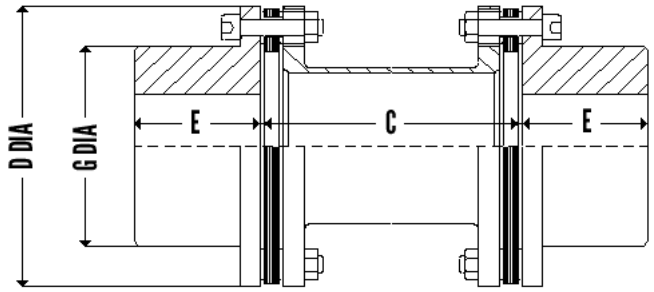
UNIQUE METAFLEX COUPLINGS

Series 80 L Coupling

This Design is suitable when driving and driven shaft dia are considerably smaller than max bore capacity of Series 80 standard coupling. For such cases this design gives light- weight and inertia. The design can be supplied with comparatively small spacer length. Permissible maximum speed is somewhat lower than standard series 80 coupling – but adequate for most applications.

GENERAL ASSEMBLY DRAWING



DIMENSIONS AND STANDARD SIZES

Size	Nominal HP/100 *RPM*	Rating Torque *NM*	Peak Torque *NM*	Max Speed *RPM*	Max Bore *MM*	E, Hub Length *MM*	D Dia *MM*	G Dia *MM*	Std C *MM*
65	0.45	32	64	20000	24	28	63	34	100
80	0.9	64	128	20000	28	30	72	40	100
100	1.8	128	256	18650	32	32	83	46	100
125	2.6	185	370	15800	42	41	98	59	100
150	4	285	570	15800	42	45	102	62	100
162	7	500	1000	13900	48	48	111	71	140
180	9	640	1280	12500	55	55	125	78	140
200	12	855	1710	11200	55	54	138	84	140
220	15	1070	2140	10450	65	62	148	93	140
225	18	1282	2564	10450	65	67	145	95	140
250	25	1780	3560	9200	80	76	168	114	140
262	33	2350	4700	9200	80	76	168	114	140
300	56	3990	7980	7800	90	86	198	128	140
312	56	3990	7980	7800	100	86	198	140	140
350	70	4990	9980	7000	105	95	221	150	140
375	100	7125	14250	6300	115	102	246	170	180
425	140	9975	19950	5800	120	108	267	178	180
450	170	12110	24220	5400	135	114	287	194	200
500	270	19230	38460	4700	155	127	327	226	225
550	400	28500	57000	4200	180	148	367	256	250
600	500	35625	71250	3800	190	153	405	276	250
700	800	57000	114000	3300	220	178	464	318	275
750	1100	78375	228000	3000	220	191	503	321	275
800	1600	114000	302000	3000	240	210	546	349	300

Mass, Inertia, Stiffness are at max bore with standard spacer dimension C listed above. Other C dimension are available as required on request . Hub dimensions can be modified to suit special needs. Max angular misalignment 0.50 Deg /Pack. Misalignment limits are for speeds upto 3000 RPM. For higher Speeds consult us. Bolt Tightening Torques - # for Disc Pack Bolts , ## for Hub Bolts.

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ENGINEERING DATA

	Mass	Inertia MR^2	Maximum Misalignment		Torsional Stiff	Axial Spring Rate	Bolt Tight Torque
	KG	*KG.M^2*	*AXIAL MM*	*RADIAL MM*	*MNM/RAD*	*N/MM*	*# NM*
65	0.9	0.0004	1	0.6	0.01	25	6
80	1.2	0.0007	1.2	0.6	0.02	30	10
100	2.0	0.0013	2.0	0.6	0.06	50	24
125	3.0	0.0040	2.0	0.8	0.06	60	24
150	3.6	0.0047	1.3	0.8	0.06	150	24
162	4.7	0.007	1.3	1.2	0.18	100	24
180	6.2	0.012	1.5	1.2	0.20	130	48
200	7.6	0.018	1.8	1.2	0.20	165	48
220	9.4	0.026	2.0	1.2	0.26	130	48
225	9.8	0.027	1.4	1.2	0.26	275	48
250	13.7	0.048	2.2	1.2	0.38	195	48
262	13.7	0.049	1.5	1.2	0.44	350	48
300	22	0.10	3.0	1.2	0.64	370	200
312	21	0.11	1.9	1.2	0.64	415	80
350	30	0.19	2.0	1.2	1.07	500	200
375	41	0.31	2.3	1.5	1.38	540	200
425	54	0.50	2.5	1.5	2.14	725	400
450	64	0.69	2.8	1.7	2.36	755	400
500	92	1.24	3.0	1.9	3.92	920	400
550	126	2.19	3.2	2.1	5.64	920	540
600	167	3.45	3.7	2.1	6.93	900	700
700	259	7.15	4.1	2.4	11.3	1230	1400
750	321	10.25	4.6	2.4	15.0	1480	1800
800	428	16.12	5.0	2.6	ON REQ	ON REQ	2400

Mass, Inertia, Stiffness are at max bore with standard spacer dimension C listed above. Other C dimension are available as required on request . Hub dimensions can be modified to suit special needs. Max angular misalignment 0.50 Deg /Pack. Misalignment limits are for speeds upto 3000 RPM. For higher Speeds consult us. Bolt Tightening Torques - # for Disc Pack Bolts , ## for Hub Bolts.

All Dimensions are in "mm" unless specified.
The dimensions are for standard execution and subject to change without notice.

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