Beam Couplings

- Multi-Beam
- Single-Beam
- Step-Beam

- **Torsionally rigid design**
- **Zero backlash**
- **No moving parts**
- **Single beam simple coupling compatible with industry standard types**
- **3-Beam single stage for increased torsional stiffness**
- **6-Beam two stage for torsional stiffness and increased radial compliance**
- **Step Beam for low inertia, electrical isolation, low cost**

Beam couplings will readily accommodate any combination of axial motion, angular and parallel misalignment.

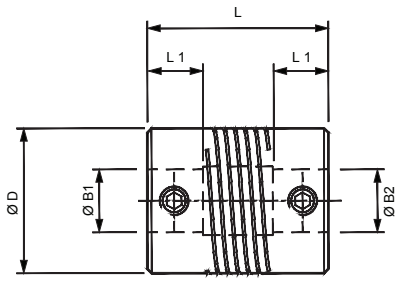
The 3 start helical-cut design provides higher torque capability and reduced wind-up compared with single beam versions.

Multi-Beam is available in three standard materials: stainless steel, aluminium and acetal, for shaft diameters from 1mm to 38mm.

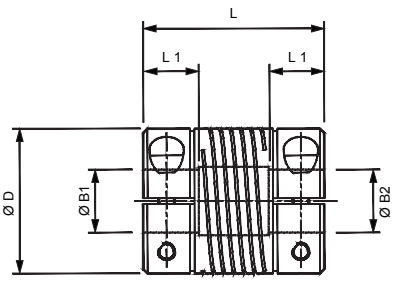
Multi-Beam

Stainless Steel Multi-Helix Flexible 3 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Stainless Steel 303 S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F

(–40°C to +140°C)

3-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters Min B1	Min B2	Max B1 & B2	Mass kgx10-3	Fasteners Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)	② Angular Offset Deg.	② Parallel Offset mm	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
		COUPLING REF																
Relieved	6	720.06	–	.25 (6.4)	0.5 (12.7)	.13 (3.2)	1.0	2.0	3.0	1.93	M2	–	0.71 (0.08)	.035 (0.9)	3	.003 (.07)	1.53	3.98 (0.45)
	9	720.09	–	.37 (9.5)	.56 (14.2)	.18 (4.5)	2.0	3.0	3.18	5.85	M2.5	-	2.04 (0.23)	.051 (1.3)	3	.004 (0.1)	16	4.43 (0.50)
		–	721.09								-	M1.6	1.33 (0.15)	.059 (1.5)				
	13	720.13	–	0.5 (12.7)	.75 (19.1)	.24 (6.0)	3.0	4.0	5.0	13.7	M3	-	2.83 (0.32)	.059 (1.5)	5	.005 (.127)	54	8.85 (1.0)
		–	721.13								-	M2	2.66 (0.30)	.059 (1.5)				
	16	720.16	–	.63 (15.9)	.80 (20.3)	.26 (6.5)	3.0	4.0	6.35	22.9	M4	-	9.29 (1.05)	.079 (2.0)	5	.005 (.127)	81	15.9 (1.80)
		–	721.16								-	M2.5	6.02 (0.68)	.079 (2.0)				
	19	720.19	–	.75 (19.1)	.90 (22.9)	.26 (6.5)	4.0	4.76	8.0	35.9	M4	-	9.29 (1.05)	.079 (2.0)	5	.005 (.127)	143	23.9 (2.70)
		–	721.19								-	M2.5	6.02 (0.68)	.079 (2.0)				
	25	720.25	–	1.0 (25.4)	1.25 (31.8)	.35 (9.0)	5.0	6.0	10	92.2	M5	-	18.6 (2.10)	.098 (2.5)	5	.005 (.127)	175	53.1 (6.0)
		–	721.25								-	M3	10.6 (1.20)	.098 (2.5)				
	32	720.32	–	1.25 (31.8)	1.75 (44.5)	.47 (12.0)	6.0	8.0	14	194	M6	-	33.2 (3.75)	0.12 (3.0)	5	.005 (.127)	378	88.5 (10.0)
		–	721.32								-	M4	25.2 (2.85)	0.12 (3.0)				

BORE SIZES 3-BEAM COUPLINGS

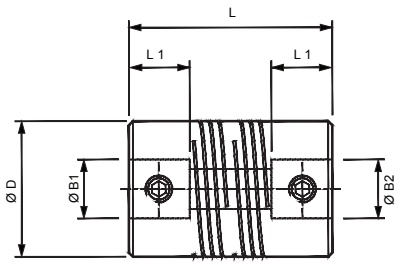
Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)														
	(1)	(2)	(3)	1/8″	(4)	3/16″	(5)	(6)	1/4″	(8)	3/8″	(10)	(12)	1/2″	(14)
6	○	●	●												
9		○	●	●											
13			○	○	●	●	●								
16			○	○	●	●	●	●	●						
19					○	●	●	●	●	●					
25							○	●	●	●	●	●			
32								○	○	●	●	●	●	●	●
Bore ref.	8	11	14	16	18	19	20	22	24	28	31	32	35	36	38

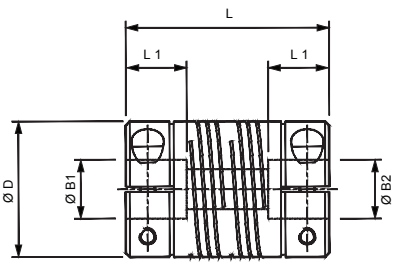
○ B1 only ● B1 & B2

Stainless Steel Multi-Helix Flexible 6 Beam Couplings Non-Relieved

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Stainless Steel 303 S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F

(–40°C to +140°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style / Clamp Type COUPLING REF		ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters Min B1	Min B2	Max B1 & B2	Mass kgx10-3	Fasteners Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)	② Angular Offset Deg.	② Parallel Offset mm	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
Non-Relieved	09	702.09	–	0.4 (9.5)	0.77 (19.6)	0.21 (5.3)	2.0	4.0	4.76	7.0	M2.5	-	2.04 (0.23)	0.51 (1.3)	3.0	.002 (0.12)	5.4	13.3 (1.5)
		–	703.09								-	M1.6	1.33 (0.15)	0.59 (1.5)				
	13	702.13	–	0.5 (12.7)	1.00 (25.4)	0.26 (6.5)	3.0	5.0	6.35	17.0	M3	-	2.83 (0.32)	0.59 (1.5)	5.0	.007 (0.17)	25	26.6 (3.0)
		–	703.13								-	M2	2.66 (0.30)	0.59 (1.5)				
	16	702.16	–	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	6.0	8.0	28.0	M4	-	9.29 (1.05)	.079 (2.0)	5.0	.008 (0.2)	45	44.2 (5.0)
		–	703.16								-	M2.5	6.02 (0.68)	.079 (2.0)				
	19	702.19	–	0.75 (19.1)	1.10 (28.0)	0.26 (6.5)	4.76	6.35	10.0	44.0	M4	-	9.29 (1.05)	.079 (2.0)	7.0	0.01 (0.25)	72	70.8 (8.0)
		–	703.19								-	M3	6.02 (0.68)	.079 (2.0)				
	25	702.25	–	1.00 (25.4)	1.50 (38.1)	0.43 (11.0)	5.0	8.0	12.7	109	M5	-	18.6 (2.10)	.098 (2.5)	7.0	.015 (0.38)	170	141.6 (16.0)
		–	703.25								-	M3	10.6 (1.20)	.098 (2.5)				
	32	702.32	–	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	8.0	10.0	19.0	262	M6	-	33.2 (3.75)	0.12 (3.0)	7.0	0.02 (0.5)	364	221.3 (25.0)
		–	703.32						16.0		-	M4	25.2 (2.85)	0.12 (3.0)				
	38	702.38	–	1.25 (38.1)	2.63 (66.7)	0.71 (18.0)	8.0	12.0	22.0	443	M6	-	33.2 (3.75)	0.12 (3.0)	7.0	.024 (0.6)	634	318.6 (36.0)
		–	703.38						19.0		-	M5	51.8 (5.85)	0.16 (4.0)				
	44	702.44	–	1.75 (44.5)	3.00 (76.2)	0.79 (20.0)	9.0	14.0	25.0	687	M6	-	33.2 (3.75)	0.11 (3.0)	7.0	.031 (0.8)	945	424.8 (48.0)
		–	703.44						22.0		-	M5	51.3 (5.80)	0.16 (4.0)				
	51	702.51	–	2.00 (50.8)	3.75 (95.3)	0.98 (25.0)	10.0	16.0	28.0	1116	M8	-	80.0 (9.00)	0.16 (4.0)	7.0	0.35 (0.9)	1305	646.1 (73.0)
		–	703.51						26.0		-	M6	86.3 (9.75)	0.20 (5.0)				
	57	702.57	–	2.25 (57.2)	5.12 (130)	1.26 (32.0)	10.0	20.0	32.0	1944	M8	-	80.0 (9.00)	0.16 (4.0)	7.0	.037 (0.95)	1755	902.8 (102.0)
		–	703.57						30.0		-	M6	86.3 (9.75)	0.20 (5.0)				
	64	702.64	–	2.5 (63.5)	5.91 (150)	1.5 (38.0)	12.0	25.0	38.0	3234	M8	-	80.0 (9.00)	0.16 (4.0)	7.0	0.39 (1.0)	2340	1,239.0 (140.0)
		–	703.64						36.0		-	M8	212 (24.0)	0.24 (6.0)				

① Length of supported bore.

② Max. compensation values are mutually exclusive.

③ ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor. (***see page 4***)

BORE SIZES 6-BEAM COUPLINGS, NON-RELIEVED

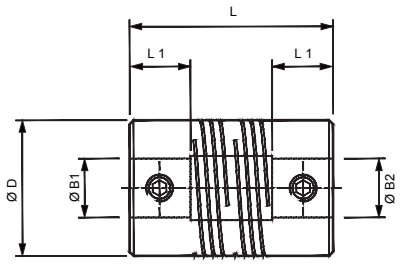
○ B1 only ● B1 & B2 Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)																											
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)	(18)	(19)	3/4"	(20)	(24)	(25)	1"	(28)	(30)	1 1/4"	(32)
9	○	○	○	●	●																						
13		○	○	○	○	●	●	●																			
16		○	○	○	○	○	●	●	●																		
19						○	○	●	●	●	●																
25						○	○	○	●	●	●	●	●														
32									○	○	●	●	●	●	●	●											
38									○	○	○	●	●	●	●	●	●	●	●	●							
44										○	○	○	○	●	●	●	●	●	●	●	●	●					
51											○	○	○	○	○	●	●	●	●	●	●	●	●	●			
57											○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
64												○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58

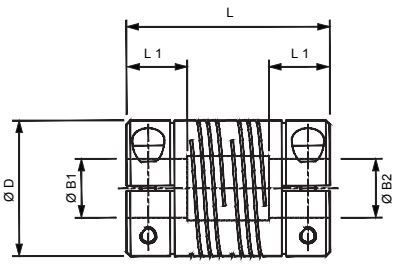
Multi-Beam

Stainless Steel Multi-Helix Flexible 6 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Stainless Steel 303 S31

Fasteners: Stainless Steel

Temperature Range

-40°F to +284°F

(–40°C to +140°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				② Angular Offset Deg.	② Parallel Offset mm	④ Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
		COUPLING REF					Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)				
Relieved	09	722.09	–	0.4 (9.5)	0.77 (19.6)	0.21 (5.3)	2.0	3.0	4.76	6.5	M2.5	-	1.77 (0.2)	0.51 (1.3)	3.0	.002 (0.12)	3.2	797 (0.9)
		–	723.09								-	M1.6	1.33 (0.15)	0.59 (1.5)				
	13	722.13	–	0.5 (12.7)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	6.35	15.0	M3	-	2.83 (0.32)	0.59 (1.5)	5.0	.007 (0.17)	15.0	16.82 (1.9)
		–	723.13								-	M2	2.66 (0.30)	0.59 (1.5)				
	16	722.16	–	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	8	24.0	M4	-	9.29 (1.05)	.079 (2.0)	5.0	.008 (0.2)	27.0	30.09 (3.4)
		–	723.16								-	M2.5	6.02 (0.68)	.079 (2.0)				
	19	722.19	–	0.75 (19.1)	1.10 (28.0)	0.26 (6.5)	4.76	5.0	10	37.0	M4	-	9.29 (1.05)	.079 (2.0)	7.0	0.01 (0.25)	43.0	42.48 (4.8)
		–	723.19								-	M3	6.02 (0.68)	.079 (2.0)				
	25	722.25	–	1.00 (25.4)	1.50 (38.1)	0.43 (11.0)	5.0	6.0	12.7	99.0	M5	-	18.59 (2.10)	.098 (2.5)	7.0	.015 (0.38)	102	88.5 (10.0)
		–	723.25								-	M3	10.6 (1.20)	.098 (2.5)				
	32	722.32	–	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	8.0	9.53	19.0	236	M6	-	33.2 (3.75)	0.12 (3.0)	7.0	0.02 (0.5)	218	115.1 (13.0)
		–	723.32						16.0		-	M4	51.8 (5.85)	0.12 (3.0)				
	38	722.38	–	1.25 (38.1)	2.63 (66.7)	0.71 (18.0)	8.0	12.0	22.0	400	M6	-	33.2 (3.75)	0.12 (3.0)	7.0	.024 (0.6)	380	117.0 (20.0)
		–	723.38						19.0		-	M5	51.8 (5.85)	0.16 (4.0)				
	44	722.44	–	1.75 (44.5)	3.00 (76.2)	0.79 (20.0)	9.0	14.0	25.0	523	M6	-	33.2 (3.75)	0.11 (3.0)	7.0	.031 (0.8)	567	239.0 (27.0)
		–	723.44						22.0		-	M5	51.3 (5.80)	0.16 (4.0)				
	51	722.51	–	2.00 (50.8)	3.75 (95.3)	0.98 (25.0)	10.0	16.0	28.0	996	M8	-	80.0 (9.00)	0.16 (4.0)	7.0	0.35 (0.9)	783	327.5 (37.0)
		–	723.51						26.0		-	M6	86.3 (9.75)	0.20 (5.0)				
	57	722.57	–	2.25 (57.2)	5.12 (130)	1.26 (32.0)	10.0	20.0	32.0	1708	M8	-	80.0 (9.00)	0.16 (4.0)	7.0	.037 (0.95)	1053	442.5 (50.0)
		–	723.57						30.0		-	M6	86.3 (9.75)	0.20 (5.0)				
	64	722.64	–	2.5 (63.5)	5.91 (150)	1.5 (38.0)	12.0	25.0	38.0	2300	M8	-	80.0 (9.00)	0.16 (4.0)	7.0	0.39 (1.0)	1400	757.3 (65.0)
		–	723.64						36.0		-	M8	212 (24.0)	0.24 (6.0)				

① Length of supported bore.

② Max. compensation values are mutually exclusive.

③ ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor. (***see page 4***)

④ Torsional Stiffness values based on maximum bores, for smaller bore combinations the values are nearer the non-relieved type.

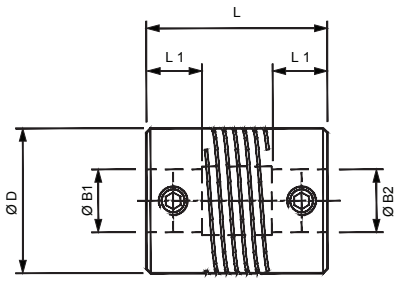
BORE SIZES 6-BEAM COUPLINGS, RELIEVED

○ B1 only ● B1 & B2 Sizes indicated in parenthesis are metric (mm).

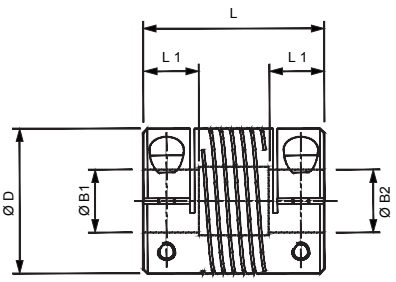
Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)																											
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)	(18)	(19)	3/4"	(20)	(24)	(25)	1"	(28)	(30)	1 1/4"	(32)
9	○	●	●	●	●																						
13		○	○	●	●	●	●	●																			
16		○	○	●	●	●	●	●	●																		
19					○	●	●	●	●	●	●																
25						○	●	●	●	●	●	●	●														
32									○	●	●	●	●	●	●	●											
38									○	●	●	●	●	●	●	●	●	●	●	●							
44										○	○	○	○	●	●	●	●	●	●	●	●	●					
51											○	○	○	○	○	●	●	●	●	●	●	●	●	●			
57											○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
64												○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58

Aluminium Multi-Helix Flexible 3 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40ºF to +284ºF

(–40°C to +120°C)

3-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style / COUPLING REF	Clamp Type / COUPLING REF	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters Min B1	Min B2	Max B1 & B2	Mass kgx10-3	Fasteners Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)	② Angular Offset Deg.	② Parallel Offset mm	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
Relieved	6	724.06	–	.25 (6.4)	0.5 (12.7)	.13 (3.2)	1.0	2.0	3.0	0.7	M2	–	1.77 (0.2)	.035 (0.9)	3.0	.003 (.07)	1.53	354 (0.40)
	9	724.09	–	.37 (9.5)	.56 (14.2)	.18 (4.5)	2.0	3.0	3.18	2.2	M2.5	-	4.87 (0.55)	.051 (1.3)	3.0	.004 (0.1)	5.4	354.02 (0.40)
		–	725.09								-	M1.6		.059 (1.5)				
	13	724.13	–	0.5 (12.7)	.75 (19.1)	.24 (6.0)	3.0	4.0	5.0	5.0	M3	-	8.0 (0.90)	.059 (1.5)	5.0	.005 (.127)	28.0	796.57 (0.90)
		–	725.13								-	M2		.059 (1.5)				
	16	724.16	–	.63 (15.9)	.80 (20.3)	.26 (6.5)	3.0	4.0	6.35	8.2	M4	-	19.5 (2.2)	.079 (2.0)	5.0	.005 (.127)	38.0	13.28 (1.50)
		–	725.16								-	M2.5		.079 (2.0)				
	19	724.19	–	.75 (19.1)	.90 (22.9)	.26 (6.5)	4.0	4.76	8.0	12.8	M4	-	19.5 (2.2)	.079 (2.0)	5.0	.005 (.127)	65.0	22.13 (2.50)
		–	725.19								-	M2.5		.079 (2.0)				
	25	724.25	–	1.0 (25.4)	1.25 (31.8)	.35 (9.0)	5.0	6.0	10	32.6	M5	-	40.7 (4.6)	.098 (2.5)	5.0	.005 (.127)	121	35.4 (4.0)
		–	725.25								-	M3		.098 (2.5)				
	32	724.32	–	1.25 (31.8)	1.75 (44.5)	.47 (12.0)	6.0	8.0	14	70	M6	-	67.3 (7.6)	0.12 (3.0)	5.0	.005 (.127)	238	53.1 (8.0)
		–	725.32								-	M4		0.12 (3.0)				

① Length of supported bore.

② Max. compensation values are mutually exclusive.

③ ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor. (***see page 4***)

BORE SIZES 3-BEAM COUPLINGS

Sizes indicated in parenthesis are metric (mm).

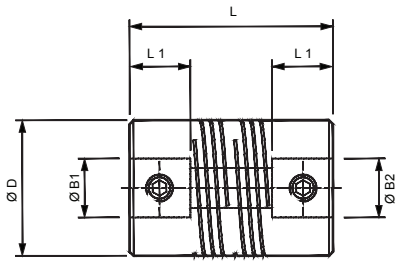
Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)														
	(1)	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)
6	○	●	●												
9		○	●	●											
13			○	○	●	●	●								
16			○	○	●	●	●	●	●						
19					○	●	●	●	●	●					
25							○	●	●	●	●	●			
32								○	○	●	●	●	●	●	●
Bore ref.	8	11	14	16	18	19	20	22	24	28	31	32	35	36	38

○ B1 only ● B1 & B2

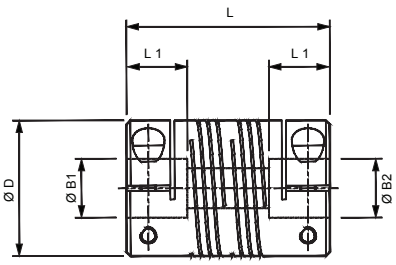
Multi-Beam

Aluminium Multi-Helix Flexible 6 Beam Couplings Non-Relieved

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40°F to +284°F

(–40°C to +120°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters Min B1	Min B2	Max B1 & B2	Mass kgx10-3	Fasteners Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)	② Angular Offset Deg.	② Parallel Offset mm	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
		COUPLING REF																
Non-Relieved	09	706.09	–	0.4 (9.5)	0.77 (19.6)	0.21 (5.3)	2.0	3.0	4.76	2.85	M2.5	-	4.87 (0.55)	0.51 (1.3)	3.0	.002 (0.12)	1.8	8.85 (1.0)
		–	707.09								-	M1.6	2.60 (0.29)	0.59 (1.5)				
	13	706.13	–	0.5 (12.7)	.09 (22.9)	0.26 (6.5)	3.0	4.0	6.35	5.5	M3	-	8.0 (0.90)	0.59 (1.5)	5.0	.007 (0.17)	14.0	17.7 (2.0)
		–	707.13								-	M2	5.84 (0.66)	0.59 (1.5)				
	16	706.16	–	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	8	9,8	M4	-	22.1 (2.5)	.098 (2.5)	5.0	.008 (0.2)	27.0	30.09 (3.4)
		–	707.16								-	M2.5	11.5 (1.3)	.079 (2.0)				
	19	706.19	–	0.75 (19.1)	1.04 (26.5)	0.26 (6.5)	4.76	5.0	10	14.0	M4	-	22.1 (2.5)	.098 (2.5)	7.0	0.01 (0.25)	46.0	46.9 (5.3)
		–	707.19								-	M3	11.5 (1.3)	.079 (2.0)				
	25	706.25	–	1.00 (25.4)	1.50 (38.1)	0.43 (11.0)	5.0	6.0	12.7	38.0	M5	-	40.7 (4.6)	.098 (2.5)	7.0	.015 (0.38)	108	88.5 (10.0)
		–	707.25								-	M3	21.2 (2.4)	.098 (2.5)				
	32	706.32	–	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	8.0	9.53	19.0	92.0	M6	-	67.3 (7.6)	0.12 (3.0)	7.0	0.02 (0.5)	225	132.8 (15.0)
		–	707.32						16.0		-	M4	49.6 (5.6)	0.12 (3.0)				
	38	706.38	–	1.25 (38.1)	2.63 (66.7)	0.71 (18.0)	8.0	12.0	22.0	154	M6	-	67.3 (7.6)	0.12 (3.0)	7.0	.024 (0.6)	315	194.7 (22.0)
		–	707.38						19.0		-	M5	97.4 (11.0)	0.16 (4.0)				
	44	706.44	–	1.75 (44.5)	3.00 (76.2)	0.79 (20.0)	9.0	14.0	25.0	239	M6	-	67.3 (7.6)	0.11 (3.0)	7.0	.031 (0.8)	459	265.5 (30.0)
		–	707.44						22.0		-	M5	97.4 (11.0)	0.16 (4.0)				
	51	706.51	–	2.00 (50.8)	3.75 (95.3)	0.98 (25.0)	10.0	16.0	28.0	389	M8	-	159 (18)	0.16 (4.0)	7.0	0.35 (0.9)	666	354 (40.0)
		–	707.51						26.0		-	M6	168 (19)	0.20 (5.0)				
	57	706.57	–	2.25 (57.2)	5.12 (130)	1.26 (32.0)	10.0	20.0	32.0	674	M8	-	159 (18)	0.16 (4.0)	7.0	.037 (0.95)	918	486.8 (55.0)
		–	707.57						30.0		-	M6	168 (19)	0.20 (5.0)				
	64	706.64	–	2.5 (63.5)	5.91 (150)	1.5 (38.0)	12.0	25.0	38.0	1118	M8	-	159 (18)	0.16 (4.0)	7.0	0.39 (1.0)	1125	663.8 (75.0)
		–	707.64						36.0		-	M8	407 (46)	0.24 (6.0)				

① Length of supported bore.

② Max. compensation values are mutually exclusive.

③ ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor. (***see page 4***)

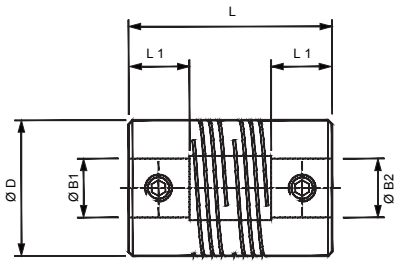
BORE SIZES 6-BEAM COUPLINGS, NON-RELIEVED

○ B1 only ● B1 & B2 Sizes indicated in parenthesis are metric (mm).

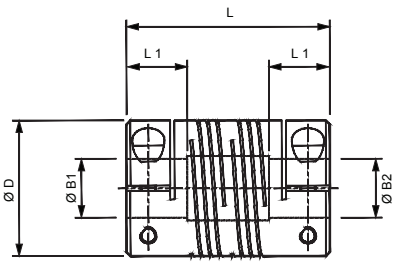
Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)																											
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)	(18)	(19)	3/4"	(20)	(24)	(25)	1"	(28)	(30)	1 1/4"	(32)
9	○	○	○	●	●																						
13		○	○	○	○	●	●	●																			
16		○	○	○	○	○	●	●	●																		
19					○	○	○	●	●	●	●																
25						○	○	○	●	●	●	●	●														
32									○	●	●	●	●	●	●	●											
38									○	○	●	●	●	●	●	●	●	●	●	●							
44										○	○	○	○	●	●	●	●	●	●	●	●	●					
51											○	○	○	○	○	●	●	●	●	●	●	●	●	●			
57											○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
64												○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58

Aluminium Multi-Helix Flexible 6 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel, black oiled

Temperature Range

-40ºF to +284ºF

(–40°C to +120°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style / Clamp Type COUPLING REF		ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters Min B1	Min B2	Max B1 & B2	Mass kgx10-3	Fasteners Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)	② Angular Offset Deg.	② Parallel Offset mm	④ Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
Relieved	09	726.09	–	0.4 (9.5)	0.77 (19.6)	0.21 (5.3)	2.0	3.0	4.76	2.5	M2.5	-	4.87 (0.55)	0.51 (1.3)	3.0	.002 (0.12)	0.9	5.31 (0.6)
		–	727.09								-	M1.6	2.60 (0.29)	0.59 (1.50				
	13	726.13	–	0.5 (12.7)	.09 (22.9)	0.26 (6.5)	3.0	4.0	6.35	5.0	M3	-	8.0 (0.90)	0.59 (1.5)	5.0	.007 (0.17)	7.0	11.5 (1.3)
		–	727.13								-	M2	5.84 (0.66)	0.59 (1.5)				
	16	726.16	–	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	8	8.6	M4	-	19.5 (2.2)	0.59 (1.5)	5.0	.008 (0.2)	13.5	17.7 (2.0)
		–	727.16								-	M2.5	11.5 (1.3)	.079 (2.0)				
	19	726.19	–	0.75 (19.1)	1.04 (26.5)	0.26 (6.5)	4.76	5.0	10	12.4	M4	-	19.5 (2.2)	.098 (2.5)	7.0	0.01 (0.25)	23.0	26.6 (3.0)
		–	727.19								-	M3	11.5 (1.3)	.079 (2.0)				
	25	726.25	–	1.00 (25.4)	1.50 (38.1)	0.43 (11.0)	5.0	6.0	12.7	35.0	M5	-	40.7 (4.6)	.098 (2.5)	7.0	.015 (0.38)	54	44.25 (5.0)
		–	727.25								-	M3	21.2 (2.4)	.098 (2.5)				
	32	726.32	–	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	8.0	9.53	19.0	84.0	M6	-	67.3 (7.6)	0.12 (3.0)	7.0	0.02 (0.5)	112	61.96 (7.0)
		–	727.32						16.0		-	M4	49.6 (5.6)	0.12 (3.0)				
	38	726.38	–	1.25 (38.1)	2.63 (66.7)	0.71 (18.0)	8.0	12.0	22.0	140	M6	-	67.3 (7.6)	0.12 (3.0)	7.0	.024 (0.6)	157	97.36 (11.0)
		–	727.38						19.0		-	M5	97.4 (11.0)	0.16 (4.0)				
	44	726.44	–	1.75 (44.5)	3.00 (76.2)	0.79 (20.0)	9.0	14.0	25.0	218	M6	-	67.3 (7.6)	0.11 (3.0)	7.0	.031 (0.8)	229	132.7 (15.0)
		–	727.44						22.0		-	M5	97.4 (11.0)	0.16 (4.0)				
	51	726.51	–	2.00 (50.8)	3.75 (95.3)	0.98 (25.0)	10.0	16.0	28.0	348	M8	-	159 (18)	0.16 (4.0)	7.0	0.35 (0.9)	333	177.0 (20.0)
		–	727.51						26.0		-	M6	168 (19)	0.20 (5.0)				
	57	726.57	–	2.25 (57.2)	5.12 (130)	1.26 (32.0)	10.0	20.0	32.0	593	M8	-	159 (18)	0.16 (4.0)	7.0	.037 (0.95)	459	247.8 (28.0)
		–	727.57						30.0		-	M6	168 (19)	0.20 (5.0)				
	64	726.64	–	2.5 (63.5)	5.91 (150)	1.5 (38.0)	12.0	25.0	38.0	1198	M8	-	159 (18)	0.16 (4.0)	7.0	0.39 (1.0)	560	336.6 (38.0)
		–	727.64						36.0		-	M8	407 (46)	0.24 (6.0)				

① Length of supported bore.

② Max. compensation values are mutually exclusive.

③ ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor. (***see page 4***)

④ Torsional Stiffness values based on maximum bores, for smaller bore combinations the values are nearer the non-relieved type.

BORE SIZES 6-BEAM COUPLINGS, RELIEVED

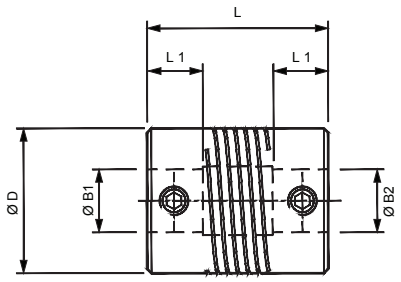
○ B1 only ● B1 & B2 Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm) (2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)	(18)	(19)	3/4"	(20)	(24)	(25)	1"	(28)	(30)	1 1/4"	(32)
9	○	●	●	●																							
13		○	○	●	●	●	●	●																			
16		○	○	●	●	●	●	●	●																		
19					○	●	●	●	●	●	●																
25						○	●	●	●	●	●	●	●														
32									○	●	●	●	●	●	●	●											
38									○	●	●	●	●	●	●	●	●	●	●	●							
44										○	○	○	○	●	●	●	●	●	●	●	●	●					
51											○	○	○	○	○	●	●	●	●	●	●	●	●	●			
57											○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
64												○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42	45	46	47	48	51	52	53	54	56	57	58

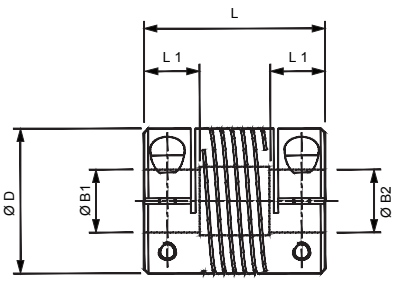
Multi-Beam

Acetal Multi-Helix Flexible 3 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Acetal (natural)
Fasteners: Stainless Steel

Temperature Range

-20°F to +140°F

(–20°C to +60°C)

3-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				② Angular Offset Deg.	② Parallel Offset mm	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
		COUPLING REF					Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)				
Relieved	13	728.13	–	0.50 (12.7)	.750 (19.1)	0.24 (6.0)	3.0	4.0	5.0	2.9	M3	-	2.83 (0.32)	.059 (1.5)	5.0	.005 (.127)	1.9	2.12 (0.24)
		–	729.13								-	M2	2.04 (0.23)	.059 (1.5)				
	16	728.16	–	0.63 (15.9)	0.80 (20.3)	0.26 (6.5)	3.0	4.0	6.0	4.9	M4	-	9.29 (1.05)	.079 (2.0)	5.0	.005 (.127)	2.7	3.10 (0.35)
		–	729.16								-	M2.5	4.51 (0.51)	.079 (2.0)				
	19	728.19	–	0.75 (19.1)	0.90 (22.9)	0.26 (6.5)	4.0	4.76	8.0	7.5	M4	-	9.29 (1.05)	.079 (2.0)	5.0	.005 (.127)	4.0	5.66 (0.64)
		–	729.19								-	M2.5	4.51 (0.51)	.079 (2.0)				
	25	728.25	–	1.0 (25.4)	1.25 (31.8)	0.35 (9.0)	5.0	6.0	10.0	19.0	M5	-	18.6 (2.10)	.098 (2.5)	5.0	.005 (.127)	11	12.39 (1.40)
		–	729.25								-	M3	8.0 (0.90)	.098 (2.5)				
	32	728.32	–	1.25 (31.8)	1.75 (44.5)	0.47 (12.0)	6.0	8.0	14.0	44.0	M6	-	33 (3.75)	0.12 (3.0)	5.0	.005 (.127)	21	22.13 (2.50)
		–	729.32								-	M4	18.9 (2.14)	0.12 (3.0)				

① Length of supported bore.

② Max. compensation values are mutually exclusive.

③ ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor. (***see page 4***)

BORE SIZES 3-BEAM COUPLINGS

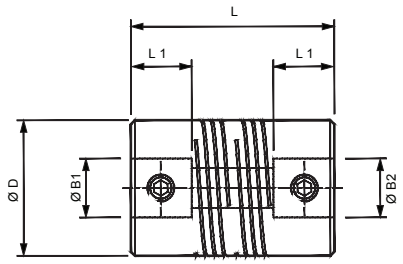
Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)												
	(1)	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)
6	○	●	●										
9		○	●	●									
13			○	○	●	●	●						
16			○	○	●	●	●	●					
19					○	●	●	●	●	●			
25							○	●	●	●	●	●	
32								○	○	●	●	●	●
Bore ref.	8	11	14	16	18	19	20	22	24	28	31	32	35

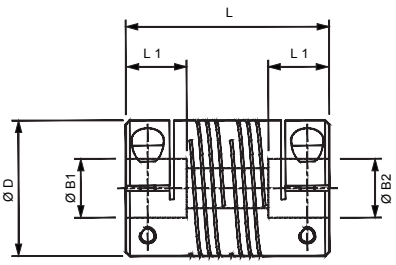
○ B1 only ● B1 & B2

Acetal Multi-Helix Flexible 6 Beam Couplings Non-Relieved

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Acetal (natural)
Fasteners: Stainless Steel

Temperature Range

-20°F to +140°F

(–40°C to +60°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				② Angular Offset Deg.	② Parallel Offset mm	④ Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
		COUPLING REF					Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm))	Wrench in. (mm)				
Non-Relieved	13	710.13	–	0.50 (12.7)	0.9 (22.9)	0.26 (6.5)	3.0	5.0	6.0	3.2	M3	-	2.83 (0.32)	.059 (1.5)	5.0	.007 (0.17)	1.3	4.51 (0.51)
		–	711.13								-	M2	2.04 (0.23)	.059 (1.5)				
	16	710.16	–	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	6.0	8.0	5.4	M4	-	9.29 (1.05)	.079 (2.0)	5.0	.008 (0.2)	1.8	8.05 (0.91)
		–	711.16								-	M2.5	4.51 (0.51)	.079 (2.0)				
	19	710.19	–	0.75 (19.1)	1.04 (26.5)	0.26 (6.5)	4.0	6.35	9.53	8.0	M4	-	9.29 (1.05)	.079 (2.0)	7.0	0.01 (0.25)	2.7	11.5 (1.3)
		–	711.19								-	M2.5	4.51 (0.51)	.079 (2.0)				
	25	710.25	–	1.0 (25.4)	1.5 (38.1)	0.43 (11.0)	5.0	8.0	12.0	21.0	M5	-	18.6 (2.10)	.098 (2.5)	7.0	0.15 (0.38)	8.0	22.13 (2.5)
		–	711.25								-	M3	8.0 (0.90)	.098 (2.5)				
	32	710.32	–	1.25 (31.8)	2.25 (57.2)	0.63 (16.0)	6.0	10.0	16.0	51.0	M6	-	33 (3.75)	0.12 (3.0)	7.0	0.02 (0.5)	14.0	35.4 (4.0)
		–	711.32								-	M4	18.9 (2.14)	0.12 (3.0)				

① Length of supported bore.

② Max. compensation values are mutually exclusive.

③ ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor. (***see page 4***)

④ Torsional Stiffness values based on maximum bores, for smaller bore combinations the values are nearer the non-relieved type.

BORE SIZES 6-BEAM COUPLINGS, NON-RELIEVED

Sizes indicated in parenthesis are metric (mm).

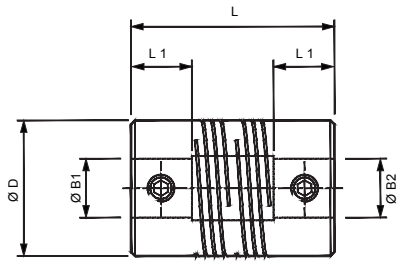
Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)															
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"	(14)	5/8"	(16)
9	○	○	○	●	●											
13		○	○	○	○	●	●									
16		○	○	○	○	○	●	●	●							
19					○	○	○	●	●	●						
25						○	○	○	●	●	●	●				
32	●								○	○	●	●	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	38	41	42

○ B1 only ● B1 & B2

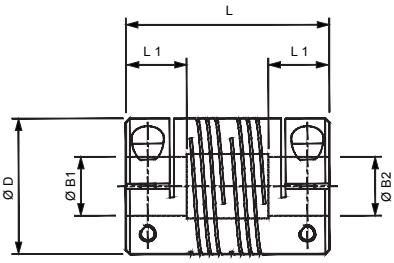
Multi-Beam

Acetal Multi-Helix Flexible 6 Beam Couplings

Set Screw Hubs



Clamp Hubs



Materials & Finishes

Couplings: Acetal (natural)
Fasteners: Stainless Steel

Temperature Range

-20ºF to +140ºF

(–20°C to +60°C)

6-BEAM COUPLINGS: DIMENSIONS & ORDER CODES

Coupling Type & Size		Set Screw Style	Clamp Type	ØD in. (mm)	L in. (mm)	① L1 in. (mm)	Bore Diameters			Mass kgx10-3	Fasteners				② Angular Offset Deg.	② Parallel Offset mm	Torsional Stiffness Nm/rad	③ Peak Torque lb.in (Nm)
		COUPLING REF					Min B1	Min B2	Max B1 & B2		Set Screw	Cap Screw	Torque lbs.-in. (Nm)	Wrench in. (mm)				
Relieved	13	730.13	–	0.50 (12.7)	0.9 (22.9)	0.26 (6.5)	3.0	4.0	5.0	3.2	M3	-	2.83 (0.32)	.059 (1.5)	5.0	.007 (0.17)	0.5	2.83 (.32)
		–	731.13								-	M2	2.04 (0.23)	.059 (1.5)				
	16	730.16	–	0.63 (15.9)	1.00 (25.4)	0.26 (6.5)	3.0	4.0	6.35	5.4	M4	-	9.29 (1.05)	.079 (2.0)	5.0	.008 (0.2)	0.7	5.40 (.61)
		–	731.16								-	M2.5	4.51 (0.51)	.079 (2.0)				
	19	730.19	–	0.75 (19.1)	1.04 (26.5)	0.26 (6.5)	4.0	5.0	8.0	7.8	M4	-	9.29 (1.05)	.079 (2.0)	7.0	0.01 (0.25)	1.0	7.70 (.87)
		–	731.19								-	M2.5	4.51 (0.51)	.079 (2.0)				
	25	730.25	–	1.0 (25.4)	1.5 (38.1)	0.43 (11.0)	5.0	6.0	10.0	21.0	M5	-	18.6 (2.10)	.098 (2.5)	7.0	.015 (0.38)	3.2	14.80 (1.67)
		–	731.25								-	M3	8.0 (0.90)	.098 (2.5)				
	32	730.32	–	1.25 (31.8)	1.25 (31.8)	2.25 (57.2)	8.0	9.53	12.7	52.0	M6	-	33 (3.75)	0.12 (3.0)	7.0	0.02 (0.5)	5.6	21.1 (2.4)
		–	731.32								-	M4	18.9 (2.14)	0.12 (3.0)				

① Length of supported bore.

② Max. compensation values are mutually exclusive.

③ ***Peak torque***. Select a size where Peak Torque exceeds the application torque x service factor. (***see page 4***)

BORE SIZES 6-BEAM COUPLINGS, RELIEVED

Sizes indicated in parenthesis are metric (mm).

Coupling Size	ØB1, ØB2 +0.0012/ -0 (+0.03mm/-0mm)												
	(2)	(3)	1/8"	(4)	3/16"	(5)	(6)	1/4"	(8)	3/8"	(10)	(12)	1/2"
9	○	●	●	●	●								
13		○	○	●	●	●							
16		○	○	●	●	●	●	●					
19					○	●	●	●	●				
25						○	●	●	●	●	●		
32									○	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36

○ B1 only ● B1 & B2