

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	\$42.00	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	\$53.00	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	\$58.00	32	5/8 in		51	48 [5.4]		0.030 [0.76]		11.1	2.45
DC-SBS38-1212	\$65.00	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	\$113.00	44	7/8 in		135	135 [15.3]		0.050 [1.27]		59.2	7.59
DC-SBS51-1616	\$132.00	51	1 in	3,750	205	180 [20.3]	0.025 [0.64]	0.060 [1.52]		115	11.26
DC-SBS63-2020	\$150.00	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-xxx hubs if different bore sizes are needed. (See page tPTR-33 for Bore Reducers.)

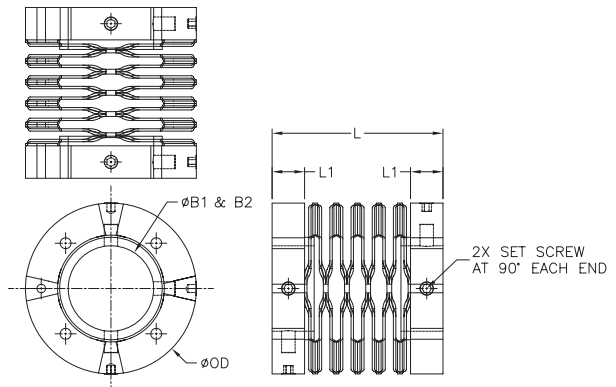
Dimensions (in [mm])

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]	0.75 [19.1]
25		1.00 [25.4]	0.345 [8.76]	0.500 [12.70]	1.00 [25.4]	1.00 [25.4]
32	M5x0.8	1.25 [31.6]	0.386 [9.80]	0.625 [15.88]	1.25 [31.6]	1.25 [31.6]
38		1.50 [38.1]	0.505 [12.83]	0.750 [19.05]	1.50 [38.1]	1.50 [38.1]
44		1.75 [44.5]	0.550 [13.97]	0.875 [22.23]	1.75 [44.5]	1.75 [44.5]
51		2.00 [50.8]	0.555 [14.10]	1.000 [25.40]	2.00 [50.8]	2.00 [50.8]
63	M6x1.0	2.50 [63.5]	0.615 [15.62]	1.250 [31.75]	2.50 [63.5]	2.50 [63.5]

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

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



Suremotion 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	\$7.00	1/4 in	0.250 in	1/8 in	0.125 in	0.221 in
DC-BRS04-04M	\$7.00			4mm	4mm	
DC-BRS04-03	\$7.00			3/16 in	0.1875 in	
DC-BRS04-05M	\$7.00			5mm	5mm	
DC-BRS08-06M	\$9.50	1/2 in	0.500 in	6mm	6mm	0.449 in
DC-BRS08-04	\$9.50			1/4 in	0.25 in	
DC-BRS08-05	\$9.50			5/16 in	0.3125 in	
DC-BRS08-08M	\$9.50			8mm	8mm	
DC-BRS08-06	\$9.50			3/8 in	0.375 in	
DC-BRS08-10M	\$9.50			10mm	10mm	
DC-BRS10-10M	\$10.75	5/8 in	0.625 in	10mm	10mm	0.460 in
DC-BRS10-07	\$10.75			7/16 in	0.4375 in	
DC-BRS10-12M	\$10.75			12mm	12mm	
DC-BRS10-08	\$10.75			1/2 in	0.5 in	
DC-BRS10-14M	\$10.75			14mm	14mm	
DC-BRS10-09	\$10.75			9/16 in	0.5625 in	
DC-BRS12-06	\$12.50	3/4 in	0.750 in	3/8 in	0.375 in	0.646 in
DC-BRS12-12M	\$12.50			12mm	12mm	
DC-BRS12-08	\$12.50			1/2 in	0.5 in	
DC-BRS12-10	\$12.50			5/8 in	0.625 in	
DC-BRS12-16M	\$12.50			16mm	16mm	
DC-BRS12-11	\$12.50			11/16 in	0.6875 in	
DC-BRS14-14M	\$13.75	7/8 in	0.875 in	14mm	14mm	0.755 in
DC-BRS14-10	\$13.75			5/8 in	0.625 in	
DC-BRS14-16M	\$13.75			16mm	16mm	
DC-BRS14-11	\$13.75			11/16 in	0.6875 in	
DC-BRS14-18M	\$13.75			18mm	18mm	
DC-BRS14-12	\$13.75			3/4 in	0.75 in	
DC-BRS16-10	\$14.25	1 in	1.000 in	5/8 in	0.625 in	0.773 in
DC-BRS16-18M	\$14.25			18mm	18mm	
DC-BRS16-12	\$14.25			3/4 in	0.75 in	
DC-BRS16-20M	\$14.25			20mm	20mm	
DC-BRS16-13	\$14.25			13/16 in	0.8125 in	
DC-BRS16-14	\$14.25			7/8 in	0.875 in	
DC-BRS20-22M	\$14.75	1-1/4 in	1.250 in	22mm	22mm	0.793 in
DC-BRS20-24M	\$14.75			24mm	24mm	
DC-BRS20-25M	\$14.75			25mm	25mm	
DC-BRS20-16	\$14.75			1 in	1.0 in	
DC-BRS20-17	\$14.75			1-1/16 in	1.0625 in	
DC-BRS20-18	\$14.75			1-1/8 in	1.125 in	