

Rocom Corp.

Precision Flexible Shaft Couplings



Flexibility in design and products

www.rocomcorp.com

A SERIES - THE PRECISION GENERAL PURPOSE FLEXIBLE COUPLING

SIX SHORT DOUBLE TAPERED CURVED BEAMS - TWO SETS OF THREE BEAMS

FOR ALL TYPES OF OEM PRODUCTS

Notes

1. Nomenclature



AT000050-C.250-C.187

B₁ Largest Bore
B₂ Smallest Bore

For key way, hex bores, nickel plating, stainless steel screws and other standard options see page 4.

2. All **THRU BORE** couplings have an inside relief so the shafts will not touch the beams at the maximum misalignment ratings. These bores are shown in **blue** and white.

3. All **LIMITED BORE** couplings having the same OD have the same ID. The torque, stiffness and inertia are the same for all bores. When the bores are in **blue**, the maximum shaft penetration is E depth. When one bore is in white it can extend into the flexible area. Torque and wind-up is shown in **blue**.

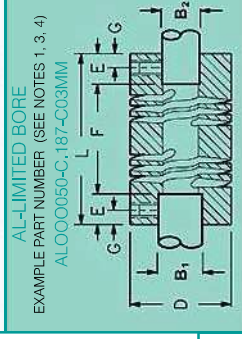
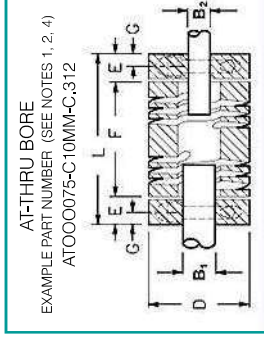
4. Any B₁ may be combined with any B₂. The smallest B₂ bores cannot be duplicated in the B₁ column where they are not already shown. The smallest B₁ inside circumferential length determines the misalignment rating.

5. Set screws are 120° apart. All screws are hex socket steel with black oxide finish. The torques are the screw manufacturers maximum ratings. For screw variations see page 4.

6. Coupling material is 2024-T3.51 QQ-A225/6 aluminum, black anodized to MIL A8625F Type II Class 2.

7. Nickel plating for added corrosion resistance is available for all Rocom couplings. See page 4.

8. G10 phenolic inserts for thermal and electrical isolation are available for all Rocom couplings.



A SERIES PART NUMBER	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SCREW MM INCH TORQUE Nm LB.IN.	MISALIGNMENT SEE DEFINITIONS PAGE 25			SET SCREW MM INCH TORQUE Nm LB.IN.	SEE NOTES 5 • 12
							ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH		
AT000037 AL000037	9.40 .370	14.40 .560	3.80 .150	4.06 .160	2.08 .082	M1.6X.35 .029 0-80 3	2°	0.13 0.005	± .05 ± .002	M2X.4 .021 2-56 1.8	SEE NOTES 2, 3, 4
AT000050 AL000050	12.60 .495	19.00 .750	4.40 .175	10.16 .400	2.35 .092	M2X.4 .60 1-72 5	3°	0.18 0.007	± .13 ± .005	M3X.5 .92 4-40 5	SEE NOTES 2, 3, 4
AT000062 AL000062	15.75 .620	22.10 .870	5.08 .200	11.93 .470	2.54 .100	M2X.4 .60 2-56 7	4°	0.20 0.003	± .13 ± .005	M3X.5 .92 6-32 10	SEE NOTES 2, 3, 4

9. Static torque is the maximum torque rating for each B₁ bore. The correct dynamic torque safety factor should be determined by the customer in accordance with acceleration, deceleration, fast reversals, sudden stops, etc.

10. Torque and torsional stiffness ratings are at maximum misalignment, not in a straight line.

11. Mass and inertia are calculated with the customer's required B₁ bore and the smallest B₂ bore shown.

12. Clamps are an integral part of the coupling and cannot be removed.

13. The installation procedures shown on page 26 should be followed to insure infinite life.

14. **TEST BEFORE YOU BUY.** Rocom will furnish samples at no charge for all new OEM designs or for comparative evaluation.



SET SCREW



CLAMP



CUT AWAY VIEW

B ₁ BORE MM + .25 - .000 INCH + .001 - .000	B ₂ BORE MM + .25 - .000 INCH + .001 - .000	STATIC TORQUE Nm LB.IN.	TORSIONAL STIFFNESS MN/M MIN/LB.IN.	INERTIA 10 ⁻³ kgm ² 10 ⁻³ lb.in ²	MASS kg lb
3	1	0.59	7.86	0.000	0.002
3	2	0.57	7.86	0.000	0.002
4	3	0.52	6.00	0.000	0.002
5	4	0.31	4.35	0.000	0.002
4	5	0.96	5.15	0.001	0.005
5	6	0.77	6.50	0.001	0.005
6	7	0.61	11.75	0.001	0.005
8	8	1.13	4.59	0.003	0.009
4	9	1.81	2.44	0.003	0.010
5	10	1.70	2.55	0.003	0.010
6	11	1.47	3.41	0.003	0.010
8	12	1.13	4.59	0.003	0.009

A SERIES - THE PRECISION GENERAL PURPOSE FLEXIBLE COUPLING

SIX SHORT DOUBLE TAPERED CURVED BEAMS - TWO SETS OF THREE BEAMS

FOR ALL TYPES OF OEM PRODUCTS

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A SERIES - THE PRECISION GENERAL PURPOSE FLEXIBLE COUPLING

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B SERIES - PRECISION LIGHT DUTY FLEXIBLE COUPLING

SIX SHORT THIN DOUBLE TAPERED CURVED BEAMS - TWO SETS OF THREE BEAMS LIGHT RADIAL LOAD FOR PRECISION BEARINGS

Notes

1. Nomenclature



BT000100-C06MM-C04MM

B₁ Largest Bore

B₂ Smallest Bore

For key way, hex bores, nickel plating, stainless steel screws and other standard options see page 4.

2. All **THRU BORE** couplings have an inside relief so the shafts will not touch the beams at the maximum misalignment ratings. These bores are shown in **blue** and white.

3. All **LIMITED BORE** couplings having the same OD have the same ID. The torque, stiffness and inertia are the same for all bores. When the bores are in **blue**, the maximum shaft penetration is E depth. When one bore is in white it can extend into the flexible area. Torque and wind-up is shown in **blue**.

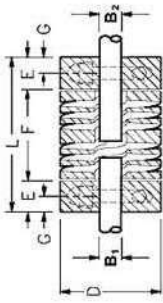
6. Coupling material is 2024-T3.51 QQA225/6 aluminum, black anodized to MIL A8625F Type II Class 2.

7. Nickel plating for added corrosion resistance is available for all Rocom couplings. See page 4.

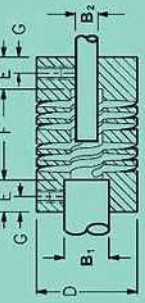
8. G10 phenolic inserts for thermal and electrical isolation are available for all Rocom couplings.

5. Set screws are 120° apart. All screws are hex socket steel with black oxide finish. The torques are the screw manufacturers maximum ratings. For screw variations see page 4.

BT-THRU BORE
EXAMPLE PART NUMBER (SEE NOTES 1, 2, 4)
BT000100-C08MM-C06MM



BL-LIMITED BORE
EXAMPLE PART NUMBER (SEE NOTES 1, 3, 4)
BL000075-C-250-C-187



SET SCREW



CLAMP



CUT AWAY VIEW



9. Static torque is the maximum torque rating for each B₁ bore. The correct dynamic torque safety factor should be determined by the customer in accordance with acceleration, deceleration, fast reversals, sudden stops, etc.

12. Clamps are an integral part of the coupling and cannot be removed.

13. The installation procedures shown on page 26 should be followed to insure infinite life.

14. **TEST BEFORE YOU BUY.** Rocom will furnish samples at no charge for all new OEM designs or for comparative evaluation.

10. Torque and torsional stiffness ratings are at maximum misalignment, not in a straight line.

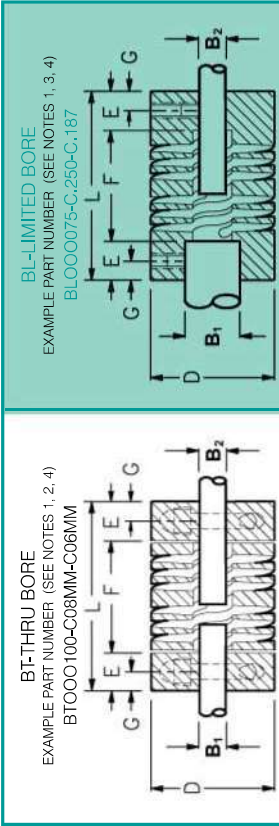
11. Mass and inertia are calculated with the customer's required B₁ bore and the smallest B₂ bore shown.

B SERIES PART NUMBER	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SCREW MM INCH TORQUE Nm LB.IN.	MISALIGNMENT SEE DEFINITIONS PAGE 25			SET SCREW MM INCH TORQUE Nm LB.IN.	SEE NOTES 5-12		B ₁ BORE MM INCH + .25 - .000 + .001 - .000	B ₂ BORE MM INCH + .25 - .000 + .001 - .000	SEE NOTES 2, 3, 4		STATIC TORQUE Nm LB.IN.	SEE NOTES 9-10		TORSIONAL STIFFNESS MMV/Nm MIN/LB.IN.	SEE NOTE 10		INERTIA 10 ⁻³ kgm ² 10 ⁻³ lb.in. ²	SEE NOTE 11		MASS kg lb	SEE NOTE 11	
							ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH																			
BT000037 BL000037	9.40 .370	12.70 .50	3.80 .150	5.00 .200	1.90 0.075	M1.6X.35 0.29 0-80 3	1.5°	0.05 0.002	± .05 ± .002	M2X.4 0.21 2-56 1.8			3 3 4	0.120 0.125 0.156	1 2 2.5	0.031 0.062 0.093	0.59 0.57 0.52	5.2 5.1 4.6	7.86 7.86 6.00	68.00 68.00 53.20			0.086 0.086 0.084	0.000 0.000 0.000	0.002 0.002 0.002	0.004 0.004 0.004		
BT000050 BL000050	12.60 .495	12.70 .50	3.80 .150	5.00 .200	1.90 0.075	M1.6X.35 0.29 0-80 3	3°	0.07 0.003	± .07 ± .003	M2X.4 0.21 2-56 1.8			3 3 4 5	0.120 0.125 0.156 0.187	2.5 3 4 5	0.093 0.125 0.156 0.187	0.96 0.77 0.61 0.59	8.5 6.8 5.4 4.6	26.8 26.8 33.9 6.51	23.75 23.75 30.00 57.60			0.310 0.310 0.308 0.305	0.0001 0.0001 0.0001 0.0001	0.004 0.004 0.004 0.004	0.009 0.009 0.009 0.008		
BT000062 BL000062	15.75 .620	15.75 .62	4.55 .180	6.60 .260	1.90 0.075	M2X.4 .60 1-72 5	4°	0.13 0.005	± .13 ± .005	M3X.5 0.92 4-40 5			4 5 6	0.156 0.187 0.250	3 4 6	0.125 0.187 0.250	1.58 1.56 1.24	14.4 13.8 11.1	2.17 3.18 3.36	19.20 21.14 29.76			0.832 0.828 0.815	0.0002 0.0002 0.0002	0.007 0.007 0.007	0.016 0.015 0.014		

B SERIES - PRECISION LIGHT DUTY FLEXIBLE COUPLING

SIX SHORT THIN DOUBLE TAPERED CURVED BEAMS - TWO SETS OF THREE BEAMS LIGHT RADIAL LOAD FOR PRECISION BEARINGS

B SERIES PART NUMBER	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SCREW MM INCH	SET TORQUE Nm LB.IN.	MISALIGNMENT SEE DEFINITIONS PAGE 25		AXIAL MOTION MM INCH
								ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	
BT000075 BLO00075	19.00	19.00	5.60	7.80	2.40	M2X.4 .60	M3X.5 0.92		0.20	± .13
	.745	.75	.220	.310	0.095	2-56 7	6-32 10	5°	0.008	± .005
	25.40	25.40	7.10	11.20	3.20	M3X.5 2.1	M4X.7 2.2		0.25	± .25
	.995	1.00	.280	.440	0.125	4-40 18	8-32 20	5°	0.010	± .010
BT000125 BLO00125	31.50	31.75	7.87	16.00	3.55	M3X.5 2.1	M5X.8 2.2		0.25	± .30
	1.240	1.25	.310	.630	.140	6-32 34	10-24 36	5°	0.010	± .012
	37.70	38.00	10.16	17.87	4.45	M4X.7 4.6	M5X.8 2.2		0.25	± .30
	1.485	1.50	.400	.700	0.175	8-32 59	10-24 36	5°	0.010	± .012
BT000150 BLO00150	40.90	41.00	10.41	20.32	5.00	M5X.8 9.5	M5X.8 2.2		0.38	± .38
	1.610	1.62	.410	.800	0.195	10-24 77	10-24 36	5°	0.015	± .015

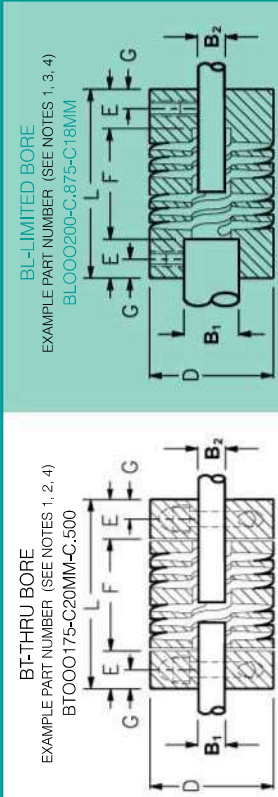


SEE NOTES 2, 3, 4		SEE NOTES 2, 3, 4		SEE NOTES 9 - 10		SEE NOTE 10		SEE NOTE 11		SEE NOTE 11	
		2	0.062								
		3	0.120								
		3	0.125								
		4	0.156								
5	0.187	5	0.187	2.71	24	0.98	8.64	0.0007	2.483	0.015	0.032
6	0.250	6	0.250	2.26	20	1.19	10.56	0.0007	2.463	0.014	0.031
8	0.312	8	0.312	1.81	16	1.37	12.16	0.0007	2.422	0.013	0.029
		3	0.120								
		3	0.125								
		4	0.156								
		5	0.187								
6	0.250	6	0.250	6.21	55	0.45	4.00	0.0026	9.020	0.031	0.067
8	0.312	8	0.312	5.64	49	0.51	4.48	0.0026	8.976	0.030	0.065
10	0.375	10	0.375	4.75	42	0.63	5.60	0.0026	8.888	0.028	0.062
		5	0.187								
6	0.250	6	0.250	13.56	120	0.17	1.51	0.0077	26.33	0.058	0.127
8	0.312	8	0.312	12.65	112	0.20	1.79	0.0077	26.29	0.057	0.125
10	0.375	10	0.375	11.64	103	0.24	2.09	0.0077	26.18	0.056	0.122
12	0.437	12	0.437	10.85	96	0.26	2.32	0.0076	26.00	0.054	0.119
14	0.500	14	0.500	19.50	84	0.33	2.91	0.0075	25.71	0.052	0.114
		6	0.250								
		8	0.312								
10	0.375	10	0.375	15.82	162	0.14	1.27	0.0193	66.03	0.099	0.218
13	0.437	13	0.437	15.48	149	0.16	1.48	0.0193	65.83	0.097	0.214
14	0.500	14	0.500	15.25	134	0.21	1.86	0.0192	65.51	0.095	0.209
16	0.625	16	0.625	12.65	121	0.25	2.23	0.0190	64.79	0.091	0.201
18	0.687	18	0.687	10.62	108	0.38	3.40	0.0187	64.04	0.089	0.195
		8	0.312								
		10	0.375								
12	0.437	12	0.437	20.34	180	0.13	1.11	0.0286	97.83	0.124	0.273
14	0.500	14	0.500	19.77	175	0.15	1.35	0.0285	97.43	0.121	0.267
16	0.625	16	0.625	18.20	161	0.18	1.56	0.0283	96.59	0.117	0.258
18	0.687	18	0.687	17.17	152	0.22	1.98	0.0280	95.85	0.114	0.250
20	0.750	20	0.750	15.03	133	0.29	2.56	0.0276	94.37	0.110	0.242

B SERIES - PRECISION LIGHT DUTY FLEXIBLE COUPLING

SIX SHORT THIN DOUBLE TAPERED CURVED BEAMS - TWO SETS OF THREE BEAMS
LIGHT RADIAL LOAD FOR PRECISION BEARINGS

B SERIES PART NUMBER	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005 SEE NOTE 3	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SCREW MM INCH TORQUE Nm LB.IN. SEE NOTES 5 • 12	MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE MM + .25 - .000 INCH + .001 - .000 SEE NOTES 2, 3, 4	B ₂ BORE MM + .25 - .000 INCH + .001 - .000 SEE NOTES 2, 3, 4	STATIC TORQUE Nm LB.IN. SEE NOTES 9 • 10	TORSIONAL STIFFNESS MM/Nm MIN/LB.IN. SEE NOTE 10	INERTIA		MASS			
							ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH					10 ⁻³ kgm ²	10 ⁻³ lb.in. ²	kg	lb		
SEE NOTE 1 SEE NOTE 4																	SEE NOTE 11		
BT000175 BLO00175	44.00	44.50	10.41	23.60	5.00	M5X .8 9.5	M5X .8 2.2		0.38	± .38									
	1.735	1.75	.410	.930	0.195	10-24 36	10-24 36	5°	0.015	± .015				0.07	0.84	0.0418	142.7	0.153	0.338
														0.08	0.93	0.0415	141.8	0.149	0.328
														0.08	1.22	0.0412	140.8	0.145	0.319
														0.09	1.35	0.0408	139.3	0.141	0.310
														0.10	1.65	0.0400	136.6	0.134	0.295
BT000200 BLO00200	50.00	50.80	10.41	29.97	5.00	M5X .8 9.5	M5X .8 2.2		0.50	± .50									
	1.970	2.00	.410	1.180	0.195	10-24 77	10-24 36	5°	0.020	± .020				0.08	0.74	0.0834	284.9	0.239	0.526
														0.09	0.80	0.0829	283.4	0.231	0.510
														0.10	0.92	0.0825	282.0	0.226	0.499
														0.11	0.97	0.0820	280.1	0.221	0.487
														0.13	1.15	0.0810	276.6	0.213	0.468
BT000225 BLO00225	56.40	57.00	10.41	36.32	5.00	M5X .8 9.5	M5X .8 2.2		.50	± .50									
	2.220	2.25	.410	1.430	0.195	10-24 77	10-24 36	5°	0.020	± .020				0.05	0.45	0.1468	501.7	0.323	0.712
														0.06	0.49	0.1457	497.9	0.313	0.690
														0.06	0.54	0.1440	492.2	0.302	0.666
														0.07	0.62	0.1402	479.2	0.283	0.624
														0.08	0.75	0.1376	470.2	0.272	0.598

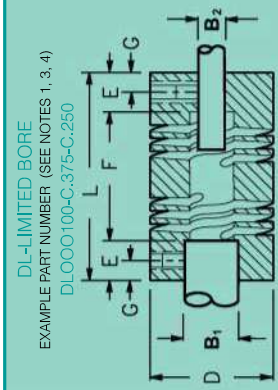
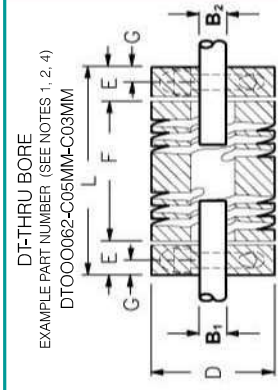




D SERIES - PRECISION HEAVY DUTY FLEXIBLE COUPLING

SIX THICK SHORT DOUBLE TAPERED CURVED BEAMS HAVE MORE SPACE BETWEEN EACH BEAM FOR GREATER MISALIGNMENT

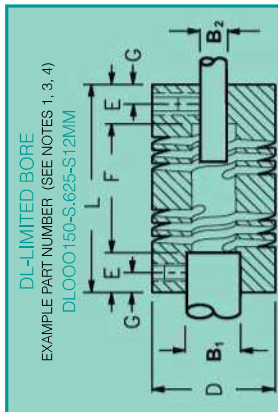
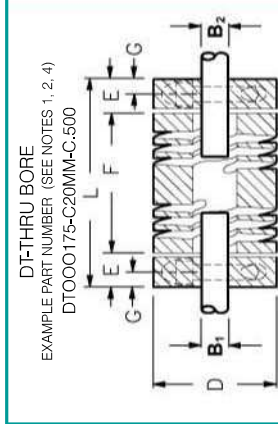
D SERIES PART NUMBER THRU BORE LIMITED BORE SEE NOTE 1 SEE NOTE 4	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005 SEE NOTE 3	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SCREW MM INCH TORQUE Nm LB.IN. SEE NOTES 5 + 12	SET INCH LB.IN.	MISALIGNMENT SEE DEFINITIONS PAGE 25		
								ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH
DT000100 DL000100	25.40 .995	38.00 1.50	10.66 .420	16.51 .650	5.08 .200	M3X.5 2.1 6-32 34 M5X.8 4.0 10-24 36		7°	0.76 0.030	± .50 ± .020
DT000125 DL000125	31.50 1.240	50.80 2.00	10.66 .420	29.20 1.150	5.10 .200	M4X.7 4.6 8-32 59 M5X.8 4.0 10-24 36		10°	1.02 0.040	± .50 ± .025
DT000150 DL000150	37.7 1.485	60.00 2.37	13.08 .515	34.54 1.34	6.00 .240	M5X.8 9.5 10-24 77 M6X1 7.2 1/4-20 87		10°	1.27 0.050	± .50 ± .020
DT000162 DL000162	40.90 1.610	63.50 2.50	13.08 .515	37.59 1.47	6.00 .240	M5X.8 9.5 1/4-20 77 M6X1 7.2 1/4-20 87		10°	1.27 0.050	± .50 ± .020
DT000175 DL000175	44.00 1.735	70.00 2.75	13.08 .515	40.64 1.60	6.00 .240	M5X.8 9.5 1/4-20 77 M6X1 7.2 1/4-20 87		10°	1.40 0.055	± .65 ± .025



D SERIES - PRECISION HEAVY DUTY FLEXIBLE COUPLING

SIX THICK SHORT DOUBLE TAPERED CURVED BEAMS HAVE MORE SPACE BETWEEN EACH BEAM FOR GREATER MISALIGNMENT

D SERIES PART NUMBER	D	L	E	F	G	CLAMP SET		MISALIGNMENT SEE DEFINITIONS PAGE 25		
						SCREW	TORQUE	ANGULAR OFFSET DEGREES	PARALLEL OFFSET	AXIAL MOTION
	MM + .00 - .25 INCH + .000 - .010	MM ± .38 INCH ± .015	MM ± .13 INCH ± .005	MM ± .38 INCH ± .015	MM ± .13 INCH ± .005	MM INCH	MM INCH Nm LB.IN.		MM INCH	MM INCH
DT000200	50.00	76.00	13.08	50.29	6.00	M6X1 16	1/4-20 200	10°	1.50	± .75
DL000200	1.970	3.00	.515	1.97	.240	1/4-20 87			.060	± .030
DT000225	56.40	82.50	13.08	56.64	6.00	M6X1 16	1/4-20 200	10°	1.55	± .75
DL000225	2.220	3.25	.515	2.22	.240	1/4-20 87			.060	± .030



B ₁ BORE	B ₂ BORE	STATIC TORQUE	TORSIONAL STIFFNESS	INERTIA	MASS
MM + .25 - .000 INCH + .001 - .000	MM + .25 - .000 INCH + .001 - .000	Nm LB.IN.	MMNm MIN/LB.IN.	10 ⁻³ kgm ² 10 ⁻³ lb.in. ²	kg lb
SEE NOTES 2, 3, 4	SEE NOTES 2, 3, 4	SEE NOTES 9 • 10	SEE NOTE 10	SEE NOTE 11	SEE NOTE 11
10	0.375				
12	0.437				
14	0.500				
16	0.625	41.47	0.11	0.1209	0.331
18	0.687	40.11	0.14	0.1200	0.322
20	0.750	38.08	0.16	0.1189	0.313
22	0.875	34.80	0.21	0.1169	0.300
12	0.437				
14	0.500				
16	0.625	63.27	0.08	0.2129	0.472
18	0.687	60.80	0.09	0.2116	0.460
20	0.750	57.06	0.10	0.2109	0.454
22	0.875	52.43	0.10	0.2090	0.440
24-25	1.000	47.57	0.10	0.2055	0.421

H SERIES - PRECISION, HIGH TORQUE LOW WIND-UP

THREE THICK SHORT DOUBLE TAPERED CURVED BEAMS FOR HIGH TORQUE AND TORSIONAL RIGIDITY, WITH INFINITE LIFE

Notes

1. Nomenclature



HTOOO050-C04MM-C.02MM

B₁ Largest Bore
B₂ Smallest Bore

For key way, hex bores, nickel plating, stainless steel screws and other standard options see page 4.

2. All **THRU BORE** couplings have an inside relief so the shafts will not touch the beams at the maximum misalignment ratings. These bores are shown in **blue** and white.

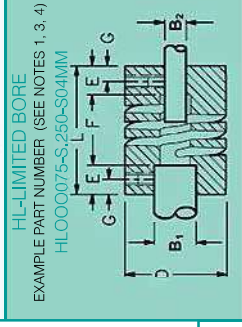
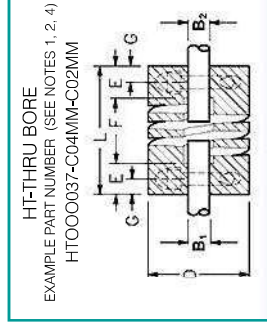
3. All **LIMITED BORE** couplings having the same OD have the same ID. The torque, stiffness and inertia are the same for all bores. When the bores are in **blue**, the maximum shaft penetration is E depth. When one bore is in white it can extend into the flexible area. Torque and wind-up is shown in **blue**.

6. Coupling material is 2024-T3.51 QQA225/6 aluminum, black anodized to MIL A8625F Type II Class 2.

7. Nickel plating for added corrosion resistance is available for all Rocom couplings. See page 4.

8. G10 phenolic inserts for thermal and electrical isolation are available for all Rocom couplings.

5. Set screws are 120° apart. All screws are hex socket steel with black oxide finish. The torques are the screw manufacturers maximum ratings. For screw variations see page 4.



CLAMP

SET SCREW

CUT AWAY VIEW

9. Static torque is the maximum torque rating for each B₁ bore. The correct dynamic torque safety factor should be determined by the customer in accordance with acceleration, deceleration, fast reversals, sudden stops, etc.

10. Torque and torsional stiffness ratings are at maximum misalignment, not in a straight line.

11. Mass and inertia are calculated with the customer's required B₁ bore and the smallest B₂ bore shown.

12. Clamps are an integral part of the coupling and cannot be removed.

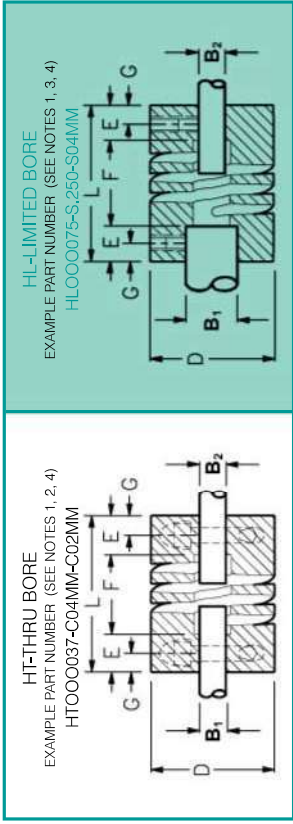
13. The installation procedures shown on page 26 should be followed to insure infinite life.

14. **TEST BEFORE YOU BUY.** Rocom will furnish samples at no charge for all new OEM designs or for comparative evaluation.

H SERIES PART NUMBER	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005 SEE NOTE 3	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SCREW MM INCH TORQUE Nm LB.IN. SEE NOTES 5 - 12	MISALIGNMENT SEE DEFINITIONS PAGE 25			SET TORQUE Nm LB.IN.	SEE NOTES 5 - 12												
							ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH														
BT000037 BLO00037	9.40 .370	12.70 .50	3.80 .150	5.00 .200	1.90 0.075	M1.6X.35 0.29 0-82 3	0.5°	0.02	± .02	M2X.4 0.21 2-56 1.8	SEE NOTES 5 - 12	0.5°	0.02	± .02	3 0.120 3 0.125 4 0.156	1 0.031 2 0.062 2.5 0.093	SEE NOTES 2, 3, 4	SEE NOTES 9-10	22.61 2.55 22.63 25.42	0.079 0.0000 0.079 0.078	10 ⁻³ kgm ² 10 ⁻³ lb.in. ²	0.002 0.002 0.002 0.002	0.004 0.004 0.004 0.004
BT000050 BLO00050	12.60 .495	12.70 .50	3.80 .150	5.00 .200	1.90 0.075	M1.6X.35 0.29 0-82 3	0.5°	0.04	± .04	M2X.4 0.21 2-56 1.8	SEE NOTES 5 - 12	0.5°	0.04	± .04	3 0.120 3 0.125 4 0.156 5 0.187	1 0.031 2 0.062 2.5 0.093 5 0.187	SEE NOTES 2, 3, 4	SEE NOTES 9-10	10.21 1.15 10.21 10.86 13.61	0.267 0.0001 0.267 0.266 0.263	10 ⁻³ kgm ² 10 ⁻³ lb.in. ²	0.004 0.004 0.004 0.004 0.003	0.008 0.008 0.007 0.007 0.007
BT000062 BLO00062	15.75 .620	15.75 .62	4.55 .180	6.60 .260	1.90 0.075	M2X.4 .60 1-72 5	0.5°	0.04	± .04	M3X.5 0.92 4-40 5	SEE NOTES 5 - 12	0.5°	0.04	± .04	4 0.156 5 0.187 6 0.250	2 0.062 2.5 0.093 3 0.120 4 0.156 5 0.187 6 0.250	SEE NOTES 2, 3, 4	SEE NOTES 9-10	5.80 0.65 34.2 3.71 3.29	0.755 0.0002 0.751 0.740	10 ⁻³ kgm ² 10 ⁻³ lb.in. ²	0.007 0.006 0.006 0.006 0.006	0.014 0.014 0.013

H SERIES - PRECISION, HIGH TORQUE LOW WIND-UP

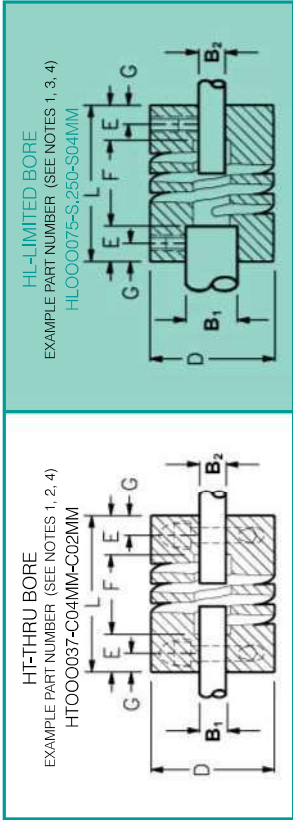
THREE THICK SHORT DOUBLE TAPERED CURVED BEAMS FOR HIGH TORQUE
AND TORSIONAL RIGIDITY, WITH INFINITE LIFE



H SERIES PART NUMBER	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SCREW MM INCH	SET TORQUE Nm LB.IN.	MISALIGNMENT SEE DEFINITIONS PAGE 25		B ₁ BORE MM + .25 - .000 INCH + .001 - .000	B ₂ BORE MM + .25 - .000 INCH + .001 - .000	STATIC TORQUE Nm LB.IN.	TORSIONAL STIFFNESS MM/Nm MIN/LB.IN.	INERTIA 10 ⁻³ kgm ² 10 ⁻³ lb.in. ²	MASS kg lb
								ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH						
HT000075 HL000075	19.00	19.00	4.55	9.90	2.35	M2X.4 .60	M4X.7 2.2		0.04						
	.745	.75	.180	.390	0.095	2-56 7	6-32 10	0.5°	0.0015	± .0015					
HT0000100 HL0000100	25.40	25.40	6.35	12.70	3.20	M3X.5 2.1	M4X.7 2.2	0.5°	0.05	± .05					
	.995	1.00	.250	.500	0.125	4-40 18	8-32 20		0.002	± .002					
BT0000125 BL0000125	31.50	31.75	8.10	15.60	3.55	M3X.5 2.1	M5X.8 2.2	0.75°	0.05	± .05					
	1.240	1.25	.320	.610	.140	6-32 34	10-24 36		0.002	± .002					
BT0000150 BL0000150	37.75	38.00	10.16	17.78	4.45	M4X.7 4.6	M5X.8 2.2	0.75°	0.05	± .05					
	1.485	1.50	.400	.700	0.175	8-32 59	10-24 36		0.002	± .002					
BT0000162 BL0000162	40.90	41.00	11.45	18.28	5.00	M5X.8 9.5	M5X.8 2.2	1°	0.06	± .06					
	1.610	1.62	.450	.720	0.195	10-24 77	10-24 36		0.0025	± .0025					

H SERIES - PRECISION, HIGH TORQUE LOW WIND-UP

THREE THICK SHORT DOUBLE TAPERED CURVED BEAMS FOR HIGH TORQUE
AND TORSIONAL RIGIDITY, WITH INFINITE LIFE



H SERIES PART NUMBER THRU BORE LIMITED BORE	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005 SEE NOTE 3	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SCREW MM INCH TORQUE Nm LB.IN. SEE NOTES 5 • 12	MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE MM + .25 - .000 INCH + .001 - .000 SEE NOTES 2, 3, 4	B ₂ BORE MM + .25 - .000 INCH + .001 - .000 SEE NOTES 2, 3, 4	STATIC TORQUE Nm LB.IN. SEE NOTES 9 • 10	TORSIONAL STIFFNESS MMV/Nm MINV/LB.IN. SEE NOTE 10	INERTIA 10 ⁻³ kgm ² 10 ⁻³ lb.in. ² SEE NOTE 11	MASS kg lb SEE NOTE 11				
							ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH										
HT0000175 HL0000175	44.00 1.735	44.50 1.75	11.45 .450	21.60 .850	5.00 0.195	M5X.8 9.5 10-24 77 M5X.8 2.2 10-24 36	1°	0.07	± .07 ± .003	14 16 18 20 22	0.500 0.625 0.687 0.750 0.875	61.00 52.54 43.84 36.70 29.15	540 465 388 316 258	0.05 0.05 0.06 0.08 0.10	0.46 0.48 0.59 0.71 0.90	0.0419 0.0416 0.0413 0.0409 0.0401	143.0 142.0 141.0 139.7 137.1	0.155 0.149 0.146 0.141 0.135	0.341 0.329 0.321 0.311 0.297
HT0000200 HL0000200	50.00 1.970	50.80 2.00	12.20 .480	26.40 1.040	5.00 0.195	M5X.8 9.5 10-24 77 M5X.8 2.2 10-24 36	2°	0.07	± .07 ± .003	14 16 18 20 22	0.500 0.625 0.687 0.750 0.875	79.65 77.17 73.89 63.38 54.46	705 683 654 561 482	0.04 0.04 0.05 0.06 0.07	0.36 0.37 0.42 0.51 0.62	0.0828 0.0824 0.0822 0.0817 0.0809	282.9 281.7 280.7 279.3 276.4	0.239 0.233 0.229 0.224 0.217	0.526 0.512 0.504 0.494 0.477
HT0000225 HL0000225	56.40 2.220	57.00 2.25	12.20 .480	32.76 1.290	5.00 0.195	M5X.8 9.5 10-24 77 M5X.8 2.2 10-24 36	2°	0.10	± .10 ± .004	14 16 18 20 22	0.500 0.625 0.687 0.750 0.875	96.04 95.02 94.34 92.87 91.52	850 841 835 822 810	0.02 0.03 0.03 0.03 0.04	0.22 0.23 0.24 0.29 0.33	0.1481 0.1477 0.1474 0.1469 0.1460	506.0 504.8 503.7 502.2 498.9	0.341 0.335 0.330 0.326 0.317	0.752 0.738 0.728 0.718 0.699

ROCOM FLEXIBLE COUPLING NOMENCLATURE OPTIONS

- A OEM medium duty general purpose
 - B OEM light duty such as encoders and resolvers
 - C Designed for encoder manufacturers as a short version of the "B" series
 - D Heavy duty with greater misalignment and axial motion
 - E Split shaft that expands in the pilot hole having a 60° taper in a large diameter shaft
 - F Split shaft that expands in a straight pilot hole in a large diameter shaft
 - G Misalignment gage for maximum parallel precision alignment (request the data sheet)
 - H High performance, low wind-up, high torque
-
- T Through bore
 - L Limited bore
-
- O Standard coupling length
 - S Short version of the A series
-
- O Black anodize (standard)
 - G Gold anodize
 - C Chem film
 - N Nickel plate (for higher corrosion resistance)
 - X Bare metal
 - L Limited bore, when both thru and limited bores are specified
 - Y Customer special requirements
-
- O English dimensions and screws
 - M Metric dimensions and screws
-
- Couplings outside diameter, i.e.
57.15 mm, 2.25 in., or 9.53 mm, .375 in.
- To specify S, N, A, K, H: remove the hyphen and add the letter
- S Stainless steel screws
 - N Two set screws at each end at 90° apart
 - A One set screw at each end
 - K Key way
 - H Hex bore
-
- | | | | | | | | | | |
|---|---|---|---|---|-----|---|--------|---|---------|
| A | T | O | O | O | 225 | - | C25MM | - | C12MM |
| | | | | | 037 | | S.125 | | - S03MM |
| | | | | | | | E.250 | | - P.375 |
| | | | | | | | C.500 | | - P.000 |
| | | | | | | | P.000 | | - P.000 |
| | | | | | | | 0.10MM | | - 0.250 |
-
- Smallest bore dia. or dimension across the flats
- Largest bore dia. or dimension across the flats, metric or inch
- C Clamp with carbon steel cap screws, hex socket
 - R Reversed clamp screw to the bores orientation (see below)
 - S Two set screws, 120° apart, carbon steel, hex socket, black oxide
 - E Expander shaft
 - P G10 glass filled phenolic insert, clamp version only
 - P.000 Coupling without insert installed
 - 0 No clamp or set screw.

CLAMP SCREW TO BORE ORIENTATION

The standard orientation is with the large bore on the left when the coupling is orientated as shown, i.e. BTOOO125-C.500-C.375. To reverse the bore to clamp screw relationship, replace the "C" with "R" (reverse) and put the smaller bore size first in the nomenclature, i.e. BTOOO125-R.375-R.500.

