

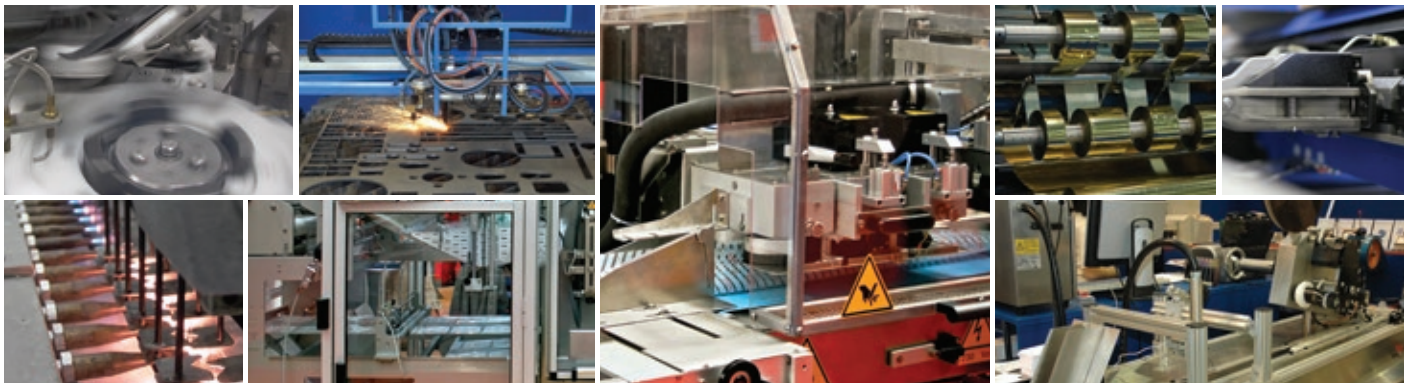
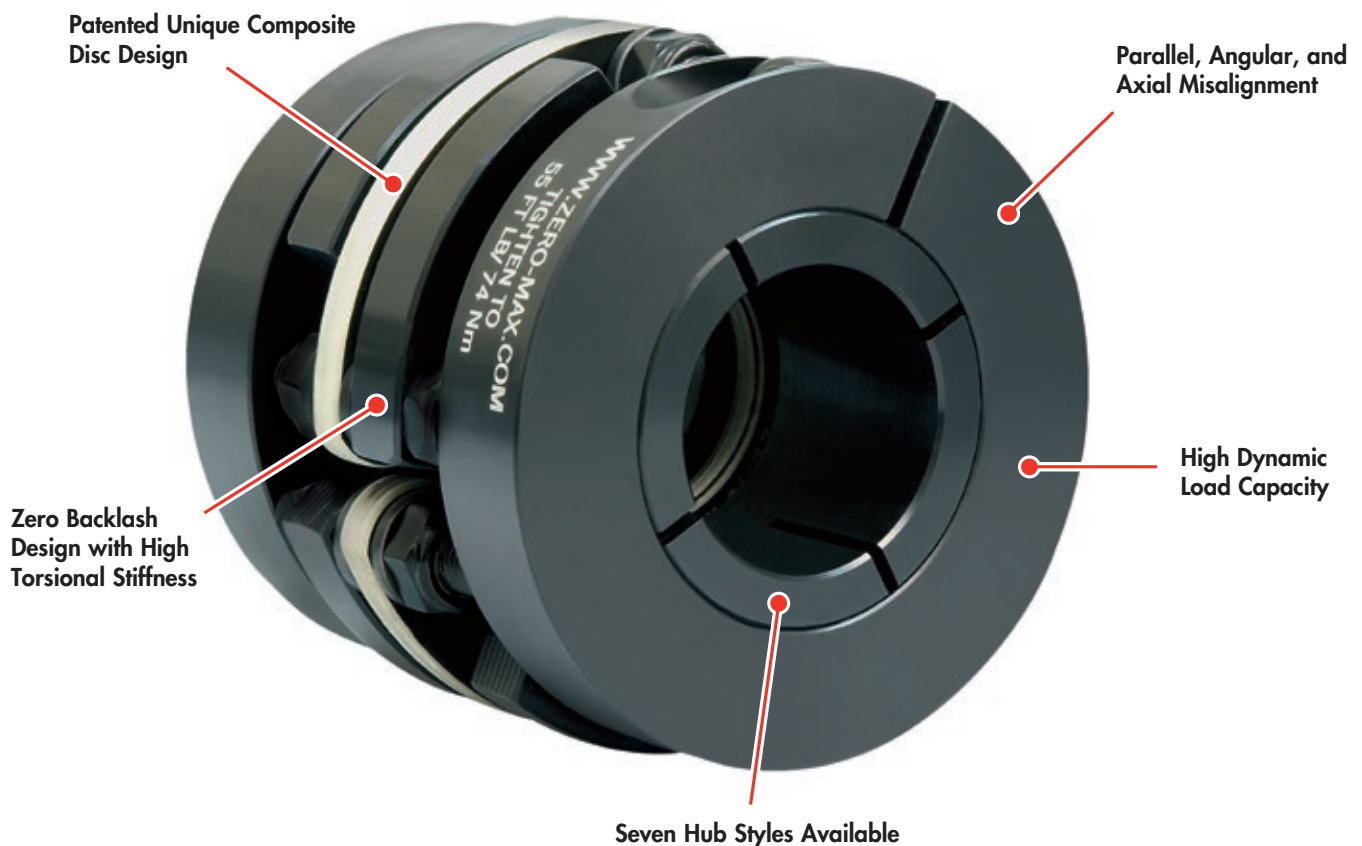
////// ZERO-MAX®

CD® Couplings



CD® Couplings for the Most Challenging Motion Applications

- For today's most demanding servo motor and motion control applications. CD Couplings are **precise, robust,** and **available** in sizes and models for every application
- **Zero Backlash** for use in precision applications
- High **torsional stiffness** and high **dynamic load capacity** ensure reliable machine operation
- **Precise** positioning under **high speed** reversing loads without fatigue for reliable 24/7 operation
- Unique patented Composite Disc design provides **high misalignment capacity** and **long operational life**
- **Clamp style hub** designs provide a **superior** method of shaft attachment
- Eco-Friendly, adapted to **RoHS** Directive with no banned substances

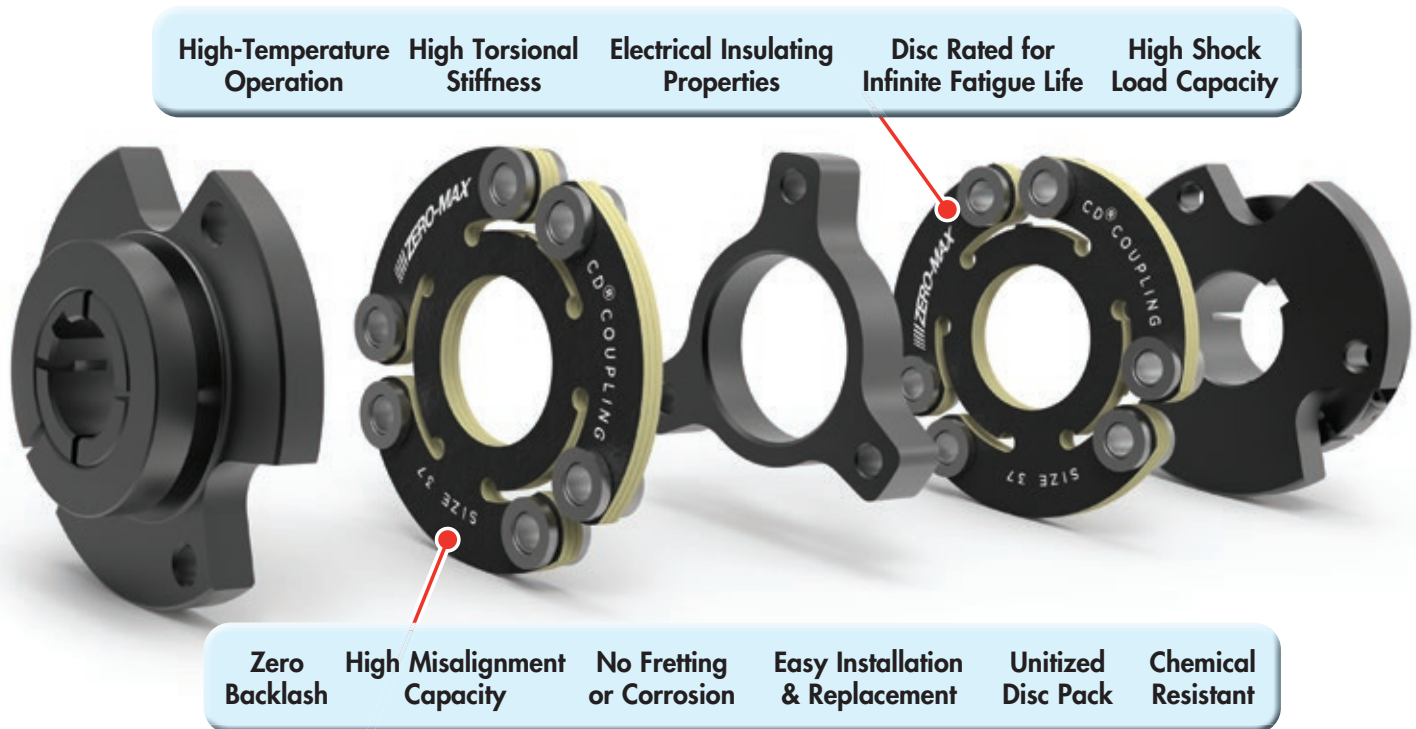


CD Couplings allow you to transmit high torque in a small envelope. They are ideal for cyclic applications where speed and repeatable accuracy are critical to keep 24/7 systems going.

CD Couplings withstand the punishment and stress of a servo motor. In comparison, other couplings may have high torsional stiffness specifications; however, they can be too brittle to withstand the punishment of high speed reversing applications and shaft misalignments.

Standard and Custom CD Couplings are available for every application. Do you need higher misalignment and greater torque capacity in your coupling? Need more flexibility and torsional stiffness? Need a very large bore diameter coupling? Or a long floating shaft coupling? Zero-Max CD Couplings are available in a full range of styles, models and sizes to meet those needs. Zero-Max will design and build a custom CD Coupling to handle your unique application. **See Page 19.**

Composite Disc (CD) Advantages:



- Available in single disc, double disc, floating shaft, and custom models
- Single and double disc models available in steel or aluminum clamp style hubs
- Operating temperature range is -70° to +250°F (-57° to + 121°C)
- Composite Discs are resistant to many chemicals
- Hubs are machined to a high level of concentricity for smooth and quiet operation
- Steel, Aluminum, Stainless Steel, and Plated construction options
- Maintenance free
- Ideal for high precision applications including packaging machines, pick and place systems, printing machinery, machine tools, and most systems using servo motors
- RoHS compliant – manufactured of RoHS compliant materials and contains no banned substances

The Single Flex Composite Disc Coupling is an excellent choice for zero backlash applications. The unique design delivers two features that are not often found in a precision coupling. High torsional stiffness and high durability!

The compact size and clamping system allow this coupling to fit into many applications. This design is also capable of being used in very high speed applications with slight modifications.

- Zero Backlash
- Torsionally Stiff
- Excellent for Reversing Loads
- Smooth Operation at High Speeds
- Misalignment Capacity
- Compact



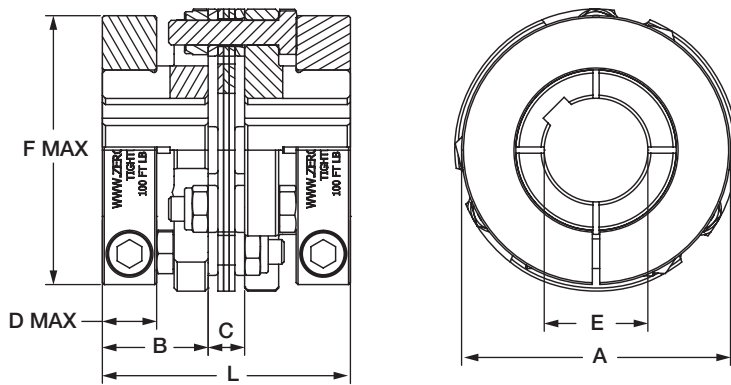
Available with or without keyway on clamp style hubs

Performance Information

	Continuous Rated Torque	Peak Rated Torque	Torsional Stiffness	Maximum Speed		Misalignments			A Hub		B Hub		Clamp Hub		QD Hubs Unit Weight w/ Bushing
	in-lbs (Nm)	in-lbs (Nm)	in-lbs/deg. (Nm/Rad)	A & B Hub (RPM)	Clamp Style Hub (RPM)	Angular Degrees	Parallel Inch (mm)	Axial Inch (mm)	Unit Weight at Max Bore Lb (kg)	Unit Inertia at Max Bore lb-in ² (kg-cm ²)	Unit Weight at Max Bore Lb (kg)	Unit Inertia at Max Bore lb-in ² (kg-cm ²)	Unit Weight at Max Bore Lb (kg)	Unit Inertia at Max Bore lb-in ² (kg-cm ²)	Lb (kg)
6A18 6A18C	180 (20)	360 (40)	1,800 (11,650)	14,000	12,000	3	0.004 (0.10)	0.030 (0.8)	0.43 (0.2)	0.16 (0.47)	-	-	0.82 (0.37)	0.35 (1.02)	-
6A22 6A22C	270 (30)	540 (60)	2,680 (17,352)	12,000	11,000	3	0.006 (0.15)	0.036 (0.9)	0.88 (0.4)	0.49 (1.45)	0.96 (0.44)	0.66 (1.92)	1.57 (0.71)	1.08 (3.16)	-
6A26 6A26C	475 (53)	950 (106)	3,100 (20,100)	10,500	9,500	3	0.008 (0.20)	0.043 (1.1)	1.37 (0.62)	0.93 (2.72)	1.37 (0.62)	1.21 (3.54)	1.83 (0.83)	1.57 (4.58)	-
6A30 6A30C	800 (90)	1,600 (180)	6,638 (42,976)	9,000	8,000	3	0.010 (0.3)	0.050 (1.3)	2.0 (0.9)	1.88 (5.50)	2.5 (1.1)	2.84 (8.30)	3.51 (1.59)	4.07 (11.9)	-
6A37 6A37C 6A37QD	1,600 (181)	3,200 (362)	10,374 (67,167)	7,400	6,700	3	0.013 (0.3)	0.070 (1.8)	3.6 (1.6)	5.57 (16.3)	4.2 (1.9)	7.86 (23.0)	6.00 (2.72)	11.7 (34.2)	3.7 (1.7)
6A45 6A45C 6A45QD	2,500 (282)	5,000 (564)	19,138 (123,909)	6,100	5,600	3	0.015 (0.4)	0.090 (2.3)	6.4 (2.9)	14.6 (42.7)	7.2 (3.3)	20.0 (58.5)	10.58 (4.80)	21.2 (62.0)	6.8 (3.1)
6A52 6A52C 6A52QD	3,560 (402)	7,120 (804)	26,049 (168,656)	5,200	4,800	3	0.018 (0.5)	0.110 (2.8)	10.5 (4.8)	32.4 (94.8)	11.4 (5.2)	43.2 (126)	14.65 (6.64)	53.0 (155)	11.7 (5.3)
6A60 6A60C 6A60QD	6,350 (718)	12,700 (1,436)	41,485 (268,595)	4,600	4,400	3	0.020 (0.5)	0.130 (3.3)	15.3 (7.0)	61.3 (179)	18.4 (8.4)	90.6 (265)	23.2 (10.5)	116 (340)	15.8 (7.2)
6A67 6A67C 6A67QD	10,300 (1,164)	20,600 (2,328)	61,948 (401,084)	4,300	4,100	3	0.022 (0.6)	0.150 (3.8)	22.0 (10.0)	111 (325)	26.5 (12.0)	163 (477)	35.0 (15.9)	205 (600)	20.5 (9.3)
6A77 6A77QD	15,600 (1,763)	31,200 (3,526)	94,107 (609,303)	3,900	-	3	0.025 (0.6)	0.160 (4.6)	31.3 (14.2)	209 (612)	38.5 (17.5)	318 (931)	-	-	29.5 (13.4)
6A90	25,000 (2,825)	50,000 (5,650)	160,653 (1,040,162)	3,600	-	3	0.030 (0.8)	0.180 (4.6)	49.9 (22.7)	461 (1,349)	62.6 (28.5)	722 (2,113)	-	-	-
6A105	34,900 (3,944)	69,800 (7,888)	244,204 (1,581,120)	3,300	-	3	0.035 (0.9)	0.210 (5.3)	81.5 (37.0)	1,046 (3,061)	98.3 (44.7)	1,572 (4,600)	-	-	-
6A120	47,200 (5,333)	94,400 (10,666)	328,095 (2,124,275)	3,000	-	3	0.040 (1.0)	0.250 (6.4)	124.0 (56.4)	2,054 (6,011)	141.0 (64.1)	3,100 (9,070)	-	-	-

- Consult factory for speeds higher than those listed and balancing requirements, if necessary.
- Consult factory for higher torque and higher torsional stiffness couplings.

Clamp Style Hub



Performance Note: The torque capacity of keyless clamped hubs is governed by many factors, including shaft/hub bore diameter, clamp size, and other installation variables. Keyless coupling hubs with smaller bore sizes (approximately less than one-half the maximum bore listed) may not transmit the full torque rating of the coupling. Consult factory for further detail if your application is of high torque/small keyless shaft variety.

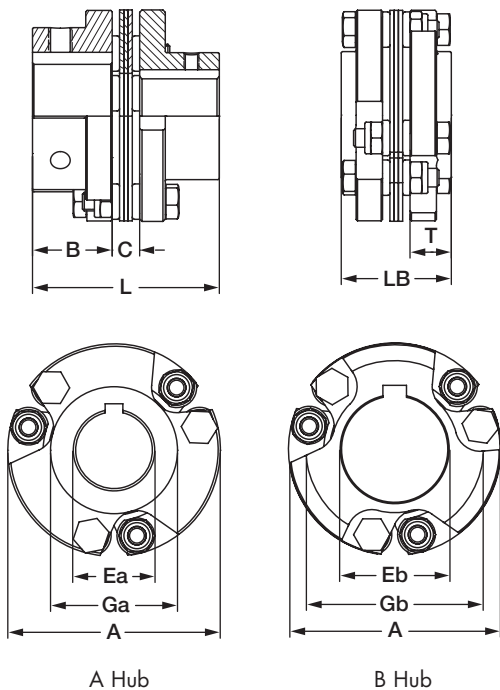
Dimensional Information

	A	B	C	D	Max Bore		F	H	L
					E w/kwy	E w/o kwy			
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
6A18C	1.85 (47.0)	0.81 (20.6)	0.28 (7.1)	0.472 (12)	0.625 (16)	0.813 (21)	1.77 (45)	0.79 (20.1)	1.88 (47.8)
6A22C	2.25 (57.2)	1.00 (25.4)	0.31 (7.9)	0.551 (14)	0.750 (20)	0.938 (25)	2.21 (56)	0.98 (24.9)	2.31 (58.7)
6A26C	2.60 (66.0)	1.06 (26.9)	0.31 (7.9)	0.551 (14)	1.000 (25)	1.188 (30)	2.36 (60)	1.00 (25.4)	2.43 (61.7)
6A30C	3.00 (76.2)	1.25 (31.8)	0.46 (11.7)	0.709 (18)	1.125 (30)	1.375 (35)	2.92 (74)	1.21 (31)	2.96 (75.2)
6A37C	3.75 (95.3)	1.44 (36.6)	0.52 (13.2)	0.748 (19)	1.500 (40)	1.875 (48)	3.71 (94)	1.51 (38)	3.40 (86.4)
6A45C	4.50 (114.3)	1.69 (42.9)	0.58 (14.7)	0.866 (22)	1.750 (45)	2.250 (55)	4.29 (109)	1.81 (46)	3.96 (100.6)
6A52C	5.25 (133.4)	1.94 (49.3)	0.65 (16.5)	0.984 (25)	2.250 (60)	2.625 (65)	4.92 (125)	2.11 (54)	4.52 (114.8)
6A60C	6.00 (152.4)	2.44 (62.0)	0.77 (19.6)	1.339 (34)	2.625 (70)	3.000 (75)	5.71 (145)	2.42 (61)	5.64 (143.3)
6A67C	6.75 (171.5)	2.75 (69.9)	0.86 (21.8)	1.339 (34)	2.875 (80)	3.500 (90)	6.50 (165)	2.72 (69)	6.36 (161.5)

Dimensional Information

Set Screw Hub

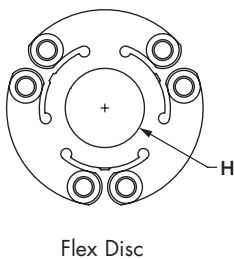
QD Style Hub



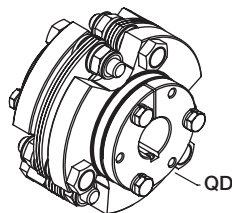
	A	B	C	Max Bore Ea A Hub	Max Bore Eb B Hub	Ga A Hub	Gb B Hub	H	L	X*	LB	T	QD**
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Bushing Type
6A18	1.85 (47.0)	0.625 (15.9)	0.276 (7.0)	0.625 (16)	-	1.13 (28.6)	-	0.79 (20.1)	1.53 (38.8)	0.0 (0)	-	-	-
6A22	2.25 (57.2)	0.94 (23.8)	0.31 (7.8)	0.625 (16)	1.000 (26)	1.22 (31)	1.88 (47.6)	0.98 (24.9)	2.18 (55.4)	0.51 (13)	-	-	-
6A26	2.59 (66)	1.06 (27.0)	0.31 (7.8)	0.750 (19)	1.250 (32)	1.50 (38.2)	2.16 (54.8)	1.00 (25.4)	2.43 (61.7)	0.39 (9.9)	-	-	-
6A30	3.00 (76.2)	1.25 (31.8)	0.46 (11.7)	1.000 (25)	1.375 (35)	1.71 (43)	2.50 (64)	1.21 (31)	2.96 (75)	0.39 (9.9)	-	-	-
6A37 6A37QD	3.75 (95.3)	1.44 (36.5)	0.52 (13.3)	1.250 (32)	1.813 (46)	2.19 (56)	3.13 (79)	1.51 (38)	3.40 (86)	0.68 (17.3)	1.78 (45.2)	0.63 (16)	JA**
6A45 6A45QD	4.50 (114)	1.69 (42.9)	0.58 (14.8)	1.625 (42)	2.250 (60)	2.69 (68)	3.75 (95)	1.81 (46)	3.96 (101)	0.91 (23.1)	2.34 (59.5)	0.88 (22.4)	SH**
6A52 6A52QD	5.25 (133)	1.94 (49.2)	0.65 (16.4)	1.875 (45)	2.625 (66)	3.31 (84)	4.38 (111)	2.11 (54)	4.52 (115)	0.73 (18.5)	3.41 (87)	1.38 (35.1)	SD**
6A60 6A60QD	6.00 (152)	2.44 (61.9)	0.77 (19.5)	2.250 (60)	3.000 (76)	3.67 (93)	5.00 (127)	2.42 (61)	5.64 (143)	0.69 (17.5)	3.53 (90)	1.38 (35.1)	SD**
6A67 6A67QD	6.75 (172)	2.75 (69.9)	0.86 (21.8)	2.625 (65)	3.375 (85)	4.29 (109)	5.63 (143)	2.72 (69)	6.36 (162)	0.41 (10.4)	3.62 (92)	1.38 (35.1)	SK**
6A77 6A77QD	7.75 (197)	3.13 (79.4)	1.01 (25.7)	2.875 (75)	3.875 (100)	4.61 (117)	6.46 (164)	3.13 (79)	7.26 (185)	0.89 (22.6)	4.01 (102)	1.50 (38.1)	SF**
6A90	9.00 (229)	3.75 (95.3)	1.13 (28.8)	3.000 (75)	4.500 (120)	5.38 (137)	7.50 (191)	3.62 (92)	8.63 (219)	1.39 (35.3)	-	-	-
6A105	10.50 (267)	4.25 (108)	1.45 (36.8)	3.750 (95)	5.125 (130)	6.11 (155)	8.75 (222)	4.23 (107)	9.95 (253)	1.92 (48.8)	-	-	-
6A120	12.00 (305)	4.75 (121)	1.54 (39.0)	4.250 (110)	6.000 (152)	7.34 (186)	10.00 (254)	4.83 (123)	11.04 (280)	1.48 (37.6)	-	-	-

*"X" dimension is the minimum bolt travel required beyond the hub to disassemble the disc pack from the hubs.

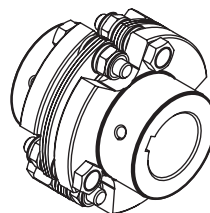
**QD Bushings not included with coupling. Customer supplied.



Flex Disc



QD Style Hub



Set Screw Hub



QD Style Hub



Set Screw Hub

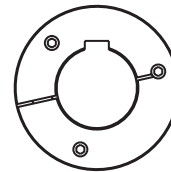
The A1C Aluminum hub version of our Single Flex Composite Disc Coupling features low weight and inertia, making it an excellent choice for servo motor applications. The unique hub design delivers flexibility making it a great fit for applications requiring high precision, high performance, and durability.

The integrated clamping hub design of the A1C Hub style allows for a wider range of shaft bores and higher shaft clamping forces while maintaining precise, high-performance specifications and a compact size to fit into many applications.

- Zero Backlash
- Torsionally Stiff
- Excellent for Reversing Loads
- Smooth Operation at High Speeds
- Maintenance-Free
- Misalignment Capacity
- Compact



Available with or without keyway on clamp style hubs



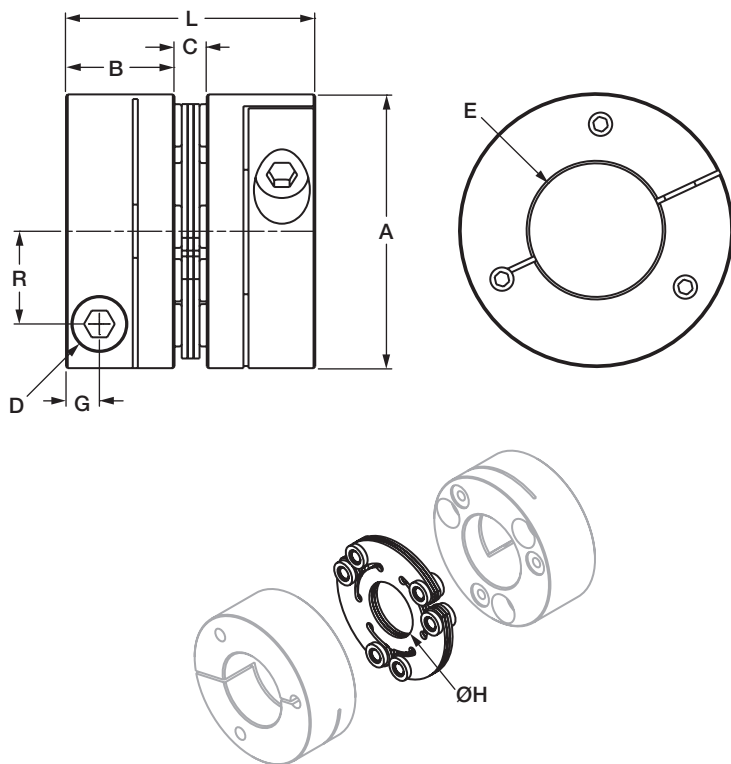
Note: Typical keyway placement

Performance Information

	Continuous Rated Torque	Peak Rated Torque	Torsional Stiffness	Maximum Speed	Misalignments			Unit Weight at		Inertia at	
	in-lbs (Nm)	in-lbs (Nm)	in-lbs/deg. (Nm/Rad)	(RPM)	Angular Degrees	Parallel Inch (mm)	Axial Inch (mm)	Max Bore Lb (kg)	Min Bore Lb (kg)	Max Bore lb-in ² (kg-cm ²)	Min Bore lb-in ² (kg-cm ²)
6A18-A1C	180 (20)	360 (40)	1,800 (11,650)	15,000	2	0.004 (0.10)	0.03 (0.8)	0.44 (0.20)	0.57 (0.26)	0.30 (0.88)	0.32 (0.95)
6A22-A1C	270 (30)	540 (60)	2,680 (17,352)	13,500	2	0.006 (0.15)	0.036 (0.9)	0.73 (0.33)	0.90 (0.41)	0.65 (1.9)	0.72 (2.1)
6A26-A1C	475 (53)	950 (106)	3,100 (20,100)	11,500	2	0.008 (0.20)	0.043 (1.1)	1.01 (0.46)	1.32 (0.60)	1.20 (3.5)	1.26 (3.7)
6A30-A1C	800 (90)	1,600 (180)	6,638 (42,976)	9,500	2	0.010 (0.25)	0.050 (1.3)	1.68 (0.76)	2.07 (0.94)	2.67 (7.8)	2.80 (8.2)
6A37-A1C	1,600 (181)	3,200 (362)	10,374 (67,167)	8,000	2	0.013 (0.33)	0.070 (1.8)	3.51 (1.59)	4.50 (2.04)	8.65 (25.3)	9.26 (27.1)
6A45-A1C	2,500 (282)	5,000 (564)	19,138 (123,909)	6,700	2	0.015 (0.38)	0.090 (2.3)	6.61 (3.00)	8.60 (3.90)	24.5 (71.6)	26.4 (77.1)

- Consult factory for speeds higher than those listed and balancing requirements, if necessary.
- Consult factory if higher torque and higher torsional stiffness couplings are required.

Dimensional Information



	A	B	C	E Bore		G	H	L	R	D
	Inch (mm)	Inch (mm)	Inch (mm)	Min	Max	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
6A18-A1C	2.09 (53)	0.89 (22.5)	0.22 (5.49)	0.375 (8)	1.000 (26)	0.29 (7.2)	0.79 (20.1)	1.99 (50.5)	0.71 (18.0)	M6
6A22-A1C	2.44 (62)	1.02 (26)	0.23 (5.74)	0.500 (12)	1.188 (31)	0.29 (7.2)	0.98 (24.9)	2.27 (57.7)	0.87 (22.0)	M6
6A26-A1C	2.74 (69.5)	1.16 (29.5)	0.25 (6.25)	0.563 (14)	1.375 (35)	0.36 (9.1)	1.00 (25.4)	2.57 (65.2)	0.95 (24.0)	M8
6A30-A1C	3.23 (82)	1.28 (32.5)	0.38 (9.65)	0.688 (16)	1.500 (40)	0.39 (10.0)	1.21 (31)	2.94 (74.7)	1.09 (27.8)	M10
6A37-A1C	3.98 (101)	1.81 (46)	0.44 (11.23)	0.750 (18)	2.000 (51)	0.50 (12.7)	1.51 (38)	4.06 (103.2)	1.42 (36.0)	M12
6A45-A1C	4.84 (123)	2.36 (60)	0.50 (12.75)	1.000 (24)	2.500 (65)	0.67 (16.9)	1.81 (46)	5.23 (132.8)	1.71 (43.5)	M16

Bore Size (Inch)

Model	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1"	1-1/16"	1-1/8"	1-3/16"	1-1/4"	1-5/16"	1-3/8"	1-7/16"
6A18-A1C	●	●	●	●	●	●	●	●	●	●	●							
6A22-A1C			●	●	●	●	●	●	●	●	●	●	●	●				
6A26-A1C				●	●	●	●	●	●	●	●	●	●	●	●	●	●	
6A30-A1C						●	●	●	●	●	●	●	●	●	●	●	●	●
6A37-A1C							●	●	●	●	●	●	●	●	●	●	●	●
6A45-A1C											●	●	●	●	●	●	●	●

Model	1-1/2"	1-9/16"	1-5/8"	1-11/16"	1-3/4"	1-13/16"	1-7/8"	1-15/16"	2"	2-1/16"	2-1/8"	2-3/16"	2-1/4"	2-5/16"	2-3/8"	2-7/16"	2-1/2"
6A18-A1C																	
6A22-A1C																	
6A26-A1C																	
6A30-A1C	●																
6A37-A1C	●	●	●	●	●	●	●	●	●								
6A45-A1C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Bore Size (Metric)

Model	8	9	10	11	12	13	14	15	16	17	18	19	20	22	24	25	26	28	30	32	35	38	40	42	45	48	50	52	55	58	60	62	65
6A18-A1C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																	
6A22-A1C					●	●	●	●	●	●	●	●	●	●	●	●	●	●															
6A26-A1C							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●												
6A30-A1C									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
6A37-A1C											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
6A45-A1C															●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

●: The coupling will transmit full peak torque on a shaft without a keyway. Please contact the factory for additional bores.

The AC Aluminum hub version of our standard Single Flex Composite Disc Coupling features low weight and inertia, making it an excellent choice for servo motor applications. The unique design delivers two features that are not often found in a precision coupling. High torsional stiffness and high durability!

The compact size, low inertia, and clamping system enable this coupling to fit into many applications.



Available with or without keyway on clamp style hubs

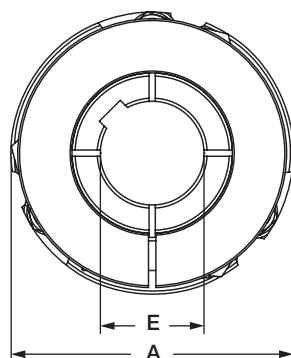
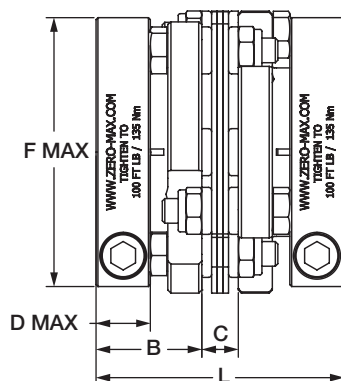
- Zero Backlash
- Torsionally Stiff
- Excellent for Reversing Loads
- Smooth Operation at High Speeds
- Misalignment Capacity
- Compact

- Consult factory for speeds higher than those listed and balancing requirements, if necessary.
- Consult factory for higher torque and higher torsional stiffness couplings.

Performance Information

	Continuous Rated Torque	Peak Rated Torque	Torsional Stiffness	Maximum Speed Clamp Style Hub	Misalignments			Clamp Hub			
					Angular	Parallel	Axial	Unit Weight		Unit Inertia	
								at Max Bore	at 1/2 Max Bore	at Max Bore	at 1/2 Max Bore
	in-lbs (Nm)	in-lbs (Nm)	in-lbs/deg. (Nm/Rad)	(RPM)	Degrees	Inch (mm)	Inch (mm)	Lb (kg)	Lb (kg)	lb-in ² (kg-cm ²)	lb-in ² (kg-cm ²)
6A18-AC	180 (20)	360 (40)	1,800 (11,650)	15,000	3	0.004 (0.10)	0.030 (0.8)	0.32 (0.15)	0.31 (0.14)	0.15 (0.43)	0.13 (0.37)
6A22-AC	270 (30)	540 (60)	2,680 (17,352)	13,500	3	0.006 (0.15)	0.036 (0.9)	0.67 (0.30)	0.51 (0.23)	0.50 (1.45)	0.31 (0.90)
6A26-AC	475 (53)	950 (106)	3,100 (20,100)	11,500	3	0.008 (0.20)	0.043 (1.0)	0.77 (0.35)	0.66 (0.30)	0.68 (1.98)	0.45 (1.32)
6A30-AC	800 (90)	1,600 (180)	6,638 (42,976)	9,500	3	0.010 (0.3)	0.050 (1.3)	1.46 (0.66)	1.03 (0.47)	1.78 (5.21)	1.04 (3.04)
6A37-AC	1,600 (181)	3,200 (362)	10,374 (67,167)	8,000	3	0.013 (0.3)	0.070 (1.8)	2.58 (1.17)	1.74 (0.79)	5.17 (15.1)	2.82 (8.26)
6A45-AC	2,500 (282)	5,000 (564)	19,138 (123,909)	6,700	3	0.015 (0.4)	0.090 (2.3)	4.50 (2.04)	3.23 (1.46)	10.0 (29.3)	7.26 (21.2)
6A52-AC	3,560 (402)	7,120 (804)	26,049 (168,656)	5,800	3	0.018 (0.5)	0.110 (2.8)	6.07 (2.75)	5.01 (2.27)	18.9 (55.2)	14.8 (43.4)
6A60-AC	6,350 (718)	12,700 (1,436)	41,485 (268,595)	5,200	3	0.020 (0.5)	0.130 (3.3)	9.74 (4.42)	7.64 (3.46)	40.3 (118)	28.3 (82.7)

Clamp Style Hub



Dimensional Information

	A	B	C	D	Max Bore		F	H	L
					E				
					w/kwy	w/o kwy			
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
6A18-AC	1.85 (47.0)	0.81 (20.6)	0.28 (7.1)	0.472 (12)	0.625 (16)	0.813 (21)	1.77 (45)	0.79 (20.1)	1.88 (47.8)
6A22-AC	2.25 (57.2)	1.00 (25.4)	0.31 (7.9)	0.551 (14)	0.750 (20)	0.938 (25)	2.21 (56)	0.98 (24.9)	2.31 (58.7)
6A26-AC	2.60 (66.0)	1.06 (26.9)	0.31 (7.9)	0.551 (14)	1.000 (24)	1.188 (30)	2.36 (60)	1.00 (25.4)	2.43 (61.7)
6A30-AC	3.00 (76.2)	1.25 (31.8)	0.46 (11.7)	0.709 (18)	1.125 (30)	1.375 (35)	2.92 (74)	1.21 (31)	2.96 (75.2)
6A37-AC	3.75 (95.3)	1.44 (36.6)	0.52 (13.2)	0.748 (19)	1.500 (40)	1.875 (48)	3.71 (94)	1.51 (38)	3.40 (86.4)
6A45-AC	4.50 (114.3)	1.69 (42.9)	0.58 (14.7)	0.866 (22)	1.750 (45)	2.250 (55)	4.29 (109)	1.81 (46)	3.96 (100.6)
6A52-AC	5.25 (133.4)	1.94 (49.3)	0.65 (16.5)	0.984 (25)	2.250 (60)	2.625 (65)	4.92 (125)	2.11 (54)	4.52 (114.8)
6A60-AC	6.00 (152.4)	2.44 (62.0)	0.77 (19.6)	1.339 (34)	2.625 (70)	3.000 (75)	5.71 (145)	2.42 (61)	5.64 (143.3)

Performance Note: The torque capacity of keyless clamped hubs is governed by many factors, including shaft/hub bore diameter, clamp size, and other installation variables. Keyless coupling hubs with smaller bore sizes (approximately less than one-half the maximum bore listed) may not transmit the full torque rating of the coupling. Consult factory for further detail if your application is of high torque/small shaft variety. The A1C Aluminum Hub Style can also be considered in these applications.

The Single Flex Composite Disc Stainless Steel coupling is an excellent choice for zero backlash applications that require stainless steel. The hubs and hardware are made from 300 Series stainless steel and the Composite Disc material is highly resistant to many harsh chemicals.

If your needs require a size of coupling that is not shown below, please contact Zero-Max.

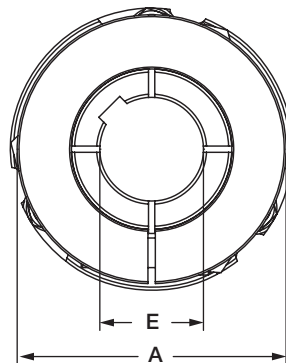
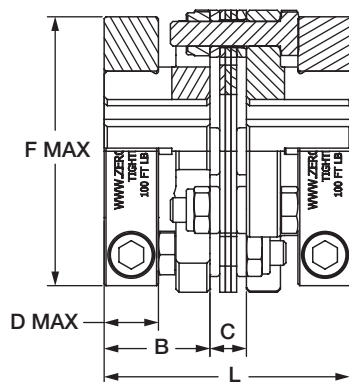


Performance Information

- Consult factory for speeds higher than those listed and balancing requirements, if necessary.
- Consult factory for higher torque and higher torsional stiffness couplings.

	Continuous Rated Torque	Peak Rated Torque	Torsional Stiffness	Maximum Speed		Misalignments			A Hub		Clamp Hub	
	in-lbs (Nm)	in-lbs (Nm)	in-lbs/deg. (Nm/Rad)	A & B Hub (RPM)	Clamp Style Hub (RPM)	Angular Degrees	Parallel Inch (mm)	Axial Inch (mm)	Unit Weight at Max Bore Lb (kg)	Unit Inertia at Max Bore lb-in ² (kg-cm ²)	Unit Weight at Max Bore Lb (kg)	Unit Inertia at Max Bore lb-in ² (kg-cm ²)
6A30-SS 6A30C-SS	800 (90)	1,600 (181)	6,638 (42,976)	9,000	8,000	3	0.010 (0.3)	0.050 (1.3)	2.0 (0.9)	1.88 (5.50)	2.88 (1.31)	3.11 (9.11)
6A37-SS 6A37C-SS	1,600 (181)	3,200 (362)	10,374 (67,167)	7,400	6,700	3	0.013 (0.3)	0.070 (1.8)	3.6 (1.6)	5.57 (16.3)	6.04 (2.74)	9.62 (28.1)
6A45-SS 6A45C-SS	2,500 (282)	5,000 (564)	19,138 (123,909)	6,100	5,600	3	0.015 (0.4)	0.090 (2.3)	6.4 (2.9)	14.6 (42.7)	7.65 (3.47)	18.0 (52.6)
6A52-SS 6A52C-SS	3,560 (402)	7,120 (804)	26,049 (168,656)	5,200	4,800	3	0.018 (0.5)	0.110 (2.8)	10.5 (4.8)	32.4 (94.8)	11.93 (5.41)	38.9 (114)

Clamp Style Hub

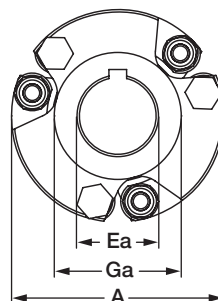
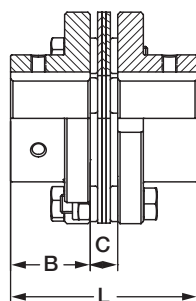
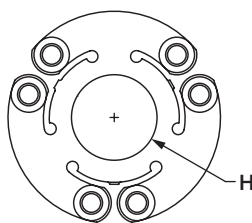


Dimensional Information

	A	B	C	D	Max Bore E		F	H	L
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	w/kwy Inch (mm)	w/o kwy Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
6A30C-SS	3.00 (76.2)	1.25 (31.8)	0.46 (11.7)	0.69 (17.5)	1.125 (28)	1.375 (35)	2.63 (66.8)	1.21 (31)	2.96 (75.2)
6A37C-SS	3.75 (95.3)	1.44 (36.6)	0.52 (13.2)	0.75 (19.1)	1.500 (40)	1.875 (48)	3.25 (82.6)	1.51 (38)	3.40 (86.4)
6A45C-SS	4.50 (114.3)	1.69 (42.9)	0.58 (14.7)	0.75 (19.1)	1.625 (42)	2.000 (50)	3.50 (88.9)	1.81 (46)	3.96 (100.6)
6A52C-SS	5.25 (133.4)	1.94 (49.3)	0.65 (16.5)	0.88 (22.4)	2.125 (55)	2.625 (65)	4.25 (108.0)	2.11 (54)	4.52 (114.8)

Performance Note: The torque capacity of keyless clamped hubs is governed by many factors, including shaft/hub bore diameter, clamp size, and other installation variables. Keyless coupling hubs with smaller bore sizes (approximately less than one-half the maximum bore listed) may not transmit the full torque rating of the coupling. Consult factory for further detail if your application is of high torque/small shaft variety.

Set Screw Style Hub



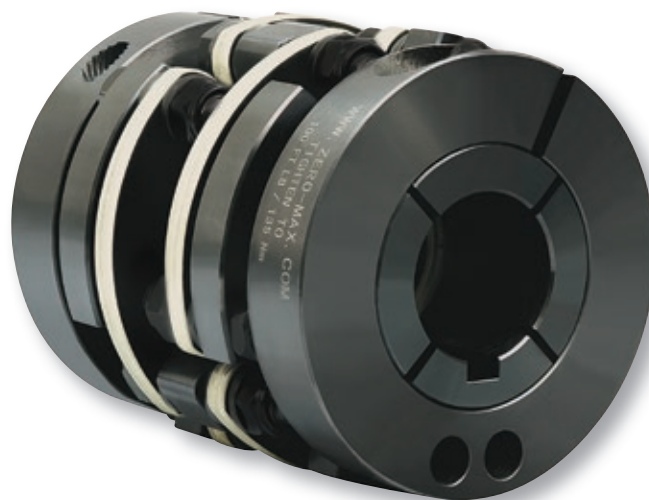
Dimensional Information

	A	B	C	Max Bore Ea	Ga	H	L	X*
	Inch (mm)	Inch (mm)	Inch (mm)	A Hub Inch (mm)	A Hub Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
6A30-SS	3.00 (76.2)	1.25 (31.8)	0.46 (11.7)	1.000 (25)	1.71 (43)	1.21 (31)	2.96 (75)	0.39 (9.9)
6A37-SS	3.75 (95.3)	1.44 (36.5)	0.52 (13.3)	1.250 (32)	2.19 (56)	1.51 (38)	3.40 (86)	0.68 (17.3)
6A45-SS	4.50 (114)	1.69 (42.9)	0.58 (14.8)	1.625 (42)	2.69 (68)	1.81 (46)	3.96 (101)	0.91 (23.1)
6A52-SS	5.25 (133)	1.94 (49.2)	0.65 (16.4)	1.875 (45)	3.31 (84)	2.11 (54)	4.52 (115)	0.73 (18.5)

* "X" dimension is the minimum bolt travel required beyond the hub to disassemble the disc pack from the hubs.

The Double Flex Composite Disc Coupling is ideal for precision applications that require more misalignment capacity than our Single Flex design. The coupling's large misalignment capacity, high torsional stiffness, and overall high performance specifications make this coupling a great choice for a wide variety of applications.

- Zero Backlash
- Torsionally Stiff
- Excellent for Reversing Loads
- Smooth Operation at High Speeds
- High Misalignment Capacity
- Very Low Reaction Loads from Misalignment



Available with or without keyway on clamp style hubs

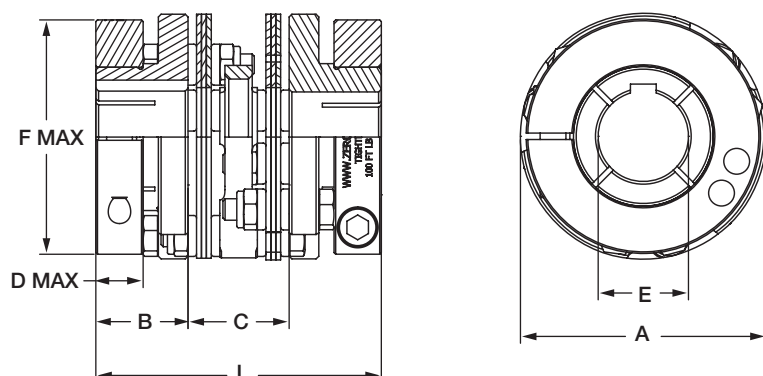
Performance Information

	Continuous Rated Torque	Peak Rated Torque	Torsional Stiffness	Maximum Speed		Misalignments			A Hub		B Hub		Clamp Hub		QD Hubs
	in-lbs (Nm)	in-lbs (Nm)	in-lbs/deg. (Nm/Rad)	A & B Hub (RPM)	Clamp Style Hub (RPM)	Angular	Parallel	Axial	Unit Weight at Max Bore Lb (kg)	Unit Inertia at Max Bore lb-in ² (kg-cm ²)	Unit Weight at Max Bore Lb (kg)	Unit Inertia at Max Bore lb-in ² (kg-cm ²)	Unit Weight at Max Bore Lb (kg)	Unit Inertia at Max Bore lb-in ² (kg-cm ²)	Unit Weight w/ Bushing Lb (kg)
6P18 6P18C	180 (20)	360 (40)	850 (5,500)	14,000	12,000	3	0.022 (0.56)	0.060 (1.5)	0.47 (0.21)	0.19 (0.56)	–	–	0.93 (0.42)	0.40 (1.17)	–
6P22 6P22C	270 (30)	540 (60)	1,310 (8,482)	12,000	11,000	3	0.026 (0.66)	0.072 (1.8)	1.10 (0.50)	0.66 (1.94)	1.18 (0.54)	0.82 (2.41)	1.79 (0.81)	1.25 (3.65)	–
6P26 6P26C	475 (53)	950 (106)	1,500 (9,712)	10,500	9,500	3	0.030 (0.76)	0.086 (2.2)	1.66 (0.75)	1.19 (3.47)	1.66 (0.75)	1.46 (4.28)	2.12 (0.96)	1.82 (5.31)	–
6P30 6P30C	800 (90)	1,600 (181)	3,231 (20,923)	9,000	8,000	3	0.039 (1.0)	0.100 (2.5)	2.5 (1.1)	2.49 (7.30)	3.0 (1.3)	3.49 (10.2)	4.01 (1.82)	4.70 (13.8)	–
6P37 6P37C 6P37QD	1,600 (181)	3,200 (362)	5,051 (32,700)	7,400	6,700	3	0.049 (1.2)	0.140 (3.6)	4.5 (2.1)	7.45 (21.8)	5.1 (2.3)	9.77 (28.6)	6.25 (2.83)	13.6 (39.7)	4.0 (1.8)
6P45 6P45C 6P45QD	2,500 (282)	5,000 (564)	9,317 (60,324)	6,100	5,600	3	0.052 (1.3)	0.180 (4.6)	7.9 (3.6)	19.1 (55.9)	8.7 (4.0)	24.5 (71.7)	12.1 (5.5)	25.7 (75.0)	8.1 (3.7)
6P52 6P52C 6P52QD	3,560 (402)	7,120 (804)	12,682 (82,109)	5,100	4,800	3	0.062 (1.6)	0.220 (5.6)	12.8 (5.8)	41.6 (122)	13.7 (6.2)	52.5 (154)	16.9 (7.6)	62.3 (182)	13.9 (6.3)
6P60 6P60C 6P60QD	6,350 (718)	12,700 (1,436)	20,196 (130,763)	4,600	4,400	3	0.069 (1.8)	0.260 (6.6)	18.4 (8.4)	79.3 (232)	21.5 (9.8)	109 (319)	26.3 (11.9)	134 (393)	18.9 (8.6)
6P67 6P67C 6P67QD	10,300 (1,164)	20,600 (2,328)	30,159 (195,265)	4,300	4,100	3	0.076 (1.9)	0.300 (7.6)	26.2 (11.9)	141 (413)	30.7 (14.0)	193 (565)	39.2 (17.8)	235 (687)	24.7 (11.2)
6P77 6P77QD	15,600 (1,763)	31,200 (3,526)	45,815 (296,634)	3,300	–	3	0.089 (2.3)	0.320 (8.1)	38.5 (17.5)	273 (799)	45.8 (20.8)	381 (1,115)	–	–	36.8 (16.7)
6P90	25,000 (2,825)	50,000 (5,650)	78,213 (506,395)	2,800	–	3	0.101 (2.6)	0.360 (9.1)	61.4 (27.9)	596 (1,744)	74.1 (33.7)	857 (2,508)	–	–	–
6P105	34,900 (3,944)	69,800 (7,888)	118,889 (769,756)	2,500	–	3	0.126 (3.2)	0.420 (10.7)	101 (45.9)	1,362 (3,986)	118 (53.6)	1,888 (5,525)	–	–	–
6P120	47,200 (5,333)	94,400 (10,666)	159,730 (1,034,187)	2,100	–	3	0.137 (3.5)	0.500 (12.7)	150 (68.2)	2,600 (7,609)	167 (76.0)	3,646 (10,670)	–	–	–

- Consult factory for speeds higher than those listed and balancing requirements, if necessary.
- Consult factory for higher torque and higher torsional stiffness couplings.

Clamp Style Hub

Dimensional Information



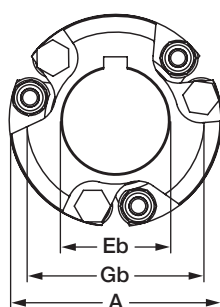
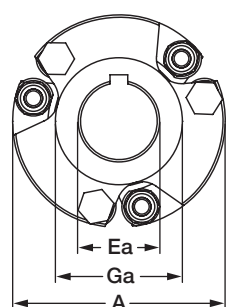
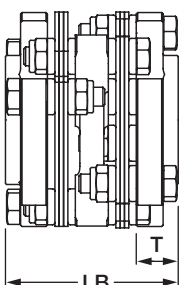
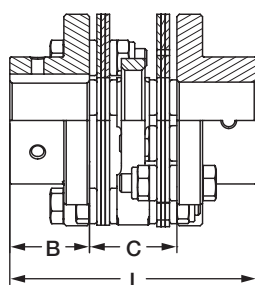
Performance Note: The torque capacity of keyless clamped hubs is governed by many factors, including shaft/hub bore diameter, clamp size, and other installation variables. Keyless coupling hubs with smaller bore sizes (approximately less than one-half the maximum bore listed) may not transmit the full torque rating of the coupling. Consult factory for more detail if your application is of high torque/small shaft variety.

	A	B	C	D	Max Bore E		F	H	L
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	w/kwy	w/o kwy	Inch (mm)	Inch (mm)	Inch (mm)
6P18C	1.85 (47.0)	0.81 (20.6)	0.80 (20.3)	0.472 (12)	0.625 (16)	0.813 (21)	1.77 (45)	0.79 (20.1)	2.42 (61.5)
6P22C	2.25 (57.2)	1.00 (25.4)	0.96 (24.4)	0.551 (14)	0.750 (20)	0.938 (25)	2.21 (56)	0.98 (24.9)	2.96 (75.2)
6P26C	2.60 (66.0)	1.06 (26.9)	1.04 (26.4)	0.551 (14)	1.000 (24)	1.188 (30)	2.36 (60)	1.00 (25.4)	3.16 (80.3)
6P30C	3.00 (76.2)	1.25 (31.8)	1.42 (36.1)	0.709 (18)	1.125 (30)	1.375 (35)	2.92 (74)	1.21 (31)	3.92 (99.6)
6P37C	3.75 (95.3)	1.44 (36.6)	1.67 (42.4)	0.748 (19)	1.500 (40)	1.875 (48)	3.71 (94)	1.51 (38)	4.55 (115.6)
6P45C	4.50 (114.3)	1.69 (42.9)	1.85 (47.0)	0.866 (22)	1.750 (45)	2.250 (55)	4.29 (109)	1.81 (46)	5.23 (132.8)
6P52C	5.25 (133.4)	1.94 (49.3)	2.11 (53.6)	0.984 (25)	2.250 (60)	2.625 (65)	4.92 (125)	2.11 (54)	5.98 (151.9)
6P60C	6.00 (152.4)	2.44 (62.0)	2.41 (61.2)	1.339 (34)	2.625 (70)	3.000 (75)	5.71 (145)	2.42 (61)	7.29 (185.2)
6P67C	6.75 (171.5)	2.75 (69.9)	2.70 (68.6)	1.339 (34)	2.875 (80)	3.500 (90)	6.50 (165)	2.72 (69)	8.20 (208.3)

Dimensional Information

Set Screw Hub

QD Style Hub

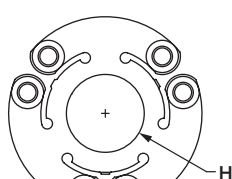


A Hub

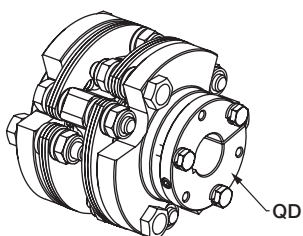
B Hub

	A	B	C	Max Bore Ea A Hub	Max Bore Eb B Hub	Ga A Hub	Gb B Hub	H	L	X*	Y*	QD Only		
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	LB	T	QD** Type
6P18	1.85 (47.0)	0.625 (15.9)	0.803 (20.4)	0.625 (16)	-	1.125 (28.6)	-	0.79 (20.1)	2.05 (52.1)	-	0.48 (12.2)	-	-	-
6P22	2.25 (57.2)	0.938 (23.8)	0.956 (24.3)	0.625 (16)	1.000 (26)	1.219 (31)	1.88 (47.6)	0.98 (24.9)	2.83 (71.9)	0.51 (13)	0.64 (16.3)	-	-	-
6P26	2.59 (65.9)	1.06 (27)	1.03 (26.3)	0.750 (19)	1.250 (32)	1.502 (38.2)	2.16 (54.8)	1.00 (25.4)	3.16 (80.2)	0.39 (9.9)	0.47 (12)	-	-	-
6P30	3.00 (76.2)	1.25 (31.8)	1.42 (36.1)	1.000 (25)	1.375 (35)	1.71 (43)	2.50 (64)	1.21 (31)	3.92 (100)	0.39 (9.9)	0.68 (17.3)	-	-	-
6P37	3.75 (95.3)	1.44 (36.5)	1.67 (42.4)	1.250 (32)	1.813 (46)	2.19 (56)	3.13 (79)	1.51 (38)	4.55 (115)	0.68 (17.3)	0.95 (24.1)	2.93 (75)	0.63 (16)	JA**
6P45	4.50 (114)	1.69 (42.9)	1.85 (47.0)	1.625 (42)	2.250 (60)	2.69 (68)	3.75 (95)	1.81 (46)	5.23 (133)	0.91 (23.1)	1.35 (34.3)	3.61 (92)	0.88 (22.4)	SH**
6P52	5.25 (133)	1.94 (49.2)	2.11 (53.5)	1.875 (45)	2.625 (66)	3.31 (84)	4.38 (111)	2.11 (54)	5.98 (152)	0.73 (18.5)	1.10 (27.9)	4.87 (124)	1.38 (35.1)	SD**
6P60	6.00 (152)	2.44 (61.9)	2.41 (61.2)	2.250 (60)	3.000 (76)	3.67 (93)	5.00 (127)	2.42 (61)	7.29 (185)	0.69 (17.5)	1.42 (36.1)	5.17 (131)	1.38 (35.1)	SD**
6P67	6.75 (171)	2.75 (69.9)	2.70 (68.7)	2.625 (65)	3.375 (85)	4.29 (108)	5.63 (143)	2.72 (69)	8.20 (208)	0.41 (10.4)	1.11 (28.2)	5.46 (139)	1.38 (35.1)	SK**
6P77	7.75 (197)	3.13 (79.4)	3.15 (80.1)	2.875 (75)	3.875 (100)	4.61 (117)	6.46 (164)	3.13 (79)	9.40 (239)	0.89 (22.6)	1.40 (35.6)	6.15 (156)	1.38 (35.1)	SF**
6P90	9.00 (229)	3.75 (95.3)	3.58 (91.0)	3.000 (75)	4.500 (120)	5.38 (137)	7.50 (190)	3.62 (92)	11.08 (281)	1.39 (35.3)	1.47 (37.3)	-	-	-
6P105	10.50 (267)	4.25 (108)	4.42 (112)	3.750 (95)	5.125 (130)	6.11 (155)	8.75 (222)	4.23 (107)	12.92 (328)	1.92 (48.8)	2.64 (67.1)	-	-	-
6P120	12.00 (305)	4.75 (121)	4.82 (123)	4.250 (110)	6.000 (152)	7.34 (186)	10.00 (254)	4.83 (123)	14.32 (364)	1.48 (37.6)	2.14 (54.4)	-	-	-

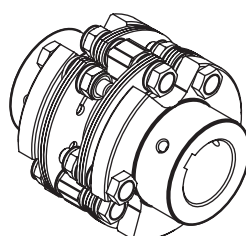
*"X" and "Y" dimensions are the minimum bolt travel required beyond the hub to disassemble the disc packs and intermediate member, respectively, from the hubs.
 ** QD Bushings not included with coupling. Customer supplied.



Flex Disc



QD Style Hub



Set Screw Hub



QD Style Hub



Set Screw Hub

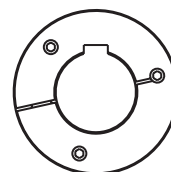
The A1C Aluminum hub version of our Double Flex Composite Disc Coupling is ideal for applications that require more misalignment capacity than our Single Flex design. This series also features low weight and inertia aluminum hubs making it an excellent choice for servo motor applications requiring high precision, high performance, and durability.

The integrated clamping hub design of the A1C Hub style allows for a wider range of shaft bores and higher shaft clamping forces. This coupling's large misalignment capacity, high torsional stiffness, and overall performance specifications make it a great fit in many applications.

- Zero Backlash
- Torsionally Stiff
- Excellent for Reversing Loads
- Smooth Operation at High Speeds
- Maintenance-Free
- High Misalignment Capacity
- Very Low Reaction Loads from Misalignment



Available with or without keyway on clamp style hubs



Note: Typical keyway placement

Performance Information

	Continuous Rated Torque	Peak Rated Torque	Torsional Stiffness	Maximum Speed	Misalignments			Unit Weight at		Inertia at	
	in-lbs (Nm)	in-lbs (Nm)	in-lbs/deg. (Nm/Rad)	(RPM)	Angular Degrees	Parallel Inch (mm)	Axial Inch (mm)	Max Bore Lb (kg)	Min Bore Lb (kg)	Max Bore lb-in ² (kg-cm ²)	Min Bore lb-in ² (kg-cm ²)
6P18-A1C	180 (20)	360 (40)	850 (5,500)	15,000	2	0.017 (0.44)	0.063 (1.6)	0.55 (0.25)	0.66 (0.30)	1.03 (3.0)	0.38 (1.1)
6P22-A1C	270 (30)	540 (60)	1,310 (8,482)	13,500	2	0.023 (0.58)	0.071 (1.8)	0.86 (0.39)	1.04 (0.47)	0.75 (2.2)	0.82 (2.4)
6P26-A1C	475 (53)	950 (106)	1,500 (9,712)	11,500	2	0.022 (0.55)	0.087 (2.2)	1.19 (0.54)	1.43 (0.65)	1.40 (4.1)	1.47 (4.3)
6P30-A1C	800 (90)	1,600 (180)	3,231 (20,923)	9,500	2	0.033 (0.85)	0.102 (2.6)	2.14 (0.97)	2.51 (1.14)	3.42 (10.0)	3.76 (11.0)
6P37-A1C	1,600 (181)	3,200 (362)	5,051 (32,700)	7,900	2	0.039 (1.00)	0.142 (3.6)	4.48 (2.03)	5.36 (2.43)	10.8 (31.7)	11.3 (33.1)
6P45-A1C	2,500 (282)	5,000 (564)	9,317 (60,324)	6,700	2	0.049 (1.24)	0.181 (4.6)	8.16 (3.70)	10.1 (4.60)	29.1 (85.0)	30.8 (90.0)

- Consult factory for speeds higher than those listed and balancing requirements, if necessary.
- Consult factory for higher torque and higher torsional stiffness couplings.