

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



CLAMP



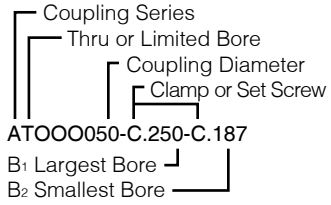
SET SCREW



CUT AWAY VIEW

Notes

1. Nomenclature



For key way, hex bores, nickle 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 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.

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.

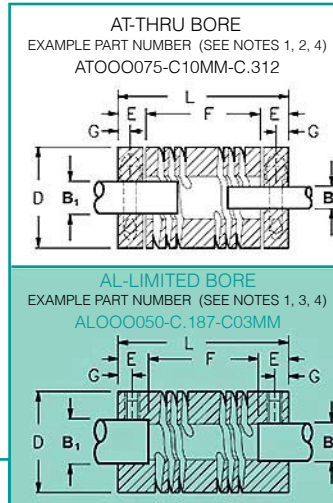
10. Torque and torsional stiffness ratings are at maximum misalignment, not in a straight line.

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.

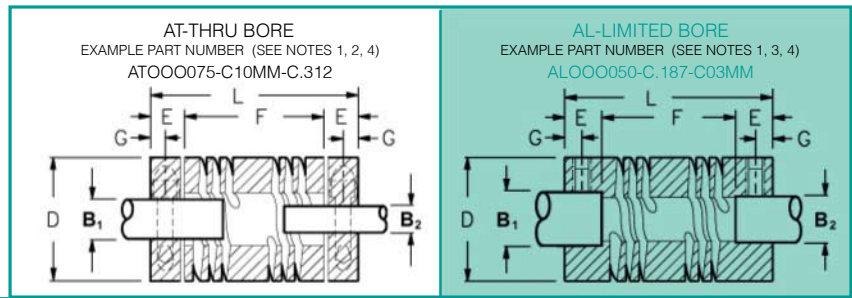


A SERIES PART NUMBER	D MM INCH	L MM INCH	E MM INCH	F MM INCH	G MM INCH	CLAMP MM INCH	SET SCREW MM INCH	MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS	
								ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM INCH	MM INCH	Nm LB.IN.	LB.IN.	MIN/Nm MIN/LB.IN.	MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb		
ATO00037 AL000037	9.40 .370	14.40 .560	3.80 .150	4.06 .160	2.08 .082	M1.6X.35 0-80 3	M2X.4 2-56 1.8	2°	0.13	± .05	1 2 2.5	0.031 0.062 0.093	0.59 0.57 0.52 0.31	5.2 5.1 4.6 2.7	7.86 7.86 6.00 4.35	68.00 68.00 53.20 38.50	.0000 .0000 .0000 .0000	0.094 0.093 0.092 0.088	0.002 0.002 0.002 0.002	0.004 0.004 0.004 0.004		
ATO00050 AL000050	12.60 .495	19.00 .750	4.40 .175	10.16 .400	2.35 .092	M2X.4 1-72 5	M3X.5 4-40 5	3°	0.18	± .13	2 2.5 3 3	0.062 0.093 0.120 0.125	0.96 0.77 0.61	8.5 6.8 5.4	5.15 6.50 11.75	45.60 57.60 104.00	0.0001 0.0001 0.0001	0.424 0.418 0.396	0.005 0.005 0.005	0.012 0.011 0.009		
ATO00062 AL000062	15.75 .620	22.10 .870	5.08 .200	11.93 .470	2.54 .100	M2X.4 2-56 7	M3X.5 6-32 10	4°	0.20	± .13	2.5 3 3	0.093 0.120 0.125	1.81 1.70 1.47 1.13	16 15 13 10	2.44 2.55 3.41 4.59	21.60 22.56 30.24 41.60	0.0003 0.0003 0.0003 0.0003	1.187 1.182 1.164 1.124	0.010 0.010 0.010 0.009	0.022 0.022 0.021 0.019		

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

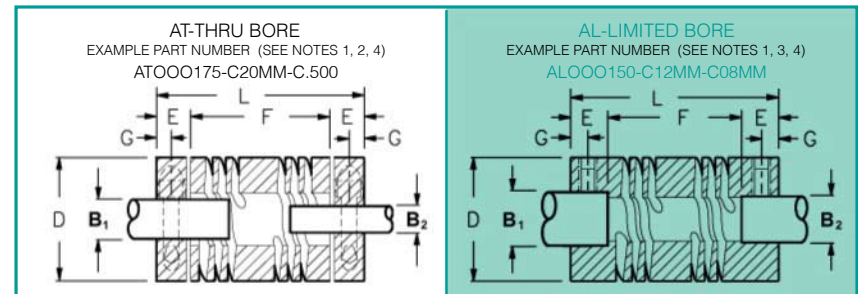


A SERIES PART NUMBER	D MM + .00 - .25 INCH + .000 - .010	L MM ± .38 INCH ± .015	E MM ± .13 INCH ± .005	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SET SCREW		MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS	
						MM INCH	MM INCH	ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM INCH + .25 - .000	MM INCH + .001 - .000	MM INCH + .25 - .000	MM INCH + .001 - .000	Nm LB.IN.	Nm LB.IN.	MIN/Nm	MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb
						SEE NOTES 5 - 12	SEE NOTES 5 - 12	SEE NOTES 2, 3, 4	SEE NOTES 2, 3, 4	SEE NOTES 2, 3, 4	SEE NOTES 9 - 10	SEE NOTES 9 - 10	SEE NOTE 10	SEE NOTE 10	SEE NOTE 11	SEE NOTE 11						
ATOOO075 ALOOO075	19.00 .745	25.40 1.00	6.09 .240	13.20 .520	2.79 .110	M3X.5 2.1	M4X.7 2.2	5°	0.25	± .25		3	0.120									
												3	0.125									
ATSOO075 ALSOO075	19.00 .745	22.20 .880	6.09 .240	10.16 .400	2.79 .110	4-40 18	8-32 20	5°	0.005	± .010	5	0.187	5	0.187	2.94	26	0.97	8.64	0.0007	2.392	0.014	0.031
											6	0.250	6	0.250	2.71	24	1.35	12.00	0.0007	2.377	0.014	0.030
											8	0.312	8	0.312	2.37	21	2.06	18.24	0.0007	2.346	0.013	0.029
											10	0.375	10	0.375	1.18	16	3.61	32.00	0.0007	2.286	0.012	0.027
ATOOO100 ALOOO100	25.4 .995	38.00 1.500	10.66 .420	16.76 .660	5.08 .200	M3X.5 2.1	M5X.8 2.2	5°	0.25	± .25		3	0.125									
												4	0.156									
ATSOO100 ALSOO100	25.4 .995	31.75 1.250	8.63 .340	14.47 .570	4.06 .160	6-32 34	10-24 36	5°	0.015	± .010	6	0.250	6	0.250	6.18	60	0.45	8.64	0.0039	13.19	0.045	0.098
											8	0.312	8	0.312	6.55	58	0.56	12.00	0.0038	13.13	0.044	0.096
											10	0.375	10	0.375	6.33	56	0.70	18.24	0.0038	13.01	0.042	0.092
											11-12	0.437	11-12	0.437	5.42	48	0.90	32.00	0.0037	12.77	0.040	0.087
ATOOO125 ALOOO125	31.50 1.245	50.80 2.00	10.66 .420	29.46 1.160	5.10 .200	M4X.7 4.6	M6X.1 7.2	5°	0.50	± .38		5	0.187									
											6	0.250	6	0.250	14.46	128	0.17	1.55	0.0129	44.23	0.097	0.214
											8	0.312	8	0.312	12.54	111	0.22	1.96	0.0129	44.09	0.095	0.209
											10	0.375	10	0.375	11.30	100	0.23	2.08	0.0129	43.92	0.093	0.204
											11-12	0.437	11-12	0.437	10.85	96	0.28	2.54	0.0127	43.45	0.089	0.195
14	0.500	14	0.500	9.04	80	0.36	3.16	0.0125	42.77	0.085	0.187											
ATOOO150 ALOOO150	37.70 1.485	60.00 2.37	13.08 .515	34.54 1.34	6.00 .240	M5X.8 9.5	M6X.1 7.2	5°	0.76	± .38		6	0.250									
												8	0.312									
											10	0.375	10	0.375	21.47	190	0.10	0.95	0.0319	108.9	0.162	0.357
											13	0.437	13	0.437	20.56	182	0.14	1.24	0.0317	108.4	0.159	0.349
											14	0.500	14	0.500	19.77	175	0.16	1.42	0.0315	107.6	0.154	0.339
											16	0.625	16	0.625	18.30	162	0.21	1.86	0.0311	106.3	0.148	0.325
18	0.687	18	0.687	16.38	145	0.23	2.03	0.0304	103.9	0.140	0.309											
ATOOO162 ALOOO162	40.90 1.610	63.50 2.50	13.08 .515	37.59 1.47	6.00 .240	M6X.1 16	M6X.1 7.2	5°	0.76	± .38		8	0.312									
												10	0.375									
											12	0.437	12	0.437	35.36	313	0.08	0.70	0.0450	153.8	0.193	0.424
											14	0.500	14	0.500	33.22	294	0.09	0.84	0.0447	152.9	0.187	0.413
											16	0.625	16	0.625	31.64	280	0.10	0.87	0.0443	151.3	0.181	0.398
											18	0.687	18	0.687	30.05	266	0.11	0.93	0.0437	149.4	0.174	0.384
20	0.750	20	0.750	27.34	242	0.11	1.00	0.0430	146.8	0.167	0.368											

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FOR ALL TYPES OF OEM PRODUCTS



A 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 SET SCREW		MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS			
						MM INCH	MM INCH	ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM INCH + .25 - .000 SEE NOTES 2, 3, 4	MM INCH + .001 - .000 SEE NOTES 2, 3, 4	Nm LB.IN.	Nm LB.IN.	Nm LB.IN.	MIN/Nm MIN/LB.IN.	MIN/Nm MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb			
ATO00175 AL000175	44.00	66.54	13.08	40.64	6.00	M6X 1 16	M6X 1 7.2	5°	0.90	± .50		10	0.375											
	1.735	2.62	.515	1.59	.240	1/4-20 200	1/4-20 87				0.035	± .020	14	0.500	14	0.500	39.09	346	0.07	0.64	0.0648	221.5	0.234	0.516
													16	0.625	16	0.625	36.38	322	0.08	0.72	0.0643	219.7	0.227	0.499
													18	0.687	18	0.687	34.46	305	0.08	0.76	0.0637	217.5	0.220	0.484
													20	0.750	20	0.750	32.54	288	0.09	0.81	0.0628	214.6	0.212	0.467
													22	0.875	22	0.875	30.16	267	0.10	0.89	0.0613	209.5	0.200	0.442
ATO00200 AL000200	50.00	76.00	13.08	50.29	6.00	M6X 1 16	M6X 1 7.2	5°	0.90	± .50		10	0.375											
	1.970	3.00	.515	1.97	.240	1/4-20 200	1/4-20 87				0.035	± .020	14	0.500	14	0.500	45.20	400	0.06	0.53	0.1270	434.0	0.358	0.789
													16	0.625	16	0.625	42.48	376	0.06	0.54	0.1264	431.8	0.349	0.769
													18	0.687	18	0.687	40.00	354	0.06	0.55	0.1256	429.2	0.340	0.750
													20	0.750	20	0.750	37.62	333	0.07	0.61	0.1245	425.6	0.331	0.729
													22	0.875	22	0.875	33.56	297	0.08	0.71	0.1228	419.5	0.318	0.700
ATO00225 AL000225	56.40	82.50	13.08	56.64	6.00	M6X 1 16	M6X 1 7.2	5°	1.00	± .65		12	0.437											
	2.220	3.25	.515	2.22	.240	1/4-20 200	1/4-20 87				0.040	± .025	14	0.500										
													16	0.625	16	0.625	62.92	618	0.05	0.43	0.2178	744.4	0.486	1.07
													18	0.687	18	0.687	64.18	568	0.05	0.46	0.2171	741.8	0.477	1.05
													20	0.750	20	0.750	61.12	541	0.05	0.48	0.2161	738.4	0.468	1.03
													22	0.875	22	0.875	57.62	510	0.06	0.57	0.2143	732.4	0.455	1.00
										24-25	1.000	24-25	1.000	52.76	467	0.07	0.68	0.2114	722.6	0.437	.963			

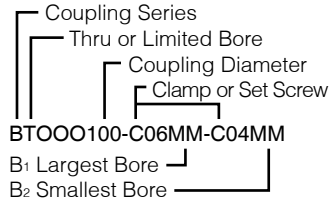
B SERIES - PRECISION LIGHT DUTY FLEXIBLE COUPLING

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



Notes

1. Nomenclature



For key way, hex bores, nickle 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 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.

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.

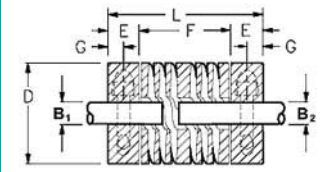
11. Mass and inertia are calculated with the customer's required B₁ bore and the smallest B₂ bore shown.

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

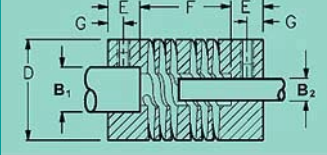
13. The installation procedures shown on page 26 should be followed to insure infinite life.

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

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



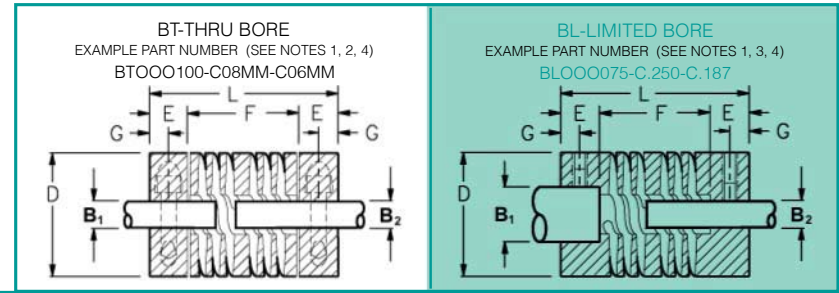
BL-LIMITED BORE
 EXAMPLE PART NUMBER (SEE NOTES 1, 3, 4)
 BLO00075-C.250-C.187



B SERIES PART NUMBER	D MM INCH	L MM INCH	E MM INCH	F MM INCH	G MM INCH	CLAMP MM INCH	SET SCREW MM INCH TORQUE Nm LB.IN.	MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS		
								ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM INCH	MM INCH	Nm LB.IN.	LB.IN.	MIN/Nm MIN/LB.IN.	MIN/Nm MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb			
BT000037 BLO00037	9.40 .370	12.70 .50	3.80 .150	5.00 .200	1.90 0.075	M1.6X.35 0.29 0-80 3	M2X.4 0.21 2-56 1.8	1.5°	0.05	± .05		1	0.031										
												2	0.062										
												2.5	0.093										
											3	0.120	3	0.120	0.59	5.2	7.86	68.00	0.000	0.086	0.002	0.004	
											3	0.125	3	0.125	0.57	5.1	7.86	68.00	0.000	0.086	0.002	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 0-80 3	M2X.4 0.21 2-56 1.8	3°	0.07	± .07		1	0.031										
												2	0.062										
												2.5	0.093										
											3	0.120	3	0.120	0.96	8.5	2.68	23.75	0.0001	0.310	0.004	0.009	
											3	0.125	3	0.125	0.77	6.8	2.68	23.75	0.0001	0.310	0.004	0.009	
BT000062 BLO00062	15.75 .620	15.75 .62	4.55 .180	6.60 .260	1.90 0.075	M2X.4 .60 1-72 5	M3X.5 0.92 4-40 5	4°	0.13	± .13		2	0.062										
												2.5	0.093										
												3	0.120										
												3	0.125										
											4	0.156	4	0.156	1.58	14.4	2.17	19.20	0.0002	0.832	0.007	0.016	
	5	0.187	5	0.187	1.56	13.8	3.18	21.14	0.0002	0.828	0.007	0.015											
	6	0.250	6	0.250	1.24	11.1	3.36	29.76	0.0002	0.815	0.007	0.014											

B SERIES - PRECISION LIGHT DUTY FLEXIBLE COUPLING

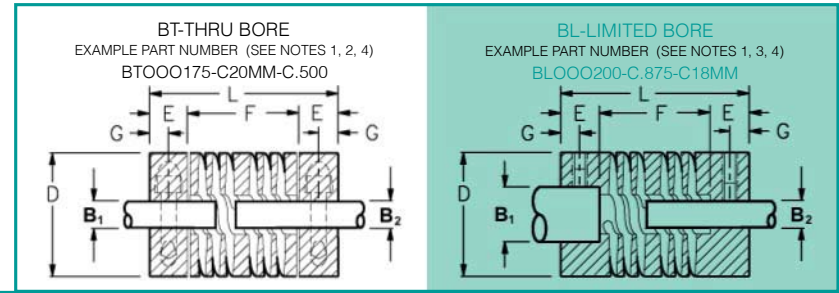
SIX SHORT THIN DOUBLE TAPERED CURVED BEAMS - TWO SETS OF THREE BEAMS
 LIGHT RADIAL LOAD FOR PRECISION BEARINGS



B SERIES PART NUMBER	D MM ± .38 INCH ± .015	L MM ± .13 INCH ± .005	E MM ± .38 INCH ± .015	F MM ± .13 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SET SCREW		MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS						
						MM INCH	MM INCH	ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM INCH + .25 - .001 - .000	MM INCH + .25 - .001 - .000	Nm LB.IN. SEE NOTES 9 - 10	Nm LB.IN. SEE NOTE 10	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb									
THRU BORE LIMITED BORE	+.00 -.25 INCH +.000 -.010	± .38 ± .015	± .13 ± .005	± .38 ± .015	± .13 ± .005	MM INCH	MM INCH				MM INCH + .25 - .001 - .000	MM INCH + .25 - .001 - .000	Nm LB.IN. SEE NOTES 9 - 10	Nm LB.IN. SEE NOTE 10	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb									
SEE NOTE 1 SEE NOTE 4			SEE NOTE 3			SEE NOTES 5 - 12					SEE NOTES 2, 3, 4	SEE NOTES 2, 3, 4			SEE NOTE 11		SEE NOTE 11										
BT000075 BLO00075	19.00	19.00	5.60	7.80	2.40	M2X.4 .60	M3X.5 0.92	5°	0.20	± .13		2	0.062														
															3	0.120											
																3	0.125										
																4	0.156										
	.745	.75	.220	.310	0.095	2-56 7	6-32 10					0.008	± .005	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		
BT000100 BLO00100	25.40	25.40	7.10	11.20	3.20	M3X.5 2.1	M4X.7 2.2	5°	0.25	± .25																	
																3	0.120										
																3	0.125										
																4	0.156										
																5	0.187										
	.995	1.00	.280	.440	0.125	4-40 18	8-32 20					0.010	± .010	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	5.54	49	0.51	4.48	0.0026	8.976	0.030	0.065				
BT000125 BLO00125	31.50	31.75	7.87	16.00	3.55	M3X.5 2.1	M5X.8 2.2	5°	0.25	± .30																	
																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
	1.240	1.25	.310	.630	.140	6-32 34	10-24 36					0.010	± .012	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				
BT000150 BLO00150	37.70	38.00	10.16	17.87	4.45	M4X.7 4.6	M5X.8 2.2	5°	0.25	± .30																	
																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
	1.485	1.50	.400	.700	0.175	8-32 59	10-24 36					0.010	± .012	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				
BT000162 BLO00162	40.90	41.00	10.41	20.32	5.00	M5X.8 9.5	M5X.8 2.2	5°	0.38	± .38																	
																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
	1.610	1.62	.410	.800	0.195	10-24 77	10-24 36					0.015	± .015	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	95.65	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	F MM ± .38 INCH ± .015	G MM ± .13 INCH ± .005	CLAMP SET SCREW		MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS				
						MM INCH	MM INCH	ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM INCH + .25 - .001 - .000	MM INCH + .25 - .001 - .000	Nm LB.IN. SEE NOTES 9 - 10	Nm LB.IN. SEE NOTE 10	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb							
BTOOO175 BLOOO175	44.00	44.50	10.41	23.60	5.00	M5X .8 9.5	M5X .8 2.2	5°	0.38	± .38		10	0.375												
	1.735	1.75	.410	.930	0.195	10-24 36	10-24 36				0.015	± .015	14	0.500	14	0.500	30.05	266	0.07	0.84	0.0418	142.7	0.153	0.338	
														16	0.625	16	0.625	26.00	230	0.08	0.93	0.0415	141.8	0.149	0.328
														18	0.687	18	0.687	25.00	221	0.08	1.22	0.0412	140.8	0.145	0.319
														20	0.750	20	0.750	24.18	214	0.09	1.35	0.0408	139.3	0.141	0.310
														22	0.875	22	0.875	22.71	201	0.10	1.65	0.0400	136.6	0.134	0.295
BTOOO200 BLOOO200	50.00	50.80	10.41	29.97	5.00	M5X .8 9.5	M5X .8 2.2	5°	0.50	± .50		10	0.375												
	1.970	2.00	.410	1.180	0.195	10-24 77	10-24 36				0.020	± .020	12	0.437	12	0.437									
														14	0.500	14	0.500	44.63	395	0.08	0.74	0.0834	284.9	0.239	0.526
														16	0.625	16	0.625	42.93	380	0.09	0.80	0.0829	283.4	0.231	0.510
														18	0.687	18	0.687	40.00	354	0.10	0.92	0.0825	282.0	0.226	0.499
														20	0.750	20	0.750	37.06	328	0.11	0.97	0.0820	280.1	0.221	0.487
BTOOO225 BLOOO225	56.40	57.00	10.41	36.32	5.00	M5X .8 9.5	M5X .8 2.2	5°	.50	± .50		12	0.437												
	2.220	2.25	.410	1.430	0.195	10-24 77	10-24 36				0.020	± .020	14	0.500	14	0.500									
														16	0.625	16	0.625	48.58	430	0.05	0.45	0.1468	501.7	0.323	0.712
														18	0.687	18	0.687	47.57	421	0.06	0.49	0.1457	497.9	0.313	0.690
														20	0.750	20	0.750	44.06	390	0.06	0.54	0.1440	492.2	0.302	0.666
														22	0.875	22	0.875	40.34	357	0.07	0.62	0.1402	479.2	0.283	0.624
										24-25	1.000	24-25	1.000	37.51	332	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



CLAMP



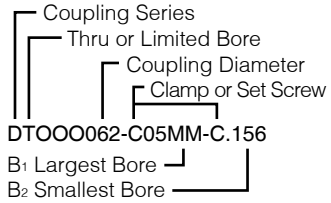
SET SCREW



CUT AWAY VIEW

Notes

1. Nomenclature



For key way, hex bores, nickle 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.

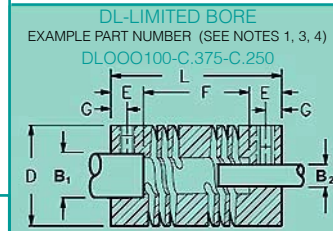
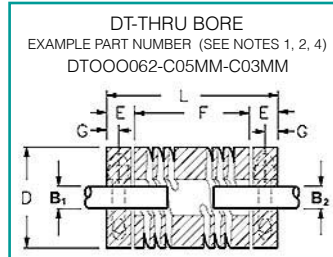
4. Any B₁ may be combined with any B₂. The smallest B₂ bores cannot be duplicated in the B₁ column where they are not already shown. The smallest B₁ inside circumferential length determines the misalignment rating.

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 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.



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.

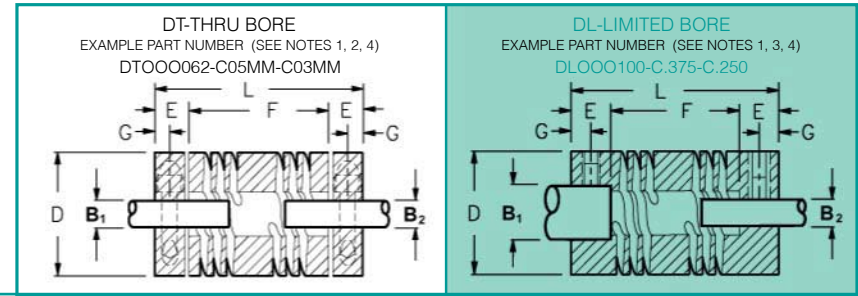
13. The installation procedures shown on page 26 should be followed to insure infinite life.

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

D 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	SET SCREW MM INCH TORQUE Nm LB.IN.	MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS														
								ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM + .25 - .000 INCH + .001 - .000 SEE NOTES 2, 3, 4	MM + .25 - .000 INCH + .001 - .000 SEE NOTES 2, 3, 4	Nm LB.IN. SEE NOTES 9 - 10	LB.IN.	MIN/Nm MIN/LB.IN. SEE NOTE 10	MIN/LB.IN.	10 ⁻³ kgm ² SEE NOTE 11	10 ⁻³ lb.in ²	kg lb SEE NOTE 11	kg lb SEE NOTE 11															
DT000050 DL000050	12.60 .495	19.00 .75	5.10 .200	8.90 .350	2.35 0.092	M2X.4 .60 1-72 5	M3X.5 0.92 4-40 5	3°	0.18	± .13																									
DT000062 DL000062	15.75 .620	22.10 .87	5.58 .220	10.92 .430	2.54 .100	M2X.4 .60 2-56 7	M3X.5 0.92 6-32 10	4°	0.25	± .13																									
DT000075 DL000075	19.00 .745	25.40 1.00	6.35 .250	12.70 .500	3.18 .125	M3X.5 2.1 4-40 18	M4X.7 2.2 8-32 20	5°	0.38	± .25																									

D SERIES - PRECISION HEAVY DUTY FLEXIBLE COUPLING

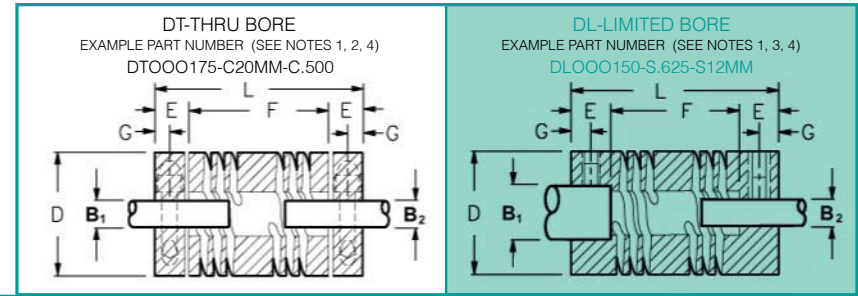
SIX THICK SHORT DOUBLE TAPERED CURVED BEAMS HAVE MORE SPACE BETWEEN EACH BEAM FOR GREATER MISALIGNMENT



D SERIES PART NUMBER	D 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 SET SCREW		MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS				
						MM INCH TORQUE LB.IN.	MM INCH TORQUE LB.IN.	ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM + .25 - .000 INCH + .001 - .000	MM + .25 - .000 INCH + .001 - .000	Nm LB.IN.	Nm LB.IN.	MIN/Nm MIN/LB.IN.	MIN/Nm MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb					
DLOOO100	25.40	38.00	10.66	16.51	5.08	M3X.5 2.1	M5X.8 4.0	7°	0.76	± .50	± .020	3	0.125												
	.995	1.50	.420	.650	.200	6-32 34	10-24 36					4	0.156												
												6	0.250	6	0.250	8.59	76	0.56	4.43	0.0039	13.18	0.044	0.098		
												8	0.312	8	0.312	8.25	73	0.60	5.53	0.0038	13.12	0.043	0.095		
												10	0.375	10	0.375	7.57	67	0.73	6.47	0.0038	13.01	0.042	0.092		
DLOOO125	31.50	50.80	10.66	29.20	5.10	M4X.7 4.6	M5X.8 4.0	10°	1.02	± .50	± .025	5	0.187												
	1.240	2.00	.420	1.150	.200	8-32 59	10-24 36					6	0.250												
												8	0.312	8	0.312	12.20	108	0.30	2.63	0.0124	42.21	0.090	0.199		
												10	0.375	10	0.375	10.96	97	0.36	3.16	0.0123	41.96	0.088	0.193		
												11-12	0.437	11-12	0.437	10.28	91	0.44	3.89	0.0122	41.56	0.085	0.186		
DLOOO150	57.70	60.00	13.08	34.54	6.00	M5X.8 9.5	M6X1 7.2	10°	1.27	± .50	± .020	6	0.250												
	1.485	2.37	.515	1.34	.240	10-24 77	1/4-20 87					8	0.312												
												10	0.375	10	0.375	21.00	186	0.21	1.82	0.0303	103.6	0.154	0.338		
												12	0.437	12	0.437	19.77	175	0.23	2.07	0.0302	103.1	0.150	0.331		
												14	0.500	14	0.500	19.00	168	0.28	2.44	0.0300	102.4	0.146	0.322		
DLOOO162	40.90	63.50	13.08	37.59	6.00	M5X.8 9.5	M6X1 7.2	10°	1.27	± .50	± .020	6	0.250												
	1.610	2.50	.515	1.47	.240	1/4-20 77	1/4-20 87					8	0.312												
												10	0.375												
												12	0.437	12	0.437	29.15	258	0.17	1.53	0.0435	148.7	0.186	0.410		
												14	0.500	14	0.500	27.23	241	0.28	2.04	0.0433	147.8	0.181	0.399		
DLOOO175	44.00	70.00	13.08	40.64	6.00	M5X.8 9.5	M6X1 7.2	10°	1.40	± .65	± .025	6	0.250												
	1.735	2.75	.515	1.60	.240	1/4-20 77	1/4-20 87					8	0.312												
												10	0.375												
												12	0.437												
												14	0.500	14	0.500	36.04	319	0.14	1.22	0.0645	220.5	0.232	0.512		
							16	0.625	16	0.625	34.35	304	0.17	1.50	0.0639	218.4	0.224	0.494							
							18	0.687	18	0.687	29.26	259	0.20	1.80	0.0632	216.0	0.217	0.478							
							20	0.750	20	0.750	24.40	216	0.26	2.36	0.0622	212.7	0.209	0.461							

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 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		MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS					
						MM INCH TORQUE Nm LB.IN. SEE NOTES 5 - 12	MM INCH TORQUE Nm LB.IN. SEE NOTES 5 - 12	ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM + .25 - .000 SEE NOTES 2, 3, 4	INCH + .001 - .000 SEE NOTES 2, 3, 4	Nm LB.IN. SEE NOTES 9 - 10	LB.IN.	MIN/Nm MIN/LB.IN. SEE NOTE 10	MIN/LB.IN.	10 ⁻³ kgm ² SEE NOTE 11	10 ⁻³ lb.in ² SEE NOTE 11	kg SEE NOTE 11	lb SEE NOTE 11						
D _{TOOO200} D _{L_{OOO}200}	50.00	76.00	13.08	50.29	6.00	M6X1 16	M6X1 7.2	10°	1.50	± .75		10	0.375													
	1.970	3.00	.515	1.97	.240	1/4-20 200	1/4-20 87				.060	± .030		12	0.437											
														14	0.500											
														16	0.625	16	0.625	41.47	367	0.11	0.95	0.1209	413.3	0.331	0.729	
														18	0.687	18	0.687	40.11	355	0.14	1.25	0.1200	410.2	0.322	0.710	
														20	0.750	20	0.750	38.08	337	0.16	1.45	0.1189	406.2	0.313	0.689	
D _{TOOO225} D _{L_{OOO}225}	56.40	82.50	13.08	56.64	6.00	M6X1 16	M6X1 7.2	10°	1.55	± .75		12	0.437													
	2.220	3.25	.515	2.22	.240	1/4-20 200	1/4-20 87				.060	± .030		14	0.500											
														16	0.625	16	0.625	63.27	560	0.08	0.75	0.2129	727.6	0.472	1.03	
														18	0.687	18	0.687	60.80	538	0.09	0.85	0.2116	723.1	0.460	1.01	
														20	0.750	20	0.750	57.06	505	0.10	0.87	0.2109	720.8	0.454	1.0	
														22	0.875	22	0.875	52.43	464	0.10	0.89	0.2090	714.2	0.440	.970	
										24-25	1.000	24-25	1.000	47.57	421	0.10	0.92	0.2055	702.2	0.421	.927					

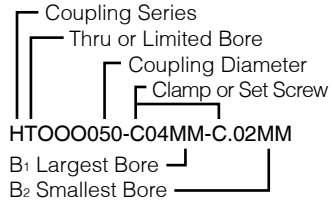
H SERIES - PRECISION, HIGH TORQUE LOW WIND-UP

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



Notes

1. Nomenclature



For key way, hex bores, nickle 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 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.

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.

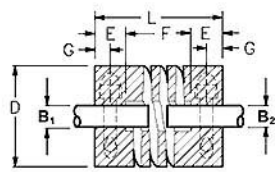
11. Mass and inertia are calculated with the customer's required B₁ bore and the smallest B₂ bore shown.

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

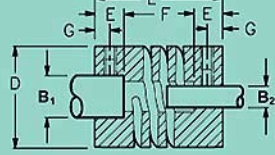
13. The installation procedures shown on page 26 should be followed to insure infinite life.

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

HT-THRU BORE
EXAMPLE PART NUMBER (SEE NOTES 1, 2, 4)
HT000037-C04MM-C02MM



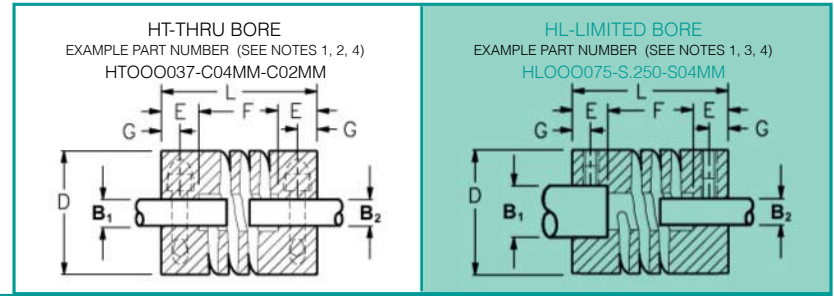
HL-LIMITED BORE
EXAMPLE PART NUMBER (SEE NOTES 1, 3, 4)
HL000075-S.250-S04MM



H SERIES PART NUMBER	D MM INCH	L MM INCH	E MM INCH	F MM INCH	G MM INCH	CLAMP MM INCH	SET SCREW MM INCH	MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS			
								ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM INCH	AXIAL MOTION MM INCH	MM INCH	MM INCH	Nm LB.IN.	LB.IN.	MIN/Nm MIN/LB.IN.	MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb				
BTO0037 BLO0037	9.40 .370	12.70 .50	3.80 .150	5.00 .200	1.90 0.075	M1.6X.35 0.29 0-82 3	M2X.4 0.21 2-56 1.8	0.5°	0.02	± .02	± .001	1	0.031											
												2	0.062											
												2.5	0.093											
												3	0.120	3	0.120	0.84	7.42	2.55	22.61	0.0000	0.079	0.002	0.004	
												3	0.125	3	0.125	0.84	7.42	2.55	22.63	0.0000	0.079	0.002	0.004	
4	0.156	4	0.156	0.60	5.32	2.87	25.42	0.0000	0.078	0.002	0.004													
BTO0050 BLO0050	12.60 .495	12.70 .50	3.80 .150	5.00 .200	1.90 0.075	M1.6X.35 0.29 0-82 3	M2X.4 0.21 2-56 1.8	0.5°	0.04	± .04	± .0015	1	0.031											
												2	0.062											
												2.5	0.093											
												3	0.120	3	0.120	1.41	12.51	1.15	10.21	0.0001	0.267	0.004	0.008	
												3	0.125	3	0.125	1.41	12.51	1.15	10.21	0.0001	0.267	0.004	0.008	
4	0.156	4	0.156	1.16	10.22	1.23	10.86	0.0001	0.266	0.004	0.007													
5	0.187	5	0.187	0.94	8.34	1.54	13.61	0.0001	0.263	0.003	0.007													
BTO0062 BLO0062	15.75 .620	15.75 .62	4.55 .180	6.60 .260	1.90 0.075	M2X.4 .60 1-72 5	M3X.5 0.92 4-40 5	0.5°	0.04	± .04	± .0015	2	0.062											
												2.5	0.093											
												3	0.120											
												3	0.125											
												4	0.156	4	0.156	3.86	34.2	0.65	5.80	0.0002	0.755	0.007	0.014	
5	0.187	5	0.187	3.71	32.8	0.71	6.32	0.0002	0.751	0.006	0.014													
6	0.250	6	0.250	3.29	29.1	0.98	8.68	0.0002	0.740	0.006	0.013													

H SERIES - PRECISION, HIGH TORQUE LOW WIND-UP

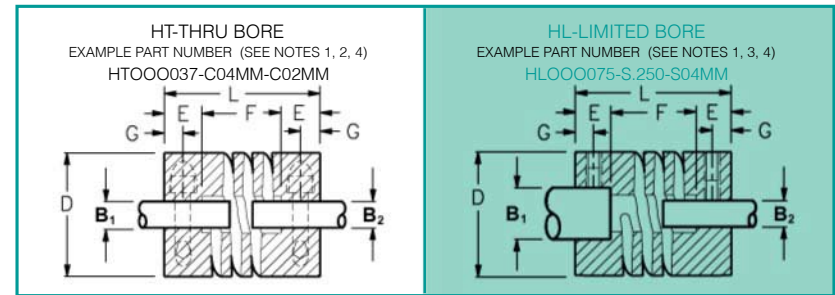
THREE THICK SHORT DOUBLE TAPERED CURVED BEAMS FOR HIGH TORQUE AND TORSIONAL RIGIDITY, WITH INFINITE LIFE



H SERIES PART NUMBER	D	L	E	F	G	CLAMP SET SCREW		MISALIGNMENT <small>SEE DEFINITIONS PAGE 25</small>			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS								
						MM	MM	MM	MM	MM	MM	MM	INCH	INCH	ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM	AXIAL MOTION MM	MM	INCH	MM	INCH	Nm	LB.IN.	MIN/Nm	MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb
						± .00	± .38	± .13	± .38	± .13	MM	MM	INCH	INCH	INCH	MM	MM	MM	INCH	MM	INCH	Nm	LB.IN.	MIN/Nm	MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb
HTOOO075 HLOOO075	19.00 .745	19.00 .75	4.55 .180	9.90 .390	2.35 0.095	M2X.4 .60	M4X.7 2.2	0.5° 0.0015	0.04 ± .0015	± .04	5 6 8	0.187 0.250 0.312	5 6 8	0.187 0.250 0.312	9.79 7.22 4.54	86.6 63.9 40.2	0.25 0.41 0.75	2.25 3.63 6.61	0.0006 0.0006 0.0006	2.013 1.999 1.970	0.012 0.012 0.011	0.026 0.025 0.024							
HTOOO100 HLOOO100	25.40 .995	25.40 1.00	6.35 .250	12.70 .500	3.20 0.125	M3X.5 2.1	M4X.7 2.2	0.5° 0.002	0.05 ± .002	± .05	6 8 10	0.250 0.312 0.375	6 8 10	0.250 0.312 0.375	13.11 10.85 8.35	116 96 74	0.17 0.23 0.28	1.52 2.05 2.51	0.0025 0.0025 0.0025	8.647 8.615 8.553	0.030 0.029 0.028	0.065 0.063 0.061							
BTOOO125 BLOOO125	31.50 1.240	31.75 1.25	8.10 .320	15.60 .610	3.55 .140	M3X.5 2.1	M5X.8 2.2	0.75° 0.002	0.05 ± .002	± .05	8 10 12 14 16	0.312 0.375 0.437 0.500 0.625	8 10 12 14 16	0.312 0.375 0.437 0.500 0.625	26.66 24.86 22.82 17.85 12.65	234 220 202 158 112	0.09 0.10 0.11 0.16 0.22	0.81 0.91 0.98 1.46 1.95	0.0077 0.0077 0.0076 0.0076 0.0073	26.37 26.27 26.10 25.83 25.89	0.057 0.056 0.054 0.052 0.049	0.126 0.123 0.119 0.115 0.107							
BTOOO150 BLOOO150	37.75 1.485	38.00 1.50	10.16 .400	17.78 .700	4.45 0.175	M4X.7 4.6	M5X.8 2.2	0.75° 0.002	0.05 ± .002	± .05	10 13 14 16 18	0.375 0.437 0.500 0.625 0.687	10 13 14 16 18	0.375 0.437 0.500 0.625 0.687	35.03 34.00 30.50 23.84 18.08	310 301 270 211 160	0.06 0.07 0.09 0.11 0.14	0.58 0.65 0.82 0.95 1.24	0.0193 0.0193 0.0192 0.0190 0.0188	66.06 65.88 65.56 64.87 64.15	0.099 0.098 0.095 0.092 0.089	0.219 0.215 0.210 0.202 0.196							
BTOOO162 BLOOO162	40.90 1.610	41.00 1.62	11.45 .450	18.28 .720	5.00 0.195	M5X.8 9.5	M5X.8 2.2	1° 0.0025	0.06 ± .0025	± .06	12 14 16 18 20	0.437 0.500 0.625 0.687 0.750	12 14 16 18 20	0.437 0.500 0.625 0.687 0.750	38.42 37.40 29.83 25.42 20.45	340 331 264 225 181	0.06 0.07 0.08 0.10 0.12	0.52 0.64 0.72 0.87 1.09	0.0286 0.0286 0.0283 0.0280 0.0277	97.90 97.67 96.73 95.85 94.65	0.124 0.123 0.118 0.114 0.111	0.274 0.270 0.259 0.252 0.243							

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	L	E	F	G	CLAMP SET SCREW		MISALIGNMENT SEE DEFINITIONS PAGE 25			B ₁ BORE		B ₂ BORE		STATIC TORQUE		TORSIONAL STIFFNESS		INERTIA		MASS					
						MM	MM	MM	MM	MM	MM	MM	ANGULAR OFFSET DEGREES	PARALLEL OFFSET MM	AXIAL MOTION MM	MM	INCH	MM	INCH	Nm	LB.IN.	MIN/Nm	MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg
THRU BORE LIMITED BORE	+ .00 - .25 INCH	± .38 INCH	± .13 INCH	± .38 INCH	± .13 INCH	± .13 INCH	MM INCH	MM INCH				+ .25 - .000	+ .001 - .000	+ .25 - .000	+ .001 - .000	Nm	LB.IN.	MIN/Nm	MIN/LB.IN.	10 ⁻³ kgm ²	10 ⁻³ lb.in ²	kg	lb			
SEE NOTE 1 SEE NOTE 4	+ .000 - .010	± .015	± .005 SEE NOTE 3	± .015	± .005	SEE NOTES 5 - 12						SEE NOTES 2, 3, 4	SEE NOTES 2, 3, 4	SEE NOTES 9 - 10	SEE NOTES 9 - 10	SEE NOTE 10	SEE NOTE 10	SEE NOTE 10	SEE NOTE 11	SEE NOTE 11	SEE NOTE 11	SEE NOTE 11				
HT000175 HLO00175	44.00	44.50	11.45	21.60	5.00	M5X.8 9.5	M5X.8 2.2	1°	0.07	± .07			10	0.375												
																12	0.437									
															14	0.500	14	0.500	61.00	540	0.05	0.46	0.0419	143.0	0.155	0.341
															16	0.625	16	0.625	52.54	465	0.05	0.48	0.0416	142.0	0.149	0.329
															18	0.687	18	0.687	43.84	388	0.06	0.59	0.0413	141.0	0.146	0.321
															20	0.750	20	0.750	35.70	316	0.08	0.71	0.0409	139.7	0.141	0.311
											22	0.875	22	0.875	29.15	258	0.10	0.90	0.0401	137.1	0.135	0.297				
HT000200 HLO00200	50.00	50.80	12.20	26.40	5.00	M5X.8 9.5	M5X.8 2.2	2°	0.07	± .07			10	0.375												
																12	0.437									
															14	0.500	14	0.500	79.65	705	0.04	0.36	0.0828	282.9	0.239	0.526
															16	0.625	16	0.625	77.17	683	0.04	0.37	0.0824	281.7	0.233	0.512
															18	0.687	18	0.687	73.89	654	0.05	0.42	0.0822	280.7	0.229	0.504
															20	0.750	20	0.750	63.38	561	0.06	0.51	0.0817	279.3	0.224	0.494
											22	0.875	22	0.875	54.46	482	0.07	0.62	0.0809	276.4	0.217	0.477				
HT000225 HLO00225	56.40	57.00	12.20	32.76	5.00	M5X.8 9.5	M5X.8 2.2	2°	0.10	± .10			10	0.375												
																12	0.437									
															14	0.500	14	0.500	96.04	850	0.02	0.22	0.1481	506.0	0.341	0.752
															16	0.625	16	0.625	95.02	841	0.03	0.23	0.1477	504.8	0.335	0.738
															18	0.687	18	0.687	94.34	835	0.03	0.24	0.1474	503.7	0.330	0.728
															20	0.750	20	0.750	92.87	822	0.03	0.29	0.1469	502.2	0.326	0.718
											22	0.875	22	0.875	91.52	810	0.04	0.33	0.1460	498.9	0.317	0.699				