

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.



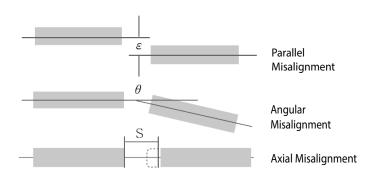
Design/Selection Factors:

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

- <u>RPM:</u> 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.

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



	Coupling	Type Comparisor	ns		
Coupling Type	Jaw / Spider	Double Loop	Oldham	Beam-Style Servo	
Representative Photo		E E			
Purpose	most common	light duty	general purpose	high performance & torque	
Hub Material	aluminum	stainless steel	aluminum	416 stainless steel	
Center Material	polyurethane	Hytrel™	Delrin™	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	\$\$	\$\$	\$	\$\$\$	



notion 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	/ Spi	der Alu	minum	Clamp	-Style Dri	ve Coupli	ng Hubs*		
		Size		May		Taraianal	Ma	ax Misalignmen	nt	Weight
Part Number*	Price	(mm)	Bore	Max RPM	Torque	Torsional Stiffness	Parallel (in [mm])	Axial (in [mm])	Angular	Weight (lb)
DC-JAC14-03	\$14.00		3/16in							
DC-JAC14-05M	\$14.00	14	5mm	27,280						0.039
DC-JAC14-06M	\$14.00	14	6mm	21,200						0.039
DC-JAC14-04	\$14.00		1/4in							
DC-JAC20-04	\$17.00	20	1/4in	19.040				0.030 [0.76]		0.058
DC-JAC20-05	\$17.75	20	5/16in	19,040			0.002 [0.05]		1.0°	0.056
DC-JAC30-05	\$26.00		5/16in							
DC-JAC30-08M	\$25.50		8mm							
DC-JAC30-06	\$26.00	30	3/8in	12,720						0.070
DC-JAC30-10M	\$26.00	30	10mm	12,720						0.070
DC-JAC30-12M	\$26.00		12mm		-					
DC-JAC30-08	\$26.00		1/2in			and torsional f the assembly				
DC-JAC40-08M	\$30.00		8mm		varies de	pending upon				
DC-JAC40-06	\$30.25		3/8in			iter "spider" is fer to the "Jaw		0.050 [1.27]	1.2°	
DC-JAC40-10M	\$30.25		10mm			Prive Coupling				
DC-JAC40-12M	\$30.25		12mm]	Spiders"table	e(pagetROT-21)				
DC-JAC40-08	\$30.50	40	1/2in	11,200		and torsional specifications.	0.008 [0.2]			0.145
DC-JAC40-14M	\$30.25		14mm		Sumess	specifications.	[0.2]			
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		5/8in					<u> </u>		
DC-JAC55-19M	\$30.50		19mm							
DC-JAC55-12	\$35.50	55	3/4in	8,480			0.009 [0.23]	0.060 [1.52]	0.9°	0.383
DC-JAC55-22M	\$35.00		22mm				[0.20]	[1.02]		
DC-JAC55-14	\$35.50		7/8in							
DC-JAC65-20	\$57.00	65	1-1/4in	6,800			0.009	0.060	0.9°	0.683
DC-JAC65-32M	\$57.00	00	32mm	0,800			[0.23]	[1.52]	0.9	0.083

^{*} 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.



notion Drive Couplings

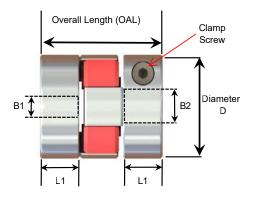
Jaw/Spider Clamp-Style Coupling Spiders

						<u> </u>		
		Jav	v / Spider	Drive	Couplin	g Spidei	' S*	
Dort Number*	Drice	Cizo	Duromotor	Color	To	rque (Ib·in [N·	·m])	Torsional Stiffness
Part Number*	Price	Size	Durometer	Color	Rated	Мах	Reversing**	(lb·in/rad [Nm/rad)
DC-JS14-80A	\$8.00		80A	blue	6 [0.7]	12 [1.4]		71 [8]
DC-JS14-92A	\$8.00	14	92A	white	11 [1.2]	21 [2.4]	2 [0.2]	124 [14]
DC-JS14-98A	\$8.00		98A	red	18 [2.0]	35 [4.0]		195 [22]
DC-JS20-80A	\$11.25		80A	blue	16 [1.8]	32 [3.6]		142 [16]
DC-JS20-92A	\$12.00	20	92A	white	27 [3.1]	53 [6.0]	4 [0.5]	257 [29]
DC-JS20-98A	\$11.50		98A	red	44 [5.0]	89 [10.1]		487 [55]
DC-JS30-80A	\$13.00		80A	blue	35 [4.0]	71 [8.0]	9 [1.0]	407 [46]
DC-JS30-92A	\$13.25	30	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		80A	blue	43 [4.9]	86 [9.7]	11 [1.2]	3363 [380]
DC-JS40-92A	\$14.50	40	92A	white	88 [9.9]	177 [20.0]	23 [2.6]	5045 [570]
DC-JS40-98A	\$14.50		98A	red	150 [16.9]	300 [33.9]	39 [4.4]	10621 [1200]
DC-JS55-80A	\$16.00		80A	blue	151 [17.1]	301 [34.0]	39 [4.4]	12391 [1400]
DC-JS55-92A	\$16.00	55	92A	white	310 [35.0]	620 [70.1]	80 [9.0]	14161 [1600]
DC-JS55-98A	\$16.00		98A	red	530 [59.9]	1060 [119.8]	142 [16.0]	23012 [2600]
DC-JS65-80A	\$20.50		80A	blue	407 [46.0]	814 [92.0]	106 [12.0]	24782 [2800]
DC-JS65-92A	\$20.50	65	92A	white	840 [94.9]	1680 [189.8]	221 [25.0]	26552 [3000]
DC-JS65-98A	\$20.50		98A	red	1415 [159.9]	2830 [319.7]	381 [43.0]	43369 [4900]



Dimensions (in [mm])

Jaw / Spider	Drive C	oupling
Hub Bore	Dimens i	ions
Hubs	Sizes	ØВ
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	Jaw / Spider Aluminum Clamp-Style Drive Coupling Assembly Dimensions*										
Size	Components	Clamp	L1	OAL	D						
UIZE	Сотронена	Screw	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.

^{*} 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.



notion Drive Couplings

Double Loop Couplings

	Dou	ble I	Loop	Stainl	ess Steel Dri	ve Coup	lings		
				Max	Max Torque @	Ma	Wainbi		
Part Number	Price	Size	Bore	rpm	Max Displacement ([lb·in] N·m)	Radial ([in] mm)	Axial ([in] mm)	Angular (°)	Weight (lb)
DC-DLSS10-02	\$44.00		1/8 in						
DC-DLSS10-03	\$44.00		3/16 in						
DC-DLSS10-06M	\$44.00	10	6mm		[4.4] 0.5	[0.10] 2.6	[0.18] 4.5	10	0.06
DC-DLSS10-04	\$44.00		1/4 in		[4.4] 0.0	[0.10] 2.0	[0.10] 4.3	10	0.06
DC-DLSS10-05	\$43.00		5/16 in						
DC-DLSS10-08M	\$42.00		8mm						
DC-DLSS20-04	\$49.00		1/4 in	3,000					
DC-DLSS20-05	\$49.00		5/16 in		[15.9] 1.8				
DC-DLSS20-08M	\$49.00	20	8mm				[0.30] 7.5		0.20
DC-DLSS20-06	\$49.00	20	3/8 in				[0.00] 7.0		0.20
DC-DLSS20-12M	\$49.00		12mm						
DC-DLSS20-08	\$49.00		1/2 in						
DC-DLSS30-12M	\$55.00		12mm			IO 121 2 2		15	
DC-DLSS30-08	\$55.00	30	1/2 in		[44.3] 5.0	[0.13] 3.2	IU 331 0 E	15	0.27
DC-DLSS30-14M	\$55.00	30	14mm		[44.3] 3.0		[0.33] 8.5		0.21
DC-DLSS30-10	\$55.00		5/8 in						
DC-DLSS40-08	\$60.50		1/2 in						
DC-DLSS40-14M	\$60.50	40	14mm		F00 E1 10 0		10 421 44 0		0.30
DC-DLSS40-10	\$60.50	40	5/8 in		[88.5] 10.0		[0.43] 11.0		0.30
DC-DLSS40-16M	\$60.50		16mm						

Features

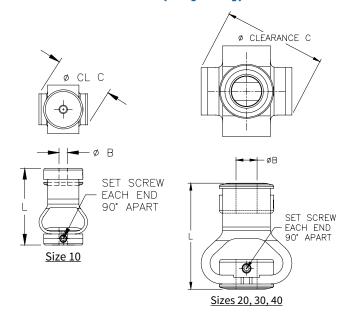
- High torsional rigidity
- One-piece design
- Hubs made of series 300 stainless steel
- Double loop made of DuPont HytrelTM
- Corrosion protection
- Outstanding resistance to acids, alkalis, solvents, oils, grease, ozone
- Wide operating temperature range: -40 to 100 °C (-40 to 212 °F)
- Electrical 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



Dimensions (in [mm])



Double Loop S		ess St nensio		Coupl	ing		
Part Number	Size	Set	ØB	ØC	L		
Turt Number	UIZU	Screw	, DD	(in [ı	mm])		
DC-DLSS10-02			1/8 in				
DC-DLSS10-03			3/16 in				
DC-DLSS10-06M	10	М3	6mm	1.06	126 01		
DC-DLSS10-04	10	IVIO	1/4 in	1.06 [26.9]			
DC-DLSS10-05			5/16 in				
DC-DLSS10-08M			8mm				
DC-DLSS20-04			1/4 in				
DC-DLSS20-05			5/16 in	1.89 [48.0]			
DC-DLSS20-08M	20	M4	8mm				
DC-DLSS20-06	20		3/8 in				
DC-DLSS20-12M			12mm				
DC-DLSS20-08			1/2 in				
DC-DLSS30-12M			12mm				
DC-DLSS30-08	30	M5	1/2 in	2.13	2.17		
DC-DLSS30-14M	30	IVIO	14mm	[54.1]	[55.1]		
DC-DLSS30-10			5/8 in				
DC-DLSS40-08			1/2 in				
DC-DLSS40-14M	40	M6	14mm	2.20	2.20		
DC-DLSS40-10	40	OIVI	5/8 in	[55.9]	[55.9]		
DC-DLSS40-16M			16mm				

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



Oldham Drive Couplings



Features

- Large radial misalignment capability
- Hubs made of aluminum 2011 T8
- Center discs made of DelrinTM
- 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

		Oldi	nam Al	uminı	ım Cla	mp-Style	Drive Co	oupling Hu	ıbs*		
Part Number*	Price	Size	Bore	Max		orque n [N·m])		Max Offset		Moment of Inertia	Weight
Fait Number	riice	3126	Duie	rpm	Peak	Static Break	Radial (in [mm])	Axial (in [mm])	Angular (°)	(lb·in·s²x10⁻⁵)	(lb)
DC-DAC19-05M	\$19.50		5mm								0.032
DC-DAC19-04	\$19.50	19	1/4 in		15 [1.7]	71 [8.0]			1.5	0.518	0.032
DC-DAC19-08M	\$19.50		8mm					0.004 [0.1]			0.033
DC-DAC25-04	\$26.50		1/4 in	_							0.055
DC-DAC25-08M	\$26.50		8mm						_		0.054
DC-DAC25-06	\$26.50	25	3/8 in		35 [4.0]	115 [13.0]	0.016			2.23	0.050
DC-DAC25-10M	\$26.50		10mm								0.050
DC-DAC25-12M	\$26.50		12mm				[0.41]				0.051
DC-DAC33-06	\$38.00		3/8 in								0.097
DC-DAC33-10M	\$28.00		10mm								0.095
DC-DAC33-12M	\$38.00		12mm								0.095
DC-DAC33-08	\$38.00	33	1/2 in		80 [9.0]	465 [52.5]				10.0	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					0.006 [0.15]			0.087
DC-DAC41-08	\$41.50		1/2 in								0.186
DC-DAC41-14M	\$42.00		14mm 3,000							0.181	
DC-DAC41-10	\$41.75	41	5/8 in		150	500 [56.5]		3	3	28.1	0.177
DC-DAC41-16M	\$42.00	-7'	16mm		[16.9]	300 [30.3]					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		1/2 in								0.260
DC-DAC50-14M	\$86.00		14mm								0.255
DC-DAC50-10	\$86.00		5/8 in		265		0.020				0.249
DC-DAC50-16M	\$86.00	50	16mm		265 [29.9]	840 [94.9]	[0.51]			66.7	0.244
DC-DAC50-19M	\$86.00		19mm		[_5.0]						0.238
DC-DAC50-12	\$86.00		3/4 in					0.008 [0.2]			0.233
DC-DAC50-16	\$86.00		1in					0.000 [0.2]			0.227
DC-DAC57-10	\$94.00		5/8 in								0.457
DC-DAC57-16M	\$94.00		16mm		200						0.439
DC-DAC57-19M	\$94.00	57	19mm		390 [44.1]	1325 [149.7]				109.7	0.422
DC-DAC57-12	\$94.00		3/4 in		[1]					100.7	0.404
DC-DAC57-16	\$94.00		1in								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.



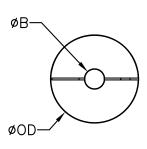
Oldham Drive Couplings

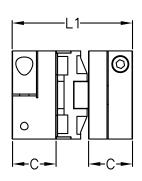


Oldham Aluminum Clamp-Style Drive Coupling Torque Discs*									
Part Number *	Price	Size	Color						
DC-DDS19	\$2.25	19							
DC-DDS25	\$4.75	25							
DC-DDS33	\$8.00	33	hlasi.						
DC-DDS41	\$10.00	41	black						
DC-DDS50	\$23.00	50							
DC-DDS57	\$32.00	57							

^{*} 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 A	luminum Di	rive		
Coupling Hub	Bore Dime	nsions		
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		

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

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

^{**} 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



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

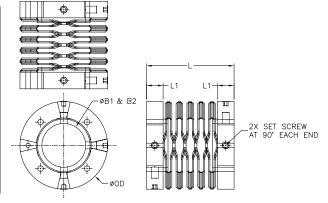
	Beam-Style Servo Stainless Steel* Set-Screw Drive Coupling Hubs													
		e Size		Max	Torsional	Max Torque	Ма	x Misalignme	nt	Moment of Inertia	Weight			
	Price		Bore**	rpm	Stiffness (lb·in/°)	(lb·in [N·m])	Radial (in [mm])	Axial (in [mm])	Angular (°)	(lb·in·s²x10-5)	(OZ)			
DC-SBS19-0404	\$99.00	19	1/4 in	10,000	11	12 [1.4]	0.010 [0.25]	0.020 [0.51]		0.86	0.84			
DC-SBS25-0808	\$122.00	25	1/2 in	7 500	27	24 [2.7]	0.045 (0.30)	0.025 [0.64]	7	3.75	1.60			
DC-SBS32-1010	\$134.00	32	5/8 in	7,500	51	48 [5.4]	0.015 [0.38]	0.000 (0.70)		11.1	2.45			
DC-SBS38-1212	\$154.00	38	3/4 in	F 000	89	75 [8.5]	0 000 10 541	0.030 [0.76]		28.2	4.94			
DC-SBS44-1414	\$264.00	44	7/8 in	5,000	135	135 [15.3]	0.020 [0.51]	0.040 [1.02]	59.2	7.59				
DC-SBS51-1616	\$308.00	51	1in	2.750	205	180 [20.3]	0.005 10.041	0.050 [1.27]		115	11.26			
DC-SBS63-2020	\$354.00	63	1-1/4 in	3,750	395	300 [33.9]	0.025 [0.64]	0.060 [1.52]		349	18.67			

^{*} Hubs are 416 stainless; flex beams are 420 stainless.

Dimensions (in [mm])

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



^{**} 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.)



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		Lameth
		Nominal	Actual	Nominal	Actual	Length
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	1in	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			1in	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	