly impossible to build a real-world machine in which adjacent shaft ends align perfectly. Adjacent shafts can be misaligned in 3 orientations, angular, parallel and axial, see figure below. Misalignment will place stresses on shafts and related parts of the assembly such as bearings, which can result in early failure of both.

Drive couplings can be used to compensate for shaft misalignment, whether the misalignment is an intentional or an unintentional part of the design. When designing or modifying a system, there are essential factors to consider for choosing the correct couplings for the application.



Some degree of Parallel, Angular, or Axial misalignment between shafts is almost unavoidable. Compensation for Shaft Misalignment is the most important feature of Couplings.



(Refer to the specification tables herein for the particular specifications of each type of drive coupling.)

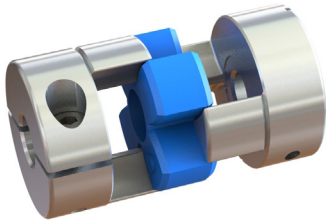
- **RPM:** For higher rpm applications, choose Jaw/Sleeve, High Gain, or Radial Beam-Style Servo couplings. For lower rpm, consider Oldham couplings.
- **Torque:** Consider the torque requirements of the application, and the torque specifications of the different drive coupling types. Peak torque generally occurs at start-up, operating torque at steady-state operation, and reversing or braking torque during rapid acceleration or deceleration or direction changes.
- **Backlash:** Backlash is a measurement of the positional accuracy of the coupling, which is important for reversing and/or motion control applications. Zero backlash is ultimately desirable, but more expensive than necessary for low-precision applications.
- **Precision:** for high-precision applications, choose High Gain or Radial Beam- Style Servo. For applications requiring less precision, consider Jaw/Sleeve couplings.

Coupling Type Comparisons				
Coupling Type	SJC Series Jaw / Spider	SOH Series Oldham Hub/Disc	SRB Series Radial Beam	SHR Series High Gain
Representative Photo				
Mounting Method	Clamp	Clamp	Clamp	Clamp
Backlash Free	Good	Yes	Yes	Yes
Electrical Isolation	Good	Good	No	No
Vibration Absorption	Good	Good	No	Excellent
Jaw/Hub/Body Material	High Strength Aluminum Alloy with Anodized Finish	High Strength Aluminum Alloy with Anodized Finish	Aluminum 7075-T6 with Anodized Finish	High Strength Aluminum Alloy with Anodized Finish
Spider/Disc/Core Material	TPU (Thermoplastic Polyurethane) or Hytrel ®	POM (Polyacetal)	Aluminum 7075-T6	HNBR (Hydrogenated acrylonitrile butadiene rubber)
Permissible Operating Temperature	-20°C to 120°C	-20°C to 80°C	-30°C to 100°C	-20°C to 80°C



Drive Couplings

SJC Series Jaw/Spider Clamp- Style Coupling



Features

- Clamp Style Hub
- Most Commonly specified coupling type
- Wide bore selection
- Wide Torque Range
- High axial misalignment range
- Cost effective
- Fail-safe operation
- Electrical Isolation
- Spider available in three different degrees of durometers, stiffness, and torque ratings
- Jaw material: High Strength Aluminum Alloy
- Spider materials: Hytrel® or TPU (thermoplastic polyurethane)

Applications

- General Applications
- High Speed Applications
- Applications with high axial misalignment
- Applications in which inertia is NOT a factor

To create a coupling to meet your specific needs:

- Select 2 Jaws with desired Bores, of the same SJC Size
- Select 1 Spider with the desired performance specification, of the same SJC Size
- Verify Actual Torque ratings based Temperature Correction Factor (TF)

SJC Series Coupling Jaws							
Part Number	Price	Size	Bore, B1 or B2	Max RPM	Clamp - Screw		Drawing Links
					Type	Fastening Torque (N-m)	
SJC-14C-3	\$10.50	14	3mm	22,000	SHCS M2-0.4 × 6mm	0.5	PDF
SJC-14C-4			4mm				PDF
SJC-14C-5			5mm				PDF
SJC-14C-6			6mm				PDF
SJC-14C-4.76			3/16in				PDF
SJC-14C-6.35			1/4in				PDF
SJC-20C-4	\$11.50	20	4mm	15,000	SHCS M2.6-0.45 × 8mm	1.0	PDF
SJC-20C-5			5mm				PDF
SJC-20C-6			6mm				PDF
SJC-20C-8			8mm				PDF
SJC-20C-10			10mm				PDF
SJC-20C-6.35			1/4in				PDF
SJC-20C-7.93			5/16in				PDF
SJC-20C-9.525			3/8in				PDF



Drive Couplings

SJC Series Jaw/Spider Clamp- Style Coupling

SJC Series Coupling Jaws												
Part Number	Price	Size	Bore, B1 or B2	Max RPM	Clamp - Screw		Drawing Links					
					Type	Fastening Torque (N-m)						
SJC-25C-5	\$12.50	25	5mm	13,000	SHCS M3-0.5 × 10mm	1.7	PDF					
SJC-25C-6			6mm				PDF					
SJC-25C-6.35			1/4in				PDF					
SJC-25C-8			8mm				PDF					
SJC-25C-10			10mm				PDF					
SJC-25C-14			14mm				PDF					
SJCA-30C-5	\$13.50	30	5mm	10,000	SHCS M4-0.7 × 12mm	3.5	PDF					
SJCA-30C-6			6mm				PDF					
SJCA-30C-6.35			1/4in				PDF					
SJCA-30C-8			8mm				PDF					
SJCA-30C-10			10mm				PDF					
SJCA-30C-12			12mm				PDF					
SJCA-30C-14			14mm				PDF					
SJCA-30C-7.93			5/16in				PDF					
SJCA-30C-9.525			3/8in				PDF					
SJCA-30C-12.7			1/2in				PDF					
SJCA-30C-15.875			5/8in				PDF					
SJCB-40C-8			\$18.50				40	8mm	8,500	SHCS M5-0.8 × 16mm	8.0	PDF
SJCB-40C-10								10mm				PDF
SJCB-40C-12								12mm				PDF
SJCB-40C-14	14mm	PDF										
SJCB-40C-16	16mm	PDF										
SJCB-40C-19	19mm	PDF										
SJCB-40C-22	22mm	PDF										
SJCB-40C-9.525	3/8in	PDF										
SJCB-40C-12.7	1/2in	PDF										
SJCB-40C-15.875	5/8in	PDF										
SJC-55C-16	\$29.00	55		16mm	6,500	SHCS M6-1.0 × 20mm		13.0				PDF
SJC-55C-19				19mm								PDF
SJC-55C-22				22mm								PDF
SJC-55C-24				24mm								PDF
SJC-55C-25			25mm	PDF								
SJC-55C-30			30mm	PDF								
SJC-55C-15.875			5/8in	PDF								
SJC-55C-19.05			3/4in	PDF								
SJC-55C-22.225			7/8in	PDF								
SJC-55C-25.4			1in	PDF								



Drive Couplings

SJC Series Jaw/Spider Clamp- Style Coupling

SJC Series Coupling Jaws							
Part Number	Price	Size	Bore, B1 or B2	Max RPM	Clamp - Screw		Drawing Links
					Type	Fastening Torque (N·m)	
SJC-65C-19	\$43.50	65	19mm	5,500	SHCS M8-1.25 ×30mm	30.0	PDF
SJC-65C-20			20mm				PDF
SJC-65C-25			25mm				PDF
SJC-65C-30			30mm				PDF
SJC-65C-32			32mm				PDF
SJC-65C-35			35mm				PDF
SJC-65C-19.05			3/4in				PDF
SJC-65C-22.225			7/8in				PDF
SJC-65C-25.4			1in				PDF
SJC-80C-32	\$71.00	80	32mm	4,500	SHCS M10-1.5 × 30mm	50.0	PDF
SJC-80C-35			35mm				PDF
SJC-80C-40			40mm				PDF
SJC-80C-42			42mm				PDF
SJC-80C-28.575			1-1/8in				PDF
SJC-80C-31.75			1-1/4in				PDF
SJC-100C-30	\$104.00	100	30mm	3,500	SHCS M12-1.75 × 40mm	90.0	PDF
SJC-100C-32			32mm				PDF
SJC-100C-35			35mm				PDF
SJC-100C-40			40mm				PDF
SJC-100C-45			45mm				PDF
SJC-100C-50			50mm				PDF
SJC-100C-55			55mm				PDF
SJC-100C-60			60mm				PDF

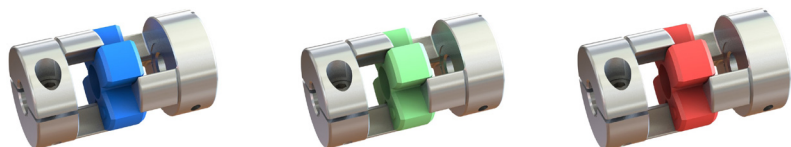


Drive Couplings

SJC Series Jaw/Spider Clamp- Style Coupling

Select the performance characteristics by selecting a SJC Spider.

Simply changing the Spider material type will provide different performance ratings, even after in-use testing, without needing to change the Jaws.



Spider Material			
Sleeve	Material	Color	Rated Temperature Range
SJC-xx-BL-SLEEVE	TPU	Blue	-20°C to 70°C
SJC-xx-GR-SLEEVE	Hytrel®	Green	-20°C to 120°C
SJC-xx-RD-SLEEVE	Hytrel®	Red	

TPU = Thermoplastic Polyurethane
Hytrel® = DuPont Product

SJC Series Coupling Spiders										
Part Number	Price	Size	Material	Durometer	Torque (Nm)		Torsional Stiffness (N·m/rad)	Max Misalignment		
					*Rated	*Max.		Parallel (mm)	Axial (mm)	Angular
SJC-14-BL-SLEEVE	\$5.25	14	TPU	98A	2 N·m	4.0	22	0.050	-0.2 ~ +0.6	
SJC-14-GR-SLEEVE			Hytrel	98A	2 N·m	4.0	25			
SJC-14-RD-SLEEVE			Hytrel	63D	2.5 N·m	5.0	34			
SJC-20-BL-SLEEVE	\$6.25	20	TPU	98A	4 N·m	8.0	50	0.070	-0.3 ~ +0.8	
SJC-20-GR-SLEEVE			Hytrel	98A	4 N·m	8.0	60			
SJC-20-RD-SLEEVE			Hytrel	63D	6 N·m	12.0	74			
SJC-25-BL-SLEEVE	\$6.25	25	TPU	98A	9 N·m	18.0	220	0.070	-0.4 ~ +1.0	
SJC-25-GR-SLEEVE			Hytrel	98A	9 N·m	18.0	260			
SJC-25-RD-SLEEVE			Hytrel	63D	12 N·m	24.0	300			
SJC-30-BL-SLEEVE	\$6.25	30	TPU	98A	12 N·m	24.0	170	0.080	-0.4 ~ +1.0	
SJC-30-GR-SLEEVE			Hytrel	98A	12 N·m	24.0	200			
SJC-30-RD-SLEEVE			Hytrel	63D	16 N·m	32.0	220			
SJC-40-BL-SLEEVE	\$8.25	40	TPU	98A	17 N·m	34.0	1,500	0.060	-0.5 ~ +1.2	1.0°
SJC-40-GR-SLEEVE			Hytrel	98A	17 N·m	34.0	1,600			
SJC-40-RD-SLEEVE			Hytrel	63D	21 N·m	42.0	1,750			
SJC-55-BL-SLEEVE	\$9.25	55	TPU	98A	60 N·m	120.0	3,000	0.090	-0.5 ~ +1.4	
SJC-55-GR-SLEEVE			Hytrel	98A	60 N·m	120.0	4,500			
SJC-55-RD-SLEEVE			Hytrel	63D	75 N·m	150.0	6,000			
SJC-65-BL-SLEEVE	\$12.50	65	TPU	98A	150 N·m	300.0	6,500	0.100	-0.6 ~ +1.5	
SJC-65-GR-SLEEVE			Hytrel	98A	150 N·m	300.0	8,500			
SJC-65-RD-SLEEVE			Hytrel	63D	180 N·m	360.0	10,000			
SJC-80-BL-SLEEVE	\$18.50	80	TPU	98A	300 N·m	600.0	8,000	0.100	-0.6 ~ +1.5	
SJC-80-GR-SLEEVE			Hytrel	98A	300 N·m	600.0	12,000			
SJC-80-RD-SLEEVE			Hytrel	63D	380 N·m	760.0	14,000			
SJC-100-BL-SLEEVE	\$18.50	100	TPU	98A	500 N·m	1000.0	24,000	0.150	-0.6 ~ +2.0	
SJC-100-GR-SLEEVE			Hytrel	98A	500 N·m	1000.0	30,000			
SJC-100-RD-SLEEVE			Hytrel	63D	600 N·m	1200.0	40,000			

*Rated & Max Torques values are based on complete SJC assembly with maximum Bore sizes and Temperature Correction Factor (TF) =1



Drive Couplings

SJC Series Jaw/Spider Clamp- Style Coupling

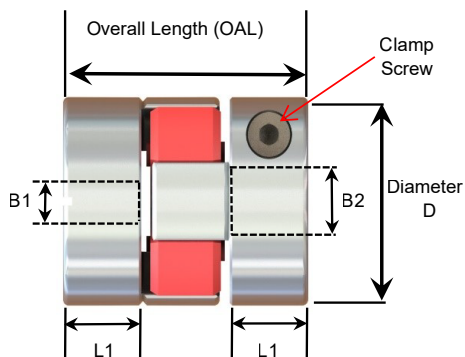
Temperature Correction Factor (TF)

The Rated and Max Torque values are affected by Temperature due to the polymers used in the Spider. Use the Temperature Correction Factor (TF) to determine the Actual Rated and Max Torques in expected operating conditions.

Actual Spider Rated Torque= Spider Rated Torque x TF

Actual Spider Max Torque= Spider Maximum Torque x TF

Temperature Correction Factor	
Operating Temperature	TF
-20°C to 30°C	1.00
30°C to 40°C	0.80
40°C to 60°C	0.70
60°C to 120°C	0.55



** SJC Series Dimensions and Mass					
Series Size	Diameter D, (mm)	Overall Length OAL, (mm)	***Shaft Mount, L1 (mm)	*Mass (g)	*Moment of Inertia (kg-m2)
14	14	22	7	6	1.60E-07
20	20	30	10	19	1.10E-06
25	25	31.3	10	25	2.40E-06
30	30	35.3	11.3	50	6.20E-06
40	40	66	25	160	3.90E-05
55	55	78.3	30.3	330	1.60E-04
65	65	90.3	35.3	560	3.80E-04
80	80	114.2	45.2	1,050	1.00E-03
100	104	140.2	56.2	2,550	4.60E-03

* Mass & Moment of inertia based on complete assembly with max bore B1 & B2.

** B1 & B2 are the Bore sizes for the selected SJC Jaw.

***L1 is the mounting distance from the shaft END.



Drive Couplings

SOH Series Oldham Clamp-Style Coupling



Features

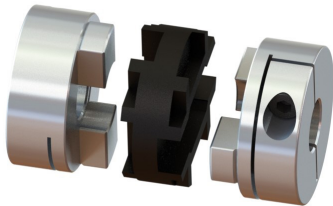
- Clamp Style Hub
- High Parallel misalignment range
- Zero Backlash
- Wide bore selection
- Wide Torque Range
- Electrical Isolation
- Hub material: High Strength Aluminum Alloy
- Disc material: POM (Polyacetal)
- Wide operating temperature range (-20°C to 80°C)

Applications

- General Applications
- Applications with high axial misalignment

To create a coupling to meet your specific needs:

- Select 2 Hubs with desired Bores, of the same SOH Size
- Select 1 Disc, of the same SOH Size
- Verify Actual Torque ratings based on Temperature Correction Factor (TF)
- Coupling assemblies are designed for a press fit to achieve zero backlash. An auger press is recommended for assembly.



SOH Series Coupling Hubs							
Part Number*	Price	Size	Bore, B1 or B2	Max RPM	Clamp Screw		Drawing Links
					Type	Fastening Torque(N·m)	
SOH-16C-4	\$10.50	16	4mm	13,000	SHCS M2.6-0.45 x 8mm	1.0	PDF
SOH-16C-4.76			3/16in				PDF
SOH-16C-5			5mm				PDF
SOH-16C-6			6mm				PDF
SOH-20C-5	\$11.50	20	5mm	11,000	SHCS M2.6-0.45 x 10mm	1.0	PDF
SOH-20C-6			6mm				PDF
SOH-20C-6.35			1/4in				PDF
SOH-20C-7.93			5/16in				PDF
SOH-20C-8			8mm				PDF
SOH-20C-9.525			3/8in				PDF
SOH-20C-10	10mm	PDF					



Drive Couplings

SOH Series Oldham Clamp-Style Coupling

SOH Series Coupling Hubs							
Part Number*	Price	Size	Bore, B1 or B2	Max RPM	Clamp Screw		Drawing Links
					Type	Fastening Torque(N·m)	
SOH-25C-6	\$12.50	25	6mm	10,000	SHCS M3-0.5 x 10mm	1.7	PDF
SOH-25C-6.35			1/4in				PDF
SOH-25C-8			8mm				PDF
SOH-25C-9.525			3/8in				PDF
SOH-25C-10			10mm				PDF
SOH-25C-12			12mm				PDF
SOH-32C-8	\$15.50	32	8mm	9,000	SHCS M4-0.7 x 12mm	3.5	PDF
SOH-32C-9.525			3/8in				PDF
SOH-32C-10			10mm				PDF
SOH-32C-12			12mm				PDF
SOH-32C-14			14mm				PDF
SOH-32C-12.7			1/2in				PDF
SOH-43C-12	\$25.00	43	12mm	8,000	SHCS M5-0.8 x 16mm	8.0	PDF
SOH-43C-12.7			1/2in				PDF
SOH-43C-14			14mm				PDF
SOH-43C-15.875			5/8in				PDF
SOH-43C-16			16mm				PDF
SOH-43C-19			19mm				PDF
SOH-57C-15.875	\$41.50	57	5/8in	6,000	SHCS M6-1.0 x 20mm	13.0	PDF
SOH-57C-16			16mm				PDF
SOH-57C-19			19mm				PDF
SOH-57C-19.05			3/4in				PDF
SOH-57C-22			22mm				PDF
SOH-57C-22.225			7/8in				PDF
SOH-57C-24	24mm	PDF					
SOHM-70C-19.05	\$52.00	70	3/4in	4,500	SHCS M8-1.25 x 30mm	30.0	PDF
SOHM-70C-20			20mm				PDF
SOHM-70C-22.225			7/8in				PDF
SOHM-70C-25			25mm				PDF
SOHM-70C-25.4			1in				PDF
SOHM-70C-28.575			1-1/8in				PDF
SOHM-70C-30			30mm				PDF
SOHM-70C-31.75			1-1/4in				PDF
SOHM-70C-35			35mm				PDF



Drive Couplings

SOH Series Oldham Clamp-Style Coupling



SOH Series Coupling DISC										
Part Number*	Price	Size	Material	Torque (Nm)		Torsional Stiffness (N-m/rad)	Max Misalignment			Drawing Links
				*Rated	*Max		Parallel (mm)	Axial (mm)	Angular	
SOH-16-DISC	\$3.00	16	Polyacetal (black)	1	2	65	1	0.10	1.5 degrees	PDF
SOH-20-DISC	\$3.75	20		1.5	3	120	1.5			
SOH-25-DISC		25		2.5	5	200	2			
SOH-32-DISC		32		7	14	620	2.5			
SOH-43-DISC	\$7.25	43		12.5	25	1,200	3	0.15		PDF
SOH-57-DISC		57		34	68	2,600	3.5			0.20
SOH-70-DISC		\$17.50		70	60	120	5,000			

*Rated & Max Torques values are based on complete SOH assembly with maximum Bore sizes and Temperature Correction Factor (TF) =1

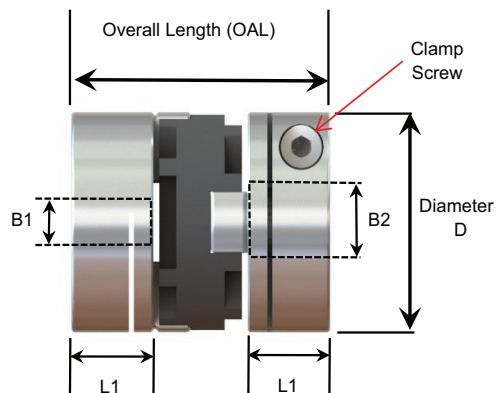
Temperature Correction Factor (TF)

The Rated and Max Torque values are affected by Temperature due to the polymer used in the Disc. Use the Temperature Correction Factor (TF) to determine the Actual Rated and Max Torques in expected operating conditions.

Temperature Correction Factor	
Operating Temperature	TF
-20°C to 30°C	1.00
30°C to 40°C	0.80
40°C to 60°C	0.70
60°C to 120°C	0.55

Actual Disc Rated Torque= Disc Rated Torque x TF

Actual Disc Max Torque= Disc Maximum Torque x TF



**SOH Series Dimensions and Mass					
Series Size	Diameter, D (mm)	Overall Length, OAL (mm)	***Shaft Mount, L1(mm)	*Mass (g)	*Moment of Inertia (kg-m2)
16	16	23.9	7.7	8.5	3.10E-07
20	20	25.7	8	14.2	8.20E-07
25	25.5	32	10.2	29.3	2.70E-06
32	32	44.7	14.4	59.6	9.20E-06
43	43	52	16.5	127	3.40E-05
57	57	76.2	26.9	329	1.60E-04
70	73	75.5	25	547	4.50E-04

* Mass & Moment of inertia based on complete assembly with max bore B1 & B2.

** B1 & B2 are the Bore sizes for the selected SOH Jaw.

***L1 is the mounting distance from the shaft END.



Drive Couplings

SRB Series Radial Beam Clamp-Style Coupling



Features

- Zero backlash
- Clamp Style Hub
- Wide bore selection
- Wide Torque Range
- Cost effective
- Material of Construction: 7075-T6 aluminum alloy
- Wide operating temperature range (-30°C to 100°C)
- No Temperature Correction Factor required

Applications

- Servo, stepping, and encoder Applications
- High Speed Applications

To create a coupling to meet your specific needs:

- Select Radial Beam Coupling with desired Bore sizes, B1 and B2

SRB Series Radial Beam Coupling														
Part Number	Price	Size	Bore, B1 x B2	Max RPM	Torque (N·m)		Torsional Stiffness (N·m/rad)	Max Misalignment			Drawing Links			
					*Rated	*Max		Parallel (mm)	Axial (mm)	Angular				
SRB-16C-4-4	\$25.00	16	4 x 4mm	27,000	0.4 N·m	0.8	75	± 0.3	0.150	2.5°	PDF			
SRB-16C-4-5			4 x 5mm								PDF			
SRB-16C-4-6			4 x 6mm								PDF			
SRB-16C-5-5			5 x 5mm								PDF			
SRB-16C-5-6			5 x 6mm								PDF			
SRB-16C-6-6			6 x 6mm								PDF			
SRB-19C-5-5		19	20,000	5 x 5mm	0.6 N·m	1.2	150				± 0.4	0.150	2.5°	PDF
SRB-19C-5-6				5 x 6mm										PDF
SRB-19C-5-6.35				5 x 6.35mm (1/4in)										PDF
SRB-19C-5-8				5 x 8mm										PDF
SRB-19C-6-6				6 x 6mm										PDF
SRB-19C-6-6.35				6 x 6.35mm (1/4in)										PDF
SRB-19C-6-8				6 x 8mm										PDF
SRB-19C-6.35-6.35				6.35 (1/4in) x 6.35mm (1/4in)										PDF
SRB-19C-6.35-8		6.35 (1/4in) x 8mm	PDF											
SRB-19C-8-8		8 x 8mm	PDF											
SRB-22C-5-5	\$27.00	22	5 x 5mm	18,000	1 N·m	2.0	200	± 0.4	0.150	2.5°	PDF			
SRB-22C-5-6			5 x 6mm								PDF			
SRB-22C-5-6.35			5 x 6.35mm (1/4in)								PDF			
SRB-22C-5-8			5 x 8mm								PDF			
SRB-22C-5-9.525			5 x 9.525mm (3/8in)								PDF			
SRB-22C-5-10			5 x 10mm								PDF			
SRB-22C-6-6			6 x 6mm								PDF			
SRB-22C-6-6.35			6 x 6.35mm (1/4in)								PDF			
SRB-22C-6-8			6 x 8mm								PDF			

*Rated & Max Torque based on maximum Bore sizes B1 & B2.



Drive Couplings

SRB Series Radial Beam Clamp-Style Coupling

SRB Series Radial Beam Coupling											
Part Number	Price	Size	Bore, B1 x B2	Max RPM	Torque (N·m)		Torsional Stiffness (N·m/rad)	Max Misalignment			Drawing Links
					*Rated	*Max		Parallel (mm)	Axial (mm)	Angular	
SRB-22C-6-9.525	\$27.00	22	6 x 9.525mm (3/8in)	18,000	1 N·m	2.0	200	0.150			PDF
SRB-22C-6-10			6 x 10mm								PDF
SRB-22C-6.35-6.35			6.35 (1/4in) x 6.35mm (1/4in)								PDF
SRB-22C-6.35-8			6.35 (1/4in) x 8mm								PDF
SRB-22C-6.35-9.525			6.35 (1/4in) x 9.525mm (3/8in)								PDF
SRB-22C-6.35-10			6.35 (1/4in) x 10mm								PDF
SRB-22C-8-8			8 x 8mm								PDF
SRB-22C-8-9.525			8 x 9.525mm (3/8in)								PDF
SRB-22C-8-10			8 x 10mm								PDF
SRB-22C-9.525-9.525			9.525 (3/8in) x 9.525mm (3/8in)								PDF
SRB-22C-9.525-10			9.525 (3/8in) x 10mm								PDF
SRB-22C-10-10			10 x 10mm								PDF
SRB-26C-6-6			\$32.00								26
SRB-26C-6-6.35	6 x 6.35mm (1/4in)	PDF									
SRB-26C-6-8	6 x 8mm	PDF									
SRB-26C-6-9.525	6 x 9.525mm (3/8in)	PDF									
SRB-26C-6-10	6 x 10mm	PDF									
SRB-26C-6-12	6 x 12mm	PDF									
SRB-26C-6.35-6.35	6.35 (1/4in) x 6.35mm (1/4in)	PDF									
SRB-26C-6.35-8	6.35 (1/4in) x 8mm	PDF									
SRB-26C-6.35-9.525	6.35 (1/4in) x 9.525mm (3/8in)	PDF									
SRB-26C-6.35-10	6.35 (1/4in) x 10mm	PDF									
SRB-26C-6.35-12	6.35 (1/4in) x 12mm	PDF									
SRB-26C-8-8	8 x 8mm	PDF									
SRB-26C-8-9.525	8 x 9.525mm (3/8in)	PDF									
SRB-26C-8-10	8 x 10mm	PDF									
SRB-26C-8-12	8 x 12mm	PDF									
SRB-26C-9.525-9.525	9.525 (3/8in) x 9.525mm (3/8in)	PDF									
SRB-26C-9.525-10	9.525 (3/8in) x 10mm	PDF									
SRB-26C-9.525-12	9.525 (3/8in) x 12mm	PDF									
SRB-26C-10-10	10 x 10mm	PDF									
SRB-26C-10-12	10 x 12mm	PDF									
SRB-26C-12-12	12 x 12mm	PDF									

*Rated & Max Torque based on maximum Bore sizes B1 & B2.



Drive Couplings

SRB Series Radial Beam Clamp-Style Coupling

SRB Series Radial Beam Coupling											
Part Number	Price	Size	Bore, B1 x B2	Max RPM	Torque (N·m)		Torsional Stiffness (N·m/rad)	Max Misalignment			Drawing Links
					*Rated	*Max		Parallel (mm)	Axial (mm)	Angular	
SRBA-32C-8-8	\$38.50	32	8 x 8mm	14,000	3.8 N·m	7.6	450	0.200	± 0.4	2.5°	PDF
SRBA-32C-8-9.525			8 x 9.525mm (3/8in)								PDF
SRBA-32C-8-10			8 x 10mm								PDF
SRBA-32C-8-12			8 x 12mm								PDF
SRBA-32C-8-14			8 x 14mm								PDF
SRBA-32C-9.525-9.525			9.525 (3/8in) x 9.525mm (3/8in)								PDF
SRBA-32C-9.525-10			9.525 (3/8in) x 10mm								PDF
SRBA-32C-9.525-12			9.525 (3/8in) x 12mm								PDF
SRBA-32C-9.525-14			9.525 (3/8in) x 14mm								PDF
SRBA-32C-10-10			10 x 10mm								PDF
SRBA-32C-10-12			10 x 12mm								PDF
SRBA-32C-10-14			10 x 14mm								PDF
SRBA-39C-10-10			\$68.00								39
SRBA-39C-10-12	10 x 12mm	PDF									
SRBA-39C-10-14	10 x 14mm	PDF									
SRBA-39C-10-16	10 x 16mm	PDF									
SRBA-39C-10-18	10 x 18mm	PDF									
SRBA-39C-10-19	10 x 19mm	PDF									

**Rated & Max Torque based on maximum Bore sizes B1 & B2.



Drive Couplings

SRB Series Radial Beam Clamp-Style Coupling

SRB Series Radial Beam Coupling											
Part Number	Price	Size	Bore, B1 x B2	Max RPM	Torque (N·m)		Torsional Stiffness (N·m/rad)	Max Misalignment			Drawing Links
					*Rated	*Max		Parallel (mm)	Axial (mm)	Angular	
SRBA-39C-12-12	\$68.00	39	12 x 12mm	10,000	7 N·m	14.0	640	0.250	± 0.4	2.5°	PDF
SRBA-39C-12-14			12 x 14mm								PDF
SRBA-39C-12-16			12 x 16mm								PDF
SRBA-39C-12-18			12 x 18mm								PDF
SRBA-39C-12-19			12 x 19mm								PDF
SRBA-39C-14-14			14 x 14mm								PDF
SRBA-39C-14-16			14 x 16mm								PDF
SRBA-39C-14-18			14 x 18mm								PDF
SRBA-39C-14-19			14 x 19mm								PDF
SRBA-39C-16-16			16 x 16mm								PDF
SRBA-39C-16-18			16 x 18mm								PDF
SRBA-39C-16-19			16 x 19mm								PDF
SRBA-39C-18-18			18 x 18mm								PDF
SRBA-39C-18-19			18 x 19mm								PDF
SRBA-39C-19-19			19 x 19mm								PDF
SRBA-49C-12-12			\$113.00								49
SRBA-49C-12-14	12 x 14mm	PDF									
SRBA-49C-12-16	12 x 16mm	PDF									
SRBA-49C-12-18	12 x 18mm	PDF									
SRBA-49C-12-19	12 x 19mm	PDF									
SRBA-49C-12-20	12 x 20mm	PDF									
SRBA-49C-14-14	14 x 14mm	PDF									
SRBA-49C-14-16	14 x 16mm	PDF									
SRBA-49C-14-18	14 x 18mm	PDF									
SRBA-49C-14-19	14 x 19mm	PDF									
SRBA-49C-14-20	14 x 20mm	PDF									
SRBA-49C-16-16	16 x 16mm	PDF									
SRBA-49C-16-18	16 x 18mm	PDF									
SRBA-49C-16-19	16 x 19mm	PDF									
SRBA-49C-16-20	16 x 20mm	PDF									
SRBA-49C-18-18	18 x 18mm	PDF									
SRBA-49C-18-19	18 x 19mm	PDF									
SRBA-49C-18-20	18 x 20mm	PDF									
SRBA-49C-19-19	19 x 19mm	PDF									
SRBA-49C-19-20	19 x 20mm	PDF									
SRBA-49C-20-20	20 x 20mm	PDF									

*Rated & Max Torque based on maximum Bore sizes B1 & B2.



Drive Couplings

SRB Series Radial Beam Clamp-Style Coupling

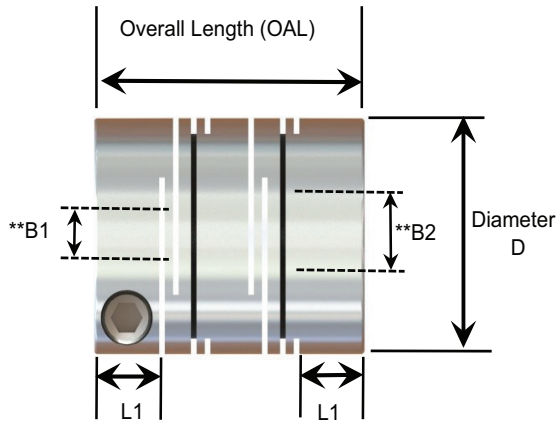
SRB Series Radial Beam Coupling											
Part Number	Price	Size	Bore, B1 x B2	Max RPM	Torque (N-m)		Torsional Stiffness (N-m/rad)	Max Misalignment			Drawing Links
					*Rated	*Max		Parallel (mm)	Axial (mm)	Angular	
SRBA-60C-16-16	\$135.00	60	16 x 16mm	7,000	30 N-m	60.0	2500	0.250	±0.5	2.5°	PDF
SRBA-60C-16-18			16 x 18mm								PDF
SRBA-60C-16-19			16 x 19mm								PDF
SRBA-60C-16-20			16 x 20mm								PDF
SRBA-60C-16-22			16 x 22mm								PDF
SRBA-60C-16-24			16 x 24mm								PDF
SRBA-60C-18-18			18 x 18mm								PDF
SRBA-60C-18-19			18 x 19mm								PDF
SRBA-60C-18-20			18 x 20mm								PDF
SRBA-60C-18-22			18 x 22mm								PDF
SRBA-60C-18-24			18 x 24mm								PDF
SRBA-60C-19-19			19 x 19mm								PDF
SRBA-60C-19-20			19 x 20mm								PDF
SRBA-60C-19-22			19 x 22mm								PDF
SRBA-60C-19-24			19 x 24mm								PDF
SRBA-60C-20-20			20 x 20mm								PDF
SRBA-60C-20-22			20 x 22mm								PDF
SRBA-60C-20-24			20 x 24mm								PDF
SRBA-60C-22-22			22 x 22mm								PDF
SRBA-60C-22-24			22 x 24mm								PDF
SRBA-60C-24-24			24 x 24mm								PDF

*Rated & Max Torque based on maximum Bore sizes B1 & B2.



Drive Couplings

SRB Series Radial Beam Clamp-Style Coupling



SRB Series Dimensions and Mass

Size	Diameter, D (mm)	Overall Length OAL, (mm)	***L1 (mm)	*Mass (g)	*Moment of Inertia (kg-m ²)	Clamp Screw	
						Type	Fastening Torque (N-m)
16	16	21.5	6.1	8.2	3.10E-07	SHCS M2.6-0.45 x 8mm	1.0
19	19.1	23	6.2	12	6.40E-07		
22	22.2	26.5	7.2	17.9	1.40E-06	SHCS M3-0.5 x 10mm	1.7
26	26.2	31.5	7.5	29.9	3.20E-06		
32	31.8	39	9.4	54.9	8.60E-06	SHCS M4-0.7 x 12mm	3.5
39	39	43	10.7	87.8	2.10E-05	SHCS M5-0.8 x 16mm	8.0
49	49	63.5	15.1	236	8.40E-05	SHCS M6-1.0 x 20mm	13.0
60	60	76.2	19	407	2.20E-04	SHCS M8-1.25 x 25mm	30.0

* Mass & Moment of inertia based on complete assembly with max bore B1 & B2.

**B1 & B2 are the Bore sizes for the selected SRB Coupling.

***L1 is the mounting distance from the shaft END.



Drive Couplings

SHR Series High Gain Clamp-Style Coupling

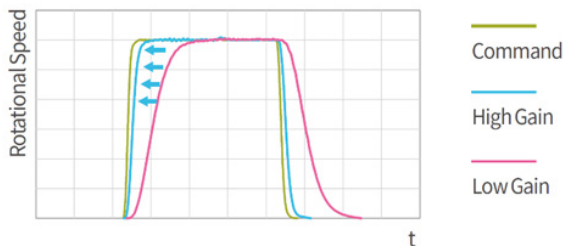


Features

- Clamp Style Hub
- Increased Control Gain (High Gain)
- Vibration Absorption
- Backlash Free
- Wide bore selection
- Wide Torque Range
- High durability
- Electrical Isolation
- Hub material: High Strength Aluminum Alloy
- Core material: HNBR (Hydrogenated acrylonitrile butadiene rubber)
- Wide operating temperature range (-20°C to 80°C)

Applications

- Servo and Stepper
- High speed positioning applications
- High precision applications
- Ideal for use with SureServo2 motors with high frequency response



To create a coupling to meet your specific needs:

- Select High Gain Coupling with desired Bore sizes, B1 and B2
- Verify Actual Torque ratings based on Temperature Correction Factor (TF).

SHR Series High Gain Coupling											
Part Number	Price	Size	Bore, B1 x B2	Max Rpm	Torque (N·m)		Torsional Stiffness (N·m/rad)	Max Misalignment			Drawing Links
					*Rated	*Max		Parallel (mm)	Axial (mm)	Angular	
SHR-18C-4-8	\$44.50	18	4 x 8mm	33,000	1.9 N·m	3.8	84	0.150	± 0.2	1.5°	PDF
SHR-18C-5-8			5 x 8mm								PDF
SHR-18C-6-8			6 x 8mm								PDF
SHR-18C-6.35-8			6.35 (1/4in) x 8mm								PDF
SHR-18C-8-8			8 x 8mm								PDF
SHR-24C-8-8	\$47.00	24	8 x 8mm	25,000	3.5 N·m	7.0	132	0.150	± 0.2	1.5°	PDF
SHR-24C-8-10			8 x 10mm								PDF
SHR-24C-8-12			8 x 12mm								PDF
SHR-29C-8-8	\$51.00	29	8 x 8mm	21,000	5.7 N·m	11.4	209	0.200	± 0.3	1.5°	PDF
SHR-29C-8-10			8 x 10mm								PDF
SHR-29C-8-12			8 x 12mm								PDF
SHR-29C-8-14			8 x 14mm								PDF
SHR-29C-10-14			10 x 14mm								PDF
SHR-29C-12-14			12 x 14mm								PDF
SHR-29C-14-14	14 x 14mm	PDF									

*Rated & Max Torques values are based on maximum Bore sizes B1 & B2 and Temperature Correction Factor (TF) =1



Drive Couplings

SHR High Gain Clamp-Style Coupling

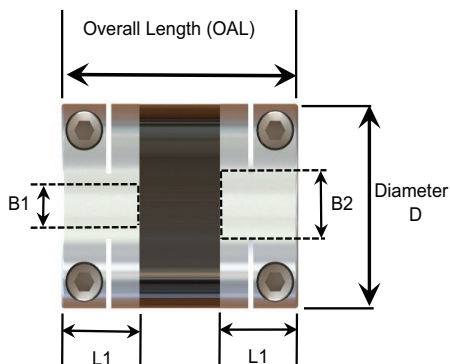
SHR Series High Gain Coupling											
Part Number	Price	Size	Bore, B1 x B2	Max Rpm	Torque (N·m)		Torsional Stiffness (N·m/rad)	Max Misalignment			Drawing Links
					*Rated	*Max		Parallel (mm)	Axial (mm)	Angular	
SHR-38C-14-14	\$60.00	38	14 x 14mm	16,000	12 N·m	24.0	479	0.200			PDF
SHR-38C-14-16			14 x 16mm								PDF
SHR-38C-14-18			14 x 18mm								PDF
SHR-38C-14-19			14 x 19mm								PDF
SHR-38C-14-20			14 x 20mm								PDF
SHR-38C-19-19			19 x 19mm								PDF
SHR-38C-19-20			19 x 20mm								PDF
SHR-43C-14-14	\$68.00	43	14 x 14mm	14,000	16 N·m	32.0	610	0.200			PDF
SHR-43C-14-16			14 x 16mm								PDF
SHR-43C-14-18			14 x 18mm								PDF
SHR-43C-14-19			14 x 19mm								PDF
SHR-43C-14-20			14 x 20mm								PDF
SHR-43C-14-22			14 x 22mm								PDF
SHR-43C-19-19			19 x 19mm								PDF
SHR-43C-19-20			19 x 20mm								PDF
SHR-43C-19-22			19 x 22mm								PDF
SHR-43C-22-22	22 x 22mm	PDF									
SHR-55C-14-14	\$88.00	55	14 x 14mm	11,000	31.5 N·m	63.0	1430	0.200	± 0.3	1.5°	PDF
SHR-55C-14-16			14 x 16mm								PDF
SHR-55C-14-18			14 x 18mm								PDF
SHR-55C-14-19			14 x 19mm								PDF
SHR-55C-14-20			14 x 20mm								PDF
SHR-55C-14-22			14 x 22mm								PDF
SHR-55C-14-24			14 x 24mm								PDF
SHR-55C-14-25			14 x 25mm								PDF
SHR-55C-19-19			19 x 19mm								PDF
SHR-55C-19-20			19 x 20mm								PDF
SHR-55C-19-22			19 x 22mm								PDF
SHR-55C-19-24			19 x 24mm								PDF
SHR-55C-19-25			19 x 25mm								PDF
SHR-55C-22-22			22 x 22mm								PDF
SHR-55C-22-24			22 x 24mm								PDF
SHR-55C-22-25			22 x 25mm								PDF
SHR-55C-24-24			24 x 24mm								PDF
SHR-55C-24-25	24 x 25mm	PDF									
SHR-55C-25-25	25 x 25mm	PDF									

*Rated & Max Torques values are based on maximum Bore sizes B1 & B2 and Temperature Correction Factor (TF) =1



Drive Couplings

SHR Series High Gain Clamp-Style Coupling



**SHR Series Dimensions and Mass							
Size	Diameter, D (mm)	Overall Length, OAL (mm)	***Shaft Mount, L1 (mm)	*Mass (g)	*Moment of Inertia (kg-m ²)	Clamp Screw	
						Type	Fastening Torque (N-m)
18	17.8	25.5	8	11	4.90E-07	SHCS M2-0.4 x 6mm	0.6
24	23.8	31.2	9.6	22	1.90E-06	SHCS M2.6-0.45 x 8mm	1.1
29	28.8	35	11	34	4.40E-06	SHCS M3-0.5 x 10mm	1.8
38	37.8	47	15.5	78	1.80E-05	SHCS M4-0.7 x 14mm	3.7
43	42.8	48	15.5	115	3.20E-05	SHCS M4-0.7 x 14mm	3.7
55	54.8	59	19.5	250	1.10E-04	SHCS M5-0.8 x 20mm	8.5

* Mass & Moment of inertia based on complete assembly with max bore B1 & B2.

**B1 & B2 are the Bore sizes for the selected SHR Coupling.

***L1 is the mounting distance from the shaft END.

Temperature Correction Factor (TF)

The Rated and Max Torque values are affected by Temperature due to the polymer of the Core. Use the Temperature Correction Factor (TF) to determine the Actual Rated and Max Torques in expected operating conditions.

Actual Rated Torque= Rated Torque x TF

Actual Max Torque= Maximum Torque x TF

Temperature Correction Factor	
Operating Temperature	TF
-20°C to 30°C	1.00
30°C to 40°C	0.80
40°C to 60°C	0.70
60°C to 120°C	0.55



Drive Couplings

Drive Couplings Overview

Rotating shaft-driven mechanical components are commonly used in all forms of machinery that perform the various processes and functions of modern industry. Perfect alignment of shafts and rotating components is desired, but it is nearly impossible to build a real-world machine in which adjacent shaft ends align perfectly.

Adjacent shafts can be misaligned in 3 orientations, angular, parallel and axial, see figure below. Misalignment will place stresses on shafts and related parts of the assembly such as bearings, which can result in early failure of both.

Drive couplings can be used to compensate for shaft misalignment, whether the misalignment is an intentional or an unintentional part of the design. When designing or modifying a system, there are essential factors to consider for choosing the correct couplings for the application.

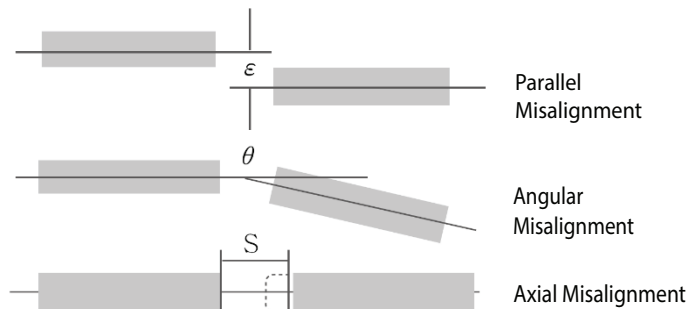
Design/Selection Factors:

(Refer to the specification tables herein for the particular specifications of each type of drive coupling.)

- **RPM:** For higher rpm applications, choose Jaw/Spider or Beam-Style Servo couplings. For lower rpm, consider Double-Loop or Oldham couplings.
- **Torque:** Consider the torque requirements of the application, and the torque specifications of the different drive coupling types. peak torque generally occurs at start-up, operating torque at steady-state operation, and reversing or braking torque during rapid acceleration or deceleration or direction changes.
- **Backlash:** Backlash is a measurement of the positional accuracy of the coupling, which is important for reversing and/or motion control applications. Zero backlash is ultimately desirable, but more expensive than necessary for low-precision applications.

For high-precision applications, choose Beam-Style Servo or Oldham couplings. For applications requiring less precision, consider Jaw/Spider or Double-Loop couplings.

- **Misalignment:** Some degree of angular, axial, or radial misalignment/displacement between shafts is almost unavoidable. Drive couplings can compensate for this misalignment.



Coupling Type Comparisons				
Coupling Type	Jaw / Spider	Double Loop	Oldham	Beam-Style Servo
Representative Photo				
Purpose	most common	light duty	general purpose	high performance & torque
Hub Material	aluminum	stainless steel	aluminum	416 stainless steel
Center Material	polyurethane	Hytre TM	Delrin TM	420 stainless steel
Mounting Method	clamp	set screw	clamp	set screw
Electrical Isolation	yes	yes	yes	no
Backlash	varies	varies	zero	zero
Misalignment Capacity	++ (axial)	+++	++	+
Breakable "Mechanical Fuse"	no (fail safe)	no	yes	no
Relative Price	\$\$	\$\$	\$	\$\$\$



Drive Couplings

Jaw/Spider Clamp-Style Couplings



Features

- Most commonly specified coupling type
- Aluminum hubs available with different bore diameters in same coupling
- Polyurethane center “spiders” available in different durometers for different degrees of shock and vibration reduction
- Fail-safe operation
- Electrical isolation
- Wide torque range
- High axial misalignment range
- Cost effective
- Wide operating temperature range: -40 to 100 °C (-40 to 212 °F)

Applications

- General applications
- High-speed applications
- Applications with high axial misalignment
- Applications in which inertia is NOT a factor

Jaw / Spider Aluminum Clamp-Style Drive Coupling Hubs*															
Part Number*	Price	Size (mm)	Bore	Max RPM	Torque	Torsional Stiffness	Max Misalignment			Weight (lb)					
							Parallel (in [mm])	Axial (in [mm])	Angular						
DC-JAC14-03	\$14.00	14	3/16in	27,280	The torque and torsional stiffness of the assembly varies depending upon which center “spider” is used. Refer to the “Jaw / Spider Drive Coupling Spiders” table (page tROT-21) for torque and torsional stiffness specifications.	0.002 [0.05]	0.030 [0.76]	1.0°	0.039						
DC-JAC14-05M	\$14.00		5mm												
DC-JAC14-06M	\$14.00		6mm												
DC-JAC14-04	\$14.00		1/4in												
DC-JAC20-04	\$17.00	20	1/4in	19,040					0.008 [0.2]	0.050 [1.27]	1.2°	0.058			
DC-JAC20-05	\$17.75		5/16in												
DC-JAC30-05	\$26.00	30	5/16in	12,720								0.009 [0.23]	0.060 [1.52]	0.9°	0.070
DC-JAC30-08M	\$25.50		8mm												
DC-JAC30-06	\$26.00		3/8in												
DC-JAC30-10M	\$26.00		10mm												
DC-JAC30-12M	\$26.00		12mm												
DC-JAC30-08	\$26.00	1/2in													
DC-JAC40-08M	\$30.00	40	8mm	11,200		0.009 [0.23]	0.060 [1.52]	0.9°							0.145
DC-JAC40-06	\$30.25		3/8in												
DC-JAC40-10M	\$30.25		10mm												
DC-JAC40-12M	\$30.25		12mm												
DC-JAC40-08	\$30.50		1/2in												
DC-JAC40-14M	\$30.25		14mm												
DC-JAC40-10	\$30.25		5/8in												
DC-JAC40-16M	\$30.00		16mm												
DC-JAC40-12	\$30.50	3/4in													
DC-JAC55-10	\$35.00	55	5/8in	8,480	0.009 [0.23]				0.060 [1.52]	0.9°	0.383				
DC-JAC55-19M	\$30.50		19mm												
DC-JAC55-12	\$35.50		3/4in												
DC-JAC55-22M	\$35.00		22mm												
DC-JAC55-14	\$35.50		7/8in												
DC-JAC65-20	\$57.00	65	1-1/4in	6,800		0.009 [0.23]	0.060 [1.52]	0.9°			0.683				
DC-JAC65-32M	\$57.00		32mm												

* A complete jaw/spider coupling assembly consists of two hubs and one spider, each of the same “size” and each purchased separately. The two hubs can be of different “bore” diameters, if needed for the application.



Drive Couplings

Jaw/Spider Clamp-Style Coupling Spiders



Jaw / Spider Drive Coupling Spiders*								
Part Number*	Price	Size	Durometer	Color	Torque (lb-in [N-m])			Torsional Stiffness (lb-in/rad [Nm/rad])
					Rated	Max	Reversing**	
DC-JS14-80A	\$8.00	14	80A	blue	6 [0.7]	12 [1.4]	2 [0.2]	71 [8]
DC-JS14-92A	\$8.00		92A	white	11 [1.2]	21 [2.4]		124 [14]
DC-JS14-98A	\$8.00		98A	red	18 [2.0]	35 [4.0]		195 [22]
DC-JS20-80A	\$11.25	20	80A	blue	16 [1.8]	32 [3.6]	4 [0.5]	142 [16]
DC-JS20-92A	\$12.00		92A	white	27 [3.1]	53 [6.0]		257 [29]
DC-JS20-98A	\$11.50		98A	red	44 [5.0]	89 [10.1]		487 [55]
DC-JS30-80A	\$13.00	30	80A	blue	35 [4.0]	71 [8.0]	9 [1.0]	407 [46]
DC-JS30-92A	\$13.25		92A	white	66 [7.5]	133 [15.0]		646 [73]
DC-JS30-98A	\$13.25		98A	red	111 [12.5]	221 [25.0]		1151 [130]
DC-JS40-80A	\$14.50	40	80A	blue	43 [4.9]	86 [9.7]	11 [1.2]	3363 [380]
DC-JS40-92A	\$14.50		92A	white	88 [9.9]	177 [20.0]		5045 [570]
DC-JS40-98A	\$14.50		98A	red	150 [16.9]	300 [33.9]		10621 [1200]
DC-JS55-80A	\$16.00	55	80A	blue	151 [17.1]	301 [34.0]	39 [4.4]	12391 [1400]
DC-JS55-92A	\$16.00		92A	white	310 [35.0]	620 [70.1]		14161 [1600]
DC-JS55-98A	\$16.00		98A	red	530 [59.9]	1060 [119.8]		23012 [2600]
DC-JS65-80A	\$20.50	65	80A	blue	407 [46.0]	814 [92.0]	106 [12.0]	24782 [2800]
DC-JS65-92A	\$20.50		92A	white	840 [94.9]	1680 [189.8]		26552 [3000]
DC-JS65-98A	\$20.50		98A	red	1415 [159.9]	2830 [319.7]		43369 [4900]

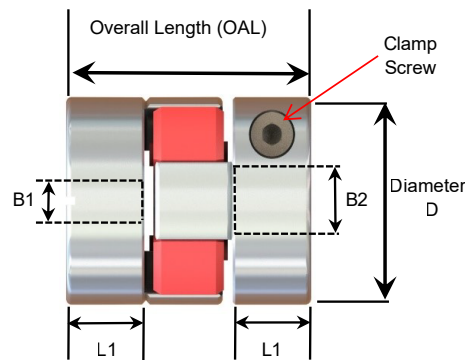
* A complete jaw/spider coupling assembly consists of two hubs and one spider, each of the same "size" and each purchased separately. The two hubs can be of different "bore" diameters, if needed for the application.

** Reversing Torque is the rapid reversal of rotation and has a lower value to account for stopping inertia and driving in the opposite rotation. For slow direction reversals, Nominal Torque applies.

Dimensions (in [mm])

Jaw / Spider Drive Coupling Hub Bore Dimensions

Hubs	Sizes	ØB
DC-JACxx-03	14	3/16 in
DC-JACxx-05M	14	5mm
DC-JACxx-06M	14	6mm
DC-JACxx-04	14, 20	1/4 in
DC-JACxx-05	20, 30	5/16 in
DC-JACxx-08M	30, 40	8mm
DC-JACxx-06	30, 40	3/8 in
DC-JACxx-10M	30, 40	10mm
DC-JACxx-12M	30, 40	12mm
DC-JACxx-08	30, 40	1/2 in
DC-JACxx-14M	40	14mm
DC-JACxx-10	40, 55	5/8 in
DC-JACxx-16M	40	16mm
DC-JACxx-12	40, 55	3/4 in
DC-JACxx-19M	55	19mm
DC-JACxx-22M	55	22mm
DC-JACxx-14	55	7/8 in
DC-JACxx-20	65	1-1/4 in
DC-JACxx-32M	65	32mm



Jaw / Spider Aluminum Clamp-Style Drive Coupling Assembly Dimensions*

Size	Components	Clamp Screw	L1	OAL	D
			in [mm]		
14	(2) DC-JAC14-xxx + (1) DC-JS14-xxx	#4-40	0.28 [7.1]	0.86 [21.8]	0.55 [14.0]
20	(2) DC-JAC20-xxx + (1) DC-JS20-xxx	#5-40	0.39 [9.9]	1.20 [30.5]	0.78 [19.8]
30	(2) DC-JAC30-xxx + (1) DC-JS30-xxx	#6-32	0.43 [10.9]	1.35 [34.3]	1.18 [30.0]
40	(2) DC-JAC40-xxx + (1) DC-JS40-xxx	#10-24	0.98 [24.9]	2.55 [64.8]	1.57 [39.9]
55	(2) DC-JAC55-xxx + (1) DC-JS55-xxx	1/4-20	1.16 [29.5]	2.97 [75.4]	2.17 [55.1]
65	(2) DC-JAC65-xxx + (1) DC-JS65-xxx	5/16-18	1.40 [35.6]	3.53 [89.7]	2.55 [64.8]

* Assembly dimensions are for any (2) hubs + (1) spider of the same "size" as assembled. B1 & B2 are the Bore sizes for the selected DC-JACxx Jaw/Hub.

See our website: www.AutomationDirect.com for complete Engineering drawings.



Drive Couplings

Double Loop Couplings

Features

- High torsional rigidity
- One-piece design
- Hubs made of series 300 stainless steel
- Double loop made of DuPont Hytrel™
- Corrosion protection
- Outstanding resistance to acids, alkalis, solvents, oils, grease, ozone
- Wide operating temperature range: -40 to 100 °C (-40 to 212 °F)
- Electrical isolation
- Damping of shock and vibration
- Speeds up to 3,000rpm

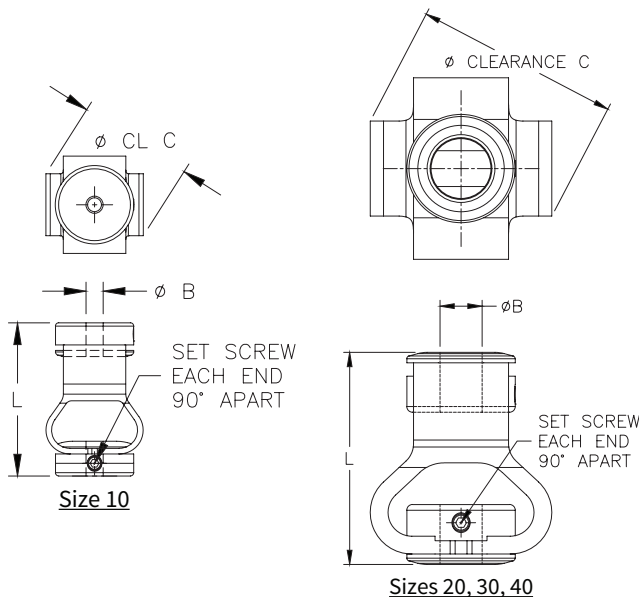
Applications

- Light-duty applications
- Medium-speed applications
- Applications in which inertia is NOT a factor



Double Loop Stainless Steel Drive Couplings									
Part Number	Price	Size	Bore	Max rpm	Max Torque @ Max Displacement ([lb-in] N-m)	Max Misalignment			Weight (lb)
						Radial ([in] mm)	Axial ([in] mm)	Angular (°)	
DC-DLSS10-02	\$44.00	10	1/8 in	3,000	[4.4] 0.5	[0.10] 2.6	[0.18] 4.5	10	0.06
DC-DLSS10-03	\$44.00		3/16 in						
DC-DLSS10-06M	\$44.00		6mm						
DC-DLSS10-04	\$44.00		1/4 in						
DC-DLSS10-05	\$43.00		5/16 in						
DC-DLSS10-08M	\$42.00		8mm						
DC-DLSS20-04	\$49.00	20	1/4 in	3,000	[15.9] 1.8	[0.30] 7.5	15	0.20	
DC-DLSS20-05	\$49.00		5/16 in						
DC-DLSS20-08M	\$49.00		8mm						
DC-DLSS20-06	\$49.00		3/8 in						
DC-DLSS20-12M	\$49.00		12mm						
DC-DLSS20-08	\$49.00		1/2 in						
DC-DLSS30-12M	\$55.00	30	12mm	3,000	[44.3] 5.0	[0.13] 3.2	15	0.27	
DC-DLSS30-08	\$55.00		1/2 in						
DC-DLSS30-14M	\$55.00		14mm						
DC-DLSS30-10	\$55.00		5/8 in						
DC-DLSS40-08	\$60.50	40	1/2 in	3,000	[88.5] 10.0	[0.43] 11.0	15	0.30	
DC-DLSS40-14M	\$60.50		14mm						
DC-DLSS40-10	\$60.50		5/8 in						
DC-DLSS40-16M	\$60.50		16mm						

Dimensions (in [mm])



Double Loop Stainless Steel Drive Coupling Dimensions					
Part Number	Size	Set Screw	ØB	ØC	
				L (in [mm])	
DC-DLSS10-02	10	M3	1/8 in	1.06 [26.9]	
DC-DLSS10-03			3/16 in		
DC-DLSS10-06M			6mm		
DC-DLSS10-04			1/4 in		
DC-DLSS10-05			5/16 in		
DC-DLSS10-08M			8mm		
DC-DLSS20-04	20	M4	1/4 in	1.89 [48.0]	
DC-DLSS20-05			5/16 in		
DC-DLSS20-08M			8mm		
DC-DLSS20-06			3/8 in		
DC-DLSS20-12M			12mm		
DC-DLSS20-08			1/2 in		
DC-DLSS30-12M	30	M5	12mm	2.13 [54.1]	2.17 [55.1]
DC-DLSS30-08			1/2 in		
DC-DLSS30-14M			14mm		
DC-DLSS30-10			5/8 in		
DC-DLSS40-08	40	M6	1/2 in	2.20 [55.9]	2.20 [55.9]
DC-DLSS40-14M			14mm		
DC-DLSS40-10			5/8 in		
DC-DLSS40-16M			16mm		

See our website: www.AutomationDirect.com for complete Engineering drawings.

Suremotion Drive Couplings

Oldham Drive Couplings



Features

- Large radial misalignment capability
- Hubs made of aluminum 2011 T8
- Center discs made of Delrin™
- Mechanical 'fuse' prevents damage to other components in over-torque conditions
- Zero backlash
- Corrosion-resistant
- Non-magnetic
- Operating temperature range: -20 to 60 °C (-4 to 140 °F)
- Electrical isolation
- Absorbs shock and isolates vibration
- Dampens resonance
- Speeds up to 3,000rpm
- Low inertia

Applications

- General-purpose applications
- Medium-speed applications

Oldham Aluminum Clamp-Style Drive Coupling Hubs*

Part Number*	Price	Size	Bore	Max rpm	Torque (lb-in [N·m])		Max Offset			Moment of Inertia (lb-in·s ² ×10 ⁻⁵)	Weight (lb)
					Peak	Static Break	Radial (in [mm])	Axial (in [mm])	Angular (°)		
DC-DAC19-05M	\$19.50	19	5mm	3,000	15 [1.7]	71 [8.0]	0.016 [0.41]	0.004 [0.1]	1.5	0.518	0.032
DC-DAC19-04	\$19.50		1/4 in								0.032
DC-DAC19-08M	\$19.50		8mm								0.033
DC-DAC25-04	\$26.50	25	1/4 in	3,000	35 [4.0]	115 [13.0]	0.016 [0.41]	0.004 [0.1]	2.23	0.055	
DC-DAC25-08M	\$26.50		8mm							0.054	
DC-DAC25-06	\$26.50		3/8 in							0.050	
DC-DAC25-10M	\$26.50		10mm							0.050	
DC-DAC25-12M	\$26.50		12mm							0.051	
DC-DAC33-06	\$38.00	33	3/8 in	3,000	80 [9.0]	465 [52.5]	0.016 [0.41]	0.006 [0.15]	10.0	0.097	
DC-DAC33-10M	\$28.00		10mm							0.095	
DC-DAC33-12M	\$38.00		12mm							0.095	
DC-DAC33-08	\$38.00		1/2 in							0.093	
DC-DAC33-14M	\$37.50		14mm							0.091	
DC-DAC33-10	\$30.00		5/8 in							0.088	
DC-DAC33-16M	\$18.50		16mm							0.087	
DC-DAC41-08	\$41.50	41	1/2 in	3,000	150 [16.9]	500 [56.5]	0.020 [0.51]	0.006 [0.15]	3	0.186	
DC-DAC41-14M	\$42.00		14mm							0.181	
DC-DAC41-10	\$41.75		5/8 in							0.177	
DC-DAC41-16M	\$42.00		16mm							0.172	
DC-DAC41-19M	\$42.00		19mm							0.168	
DC-DAC41-12	\$42.00		3/4 in							0.163	
DC-DAC50-08	\$86.00	50	1/2 in	3,000	265 [29.9]	840 [94.9]	0.020 [0.51]	0.008 [0.2]	66.7	0.260	
DC-DAC50-14M	\$86.00		14mm							0.255	
DC-DAC50-10	\$86.00		5/8 in							0.249	
DC-DAC50-16M	\$86.00		16mm							0.244	
DC-DAC50-19M	\$86.00		19mm							0.238	
DC-DAC50-12	\$86.00		3/4 in							0.233	
DC-DAC50-16	\$86.00		1 in							0.227	
DC-DAC57-10	\$94.00	57	5/8 in	3,000	390 [44.1]	1325 [149.7]	0.020 [0.51]	0.008 [0.2]	109.7	0.457	
DC-DAC57-16M	\$94.00		16mm							0.439	
DC-DAC57-19M	\$94.00		19mm							0.422	
DC-DAC57-12	\$94.00		3/4 in							0.404	
DC-DAC57-16	\$94.00		1 in							0.386	

* A complete Oldham coupling assembly consists of two hubs and one torque disc, each of the same "size" and each purchased separately. The two hubs can be of different "bore" diameters, if needed for the application.

Suremotion Drive Couplings

Oldham Drive Couplings

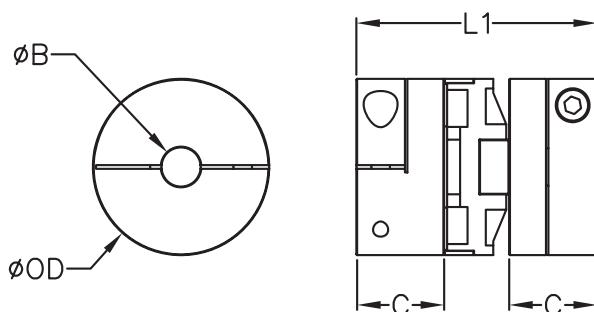


Oldham Aluminum Clamp-Style Drive Coupling Torque Discs*

Part Number *	Price	Size	Color
DC-DDS19	\$2.25	19	black
DC-DDS25	\$4.75	25	
DC-DDS33	\$8.00	33	
DC-DDS41	\$10.00	41	
DC-DDS50	\$23.00	50	
DC-DDS57	\$32.00	57	

* A complete Oldham coupling assembly consists of two hubs and one torque disc, each of the same "size" and each purchased separately. The two hubs can be of different "bore" diameters, if needed for the application.

Dimensions (in [mm])



Oldham Aluminum Drive Coupling Hub Bore Dimensions		
Hubs	Sizes	ØB
DC-DACxx-05M	19	5mm
DC-DACxx-04	19, 25	1/4 in
DC-DACxx-08M	19, 25	8mm
DC-DACxx-06	25, 33	3/8 in
DC-DACxx-10M	25, 33	10mm
DC-DACxx-12M	25, 33	12mm
DC-DACxx-08	33, 41, 50	1/2 in
DC-DACxx-14M	33, 41, 50	14mm
DC-DACxx-10	33, 41, 50, 57	5/8 in
DC-DACxx-16M	33, 41, 50, 57	16mm
DC-DACxx-12	41, 50, 57	3/4 in
DC-DACxx-19M	41, 50, 57	19mm
DC-DACxx-16	50, 57	1in

Oldham Aluminum Clamp-Style Drive Coupling Assembly Dimensions*

Size	Components	Cap Screw	C	L1**	ØOD
			(in [mm])		
19	(2) DC-DAC19-xxx + (1) DC-DDS19	#4-40	0.37	1.02	0.75
			[9.4]	[25.9]	[19.1]
25	(2) DC-DAC25-xxx + (1) DC-DDS25	M3	0.46	1.28	1.00
			[11.7]	[32.5]	[25.4]
33**	(2) DC-DAC33-xxx + (1) DC-DDS33	M4	0.59	1.89	1.31
			[15.0]	[48.0]	[33.3]
41	(2) DC-DAC41-xxx + (1) DC-DDS41	M4	0.70	2.00	1.63
			[17.8]	[50.8]	[41.4]
50	(2) DC-DAC50-xxx + (1) DC-DDS50	M5	0.81	2.35	1.97
			[20.6]	[59.7]	[50.0]
57	(2) DC-DAC57-xxx + (1) DC-DDS57	M6	1.12	3.07	2.25
			[28.4]	[78.0]	[57.2]

* Assembly dimensions are for any (2) hubs + (1) torque disc of the same "size" as assembled. Among components of the same "size," the only dimension that varies is the hub bore diameter (ØB), which is shown separately.

** When DC-DAC33-08 is used with another DC-DAC33-xx bore size, L1 = 45. When 2 DC-DAC33-08 are used together, L1 = 42

See our website: www.AutomationDirect.com for complete Engineering drawings.

Suremotion Drive Couplings

Beam-Style Servo Stainless Steel Set-Screw Couplings



Features

- Flexibility of bellows coupling plus torsional stiffness and strength of disc coupling
- Hubs made of 416 stainless steel
- Flex beams made of 420 stainless steel
- Zero backlash
- Corrosion-resistant
- Bore reducers available to fit a wide variety of bore combinations
- Very wide operating temperature range:
 - for 24/7 applications: -73 to 191 °C (-100 to 375 °F)
 - for intermittent applications (<8hr): -73 to 232 °C (-100 to 450 °F)

- Speeds up to 10,000rpm
- Torque up to 300 lb-in

Applications

- High performance applications
- High-speed applications
- High-torque applications

Beam-Style Servo Stainless Steel* Set-Screw Drive Coupling Hubs											
Part Number	Price	Size	Bore**	Max rpm	Torsional Stiffness (lb-in/°)	Max Torque (lb-in [N-m])	Max Misalignment			Moment of Inertia (lb-in-s ² x10 ⁻⁵)	Weight (oz)
							Radial (in [mm])	Axial (in [mm])	Angular (°)		
DC-SBS19-0404	\$99.00	19	1/4 in	10,000	11	12 [1.4]	0.010 [0.25]	0.020 [0.51]	7	0.86	0.84
DC-SBS25-0808	\$122.00	25	1/2 in	7,500	27	24 [2.7]	0.015 [0.38]	0.025 [0.64]		3.75	1.60
DC-SBS32-1010	\$134.00	32	5/8 in		51	48 [5.4]		0.030 [0.76]		11.1	2.45
DC-SBS38-1212	\$154.00	38	3/4 in	5,000	89	75 [8.5]	0.020 [0.51]	0.040 [1.02]		28.2	4.94
DC-SBS44-1414	\$264.00	44	7/8 in		135	135 [15.3]		0.050 [1.27]		59.2	7.59
DC-SBS51-1616	\$308.00	51	1 in	3,750	205	180 [20.3]	0.025 [0.64]	0.060 [1.52]		115	11.26
DC-SBS63-2020	\$354.00	63	1-1/4 in		395	300 [33.9]		0.060 [1.52]		349	18.67

* Hubs are 416 stainless; flex beams are 420 stainless.

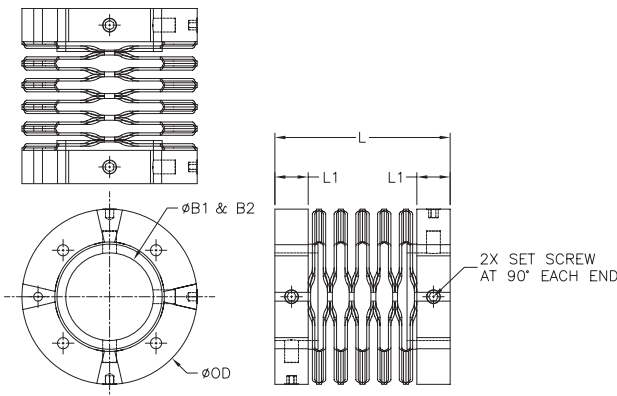
** Bore Reducers can be purchased separately from AutomationDirect and installed in DC-SBSxx-xxxx hubs if different bore sizes are needed. (See page tROT-26 for Bore Reducers.)

Dimensions (in [mm])

Beam-Style Servo Stainless Steel Drive Coupling Dimensions						
Size	Set Screw	L	L1	ØB1*	ØB2*	ØOD
(in [mm])						
19	M3x0.5	0.75 [19.1]	0.240 [6.10]	0.250 [6.35]	0.75 [19.1]	
25		1.00 [25.4]	0.345 [8.76]	0.500 [12.70]	1.00 [25.4]	
32	M5x0.8	1.25 [31.6]	0.386 [9.80]	0.625 [15.88]	1.25 [31.6]	
38		1.50 [38.1]	0.505 [12.83]	0.750 [19.05]	1.50 [38.1]	
44		1.75 [44.5]	0.550 [13.97]	0.875 [22.23]	1.75 [44.5]	
51		2.00 [50.8]	0.555 [14.10]	1.000 [25.40]	2.00 [50.8]	
63		M6x1.0	2.50 [63.5]	0.615 [15.62]	1.250 [31.75]	2.50 [63.5]

* Use bore reducers for additional bore sizes and bore combinations.

See our website: www.AutomationDirect.com for complete Engineering drawings.





Drive Couplings

Accessories – Bore Reducers



Features

- For use in all SureMotion drive coupling hubs to reduce bore size
- Split-collar design with 2 set screw flats will not mark shaft
- 25% greater holding power than standard split collar
- Hardened stainless steel

Bore Reducers – Stainless Steel Clamping Type

Part Number	Price	Outside Diameter		Inside Diameter		Length
		Nominal	Actual	Nominal	Actual	
DC-BRS04-02	\$16.50	1/4 in	0.250 in	1/8 in	0.125 in	0.221 in
DC-BRS04-04M	\$16.50			4mm	4mm	
DC-BRS04-03	\$16.50			3/16 in	0.1875 in	
DC-BRS04-05M	\$16.50			5mm	5mm	
DC-BRS08-06M	\$21.75	1/2 in	0.500 in	6mm	6mm	0.449 in
DC-BRS08-04	\$21.75			1/4 in	0.25 in	
DC-BRS08-05	\$22.00			5/16 in	0.3125 in	
DC-BRS08-08M	\$21.75			8mm	8mm	
DC-BRS08-06	\$22.00			3/8 in	0.375 in	
DC-BRS08-10M	\$22.00			10mm	10mm	
DC-BRS10-10M	\$25.00	5/8 in	0.625 in	10mm	10mm	0.460 in
DC-BRS10-07	\$25.00			7/16 in	0.4375 in	
DC-BRS10-12M	\$25.00			12mm	12mm	
DC-BRS10-08	\$25.00			1/2 in	0.5 in	
DC-BRS10-14M	\$25.00			14mm	14mm	
DC-BRS10-09	\$25.00			9/16 in	0.5625 in	
DC-BRS12-06	\$30.00	3/4 in	0.750 in	3/8 in	0.375 in	0.646 in
DC-BRS12-12M	\$30.00			12mm	12mm	
DC-BRS12-08	\$30.00			1/2 in	0.5 in	
DC-BRS12-10	\$30.00			5/8 in	0.625 in	
DC-BRS12-16M	\$30.00			16mm	16mm	
DC-BRS12-11	\$30.00			11/16 in	0.6875 in	
DC-BRS14-14M	\$32.00	7/8 in	0.875 in	14mm	14mm	0.755 in
DC-BRS14-10	\$32.00			5/8 in	0.625 in	
DC-BRS14-16M	\$32.00			16mm	16mm	
DC-BRS14-11	\$32.00			11/16 in	0.6875 in	
DC-BRS14-18M	\$32.00			18mm	18mm	
DC-BRS14-12	\$32.00			3/4 in	0.75 in	
DC-BRS16-10	\$32.00	1 in	1.000 in	5/8 in	0.625 in	0.773 in
DC-BRS16-18M	\$33.00			18mm	18mm	
DC-BRS16-12	\$33.00			3/4 in	0.75 in	
DC-BRS16-20M	\$33.00			20mm	20mm	
DC-BRS16-13	\$33.00			13/16 in	0.8125 in	
DC-BRS16-14	\$33.00			7/8 in	0.875 in	
DC-BRS20-22M	\$34.00	1-1/4 in	1.250 in	22mm	22mm	0.793 in
DC-BRS20-24M	\$34.00			24mm	24mm	
DC-BRS20-25M	\$34.00			25mm	25mm	
DC-BRS20-16	\$34.00			1 in	1.0 in	
DC-BRS20-17	\$34.00			1-1/16 in	1.0625 in	
DC-BRS20-18	\$34.00			1-1/8 in	1.125 in	



Synchronous Drive Components

Timing (Toothed) Belts

SureMotion timing belts are an excellent choice for many industrial applications. Several pitches and widths are available to cover a wide range of power transmission requirements.

- Neoprene with fiberglass reinforcement
- Polyurethane with polyester reinforcement (MXL pitch only)
- MXL (Mini Xtra Light) pitch = 0.080"
- XL (Xtra Light) pitch = 0.200"
- L (Light) pitch = 0.375"
- Range from 30 - 160 teeth
- 0.25, 0.375, 0.50 and 1.0-inch widths
- Timing belts start at \$3.50 (60XL025NG)

Timing Pulleys

Both aluminum and steel pulleys (sprockets) are available with a smooth bore and setscrew. Steel pulleys also available to fit Taper-Lock or QD style drive bushings. Bushings sold separately.

- Aluminum, steel, cast iron, or ductile iron
- MXL pitch = 0.080" with 1/4" width
- XL pitch = 0.200" with 1/4 or 3/8 inch width
- L pitch = .375" with 1/2 or 1 inch width
- Plain bores and TL or QD type bore
- Timing pulleys start at \$12.50 (APB10XL025BF-250)

Tapered Drive Bushings

Bushings allow the connection of pulleys to different sized shafts.

- TL (Taper-Lock) and QD (quick detach) types are available
- Steel
- Standard bore sizes from 0.50 to 1.375 inch
- Taper-Lock® bushings start at \$25.00 (TL-1108-0500)
- QD® style bushings start at \$20.50 (QD-JA-0500)

*"Taper-Lock" is a registered trademark of Reliance Electric
"QD" is a registered trademark of Emerson Electric*

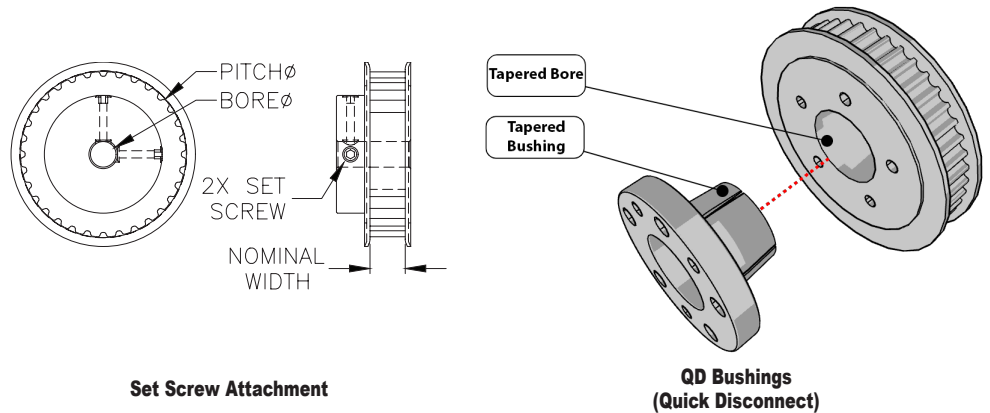




Synchronous Drive Components

Product Overview

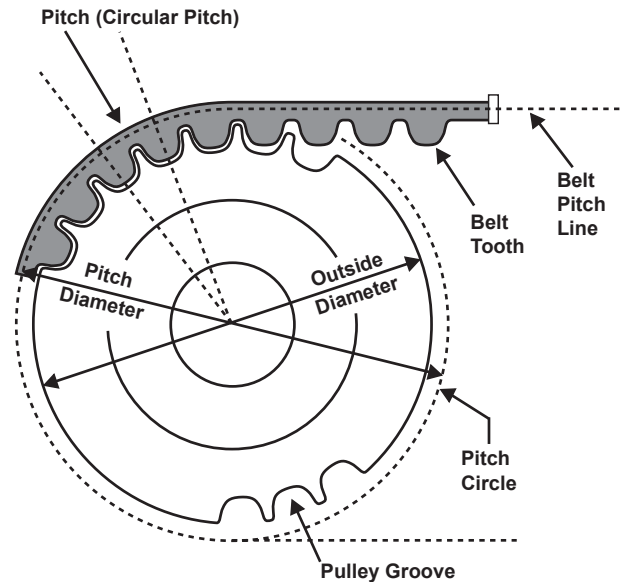
Timing pulleys are offered in several pitches, MXL, XL, L, and 5M and use two attachment styles, set screw and quick disconnect (QD) bushings, shown on the right.



Timing pulleys and belts allow you to change speed and torque while connecting mechanically rotating components.

- Select pulley sizes in order to accomplish the speed or torque change that you need.
- Synchronous drive belts and pulleys utilize teeth to prevent slippage and unwanted speed variations.

Note: For pulley speeds in excess of 6,000 RPM, pulleys should be dynamically balanced.



Drive Component Selection

1. Determine required torque (ft-lbs) and rpm of driven shaft.
2. Determine Design Horsepower (DHP):

$$DHP = \frac{T \cdot N \cdot sf}{5,252}$$

Where: T = torque (ft·lb)
 N = rpm
 sf = service factor per table

Service Factors			
Machine Type	<8hr per day	8-16 hr per day	Continuous
Smooth Running	1.0	1.2	1.4
Light Shock Loads	1.3	1.5	1.7
Heavy Shock Loads	1.7	1.9	2.1

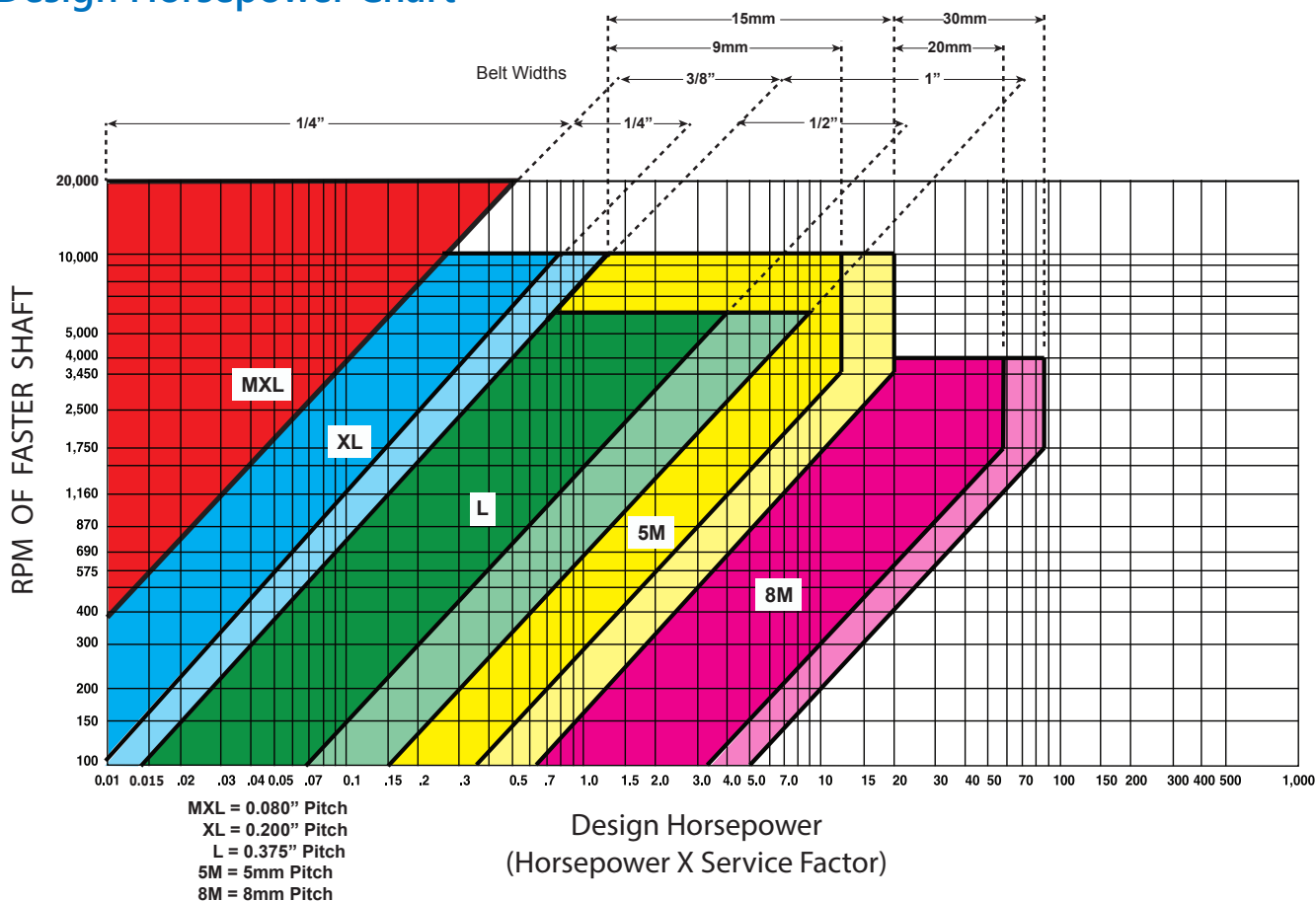
3. Determine Pitch (MXL, XL, L, or 5M) and belt width required by reading Design Horsepower Chart.
4. Select driver and driven pulleys to match desired speed or torque change.
5. Determine belt length per belt length calculation.

Note: AutomationDirect provides an online configuration tool to assist with pulley and belt sizing. See: www.automationdirect.com/selectors/beltandpulley

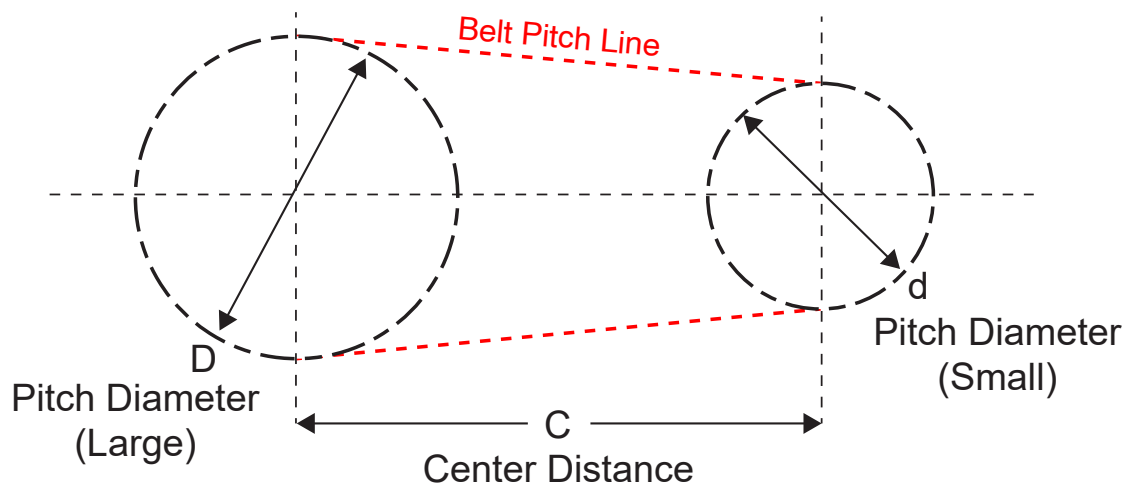


Synchronous Drive Components

Design Horsepower Chart



Drive Component Selection Continued



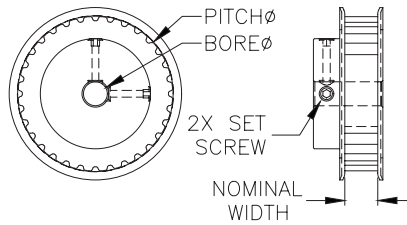
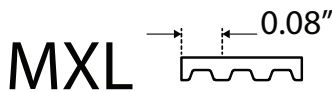
$$\text{Belt Length, } L = 2C + \frac{\pi(D + d)}{2} + \frac{(D - d)^2}{4C}$$



Timing Pulleys

MXL Timing Pulley Features

- Pitch: 0.08in
- Tooth Profile: Trapezoidal
- Attachment: Smooth bore with set screws
- Pulley Material: Aluminum with hard anodize finish



A14-MXL025-B0125

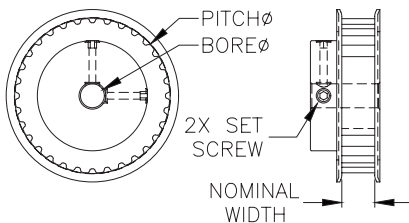
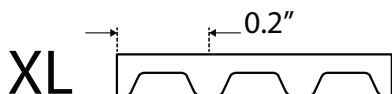
MXL Timing Pulley								
Part Number	Price	# Teeth	Bore Diameter	Nominal Width	Flange (Y/N)	Pitch Diameter	Material	Drawing Link
A14-MXL025-B0125	\$20.00	14	1/8in	1/4in	Yes	0.357in [9.07mm]	Aluminum with anodize finish	PDF
A15-MXL025-B0188	\$20.00	15	3/16in			0.382in [9.7mm]		PDF
A16-MXL025-B0188	\$20.00	16				0.407in [10.34mm]		PDF
A18-MXL025-B0250	\$20.25	18				1/4in		0.458in [11.63mm]
A20-MXL025-B0250	\$20.50	20	0.509in [12.93mm]					PDF
A21-MXL025-B0188	\$19.00	21	3/16in			0.535in [13.59mm]		PDF
A21-MXL025-B0250	\$21.00		1/4in			PDF		
A22-MXL025-B0188	\$19.00	22	3/16in			0.56in [14.22mm]		PDF
A30-MXL025-B0250	\$20.50	30	1/4in			0.764in [19.41mm]		PDF
A32-MXL025-B0250	\$21.00	32				0.815in [20.7mm]		PDF
A36-MXL025-B0250	\$21.50	36				0.917in [23.29mm]		PDF
A40-MXL025-B0250	\$23.00	40				1.019in [25.88mm]		PDF
A60-MXL025-B0250	\$27.00	60				1.528in [38.81mm]		PDF
A60NF-MXL025-B0250	\$24.00					No		PDF
A72NF-MXL025-B0250	\$27.25			72	1.833in [46.56mm]		PDF	



Timing Pulleys

XL Timing Pulley Features

- Pitch: 1/5in
- Tooth Profile: Trapezoidal
- Attachment: Smooth bore with set screws
- Pulley Material: Aluminum with hard anodize finish



A10-XL025-B0250

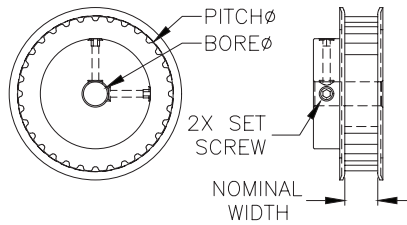
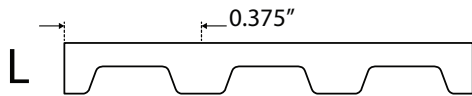
XL Timing Pulley								
Part Number	Price	# Teeth	Bore Diameter	Nominal Width	Flange (Y/N)	Pitch Diameter	Material	Drawing Link
A10-XL025-B0250	\$17.25	10	1/4in	1/4in	Yes	0.637in [16.18mm]	Aluminum with anodize finish	PDF
A15-XL025-B0250	\$19.00	15				0.955in [24.26mm]		PDF
A16-XL025-B0250	\$19.50	16				1.019in [25.88mm]		PDF
A18-XL025-B0250	\$20.00	18				1.146in [29.11mm]		PDF
A20-XL025-B0250	\$21.00	20				1.273in [32.33mm]		PDF
A30-XL025-B0250	\$26.00	30				1.91in [48.51mm]		PDF
A10NH-XL037-0250	\$17.50	10	1/4in	3/8in	Yes	0.637in [16.18mm]	Aluminum with anodize finish	PDF
A10-XL037-B0250	\$18.00					PDF		
A12NH-XL037-0250	\$18.00	12				0.764in [19.41mm]		PDF
A12-XL037-B0250	\$18.50					PDF		
A14NH-XL037-0250	\$18.50	14				0.891in [22.63mm]		PDF
A14-XL037-B0250	\$19.00					PDF		
A15NH-XL037-0250	\$19.25	15				0.955in [24.26mm]		PDF
A16NH-XL037-0250	\$20.00					PDF		
A16-XL037-B0250	\$20.00	16				1.019in [25.88mm]		PDF
A18NH-XL037-0250	\$20.00					PDF		
A18-XL037-B0250	\$20.25	18				1.146in [29.11mm]		PDF
A19-XL037-B0250	\$21.00					PDF		
A20NH-XL037-0250	\$21.00	20				1.273in [32.33mm]		PDF
A20-XL037-B0250	\$22.00					PDF		
A21-XL037-B0250	\$22.00	21				1.337in [33.96mm]		PDF
A22NH-XL037-0250	\$23.50	22				1.401in [35.59mm]		PDF
A22-XL037-B0250	\$24.25					PDF		
A24NH-XL037-0250	\$24.00	24				1.528in [38.81mm]		PDF
A24-XL037-B0250	\$24.50		PDF					
A26-XL037-B0250	\$26.00	26	1.655in [42.04mm]	PDF				
A28-XL037-B0250	\$28.50	28	1.783in [45.29mm]	PDF				
A30NH-XL037-0250	\$27.25	30	1.91in [48.51mm]	PDF				
A30-XL037-B0250	\$29.00		PDF					
A32NF-XL037-B0312	\$23.50	32	5/16in	No	2.037in [51.74mm]	PDF		
A32NH-XL037-0250	\$28.25		1/4in	Yes		PDF		
A32-XL037-B0312	\$30.50	5/16in	5/16in	No	2.292in [58.22mm]	PDF		
A36NF-XL037-B0312	\$26.00				36	2.546in [64.67mm]	PDF	
A40NF-XL037-B0312	\$31.00				40	2.674in [67.92mm]	PDF	
A42NF-XL037-B0312	\$31.50				42	2.801in [71.15mm]	PDF	
A44NF-XL037-B0312	\$34.00				44	3.056in [77.62mm]	PDF	
A48NF-XL037-B0312	\$37.00				48	3.82in [97.03mm]	PDF	
A60NF-XL037-B0375	\$50.00	60	3/8in	No	4.584in [116.43mm]	PDF		
A72NF-XL037-B0375	\$66.00	72	3/8in		PDF			



Timing Pulleys

L Timing Pulley Features

- Pitch: 3/8in
- Tooth Profile: Trapezoidal
- Attachment: Smooth bore with set screws
- Pulley Material: Aluminum with hard anodize finish



A10-L050-B-0375

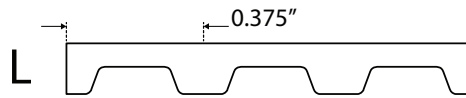
L Timing Pulley								
Part Number	Price	# Teeth	Bore Diameter	Nominal Width	Flange (Y/N)	Pitch Diameter	Material	Drawing Link
<u>A10-L050-B-0375</u>	\$27.00	10	3/8in	1/2in	Yes	1.194in [30.33mm]	Aluminum with anodize finish	<u>PDF</u>
<u>A12-L050-B-0375</u>	\$29.50	12				1.432in [36.37mm]		<u>PDF</u>
<u>A13-L050-B-0375</u>	\$30.00	13				1.552in [39.42mm]		<u>PDF</u>



Timing Pulleys

L Timing Pulley Features

- Pitch: 3/8in
- Tooth Profile: Trapezoidal
- Attachment: Quick Disconnect (QD) style bushing
- Pulley Material: Aluminum with hard anodize finish



A14-L050-SPBO-0375

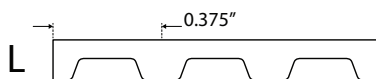
L Timing Pulley								
Part Number	Price	# Teeth	Bore Diameter	Nominal Width	Flange (Y/N)	Pitch Diameter	Material	Drawing Link
A14-L050-SPBO-0375	\$48.50	14	3/8in	1/2in	Yes	1.671in [42.44mm]	Aluminum with anodize finish	PDF
A14-L050-SPBO-0500	\$48.50		1/2in					PDF
A15-L050-SPBO-0375	\$50.00	15	3/8in			1.79in [45.47mm]		PDF
A15-L050-SPBO-0500	\$50.00		1/2in					PDF
A16-L050-SPBO-0500	\$52.00	16	5/8in			1.91in [48.51mm]		PDF
A16-L050-SPBO-0625	\$52.00		1/2in					PDF
A17-L050-SPBO-0500	\$53.00	17	1/2in			2.029in [51.54mm]		PDF
A17-L050-SPBO-0625	\$53.00		5/8in					PDF
A18-L050-SPBO-0500	\$54.00	18	1/2in			2.149in [54.58mm]		PDF
A18-L050-SPBO-0625	\$54.00		5/8in					PDF
A20-L050-SPBO-0500	\$60.00	20	1/2in			2.387in [60.63mm]		PDF
A20-L050-SPBO-0625	\$60.00		5/8in					PDF
A20-L050-SPBO-0750	\$60.00		3/4in			PDF		
A21-L050-SPBO-0500	\$60.00	21	1/2in			2.507in [63.68mm]		PDF
A21-L050-SPBO-0625	\$60.00		5/8in					PDF
A21-L050-SPBO-0750	\$60.00		3/4in					PDF
A22-L050-SPBO-0500	\$64.00	22	1/2in			2.626in [66.7mm]		PDF
A22-L050-SPBO-0625	\$64.00		5/8in					PDF
A22-L050-SPBO-0750	\$64.00		3/4in					PDF
A22-L050-SPBO-0875	\$64.00		7/8in					PDF
A22-L050-SPBO-1000	\$64.00		1in			PDF		
A24-L050-SPBO-0500	\$71.00	24	1/2in			2.865in [72.77mm]		PDF
A24-L050-SPBO-0625	\$71.00		5/8in					PDF
A24-L050-SPBO-0750	\$71.00		3/4in					PDF
A24-L050-SPBO-0875	\$71.00		7/8in	PDF				
A24-L050-SPBO-1000	\$71.00		1in	PDF				
A26-L050-SPBO-0500	\$74.00	26	1/2in	3.104in [78.84mm]	PDF			
A26-L050-SPBO-0625	\$74.00		5/8in		PDF			
A26-L050-SPBO-0750	\$74.00		3/4in		PDF			
A26-L050-SPBO-0875	\$74.00		7/8in		PDF			
A26-L050-SPBO-1000	\$74.00		1in	PDF				
A30-L050-SPBO-0500	\$91.00	30	1/2in	3.581in [90.96mm]	PDF			
A30-L050-SPBO-0625	\$91.00		5/8in		PDF			
A30-L050-SPBO-0750	\$91.00		3/4in		PDF			
A30-L050-SPBO-0875	\$91.00		7/8in		PDF			
A30-L050-SPBO-1000	\$91.00		1in		PDF			
A30-L050-SPBO-1125	\$91.00		1-1/8in	PDF				
A32-L050-SPBO-0500	\$93.00	32	1/2in	3.82in [97.03mm]	PDF			
A32-L050-SPBO-0625	\$93.00		5/8in		PDF			
A32-L050-SPBO-0750	\$93.00		3/4in		PDF			
A32-L050-SPBO-0875	\$93.00		7/8in		PDF			
A32-L050-SPBO-1000	\$93.00		1in		PDF			
A32-L050-SPBO-1125	\$93.00		1-1/8in	PDF				



Timing Pulleys

L Timing Pulley Features

- Pitch: 3/8in
- Tooth Profile: Trapezoidal
- Attachment: Quick Disconnect (QD) style bushing
- Pulley Material: Aluminum with hard anodize finish



A14-L100-SPBO-0375

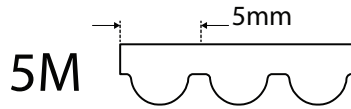
L Timing Pulley								
Part Number	Price	# Teeth	Bore Diameter	Nominal Width	Flange (Y/N)	Pitch Diameter	Material	Drawing Link
A14-L100-SPBO-0375	\$52.50	14	3/8in	1in	Yes	1.671in [42.44mm]	Aluminum with anodize finish	PDF
A16-L100-SPBO-0500	\$58.00	16	1/2in			PDF		
A16-L100-SPBO-0625	\$58.00		5/8in			PDF		
A18-L100-SPBO-0500	\$61.00	18	1/2in			PDF		
A18-L100-SPBO-0625	\$61.00		5/8in			PDF		
A20-L100-SPBO-0500	\$69.50	20	1/2in			PDF		
A20-L100-SPBO-0625	\$69.50		5/8in			PDF		
A20-L100-SPBO-0750	\$69.50		3/4in			PDF		
A22-L100-SPBO-0625	\$75.00	22	5/8in			PDF		
A22-L100-SPBO-0750	\$75.00		3/4in			PDF		
A22-L100-SPBO-0875	\$75.00		7/8in			PDF		
A22-L100-SPBO-1000	\$75.00		1in			PDF		
A24-L100-SPBO-0625	\$79.50	24	5/8in			PDF		
A24-L100-SPBO-0750	\$79.50		3/4in			PDF		
A24-L100-SPBO-0875	\$79.50		7/8in			PDF		
A24-L100-SPBO-1000	\$79.50		1in			PDF		
A26-L100-SPBO-0625	\$84.50	26	5/8in			PDF		
A26-L100-SPBO-0750	\$84.50		3/4in			PDF		
A26-L100-SPBO-0875	\$84.50		7/8in			PDF		
A26-L100-SPBO-1000	\$84.50		1in			PDF		
A28-L100-SPBO-0625	\$94.00	28	5/8in			PDF		
A28-L100-SPBO-0750	\$94.00		3/4in			PDF		
A28-L100-SPBO-0875	\$94.00		7/8in			PDF		
A28-L100-SPBO-1000	\$94.00		1in			PDF		
A28-L100-SPBO-1125	\$94.00	30	1-1/8in			PDF		
A28-L100-SPBO-1250	\$94.00		1-1/4in			PDF		
A30-L100-SPBO-0625	\$106.00		5/8in			PDF		
A30-L100-SPBO-0750	\$106.00		3/4in			PDF		
A30-L100-SPBO-0875	\$106.00	30	7/8in			PDF		
A30-L100-SPBO-1000	\$106.00		1in			PDF		
A30-L100-SPBO-1125	\$106.00		1-1/8in			PDF		
A30-L100-SPBO-1250	\$106.00		1-1/4in			PDF		
A32-L100-SPBO-0625	\$109.00	32	5/8in			PDF		
A32-L100-SPBO-0750	\$109.00		3/4in			PDF		
A32-L100-SPBO-0875	\$109.00		7/8in			PDF		
A32-L100-SPBO-1000	\$109.00		1in			PDF		
A32-L100-SPBO-1125	\$109.00		1-1/8in			PDF		
A32-L100-SPBO-1250	\$109.00	36	1-1/4in			PDF		
A36-L100-SPBO-0625	\$127.00		5/8in			PDF		
A36-L100-SPBO-0750	\$127.00		3/4in			PDF		
A36-L100-SPBO-0875	\$127.00		7/8in	PDF				
A36-L100-SPBO-1000	\$127.00	36	1in	PDF				
A36-L100-SPBO-1125	\$127.00		1-1/8in	PDF				
A36-L100-SPBO-1250	\$127.00		1-1/4in	PDF				
A40-L100-SPBO-0625	\$159.00		40	5/8in	PDF			
A40-L100-SPBO-0750	\$159.00	3/4in		PDF				
A40-L100-SPBO-0875	\$159.00	7/8in		PDF				
A40-L100-SPBO-1000	\$159.00	1in		PDF				
A40-L100-SPBO-1125	\$159.00	1-1/8in		PDF				
A40-L100-SPBO-1250	\$159.00	1-1/4in		PDF				



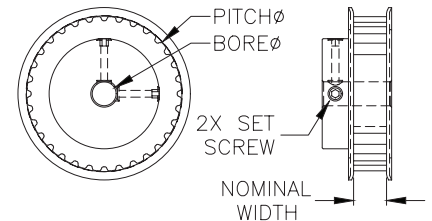
Timing Pulleys

5M Timing Pulley Features

- Pitch: 5mm
- Tooth Profile: Curvilinear
- Attachment: Smooth bore with set screws
- Pulley Material: Aluminum with hard anodize finish



A20-5M15-SS-0625



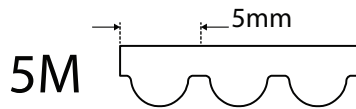
5M Timing Pulley											
Part Number	Price	# Teeth	Bore Diameter	Nominal Width	Flange (Y/N)	Pitch Diameter	Material	Drawing Link			
A20-5M10-SS-0625	\$46.50	20	5/8in	9mm	Yes	1.253in [31.83mm]	Aluminum with anodize finish	PDF			
A22-5M10-SS-0625	\$39.00	22	3/4in			1.379in [35.03mm]		PDF			
A22-5M10-SS-0750	\$39.00					1.504in [38.2mm]		PDF			
A24-5M10-SS-0625	\$39.00	24	5/8in			1.504in [38.2mm]		PDF			
A24-5M10-SS-0750	\$39.00		3/4in			PDF					
A24-5M10-SS-0875	\$39.00	7/8in	PDF								
A25-5M10-SS-0625	\$39.50	25	5/8in			1.566in [39.78mm]		PDF			
A25-5M10-SS-0750	\$40.00		3/4in			PDF					
A25-5M10-SS-0875	\$40.00	7/8in	PDF								
A28-5M10-SS-0625	\$41.50	28	5/8in			1.754in [44.55mm]		PDF			
A28-5M10-SS-0750	\$41.50		3/4in			PDF					
A28-5M10-SS-0875	\$41.50		7/8in			PDF					
A30-5M10-SS-0625	\$45.00	30	5/8in			1.88in [47.75mm]		PDF			
A30-5M10-SS-0750	\$45.00		3/4in			PDF					
A30-5M10-SS-0875	\$45.00		7/8in			PDF					
A32-5M10-SS-0750	\$47.00	32	3/4in			2.005in [50.93mm]		PDF			
A32-5M10-SS-0875	\$47.00		7/8in			PDF					
A36-5M10-SS-0750	\$51.00	36	3/4in			2.256in [57.3mm]		PDF			
A36-5M10-SS-0875	\$51.00		7/8in			PDF					
A40-5M10-SS-0750	\$57.00	40	3/4in			2.506in [63.65mm]		PDF			
A40-5M10-SS-0875	\$57.00		7/8in			PDF					
A42-5M10-SS-0750	\$61.00	42	3/4in			2.632in [66.85mm]		PDF			
A42-5M10-SS-0875	\$61.00		7/8in			PDF					
A20-5M15-SS-0625	\$48.00	20	5/8in			15mm		Yes	1.253in [31.83mm]	Aluminum with anodize finish	PDF
A22-5M15-SS-0625	\$52.00	22							1.379in [35.03mm]		PDF
A24-5M15-SS-0625	\$52.00	24	7/8in						1.504in [38.2mm]		PDF
A24-5M15-SS-0875	\$52.00								1.566in [39.78mm]		PDF
A25-5M15-SS-0625	\$52.50	25	5/8in						1.566in [39.78mm]		PDF
A25-5M15-SS-0875	\$52.50		7/8in	PDF							
A28-5M15-SS-0625	\$56.00	28	5/8in	1.754in [44.55mm]	PDF						
A28-5M15-SS-0875	\$56.00		7/8in	PDF							
A30-5M15-SS-0625	\$61.00	30	5/8in	1.88in [47.75mm]	PDF						
A30-5M15-SS-0875	\$61.00		7/8in	PDF							
A30-5M15-SS-1125	\$61.00		1-1/8in	PDF							
A32-5M15-SS-0875	\$65.00	32	7/8in	2.005in [50.93mm]	PDF						
A32-5M15-SS-1125	\$65.00		1-1/8in	PDF							
A36-5M15-SS-0875	\$71.00	36	7/8in	2.256in [57.3mm]	PDF						
A36-5M15-SS-1125	\$71.00		1-1/8in	PDF							
A40-5M15-SS-0875	\$80.00	40	7/8in	2.506in [63.65mm]	PDF						
A40-5M15-SS-1125	\$80.00		1-1/8in	PDF							
A42-5M15-SS-0875	\$84.50	42	7/8in	2.632in [66.85mm]	PDF						
A42-5M15-SS-1125	\$84.50		1-1/8in	PDF							
A44-5M15-SS-1125	\$89.00	44	1-1/8in	2.757in [70.03mm]	PDF						
A48-5M15-SS-1125	\$94.00	48	1-1/8in	3.008in [76.4mm]	PDF						



Timing Pulleys

5M Timing Pulley Features

- Pitch: 5mm
- Tooth Profile: Curvilinear
- Attachment: Quick Disconnect (QD) style bushing
- Pulley Material: Aluminum with hard anodize finish



A32-5M10-SPBO-0625

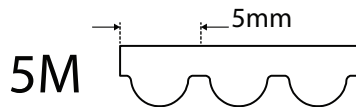
5M Timing Pulley								
Part Number	Price	# Teeth	Bore Diameter	Nominal Width	Flange (Y/N)	Pitch Diameter	Material	Drawing Link
A32-5M10-SPBO-0625	\$76.50	32	5/8in	9mm	Yes	2.005in [50.93mm]	Aluminum with anodize finish	PDF
A36-5M10-SPBO-0625	\$62.00	36				PDF		
A40-5M10-SPBO-0625	\$66.00	40				PDF		
A42-5M10-SPBO-0625	\$70.50	42				PDF		
A44-5M10-SPBO-0625	\$73.00	44	3/4in			2.757in [70.03mm]		PDF
A44-5M10-SPBO-0750	\$73.00		7/8in			PDF		
A44-5M10-SPBO-0875	\$73.00		PDF					
A48-5M10-SPBO-0625	\$77.00	48	5/8in			3.008in [76.4mm]		PDF
A48-5M10-SPBO-0750	\$77.00		3/4in					PDF
A48-5M10-SPBO-0875	\$77.00		7/8in					PDF
A60-5M10-SPBO-0625	\$94.00	60	5/8in			3.76in [95.5mm]		PDF
A60-5M10-SPBO-0750	\$94.00		3/4in					PDF
A60-5M10-SPBO-0875	\$94.00		7/8in					PDF
A72-5M10-SPBO-0625	\$112.00	72	5/8in			4.511in [114.58mm]		PDF
A72-5M10-SPBO-0750	\$111.00		3/4in					PDF
A72-5M10-SPBO-0875	\$112.00		7/8in					PDF
A84-5M10-SPBO-0625	\$147.00	84	5/8in			5.263in [133.68mm]		PDF
A84-5M10-SPBO-0750	\$146.00		3/4in					PDF
A84-5M10-SPBO-0875	\$147.00		7/8in					PDF
A96-5M10-SPBO-0625	\$187.00	96	5/8in			6.015in [152.78mm]		PDF
A96-5M10-SPBO-0750	\$186.00		3/4in	PDF				
A96-5M10-SPBO-0875	\$187.00		7/8in	PDF				
A120-5M10-SPBO-0625	\$251.00	120	5/8in	7.519in [190.98mm]	PDF			
A120-5M10-SPBO-0750	\$250.00		3/4in		PDF			
A120-5M10-SPBO-0875	\$251.00		7/8in		PDF			



Timing Pulleys

5M Timing Pulley Features

- Pitch: 5mm
- Tooth Profile: Curvilinear
- Attachment: Quick Disconnect (QD) style bushing
- Pulley Material: Aluminum with hard anodize finish



A32-5M15-SPBO-0625

5M Timing Pulley									
Part Number	Price	# Teeth	Bore Diameter	Nominal Width	Flange (Y/N)	Pitch Diameter	Material	Drawing Link	
A32-5M15-SPBO-0625	\$87.00	32	5/8in	15mm	Yes	2.005in [50.93mm]	Aluminum with anodize finish	PDF	
A36-5M15-SPBO-0625	\$90.00	36				2.256in [57.3mm]		PDF	
A40-5M15-SPBO-0625	\$99.00	40				2.506in [63.65mm]		PDF	
A42-5M15-SPBO-0625	\$102.00	42				2.632in [66.85mm]		PDF	
A44-5M15-SPBO-0625	\$108.00	44				7/8in		2.757in [70.03mm]	PDF
A44-5M15-SPBO-0875	\$108.00							PDF	
A48-5M15-SPBO-0625	\$115.00	48				5/8in		3.008in [76.4mm]	PDF
A48-5M15-SPBO-0875	\$115.00					7/8in		PDF	
A60-5M15-SPBO-0625	\$141.00	60				5/8in		3.76in [95.5mm]	PDF
A60-5M15-SPBO-0875	\$141.00					7/8in			PDF
A60-5M15-SPBO-1125	\$141.00					1-1/8in			PDF
A72-5M15-SPBO-0625	\$170.00	72				5/8in		4.511in [114.58mm]	PDF
A72-5M15-SPBO-0875	\$170.00		7/8in			PDF			
A72-5M15-SPBO-1125	\$170.00		1-1/8in			PDF			
A84-5M15-SPBO-0625	\$217.00	84	5/8in			5.263in [133.68mm]		PDF	
A84-5M15-SPBO-0875	\$217.00		7/8in					PDF	
A84-5M15-SPBO-1125	\$217.00		1-1/8in					PDF	
A96-5M15-SPBO-0625	\$276.00	96	5/8in			6.015in [152.78mm]		PDF	
A96-5M15-SPBO-0875	\$276.00		7/8in					PDF	
A96-5M15-SPBO-1125	\$276.00		1-1/8in					PDF	
A120-5M15-SPBO-0625	\$372.00	120	5/8in			7.519in [190.98mm]		PDF	
A120-5M15-SPBO-0875	\$372.00		7/8in					PDF	
A120-5M15-SPBO-1125	\$372.00		1-1/8in					PDF	



Synchronous Drive Components

Product Overview



Timing Pulleys



Bushings

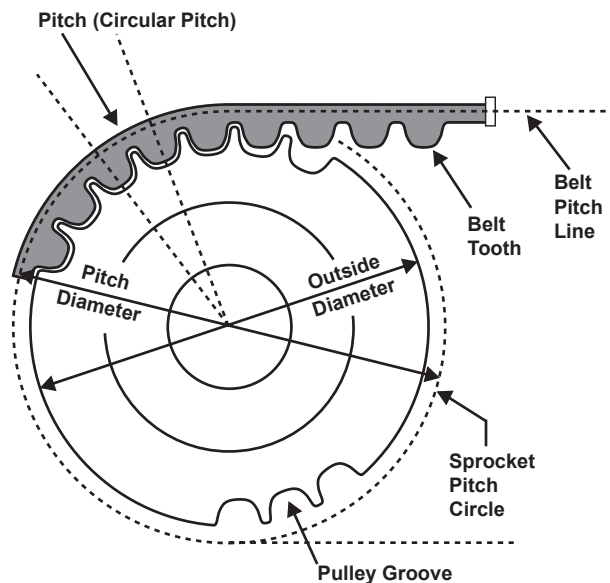


Timing Belts

Timing pulleys, bushings, and belts allow you to change speed and torque while connecting mechanically rotating components.

- Select pulley sizes in order to accomplish the speed or torque change that you need.
- Bushings allow you to connect the same pulleys to different sized shafts, or vice versa.
- Synchronous drive belts and pulleys utilize teeth to prevent slippage and unwanted speed variations.

Note: For pulley speeds in excess of 6,000 RPM, pulleys should be dynamically balanced.



Drive Component Selection

1. Determine required torque (ft·lbs) and rpm of driven shaft.
2. Determine design horsepower:

$$DHP = \frac{T \cdot N \cdot sf}{5,252}$$

Where: T = torque (ft·lb)
 N = rpm
 sf = service factor per table

Service Factors			
Machine Type	<8hr per day	8-16 hr per day	Continuous
Smooth Running	1.0	1.2	1.4
Light Shock Loads	1.3	1.5	1.7
Heavy Shock Loads	1.7	1.9	2.1

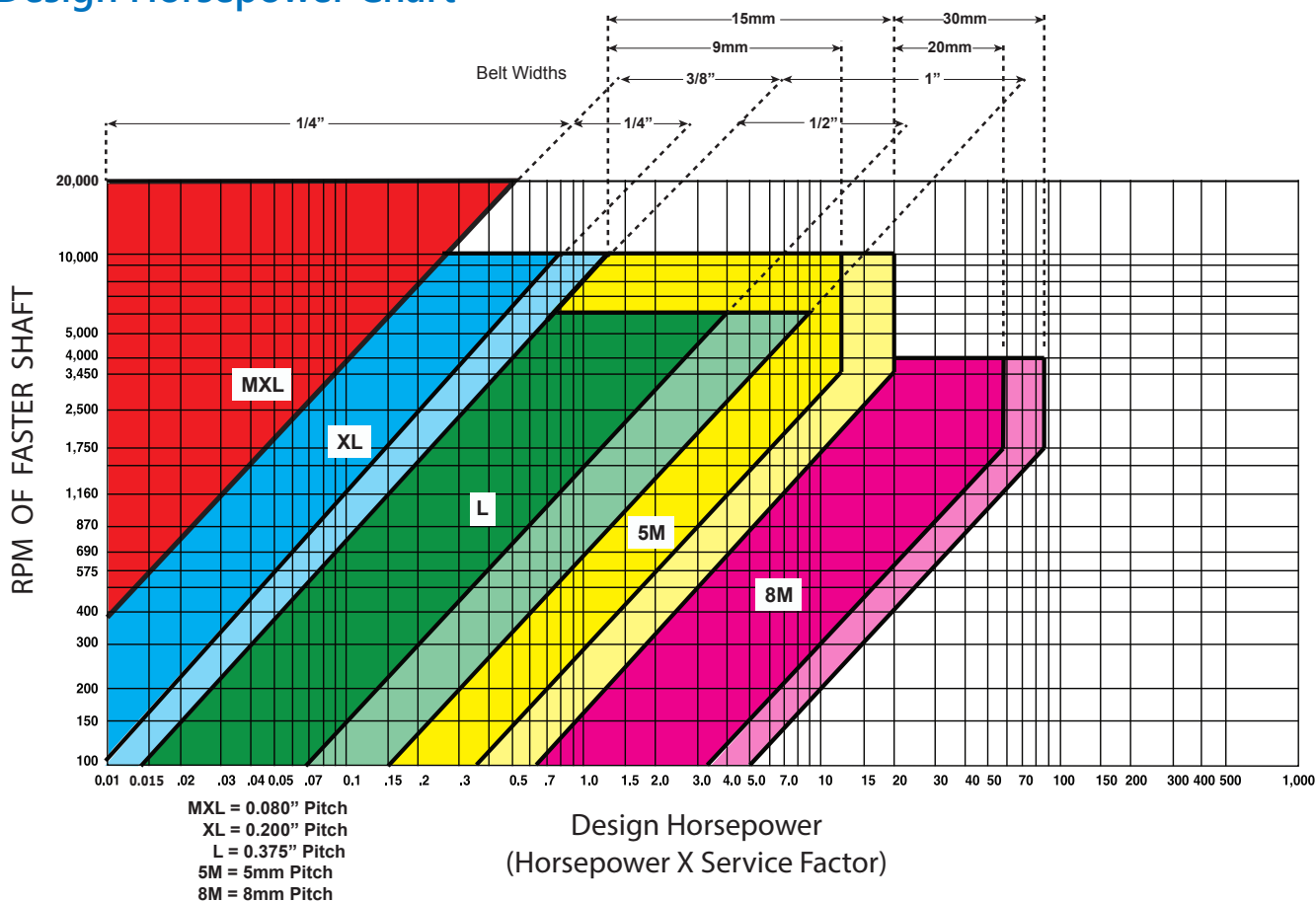
3. Determine Pitch (MXL XL or L) and belt width required by reading Design Horsepower Chart.
4. Select driver and driven pulleys to match desired speed or torque change.
5. Determine belt length per belt length calculation.

*Note: AutomationDirect provides an online configuration tool to assist with pulley and belt sizing.
 See: www.automationdirect.com/selectors/beltandpulley*

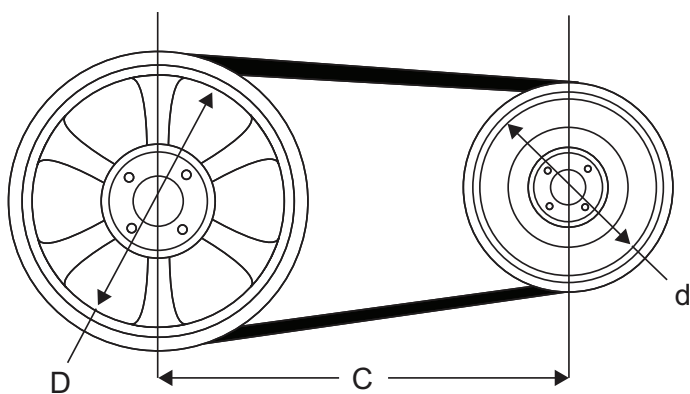


Synchronous Drive Components

Design Horsepower Chart



Drive Component Selection Continued



Belt Length Calculations

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

Where:

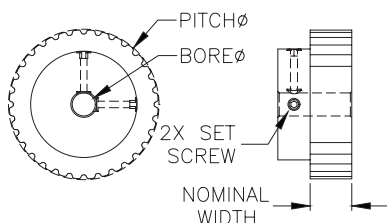
- L = Length of belt at pitch line (in inches)
- C = Center distance (in inches)
- D = Pitch diameter (in inches) of large sprocket
- d = Pitch diameter (in inches) of small sprocket



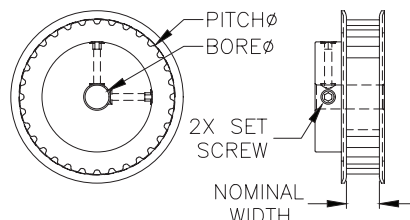
Synchronous Drive Components

MXL Synchronous Timing Belt Pulleys

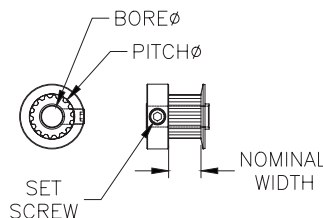
Also referred to as sprockets, SureMotion MXL timing pulleys have a 0.080 inch pitch and 1/4 inch width. Aluminum pulleys are available with a smooth bore and setscrews.



MXL Pulley with Hub, No Flange



MXL Pulley with Hub and Flange



MXL Pulley with Oversize Hub and Flange

Timing Belt Pulleys – Pitch Designation MXL; Plain Bore (With Hub)																			
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Material*	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Material*
APB10MXL025CF-125	\$15.00	0.1	10	0.25	Y	0.08	0.255	0.125	Al	APB28MXL025BF-250	\$17.50	0.1	28	0.25	Y	0.08	0.713	0.25	Al
APB11MXL025CF-125	\$14.50	0.1	11	0.25	Y	0.08	0.280	0.125	Al	APB30MXL025BF-250	\$19.00	0.1	30	0.25	Y	0.08	0.764	0.25	Al
APB12MXL025CF-125	\$15.00	0.1	12	0.25	Y	0.08	0.306	0.125	Al	APB32MXL025BF-250	\$19.00	0.1	32	0.25	Y	0.08	0.815	0.25	Al
APB14MXL025CF-125	\$16.00	0.1	14	0.25	Y	0.08	0.357	0.125	Al	APB36MXL025BF-250	\$19.00	0.1	36	0.25	Y	0.08	0.917	0.25	Al
APB15MXL025CF-188	\$16.00	0.1	15	0.25	Y	0.08	0.382	0.1875	Al	APB40MXL025BF-250	\$21.50	0.1	40	0.25	Y	0.08	1.019	0.25	Al
APB16MXL025CF-188	\$17.00	0.1	16	0.25	Y	0.08	0.407	0.1875	Al	APB42MXL025BF-250	\$23.00	0.1	42	0.25	Y	0.08	1.070	0.25	Al
APB18MXL025BF-188	\$17.00	0.1	18	0.25	Y	0.08	0.458	0.1875	Al	APB44MXL025BF-250	\$23.00	0.1	44	0.25	Y	0.08	1.120	0.25	Al
APB18MXL025CF-250	\$17.00	0.1	18	0.25	Y	0.08	0.458	0.25	Al	APB48MXL025BF-250	\$27.00	0.1	48	0.25	Y	0.08	1.222	0.25	Al
APB20MXL025BF-188	\$17.00	0.1	20	0.25	Y	0.08	0.509	0.1875	Al	APB60MXL025BF-250	Retired	0.1	60	0.25	Y	0.08	1.528	0.25	Al
APB20MXL025CF-250	\$17.50	0.1	20	0.25	Y	0.08	0.509	0.25	Al	APB60MXL025B-250	\$30.00	0.1	60	0.25	N	0.08	1.528	0.25	Al
APB21MXL025BF-188	\$17.00	0.1	21	0.25	Y	0.08	0.535	0.1875	Al	APB72MXL025B-250	\$32.00	0.1	72	0.25	N	0.08	1.833	0.25	Al
APB21MXL025CF-250	\$17.50	0.1	21	0.25	Y	0.08	0.535	0.25	Al	APB80MXL025B-312	\$38.50	0.1	80	0.25	N	0.08	2.037	0.3125	Al
APB22MXL025BF-188	\$17.00	0.1	22	0.25	Y	0.08	0.560	0.1875	Al	APB90MXL025B-312	\$43.50	0.1	90	0.25	N	0.08	2.292	0.3125	Al
APB22MXL025CF-250	Retired	0.1	22	0.25	Y	0.08	0.560	0.25	Al	APB100MXL025B-312	\$49.50	0.1	100	0.25	N	0.08	2.546	0.3125	Al
APB24MXL025BF-250	\$17.50	0.1	24	0.25	Y	0.08	0.611	0.25	Al	APB120MXL025B-375	\$57.00	0.1	120	0.25	N	0.08	3.056	0.375	Al
APB25MXL025BF-250	\$17.50	0.1	25	0.25	Y	0.08	0.637	0.25	Al										

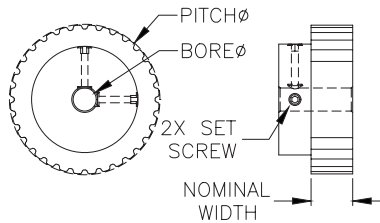
* Al = Aluminum with clear anodized finish; S = Steel



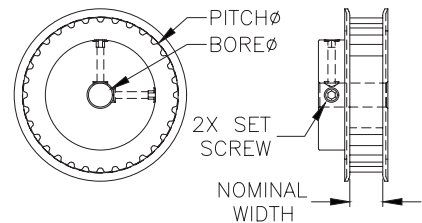
Synchronous Drive Components

XL Synchronous Timing Belt Pulleys

Also referred to as sprockets, SureMotion XL timing pulleys have a 1/5 inch pitch and 1/4 or 3/8 inch width. Both aluminum and steel pulleys are available with a smooth bore and setscrews.



XL Pulley with Hub, No Flange



XL Pulley with Hub and Flange

Timing Belt Pulleys – Pitch Designation XL; Plain Bore (With Hub)

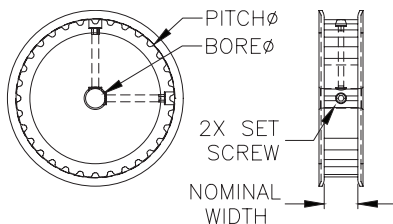
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*
APB10XL025BF-250	\$12.50	0.1	10	0.25	Y	0.20	0.637	0.25	0.25	Al	APB18XL037BF-250	\$17.50	0.1	18	0.375	Y	0.20	1.146	0.25	0.5625	Al
APB11XL025BF-250	\$14.50	0.1	11	0.25	Y	0.20	0.700	0.25	0.25	Al	APB19XL037BF-250	\$17.50	0.1	19	0.375	Y	0.20	1.210	0.25	0.5625	Al
APB12XL025BF-250	\$13.00	0.1	12	0.25	Y	0.20	0.764	0.25	0.3125	Al	APB20XL037BF-250	\$17.50	0.1	20	0.375	Y	0.20	1.273	0.25	0.6875	Al
APB13XL025BF-250	\$13.50	0.1	13	0.25	Y	0.20	0.828	0.25	0.3125	Al	APB21XL037BF-250	\$21.50	0.1	21	0.375	Y	0.20	1.337	0.25	0.6875	Al
APB14XL025BF-250	\$15.00	0.1	14	0.25	Y	0.20	0.891	0.25	0.375	Al	APB22XL037BF-250	\$23.00	0.1	22	0.375	Y	0.20	1.401	0.25	0.75	Al
APB15XL025BF-250	\$17.50	0.1	15	0.25	Y	0.20	0.955	0.25	0.4375	Al	APB23XL037BF-250	\$24.00	0.1	23	0.375	Y	0.20	1.464	0.25	0.75	Al
APB16XL025BF-250	\$17.50	0.1	16	0.25	Y	0.20	1.019	0.25	0.5	Al	APB24XL037BF-250	\$25.00	0.1	24	0.375	Y	0.20	1.528	0.25	0.8125	Al
APB18XL025BF-250	\$17.00	0.1	18	0.25	Y	0.20	1.146	0.25	0.5625	Al	APB25XL037BF-250	\$27.00	0.1	25	0.375	Y	0.20	1.592	0.25	0.8125	Al
APB20XL025BF-250	\$17.50	0.1	20	0.25	Y	0.20	1.273	0.25	0.6875	Al	APB26XL037BF-250	\$27.00	0.1	26	0.375	Y	0.20	1.655	0.25	0.8125	Al
APB21XL025BF-250	\$20.50	0.1	21	0.25	Y	0.20	1.337	0.25	0.6875	Al	APB28XL037BF-250	\$27.50	0.2	28	0.375	Y	0.20	1.783	0.25	0.9375	Al
APB22XL025BF-250	\$21.50	0.1	22	0.25	Y	0.20	1.401	0.25	0.75	Al	APB30XL037BF-250	\$30.50	0.2	30	0.375	Y	0.20	1.910	0.25	1.0625	Al
APB24XL025BF-250	\$23.00	0.1	24	0.25	Y	0.20	1.528	0.25	0.8125	Al	APB32XL037BF-312	\$30.50	0.2	32	0.375	Y	0.20	2.037	0.312	1.1875	Al
APB26XL025BF-250	\$25.00	0.1	26	0.25	Y	0.20	1.655	0.25	0.8125	Al	APB32XL037B-312	\$32.50	0.2	32	0.375	N	0.20	2.037	0.312	1.1875	Al
APB28XL025BF-250	\$27.50	0.1	28	0.25	Y	0.20	1.783	0.25	0.9375	Al	APB36XL037B-312	\$38.50	0.3	36	0.375	N	0.20	2.292	0.312	1.1875	Al
APB30XL025BF-250	\$30.50	0.2	30	0.25	Y	0.20	1.910	0.25	1.0625	Al	APB40XL037B-312	\$40.50	0.4	40	0.375	N	0.20	2.546	0.312	1.1875	Al
APB10XL037BF-250	\$13.00	0.1	10	0.375	Y	0.20	0.637	0.25	0.25	Al	APB42XL037B-312	\$41.00	0.4	42	0.375	N	0.20	2.674	0.312	1.1875	Al
APB11XL037BF-250	\$13.00	0.1	11	0.375	Y	0.20	0.700	0.25	0.25	Al	APB44XL037B-312	\$45.50	0.4	44	0.375	N	0.20	2.801	0.312	1.1875	Al
APB12XL037BF-250	\$13.50	0.1	12	0.375	Y	0.20	0.764	0.25	0.3125	Al	APB48XL037B-312	\$48.00	0.5	48	0.375	N	0.20	3.056	0.312	1.1875	Al
APB13XL037BF-250	\$14.50	0.1	13	0.375	Y	0.20	0.828	0.25	0.3125	Al	APB60XL037B-375	\$54.00	0.6	60	0.375	N	0.20	3.820	0.375	1.1875	Al
APB14XL037BF-250	\$15.00	0.1	14	0.375	Y	0.20	0.891	0.25	0.375	Al	APB72XL037B-375	\$59.00	0.9	72	0.375	N	0.20	4.584	0.375	1.1875	Al
APB15XL037BF-250	\$15.50	0.1	15	0.375	Y	0.20	0.955	0.25	0.4375	Al	SPB28XL037BF-250	\$32.50	0.5	28	0.375	Y	0.20	1.783	0.25	0.9375	S
APB16XL037BF-250	\$17.00	0.1	16	0.375	Y	0.20	1.019	0.25	0.5	Al	SPB30XL037BF-312	Retired	0.6	30	0.375	Y	0.20	1.910	0.312	1.0625	S
APB17XL037BF-250	\$17.50	0.1	17	0.375	Y	0.20	1.082	0.25	0.5	Al											

* Al = Aluminum with clear anodized finish; S = Steel



Synchronous Drive Components

XL Synchronous Timing Belt Pulleys Continued



**XL Pulley Hubless,
With Flange**

Timing Belt Pulleys – Pitch Designation XL; Hubless																					
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*
APB10XL037AF-250	\$14.50	0.1	10	0.375	Y	0.20	0.637	0.25	0.25	Al	APB20XL037AF-250	\$20.50	0.1	20	0.375	Y	0.20	1.273	0.25	0.6875	Al
APB11XL037AF-250	\$14.50	0.1	11	0.375	Y	0.20	0.700	0.25	0.25	Al	APB21XL037AF-250	\$21.50	0.1	21	0.375	Y	0.20	1.337	0.25	0.6875	Al
APB12XL037AF-250	\$14.50	0.1	12	0.375	Y	0.20	0.764	0.25	0.3125	Al	APB22XL037AF-250	\$23.00	0.1	22	0.375	Y	0.20	1.401	0.25	0.75	Al
APB14XL037AF-250	\$17.50	0.1	14	0.375	Y	0.20	0.891	0.25	0.375	Al	APB24XL037AF-250	\$24.00	0.1	24	0.375	Y	0.20	1.528	0.25	0.8125	Al
APB15XL037AF-250	\$17.50	0.1	15	0.375	Y	0.20	0.955	0.25	0.4375	Al	APB28XL037AF-250	\$27.50	0.1	28	0.375	Y	0.20	1.783	0.25	0.9375	Al
APB16XL037AF-250	\$17.50	0.1	16	0.375	Y	0.20	1.019	0.25	0.5	Al	APB30XL037AF-250	\$30.50	0.2	30	0.375	Y	0.20	1.910	0.25	1.0625	Al
APB18XL037AF-250	\$19.00	0.1	18	0.375	Y	0.20	1.146	0.25	0.5625	Al	APB32XL037AF-250	\$34.00	0.2	32	0.375	Y	0.20	2.037	0.25	1.1875	Al

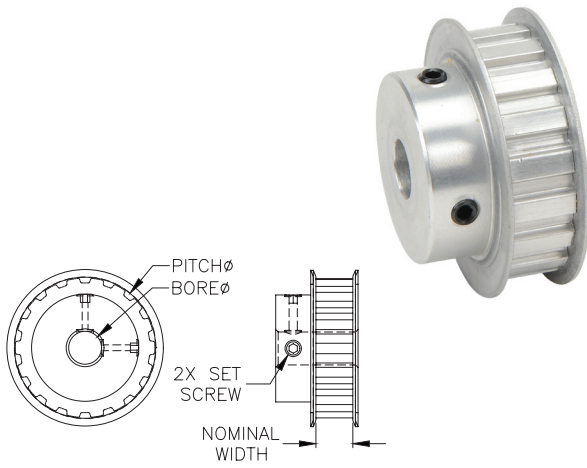
* Al = Aluminum with clear anodized finish; S = Steel



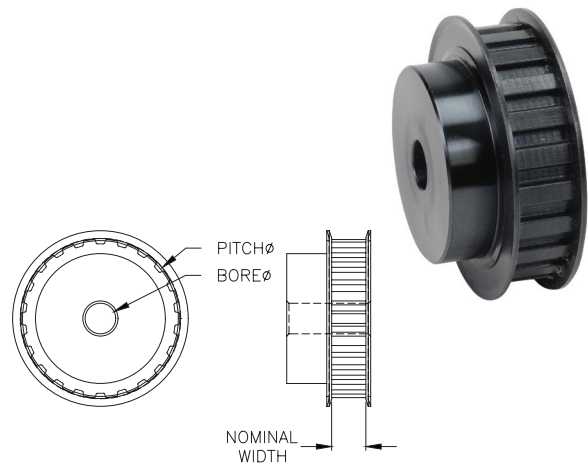
Synchronous Drive Components

L Synchronous Timing Belt Pulleys

Also referred to as sprockets, SureMotion L timing pulleys have a 3/8 inch pitch and 1/2 or 1 inch width. Aluminum pulleys are available with a smooth bore and setscrews. Steel plain bore pulleys require machining by the end user for desired shaft mounting (i.e. bore, keyway, setscrews). Steel pulleys also available to fit Taper-Lock or QD style drive bushings. Bushings sold separately.



L Pulley with Hub, Flange, and Setscrews



L Pulley with Hub, Flange, No Setscrews

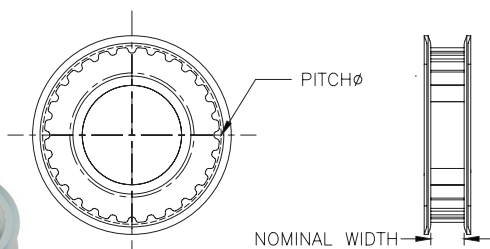
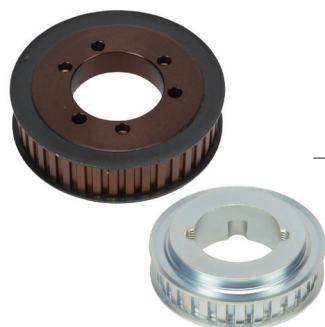
Timing Belt Pulleys – Pitch Designation L; Plain Bore (With Hub)																					
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	Bore Diameter	Max Bore Diameter	Material*
APB10L050BF-375	\$25.00	0.1	10	0.50	Y	0.375	1.194	0.375	0.5625	Al	SPB30L050BF-500	\$77.00	2.4	30	0.50	Y	0.375	3.581	0.50	1.625	S
APB12L050BF-375	\$27.50	0.2	12	0.50	Y	0.375	1.432	0.375	0.8125	Al	SPB32L050BF-500	\$78.00	2.8	32	0.50	Y	0.375	3.820	0.50	1.875	S
APB13L050BF-375	\$30.00	0.2	13	0.50	Y	0.375	1.552	0.375	0.8125	Al	SPB36L050BF-500	\$84.00	4.0	36	0.50	Y	0.375	4.297	0.50	1.875	S
APB14L050BF-375	\$31.00	0.2	14	0.50	Y	0.375	1.671	0.375	0.875	Al	SPB40L050BF-500	\$96.00	4.7	40	0.50	Y	0.375	4.775	0.50	1.875	S
APB15L050BF-375	\$37.00	0.3	15	0.50	Y	0.375	1.790	0.375	0.9375	Al	SPB14L100BF-375	\$34.00	0.8	14	1.0	Y	0.375	1.671	0.375	0.875	S
APB16L050BF-500	\$38.50	0.3	16	0.50	Y	0.375	1.910	0.50	1.125	Al	SPB16L100BF-500	\$39.50	1.1	16	1.0	Y	0.375	1.910	0.50	1.125	S
APB17L050BF-500	\$39.50	0.3	17	0.50	Y	0.375	2.029	0.50	1.125	Al	SPB18L100BF-500	\$50.00	1.4	18	1.0	Y	0.375	2.149	0.50	1.1875	S
APB18L050BF-500	\$40.50	0.4	18	0.50	Y	0.375	2.149	0.50	1.1875	Al	SPB20L100BF-500	\$57.00	1.7	20	1.0	Y	0.375	2.387	0.50	1.1875	S
APB19L050BF-500	\$50.00	0.4	19	0.50	Y	0.375	2.268	0.50	1.1875	Al	SPB22L100BF-625	\$64.00	2.1	22	1.0	Y	0.375	2.626	0.625	1.5	S
APB20L050BF-500	\$54.00	0.5	20	0.50	Y	0.375	2.387	0.50	1.25	Al	SPB24L100BF-625	\$68.00	2.4	24	1.0	Y	0.375	2.865	0.625	1.625	S
APB21L050BF-500	\$59.00	0.5	21	0.50	Y	0.375	2.507	0.50	1.3125	Al	SPB26L100BF-625	\$77.00	2.8	26	1.0	Y	0.375	3.104	0.625	1.625	S
APB22L050BF-500	\$64.00	0.6	22	0.50	Y	0.375	2.626	0.50	1.5	Al	SPB28L100BF-625	\$78.00	3.3	28	1.0	Y	0.375	3.342	0.625	1.875	S
APB24L050BF-500	\$79.00	0.7	24	0.50	Y	0.375	2.865	0.50	1.625	Al	SPB30L100BF-625	\$91.00	3.8	30	1.0	Y	0.375	3.581	0.625	1.875	S
SPB22L050BF-500	Retired	1.5	22	0.50	Y	0.375	2.626	0.50	1.5	S	SPB32L100BF-625	\$107.00	4.5	32	1.0	Y	0.375	3.820	0.625	1.875	S
SPB24L050BF-500	\$57.00	1.7	24	0.50	Y	0.375	2.865	0.50	1.625	S	SPB36L100BF-625	\$123.00	5.7	36	1.0	Y	0.375	4.297	0.625	1.875	S
SPB26L050BF-500	\$59.00	1.9	26	0.50	Y	0.375	3.104	0.50	1.625	S	SPB40L100BF-625	\$139.00	6.8	40	1.0	Y	0.375	4.775	0.625	1.875	S
SPB28L050BF-500	\$68.00	2.1	28	0.50	Y	0.375	3.342	0.50	1.625	S											

* Al = Aluminum with clear anodized finish; S = Steel



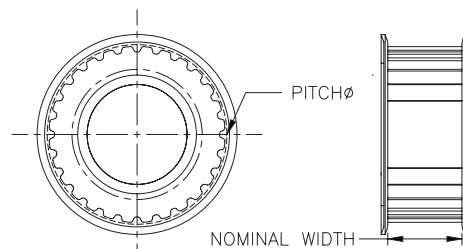
Synchronous Drive Components

L Synchronous Timing Belt Pulleys



QD bushing required per table below

SQD Pulley



TL bushing required per table below

STL Pulley

Timing Belt Pulleys – Pitch Designation L; Plain Bore (Without Hub)																			
Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	*QD Type Bushing Required	Material**	Part Number	Price	Weight (lb)	# Grooves (Teeth)	Nominal Width (in)	Flange (Y/N)	Pitch (in)	Pitch Diameter (in)	*Taper-Lock Bushing Required	Material**
SQD20L050AF-JA	\$54.00	0.6	20	0.50	Y	0.375	2.387	JA	S	STL20L050AF-1108	Retired	0.6	20	0.50	Y	0.375	2.387	1108	S
SQD20L100AF-JA	\$62.00	1.0	20	1.0	Y	0.375	2.387	JA	S	STL20L100AF-1108	\$78.00	0.8	20	1.0	Y	0.375	2.387	1108	S
SQD22L050AF-JA	\$56.00	0.8	22	0.50	Y	0.375	2.626	JA	S	STL22L050AF-1108	\$77.00	0.8	22	0.50	Y	0.375	2.626	1108	S
SQD22L100AF-JA	\$65.00	1.0	22	1.0	Y	0.375	2.626	JA	S	STL22L100AF-1108	\$82.00	1.2	22	1.0	Y	0.375	2.626	1108	S
SQD24L050AF-SH	\$56.00	0.6	24	0.50	Y	0.375	2.865	SH	S	STL24L050AF-1210	\$81.00	0.8	24	0.50	Y	0.375	2.865	1210	S
SQD24L100AF-SH	\$68.00	1.0	24	1.0	Y	0.375	2.865	SH	S	STL24L100AF-1210	\$85.00	1.1	24	1.0	Y	0.375	2.865	1210	S
SQD26L050AF-SH	\$57.00	0.9	26	0.50	Y	0.375	3.104	SH	S	STL26L050AF-1210	\$84.00	1.1	26	0.50	Y	0.375	3.104	1210	S
SQD26L100AF-SH	\$68.00	1.4	26	1.0	Y	0.375	3.104	SH	S	STL26L100AF-1210	\$98.00	1.4	26	1.0	Y	0.375	3.104	1210	S
SQD28L050AF-SH	\$60.00	1.1	28	0.50	Y	0.375	3.342	SH	DI	STL28L050AF-1210	\$87.00	1.5	28	0.50	Y	0.375	3.342	1210	DI
SQD28L100AF-SH	\$73.00	1.8	28	1.0	Y	0.375	3.342	SH	DI	STL28L100AF-1610	\$109.00	1.4	28	1.0	Y	0.375	3.342	1610	DI
SQD30L050AF-SDS	\$65.00	1.1	30	0.50	Y	0.375	3.581	SDS	DI	STL30L050AF-1610	\$91.00	1.3	30	0.50	Y	0.375	3.581	1610	DI
SQD30L100AF-SDS	\$78.00	1.9	30	1.0	Y	0.375	3.581	SDS	DI	STL30L100AF-1610	Retired	1.9	30	1.0	Y	0.375	3.581	1610	DI
SQD32L050AF-SDS	\$65.00	1.4	32	0.50	Y	0.375	3.820	SDS	DI	STL32L050AF-1610	\$96.00	1.7	32	0.50	Y	0.375	3.820	1610	DI
SQD32L100AF-SDS	\$84.00	2.3	32	1.0	Y	0.375	3.820	SDS	DI	STL32L100AF-1610	\$145.00	2.4	32	1.0	Y	0.375	3.820	1610	DI
SQD36L050AF-SDS	\$112.00	2.0	36	0.50	Y	0.375	4.297	SDS	DI	STL36L050AF-1610	\$125.00	2.3	36	0.50	Y	0.375	4.297	1610	DI
SQD36L100AF-SDS	\$129.00	2.6	36	1.0	Y	0.375	4.297	SDS	DI	STL36L100AF-1610	\$156.00	3.4	36	1.0	Y	0.375	4.297	1610	DI
SQD40L050AF-SDS	\$142.00	2.7	40	0.50	Y	0.375	4.775	SDS	DI	STL40L050AF-2012	\$148.00	3.2	40	0.50	Y	0.375	4.775	2012	DI
SQD40L100AF-SDS	\$148.00	3.5	40	1.0	Y	0.375	4.775	SDS	DI	STL40L100AF-2012	\$156.00	3.8	40	1.0	Y	0.375	4.775	2012	DI
SQD44L050AF-SDS	\$129.00	3.4	44	0.50	Y	0.375	5.252	SDS	DI	STL48L050AF-2012	\$180.00	5.5	48	0.50	Y	0.375	5.730	2012	DI
SQD44L100AF-SDS	\$149.00	4.3	44	1.0	Y	0.375	5.252	SDS	DI	STL48L100AF-2012	\$192.00	6.4	48	1.0	Y	0.375	5.730	2012	DI
SQD48L050AF-SDS	\$148.00	4.2	48	0.50	Y	0.375	5.730	SDS	DI	STL60L050AF-2012	\$260.00	6.4	60	0.50	N	0.375	7.162	2012	CI
SQD48L100AF-SDS	\$156.00	5.1	48	1.0	Y	0.375	5.730	SDS	DI	STL60L100AF-2012	\$294.00	11	60	1.0	N	0.375	7.162	2012	CI
SQD60L050AF-SD ***	\$153.00	5.5	60	0.50	Y	0.375	7.162	SD	CI	STL72L050AF-2012	\$268.00	8.9	72	0.50	N	0.375	8.594	2012	CI
SQD60L100AF-SD ***	\$159.00	6.6	60	1.0	Y	0.375	7.162	SD	CI	STL72L100AF-2012	\$306.00	12.0	72	1.0	N	0.375	8.594	2012	CI
SQD72L050AF-SD ***	\$156.00	8.5	72	0.50	Y	0.375	8.594	SD	CI	STL84L050AF-2517	\$292.00	16.1	84	0.50	N	0.375	10.027	2517	CI
SQD72L100AF-SD ***	\$173.00	7.3	72	1.0	Y	0.375	8.594	SD	CI	STL84L100AF-2517	\$331.00	12.2	84	1.0	N	0.375	10.027	2517	CI
SQD84L050AF-SD ***	Retired	11.9	84	0.50	Y	0.375	10.027	SD	CI										
SQD84L100AF-SD ***	\$170.00	9.4	84	1.0	Y	0.375	10.027	SD	CI										

* "QD" is a registered trademark of Emerson Electric, "Taper-Lock" (TL) is a registered trademark of Reliance Electric.

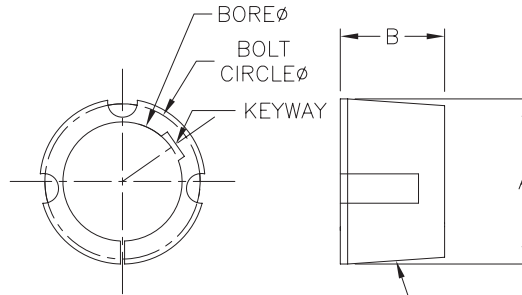
** S = Steel; DI = Ductile Iron; CI = Cast Iron

*** SQDxxxxxAF-SD pulleys do not have flanges.



Synchronous Drive Components

Taper-Lock®* Style Bushings



TAPER 0.75 INCHES PER 12 INCHES ON DIAMETER

Taper-Lock® Bushings													
Part Number	Price	Weight (lb)	Series	Torque Capacity (lb-in)	Bore Size (in)		Keyway (in)	Nominal Dimensions (in)			Mounting Screws		Material*
					Nominal	Max. with Shallow Keyseat		A	B	D (Bolt Circle)	#	Size	
TL-1108-0500	\$25.00	0.4	1108	1300	0.500	1.25	1/8	1.511	0.875	1.453	2	1/4 x 1/2	S
TL-1108-0625	\$22.00	0.3	1108	1300	0.625		3/16	1.511	0.875	1.453	2	1/4 x 1/2	S
TL-1108-0750	Retired	0.3	1108	1300	0.750		3/16	1.511	0.875	1.453	2	1/4 x 1/2	S
TL-1108-0875	\$22.00	0.3	1108	1300	0.875		3/16	1.511	0.875	1.453	2	1/4 x 1/2	S
TL-1108-1000	\$22.00	0.2	1108	1300	1.00		1/4	1.511	0.875	1.453	2	1/4 x 1/2	S
TL-1210-0625	\$25.50	0.6	1210	3600	0.625		3/16	1.875	1.0	1.750	2	3/8 x 5/8	S
TL-1210-0750	\$25.50	0.5	1210	3600	0.750		3/16	1.875	1.0	1.750	2	3/8 x 5/8	S
TL-1210-0875	\$25.50	0.6	1210	3600	0.875		3/16	1.875	1.0	1.750	2	3/8 x 5/8	S
TL-1210-1000	\$25.50	0.4	1210	3600	1.000		1/4	1.875	1.0	1.750	2	3/8 x 5/8	S
TL-1210-1125	\$25.50	0.4	1210	3600	1.125		1/4	1.875	1.0	1.750	2	3/8 x 5/8	S
TL-1610-0625	\$27.50	0.9	1610	4300	0.625		3/16	2.250	1.0	2.125	2	3/8 x 5/8	S
TL-1610-0750	\$27.50	0.9	1610	4300	0.750		3/16	2.250	1.0	2.125	2	3/8 x 5/8	S
TL-1610-0875	Retired	0.9	1610	4300	0.875		3/16	2.250	1.0	2.125	2	3/8 x 5/8	S
TL-1610-1000	\$27.50	0.8	1610	4300	1.000		1/4	2.250	1.0	2.125	2	3/8 x 5/8	S
TL-1610-1125	\$27.50	0.8	1610	4300	1.125		1/4	2.250	1.0	2.125	2	3/8 x 5/8	S
TL-1610-1250	\$27.50	0.7	1610	4300	1.250	1/4	2.250	1.0	2.125	2	3/8 x 5/8	S	
TL-1610-1375	\$27.50	0.6	1610	4300	1.375	5/16	2.250	1.0	2.125	2	3/8 x 5/8	S	
TL-2012-0750	\$38.50	1.8	2012	7150	0.750	2	3/16	2.750	1.250	2.625	2	7/16 x 7/8	S
TL-2012-0875	\$38.50	1.7	2012	7150	0.875		3/16	2.750	1.250	2.625	2	7/16 x 7/8	S
TL-2012-1000	\$38.50	1.6	2012	7150	1.000		1/4	2.750	1.250	2.625	2	7/16 x 7/8	S
TL-2012-1125	\$38.50	1.5	2012	7150	1.125		1/4	2.750	1.250	2.625	2	7/16 x 7/8	S
TL-2012-1250	\$38.50	1.5	2012	7150	1.250		1/4	2.750	1.250	2.625	2	7/16 x 7/8	S
TL-2012-1375	\$38.50	1.4	2012	7150	1.375		5/16	2.750	1.250	2.625	2	7/16 x 7/8	S
TL-2517-0875	\$62.00	3.8	2517	11600	0.875	2.5	3/16	3.375	1.750	3.250	2	1/2 x 1	S
TL-2517-1000	\$62.00	3.7	2517	11600	1.000		1/4	3.375	1.750	3.250	2	1/2 x 1	S
TL-2517-1125	\$62.00	3.5	2517	11600	1.125		1/4	3.375	1.750	3.250	2	1/2 x 1	S
TL-2517-1250	\$62.00	3.4	2517	11600	1.250		1/4	3.375	1.750	3.250	2	1/2 x 1	S
TL-2517-1375	\$62.00	3.3	2517	11600	1.375		5/16	3.375	1.750	3.250	2	1/2 x 1	S

*"Taper-Lock" is a registered trademark of Reliance Electric.

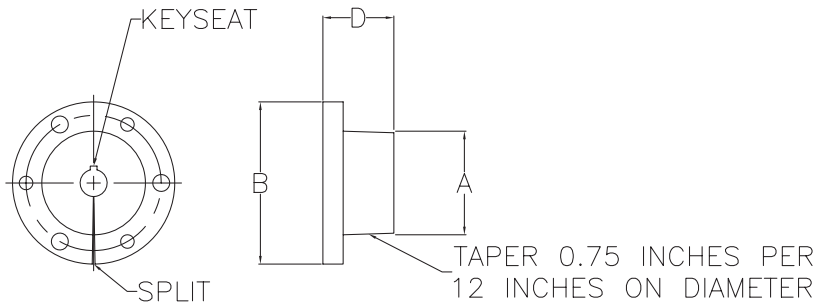
* S = Steel

Note: Stock bore sizes shown. Bushings may be re-bored up to the maximum size listed. Maximum bores may require a shallow keyway and rectangular key



Synchronous Drive Components

QD®* Style Bushings



QD® Bushings														
Part Number	Price	Weight (lb)	Series	Torque Capacity (lb-in)	Bore Size (in)		Keyway (in)	Dimensions (in)			Bolt Circle (in)	Cap Screws		Material*
					Nominal	Max. with Shallow Keyseat		A	B	D		#	Size	
QD-JA-0500	\$20.50	0.5	JA	1750	0.500	1-1/4	1/8	1.375	2.0	1.0	1.6563	3	#10 x 1	S
QD-JA-0625	\$19.00	0.5		1750	0.625	1-1/4	3/16	1.375	2.0	1.0	1.6563	3	#10 x 1	S
QD-JA-0750	\$19.00	0.4		1750	0.750	1-1/4	3/16	1.375	2.0	1.0	1.6563	3	#10 x 1	S
QD-JA-0875	\$19.00	0.4		1750	0.875	1-1/4	3/16	1.375	2.0	1.0	1.6563	3	#10 x 1	S
QD-SH-0500	\$27.50	1.3	SH	3500	0.500	1-5/8	1/8	1.871	2.6875	1.25	2.25	3	1/4 x 1-3/8	S
QD-SH-0625	\$27.50	1.2		3500	0.625	1-5/8	3/16	1.871	2.6875	1.25	2.25	3	1/4 x 1-3/8	S
QD-SH-0750	\$27.50	1.2		3500	0.750	1-5/8	3/16	1.871	2.6875	1.25	2.25	3	1/4 x 1-3/8	S
QD-SH-0875	\$27.50	1.2		3500	0.875	1-5/8	3/16	1.871	2.6875	1.25	2.25	3	1/4 x 1-3/8	S
QD-SH-1000	\$27.50	1.1		3500	1.000	1-5/8	1/4	1.871	2.6875	1.25	2.25	3	1/4 x 1-3/8	S
QD-SDS-0625	\$34.00	1.8	SDS	5000	0.625	1-15/16	3/16	2.1875	3.1875	1.3125	2.6875	3	1/4 x 1-3/8	S
QD-SDS-0750	\$34.00	1.8		5000	0.750	1-15/16	3/16	2.1875	3.1875	1.3125	2.6875	3	1/4 x 1-3/8	S
QD-SDS-0875	\$34.00	1.8		5000	0.875	1-15/16	3/16	2.1875	3.1875	1.3125	2.6875	3	1/4 x 1-3/8	S
QD-SDS-1000	\$34.00	1.6		5000	1.000	1-15/16	1/4	2.1875	3.1875	1.3125	2.6875	3	1/4 x 1-3/8	S
QD-SDS-1125	\$34.00	1.5		5000	1.125	1-15/16	1/4	2.1875	3.1875	1.3125	2.6875	3	1/4 x 1-3/8	S
QD-SD-0750	\$39.50	2.2	SD	5000	0.750	1-15/16	3/16	2.1875	3.1875	1.8125	2.6875	3	1/4 x 1-7/8	S
QD-SD-0875	\$39.50	2.1		5000	0.875	1-15/16	3/16	2.1875	3.1875	1.8125	2.6875	3	1/4 x 1-7/8	S
QD-SD-1000	\$39.50	2.0		5000	1.000	1-15/16	1/4	2.1875	3.1875	1.8125	2.6875	3	1/4 x 1-7/8	S
QD-SD-1125	\$39.50	1.9		5000	1.125	1-15/16	1/4	2.1875	3.1875	1.8125	2.6875	3	1/4 x 1-7/8	S
QD-SD-1250	\$39.50	1.8		5000	1.250	1-15/16	1/4	2.1875	3.1875	1.8125	2.6875	3	1/4 x 1-7/8	S

*QD® is a registered trademark of Emerson Electric.

* S = Steel

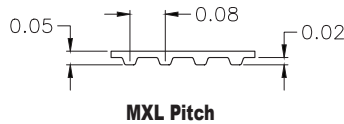
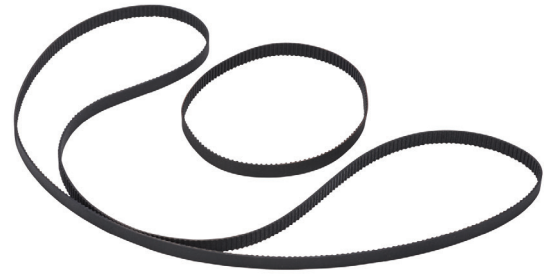
Note: Stock bore sizes shown. Bushings may be re-bored up the maximum size listed. Maximum bores may require a shallow keyway and rectangular key.



Synchronous Drive Belts (MXL)

Synchronous Drive Timing Belts Neoprene with Fiberglass Reinforcement

SureMotion timing belts are an excellent choice for many industrial applications. Belts are neoprene with fiberglass reinforcement. Neoprene belts have excellent resilience and are flame resistant.



xxMXL025NG Tensile Rating: 103 lbf [458 N]

Neoprene with Fiberglass Reinforcement Timing Belts															
Part Number	Price Per 3pc Pkg	Weight (lb)	# Teeth	Pitch Designation	Pitch (in)	Circumference (in)	Width (in)	External ID	listprice	Weight (lb)	# Teeth	Pitch Designation	Pitch (in)	Circumference (in)	Width (in)
36MXL025NG	\$12.50	0.1	36	MXL	0.08	2.88	0.25	85MXL025NG	\$13.00	0.1	85	MXL	0.08	6.80	0.25
40MXL025NG	\$12.50	0.1	40	MXL	0.08	3.20	0.25	87MXL025NG	\$13.00	0.1	87	MXL	0.08	6.96	0.25
42MXL025NG	\$12.50	0.1	42	MXL	0.08	3.36	0.25	88MXL025NG	\$13.50	0.1	88	MXL	0.08	7.04	0.25
44MXL025NG	\$12.50	0.1	44	MXL	0.08	3.52	0.25	90MXL025NG	\$13.50	0.1	90	MXL	0.08	7.20	0.25
45MXL025NG	\$12.50	0.1	45	MXL	0.08	3.60	0.25	91MXL025NG	\$13.50	0.1	91	MXL	0.08	7.28	0.25
47MXL025NG	\$12.50	0.1	47	MXL	0.08	3.76	0.25	95MXL025NG	\$13.50	0.1	95	MXL	0.08	7.60	0.25
48MXL025NG	\$12.50	0.1	48	MXL	0.08	3.84	0.25	98MXL025NG	\$13.50	0.1	98	MXL	0.08	7.84	0.25
50MXL025NG	\$12.50	0.1	50	MXL	0.08	4.00	0.25	100MXL025NG	\$13.50	0.1	100	MXL	0.08	8.00	0.25
52MXL025NG	\$12.50	0.1	52	MXL	0.08	4.16	0.25	101MXL025NG	\$13.50	0.1	101	MXL	0.08	8.08	0.25
53MXL025NG	\$12.50	0.1	53	MXL	0.08	4.24	0.25	104MXL025NG	\$13.50	0.1	104	MXL	0.08	8.32	0.25
54MXL025NG	\$12.50	0.1	54	MXL	0.08	4.32	0.25	106MXL025NG	\$13.50	0.1	106	MXL	0.08	8.48	0.25
55MXL025NG	\$12.50	0.1	55	MXL	0.08	4.40	0.25	112MXL025NG	\$13.50	0.1	112	MXL	0.08	8.96	0.25
56MXL025NG	\$12.50	0.1	56	MXL	0.08	4.48	0.25	115MXL025NG	\$14.50	0.1	115	MXL	0.08	9.20	0.25
57MXL025NG	\$12.50	0.1	57	MXL	0.08	4.56	0.25	120MXL025NG	\$14.50	0.1	120	MXL	0.08	9.60	0.25
58MXL025NG	\$12.50	0.1	58	MXL	0.08	4.64	0.25	122MXL025NG	\$14.50	0.1	122	MXL	0.08	9.76	0.25
59MXL025NG	\$12.50	0.1	59	MXL	0.08	4.72	0.25	124MXL025NG	\$14.50	0.1	124	MXL	0.08	9.92	0.25
60MXL025NG	\$12.50	0.1	60	MXL	0.08	4.80	0.25	130MXL025NG	\$14.50	0.1	130	MXL	0.08	10.40	0.25
61MXL025NG	\$12.50	0.1	61	MXL	0.08	4.88	0.25	132MXL025NG	\$14.50	0.1	132	MXL	0.08	10.56	0.25
62MXL025NG	\$12.50	0.1	62	MXL	0.08	4.96	0.25	134MXL025NG	\$14.50	0.1	134	MXL	0.08	10.72	0.25
63MXL025NG	\$13.00	0.1	63	MXL	0.08	5.04	0.25	136MXL025NG	\$17.00	0.1	136	MXL	0.08	10.88	0.25
64MXL025NG	\$13.00	0.1	64	MXL	0.08	5.12	0.25	140MXL025NG	\$15.00	0.1	140	MXL	0.08	11.20	0.25
65MXL025NG	\$13.00	0.1	65	MXL	0.08	5.20	0.25	146MXL025NG	\$15.00	0.1	146	MXL	0.08	11.68	0.25
67MXL025NG	\$13.00	0.1	67	MXL	0.08	5.36	0.25	150MXL025NG	\$15.00	0.1	150	MXL	0.08	12.00	0.25
68MXL025NG	\$13.00	0.1	68	MXL	0.08	5.44	0.25	156MXL025NG	\$19.00	0.1	156	MXL	0.08	12.48	0.25
69MXL025NG	\$13.00	0.1	69	MXL	0.08	5.52	0.25	160MXL025NG	\$15.00	0.1	160	MXL	0.08	12.80	0.25
70MXL025NG	\$13.00	0.1	70	MXL	0.08	5.60	0.25	166MXL025NG	\$15.00	0.1	166	MXL	0.08	13.28	0.25
72MXL025NG	\$13.00	0.1	72	MXL	0.08	5.76	0.25	170MXL025NG	\$15.00	0.1	170	MXL	0.08	13.60	0.25
74MXL025NG	\$13.00	0.1	74	MXL	0.08	5.92	0.25	177MXL025NG	\$19.00	0.1	177	MXL	0.08	14.16	0.25
75MXL025NG	\$13.00	0.1	75	MXL	0.08	6.00	0.25	180MXL025NG	\$17.00	0.1	180	MXL	0.08	14.40	0.25
76MXL025NG	\$13.00	0.1	76	MXL	0.08	6.08	0.25	184MXL025NG	\$17.00	0.1	184	MXL	0.08	14.72	0.25
80MXL025NG	\$13.00	0.1	80	MXL	0.08	6.40	0.25	192MXL025NG	\$17.00	0.1	192	MXL	0.08	15.36	0.25
81MXL025NG	\$13.00	0.1	81	MXL	0.08	6.48	0.25	195MXL025NG	\$17.00	0.1	195	MXL	0.08	15.60	0.25
82MXL025NG	\$13.00	0.1	82	MXL	0.08	6.56	0.25	200MXL025NG	\$17.00	0.1	200	MXL	0.08	16.00	0.25
84MXL025NG	\$13.00	0.1	84	MXL	0.08	6.72	0.25								



Synchronous Drive Belts (MXL)

Synchronous Drive Timing Belts Neoprene with Fiberglass Reinforcement

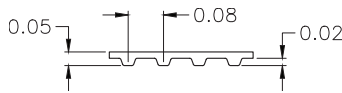
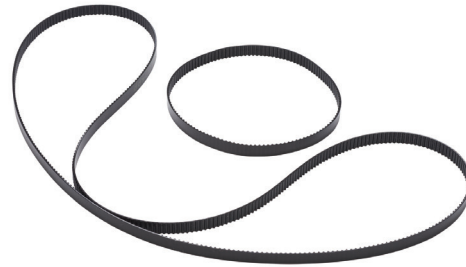
Neoprene with Fiberglass Reinforcement Timing Belts															
Part Number	Price Per 3pc Pkg	Weight (lb)	# Teeth	Pitch Designation	Pitch (in)	Circumference (in)	Width (in)	Part Number	Price Per 3pc Pkg	Weight (lb)	# Teeth	Pitch Designation	Pitch (in)	Circumference (in)	Width (in)
208MXL025NG	\$17.00	0.1	208	MXL	0.08	16.64	0.25	310MXL025NG	\$21.50	0.1	310	MXL	0.08	24.80	0.25
212MXL025NG	\$17.00	0.1	212	MXL	0.08	16.96	0.25	320MXL025NG	\$21.50	0.1	320	MXL	0.08	25.60	0.25
220MXL025NG	\$17.50	0.1	220	MXL	0.08	17.60	0.25	330MXL025NG	\$21.50	0.1	330	MXL	0.08	26.40	0.25
224MXL025NG	\$17.50	0.1	224	MXL	0.08	17.92	0.25	343MXL025NG	\$22.00	0.1	343	MXL	0.08	27.44	0.25
230MXL025NG	\$17.50	0.1	230	MXL	0.08	18.40	0.25	355MXL025NG	\$22.00	0.1	355	MXL	0.08	28.40	0.25
236MXL025NG	\$22.00	0.1	236	MXL	0.08	18.88	0.25	372MXL025NG	\$23.50	0.1	372	MXL	0.08	29.76	0.25
240MXL025NG	\$19.00	0.1	240	MXL	0.08	19.20	0.25	390MXL025NG	\$24.00	0.1	390	MXL	0.08	31.20	0.25
250MXL025NG	\$19.00	0.1	250	MXL	0.08	20.00	0.25	400MXL025NG	\$24.00	0.1	400	MXL	0.08	32.00	0.25
260MXL025NG	\$19.00	0.1	260	MXL	0.08	20.80	0.25	440MXL025NG	\$25.00	0.1	440	MXL	0.08	35.20	0.25
280MXL025NG	\$20.50	0.1	280	MXL	0.08	22.40	0.25	480MXL025NG	\$25.50	0.1	480	MXL	0.08	38.40	0.25
300MXL025NG	\$21.50	0.1	300	MXL	0.08	24.00	0.25	500MXL025NG	\$27.00	0.1	500	MXL	0.08	40.00	0.25



Synchronous Drive Belts (MXL)

Synchronous Drive Timing Belts Urethane with Polyester Reinforcement

SureMotion timing belts are an excellent choice for many industrial applications. Belts are urethane with polyester reinforcement. Urethane belts have excellent wear resistance as well as oil and ozone resistance.



MXL Pitch

xxMXL025PP Tensile Rating: 80 lbf [356 N]

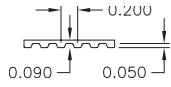
Urethane with Polyester Reinforcement Timing Belts															
Part Number	Price Per 3pc Pkg	Weight (lb)	# Teeth	Pitch Designation	Pitch (in)	Circumference (in)	Width (in)	Part Number	Price Per 3pc Pkg	Weight (lb)	# Teeth	Pitch Designation	Pitch (in)	Circumference (in)	Width (in)
36MXL025PP	\$23.50	0.1	36	MXL	0.08	2.88	0.25	106MXL025PP	\$23.50	0.1	106	MXL	0.08	8.48	0.25
40MXL025PP	\$23.50	0.1	40	MXL	0.08	3.20	0.25	112MXL025PP	\$24.00	0.1	112	MXL	0.08	8.96	0.25
45MXL025PP	\$22.00	0.1	45	MXL	0.08	3.60	0.25	115MXL025PP	\$21.50	0.1	115	MXL	0.08	9.20	0.25
48MXL025PP	\$17.50	0.1	48	MXL	0.08	3.84	0.25	120MXL025PP	\$21.50	0.1	120	MXL	0.08	9.60	0.25
50MXL025PP	\$17.50	0.1	50	MXL	0.08	4.00	0.25	122MXL025PP	\$21.50	0.1	122	MXL	0.08	9.76	0.25
52MXL025PP	\$22.00	0.1	52	MXL	0.08	4.16	0.25	130MXL025PP	\$21.50	0.1	130	MXL	0.08	10.40	0.25
54MXL025PP	\$17.50	0.1	54	MXL	0.08	4.32	0.25	132MXL025PP	\$22.00	0.1	132	MXL	0.08	10.56	0.25
55MXL025PP	\$17.50	0.1	55	MXL	0.08	4.40	0.25	140MXL025PP	\$22.00	0.1	140	MXL	0.08	11.20	0.25
56MXL025PP	\$22.00	0.1	56	MXL	0.08	4.48	0.25	150MXL025PP	\$22.00	0.1	150	MXL	0.08	12.00	0.25
58MXL025PP	\$22.00	0.1	58	MXL	0.08	4.64	0.25	156MXL025PP	\$27.50	0.1	156	MXL	0.08	12.48	0.25
59MXL025PP	\$22.00	0.1	59	MXL	0.08	4.72	0.25	160MXL025PP	\$23.50	0.1	160	MXL	0.08	12.80	0.25
60MXL025PP	\$17.50	0.1	60	MXL	0.08	4.80	0.25	170MXL025PP	\$23.50	0.1	170	MXL	0.08	13.60	0.25
61MXL025PP	\$22.00	0.1	61	MXL	0.08	4.88	0.25	180MXL025PP	\$24.00	0.1	180	MXL	0.08	14.40	0.25
62MXL025PP	\$22.00	0.1	62	MXL	0.08	4.96	0.25	184MXL025PP	\$17.50	0.1	184	MXL	0.08	14.72	0.25
64MXL025PP	\$17.50	0.1	64	MXL	0.08	5.12	0.25	195MXL025PP	\$25.00	0.1	195	MXL	0.08	15.60	0.25
65MXL025PP	\$17.50	0.1	65	MXL	0.08	5.20	0.25	200MXL025PP	\$25.00	0.1	200	MXL	0.08	16.00	0.25
68MXL025PP	\$22.00	0.1	68	MXL	0.08	5.44	0.25	212MXL025PP	\$17.50	0.1	212	MXL	0.08	16.96	0.25
70MXL025PP	\$17.50	0.1	70	MXL	0.08	5.60	0.25	220MXL025PP	\$45.00	0.1	220	MXL	0.08	17.60	0.25
75MXL025PP	\$17.50	0.1	75	MXL	0.08	6.00	0.25	230MXL025PP	\$25.00	0.1	230	MXL	0.08	18.40	0.25
76MXL025PP	\$17.50	0.1	76	MXL	0.08	6.08	0.25	236MXL025PP	\$35.00	0.2	236	MXL	0.08	18.88	0.25
80MXL025PP	\$17.50	0.1	80	MXL	0.08	6.40	0.25	240MXL025PP	\$35.00	0.1	240	MXL	0.08	19.20	0.25
81MXL025PP	\$25.50	0.1	81	MXL	0.08	6.48	0.25	250MXL025PP	\$17.50	0.2	250	MXL	0.08	20.00	0.25
82MXL025PP	\$17.50	0.1	82	MXL	0.08	6.56	0.25	260MXL025PP	\$49.50	0.1	260	MXL	0.08	20.80	0.25
84MXL025PP	\$23.50	0.1	84	MXL	0.08	6.72	0.25	280MXL025PP	\$35.00	0.2	280	MXL	0.08	22.40	0.25
85MXL025PP	\$19.00	0.1	85	MXL	0.08	6.80	0.25	300MXL025PP	\$37.00	0.1	300	MXL	0.08	24.00	0.25
87MXL025PP	\$19.00	0.1	87	MXL	0.08	6.96	0.25	310MXL025PP	\$49.50	0.2	310	MXL	0.08	24.80	0.25
88MXL025PP	\$19.00	0.1	88	MXL	0.08	7.04	0.25	320MXL025PP	\$49.50	0.1	320	MXL	0.08	25.60	0.25
90MXL025PP	\$19.00	0.1	90	MXL	0.08	7.20	0.25	330MXL025PP	\$49.50	0.2	330	MXL	0.08	26.40	0.25
91MXL025PP	\$19.00	0.1	91	MXL	0.08	7.28	0.25	390MXL025PP	\$27.00	0.1	390	MXL	0.08	31.20	0.25
95MXL025PP	\$19.00	0.1	95	MXL	0.08	7.60	0.25	400MXL025PP	\$42.00	0.2	400	MXL	0.08	32.00	0.25
100MXL025PP	\$19.00	0.1	100	MXL	0.08	8.00	0.25								



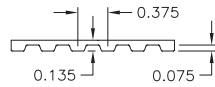
Synchronous Drive Belts (XL and L)

Synchronous Drive Timing Belts Neoprene with Fiberglass Reinforcement

SureMotion timing belts are an excellent choice for many industrial applications. Several pitches and widths are available to cover a wide range of power transmission requirements. Belts are neoprene with fiberglass reinforcement. Neoprene belts have excellent resiliences and are flame resistant.



XL Pitch



L Pitch

xxXL025NG Tensile Rating: 226 lbf [1005 N]
xxXL037NG Tensile Rating: 338 lbf [1503 N]
xxxL050NG Tensile Rating: 500 lbf [2224 N]
xxxL100NG Tensile Rating: 1000 lbf [4448 N]



Neoprene with Fiberglass Reinforcement Timing Belts															
Part Number	Price	Weight (lb)	# Teeth	Pitch Designation	Pitch (in)	Circumference (in)	Width (in)	External ID	Price	Weight (lb)	# Teeth	Pitch Designation	Pitch (in)	Circumference (in)	Width (in)
60XL025NG	\$3.50	0.1	30	XL	0.200	6	0.25	150L050NG	\$10.00	0.1	40	L	0.375	15	0.50
60XL037NG	\$5.00	0.1	30	XL	0.200	6	0.375	150L100NG	\$19.00	0.1	40	L	0.375	15	1.0
70XL037NG	\$5.00	0.1	35	XL	0.200	7	0.375	187L050NG	\$11.00	0.1	50	L	0.375	18.75	0.50
80XL025NG	\$4.00	0.1	40	XL	0.200	8	0.25	187L100NG	\$21.50	0.1	50	L	0.375	18.75	1.0
80XL037NG	\$5.00	0.1	40	XL	0.200	8	0.375	210L050NG	\$11.50	0.1	56	L	0.375	21	0.50
90XL025NG	\$4.00	0.1	45	XL	0.200	9	0.25	210L100NG	\$23.50	0.1	56	L	0.375	21	1.0
90XL037NG	\$5.75	0.1	45	XL	0.200	9	0.375	225L050NG	\$12.00	0.1	60	L	0.375	22.5	0.50
100XL025NG	\$4.00	0.1	50	XL	0.200	10	0.25	225L100NG	\$23.50	0.1	60	L	0.375	22.5	1.0
100XL037NG	\$5.00	0.1	50	XL	0.200	10	0.375	240L050NG	\$12.50	0.1	64	L	0.375	24	0.50
110XL025NG	\$4.00	0.1	55	XL	0.200	11	0.25	240L100NG	\$25.00	0.1	64	L	0.375	24	1.0
110XL037NG	\$5.00	0.1	55	XL	0.200	11	0.375	244L100NG	\$25.00	0.1	65	L	0.375	24.375	1.0
120XL037NG	\$6.75	0.1	60	XL	0.200	12	0.375	255L050NG	\$13.00	0.1	68	L	0.375	25.5	0.50
130XL025NG	\$4.25	0.1	65	XL	0.200	13	0.25	255L100NG	\$25.00	0.1	68	L	0.375	25.5	1.0
130XL037NG	\$6.75	0.1	65	XL	0.200	13	0.375	270L050NG	\$13.00	0.1	72	L	0.375	27	0.50
140XL025NG	\$4.25	0.1	70	XL	0.200	14	0.25	270L100NG	\$27.00	0.1	72	L	0.375	27	1.0
140XL037NG	\$6.75	0.1	70	XL	0.200	14	0.375	285L050NG	\$13.50	0.1	76	L	0.375	28.5	0.50
150XL025NG	\$4.25	0.1	75	XL	0.200	15	0.25	300L050NG	\$14.50	0.1	80	L	0.375	30	0.50
150XL037NG	\$6.75	0.1	75	XL	0.200	15	0.375	300L100NG	\$27.50	0.1	80	L	0.375	30	1.0
160XL025NG	\$4.25	0.1	80	XL	0.200	16	0.25	322L050NG	\$14.50	0.1	86	L	0.375	32.25	0.50
160XL037NG	\$7.25	0.1	80	XL	0.200	16	0.375	322L100NG	\$30.00	0.2	86	L	0.375	32.25	1.0
170XL025NG	\$4.50	0.1	85	XL	0.200	17	0.25	345L050NG	\$15.00	0.1	92	L	0.375	34.5	0.50
170XL037NG	\$7.25	0.1	85	XL	0.200	17	0.375	345L100NG	\$31.00	0.2	92	L	0.375	34.5	1.0
180XL037NG	\$7.25	0.1	90	XL	0.200	18	0.375	367L050NG	\$16.00	0.1	98	L	0.375	36.75	0.50
190XL025NG	\$4.50	0.1	95	XL	0.200	19	0.25	367L100NG	\$33.50	0.2	98	L	0.375	36.75	1.0
190XL037NG	\$7.50	0.1	95	XL	0.200	19	0.375	390L050NG	\$17.00	0.1	104	L	0.375	39	0.50
200XL025NG	\$4.50	0.1	100	XL	0.200	20	0.25	390L100NG	\$35.00	0.2	104	L	0.375	39	1.0
200XL037NG	\$7.50	0.1	100	XL	0.200	20	0.375	420L050NG	\$17.50	0.1	112	L	0.375	42	0.50
210XL037NG	\$7.50	0.1	105	XL	0.200	21	0.375	420L100NG	\$37.50	0.2	112	L	0.375	42	1.0
220XL037NG	\$8.00	0.1	110	XL	0.200	22	0.375	450L050NG	\$19.00	0.1	120	L	0.375	45	0.50
230XL025NG	\$5.00	0.1	115	XL	0.200	23	0.25	450L100NG	\$38.50	0.2	120	L	0.375	45	1.0
230XL037NG	\$7.75	0.1	115	XL	0.200	23	0.375	480L050NG	\$20.50	0.1	128	L	0.375	48	0.50
240XL037NG	\$7.75	0.1	120	XL	0.200	24	0.375	480L100NG	\$39.50	0.2	128	L	0.375	48	1.0
250XL025NG	\$5.00	0.1	125	XL	0.200	25	0.25	510L050NG	\$21.50	0.1	136	L	0.375	51	0.50
250XL037NG	\$8.50	0.1	125	XL	0.200	25	0.375	510L100NG	\$41.00	0.2	136	L	0.375	51	1.0
260XL025NG	\$5.00	0.1	130	XL	0.200	26	0.25	540L050NG	\$22.00	0.1	144	L	0.375	54	0.50
260XL037NG	\$8.50	0.1	130	XL	0.200	26	0.375	540L100NG	\$42.50	0.3	144	L	0.375	54	1.0
124L050NG	\$8.50	0.1	33	L	0.375	12.375	0.50	600L050NG	\$24.00	0.2	160	L	0.375	60	0.50
124L100NG	\$17.00	0.1	33	L	0.375	13.375	1.0	600L100NG	\$47.00	0.3	160	L	0.375	60	1.0



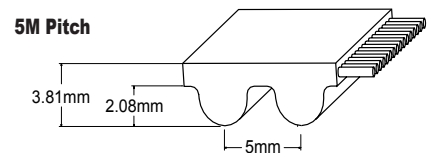
High Torque Drive Belts (5M)

High-Torque Drive Belts (5M Pitch)

Neoprene with Fiberglass Reinforcement

SureMotion High-Torque Drive belts are an excellent choice for drives requiring premium efficiency or synchronous operation and higher power capacity than trapezoidal timing belts. Use them on conveyors, industrial equipment, machine tools, hand power tools, and agricultural equipment where high power density is needed.

- Curvilinear tooth profile (compatible with HTD®)
- Compound: Chloroprene Belt Body, heat and ozone resistant; high tooth shear resistance
- Cord: Fiberglass Tensile Cord; high dimensional stability and maximum flexibility
- Tooth Cover: Nylon Tooth Cover; durability and wear resistance; increased power capacity
- Conforms to ARPM standard IP-27
- Temperature Range: -13°F/+185° (-25°C/+85°C)



xxx-5M-09-NG Tensile Rating: 645 lbf [2869 N]
xxx-5M-15-NG Tensile Rating: 1076 lbf [4786 N]

High Torque Drive Belts (5M)							
Part Number	Price	Weight (lb)	# Teeth	Pitch Designation	Pitch (mm)	Circumference (mm)	
<u>180-5M-09-NG</u>	\$9.50	0.03	36	5M	5	180	
<u>200-5M-09-NG</u>	\$10.00	0.03	40			200	
<u>225-5M-09-NG</u>	\$10.00	0.04	45			225	
<u>240-5M-09-NG</u>	\$10.50	0.04	48			240	
<u>275-5M-09-NG</u>	\$11.00	0.05	55			275	
<u>300-5M-09-NG</u>	\$11.50	0.05	60			300	
<u>325-5M-09-NG</u>	\$11.50	0.05	65			325	
<u>350-5M-09-NG</u>	\$12.00	0.05	70			350	
<u>375-5M-09-NG</u>	\$12.00	0.05	75			375	
<u>400-5M-09-NG</u>	\$12.50	0.05	80			400	
<u>425-5M-09-NG</u>	\$13.00	0.05	85			425	
<u>450-5M-09-NG</u>	\$13.00	0.05	90			450	
<u>465-5M-09-NG</u>	\$16.00	0.05	93			465	
<u>180-5M-15-NG</u>	\$13.50	0.05	36			15	180
<u>200-5M-15-NG</u>	\$14.50	0.05	40				200
<u>225-5M-15-NG</u>	\$14.50	0.05	45				225
<u>240-5M-15-NG</u>	\$15.00	0.05	48				240
<u>275-5M-15-NG</u>	\$17.00	0.05	55				275
<u>300-5M-15-NG</u>	\$17.00	0.05	60	300			
<u>325-5M-15-NG</u>	\$17.50	0.05	65	325			
<u>350-5M-15-NG</u>	\$18.50	0.05	70	350			
<u>375-5M-15-NG</u>	\$19.00	0.05	75	375			
<u>400-5M-15-NG</u>	\$19.00	0.05	80	400			
<u>425-5M-15-NG</u>	\$20.50	0.05	85	425			
<u>450-5M-15-NG</u>	\$21.50	0.05	90	450			
<u>465-5M-15-NG</u>	\$25.00	0.05	93	465			

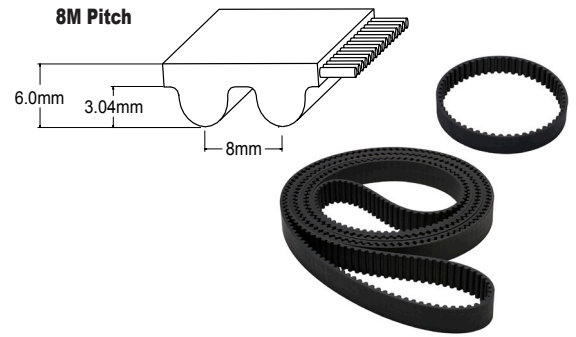


High Torque Drive Belts (8M)

High Torque Drive Belts (8M Pitch)

Neoprene with Fiberglass Reinforcement

SureMotion High-Torque Drive belts are an excellent choice for drives requiring premium efficiency or synchronous operation and higher power capacity than trapezoidal timing belts. Use them on conveyors, industrial equipment, machine tools, hand power tools, and agricultural equipment where high power density is needed.



- Curvilinear tooth profile (compatible with HTD®)
- Compound: Chloroprene Belt Body, heat and ozone resistant; high tooth shear resistance
- Cord: Fiberglass Tensile Cord; high dimensional stability and maximum flexibility
- Tooth Cover: Nylon Tooth Cover; durability and wear resistance; increased power capacity
- Conforms to ARPM standard IP-27
- Temperature Range: -13°F/+185° (-25°C/+85°C)

xxx-8M-20-NG Tensile Rating: 2023 lbf [8998 N]
xxx-8M-30-NG Tensile Rating: 3035 lbf [13500 N]

High Torque Drive Belts (8M)															
Part Number	Price	Weight (lb)	# Teeth	Pitch Designation	Pitch (mm)	Circumference (mm)	Width (mm)	Part Number	Price	Weight (lb)	# Teeth	Pitch Designation	Pitch (mm)	Circumference (mm)	Width (mm)
440-8M-20-NG	\$33.50	0.15	55	8M	8	440	20	440-8M-30-NG	\$47.00	0.2	55	8M	8	440	30
480-8M-20-NG	\$33.50	0.15	60			480-8M-30-NG		\$47.00	0.2	60					
520-8M-20-NG	\$39.00	0.15	65			520-8M-30-NG		\$54.00	0.2	65					
560-8M-20-NG	\$37.50	0.15	70			560-8M-30-NG		\$50.00	0.25	70					
600-8M-20-NG	\$39.00	0.15	75			600-8M-30-NG		\$54.00	0.25	75					
640-8M-20-NG	\$39.00	0.15	80			640-8M-30-NG		\$57.00	0.25	80					
720-8M-20-NG	\$42.00	0.2	90			720-8M-30-NG		\$60.00	0.3	90					
800-8M-20-NG	\$45.50	0.25	100			800-8M-30-NG		\$65.00	0.35	100					
840-8M-20-NG	\$47.00	0.25	105			840-8M-30-NG		\$66.00	0.35	105					
880-8M-20-NG	\$49.00	0.25	110			880-8M-30-NG		\$70.00	0.35	110					
920-8M-20-NG	\$49.00	0.25	115			920-8M-30-NG		\$70.00	0.4	115					
960-8M-20-NG	\$50.00	0.3	120			960-8M-30-NG		\$73.00	0.45	120					
1040-8M-20-NG	\$54.00	0.3	130			1040-8M-30-NG		\$79.00	0.45	130					
1064-8M-20-NG	\$54.00	0.3	133			1064-8M-30-NG		\$79.00	0.4	133					
1120-8M-20-NG	\$58.00	0.3	140			1120-8M-30-NG		\$82.00	0.45	140					
1160-8M-20-NG	\$58.00	0.35	145			1160-8M-30-NG		\$84.00	0.5	145					
1200-8M-20-NG	\$60.00	0.35	150			1200-8M-30-NG		\$87.00	0.5	150					
1224-8M-20-NG	\$62.00	0.35	153			1224-8M-30-NG		\$87.00	0.55	153					
1280-8M-20-NG	\$63.00	0.35	160			1280-8M-30-NG		\$91.00	0.5	160					
1440-8M-20-NG	\$68.00	0.35	180			1440-8M-30-NG		\$99.00	0.6	180					
1512-8M-20-NG	\$70.00	0.45	189			1512-8M-30-NG		\$101.00	0.65	189					
1584-8M-20-NG	\$75.00	0.4	198			1584-8M-30-NG		\$108.00	0.6	198					
1600-8M-20-NG	\$75.00	0.45	200			1600-8M-30-NG		\$108.00	0.65	200					
1760-8M-20-NG	\$81.00	0.45	220			1760-8M-30-NG		\$118.00	0.7	220					
1800-8M-20-NG	\$82.00	0.45	225			1800-8M-30-NG		\$119.00	0.7	225					
2000-8M-20-NG	\$90.00	0.55	250			2000-8M-30-NG		\$131.00	0.75	250					
2200-8M-20-NG	\$98.00	0.65	275			2200-8M-30-NG		\$142.00	1	275					
2400-8M-20-NG	\$105.00	0.7	300			2400-8M-30-NG		\$155.00	0.95	300					
2600-8M-20-NG	\$114.00	0.75	325			2600-8M-30-NG		\$165.00	1.15	325					
2800-8M-20-NG	\$122.00	0.85	350			2800-8M-30-NG		\$176.00	1.25	350					
3280-8M-20-NG	\$139.00	0.8	410	3280-8M-30-NG	\$198.00	1.4	410								
3600-8M-20-NG	\$155.00	1.15	450	3600-8M-30-NG	\$219.00	1.6	450								
4400-8M-20-NG	\$183.00	1.3	550	4400-8M-30-NG	\$261.00	2	550								