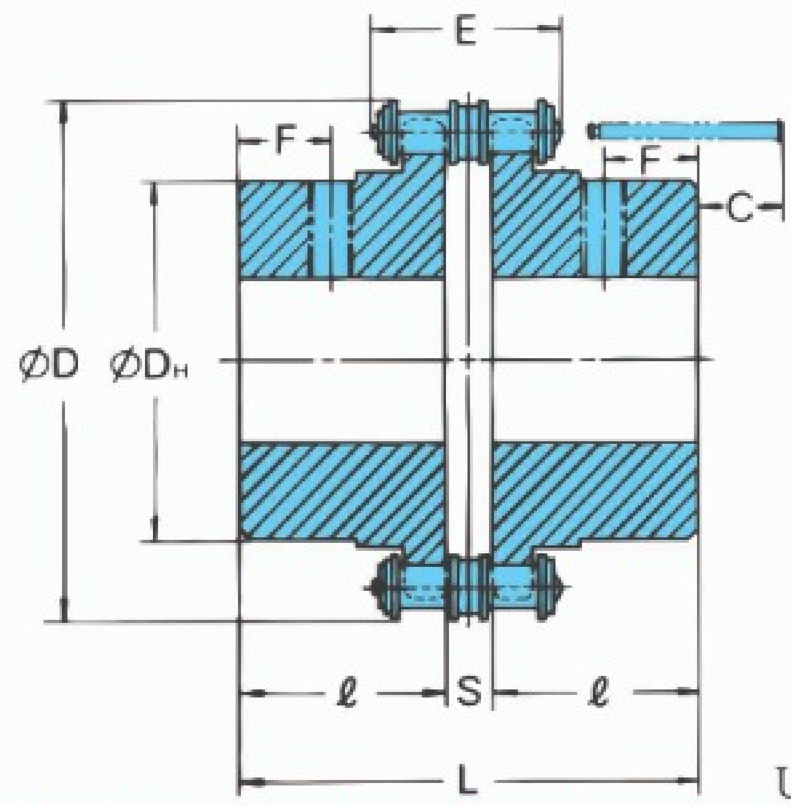
FLEXIBLE COUPLING (FCL)

SPECK FLEXIBLE COUPLING (FCL)

TYPE	KK/HUB.	MAX. BORE	BOLT	JLH BOLT	KG
FCL – 90	35.5	17MM	F1	4	1.7
FCL – 100	40	20MM	F2	4	2.3
FCL – 112	45	22MM	F2	4	2.8
FCL – 125	50	25MM	F3	4	4
FCL – 140	63	31MM	F3	6	5.4
FCL – 160	80	40MM	F3	8	8
FCL – 180	90	45MM	F3	8	10.5
FCL – 200	100	50MM	F4	8	16.2
FCL – 224	112	56MM	F4	8	21.3
FCL – 250	125	62MM	F5	8	31.6
FCL – 280	140	70MM	F6	8	44
FCL – 315	160	80MM	F6	10	57.7
FCL – 355	180	90MM	F7	8	89.5
FCL – 400	200	100MM	F7	10	113
FCL – 450	224	112MM	F7	12	145
FCL – 560	250	125MM	F7	14	229
FCL – 630	280	140MM	F7	18	296

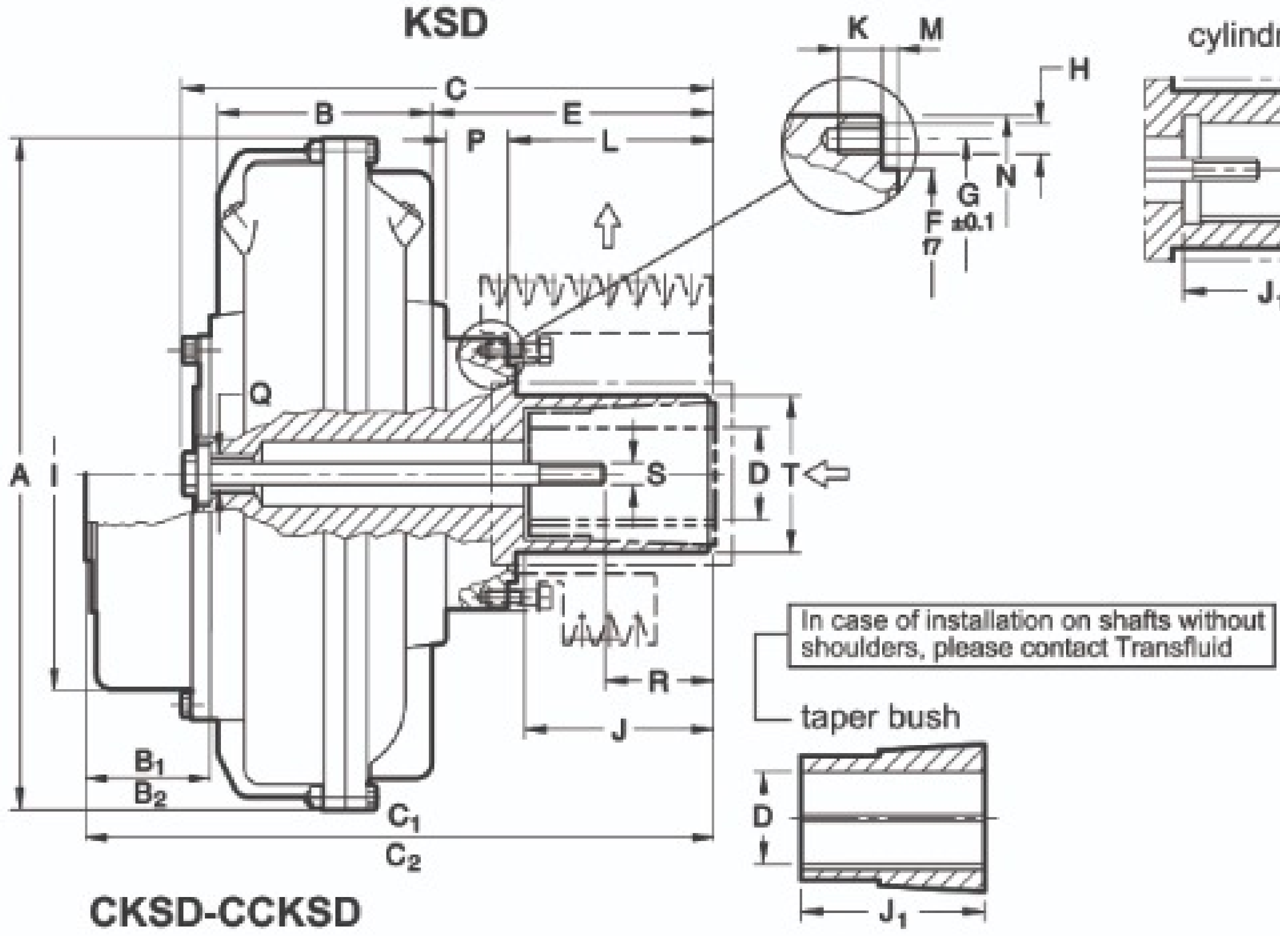
CHAIN COUPLING

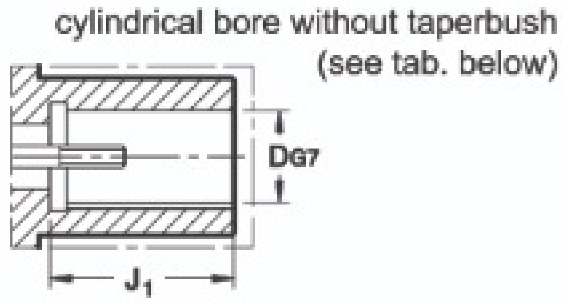


Unit: mm

Model no.	JIS code	Pilot bore dia.	Bore dia. Min.	Bore dia. Max.	Inertia kg·m²	GD² {kgf·m²}	Chain Pitch	Chain Max. Width	D	DH	L	ℓ	S	C	F	Approx. Mass kg
KC 4012	4012	9	11	22	2.47×10^{-4}	{9.89×10^{-4}}	12.70	33.1	61	35	79.4	36	7.4	10	16	0.8
KC 4014	4014	9	11	28	4.53×10^{-4}	{1.81×10^{-3}}			69	43	79.4	36		10	16	1.1
KC 4016	4016	13	16	32	7.90×10^{-4}	{3.16×10^{-3}}			77	50	87.4	40		6	20	1.6
KC 5014	5014	13	16	35	1.37×10^{-3}	{5.49×10^{-3}}	15.875	41.0	86	53	99.7	45	9.7	12	21	2.2
KC 5016	5016		18	40	2.18×10^{-3}	{8.72×10^{-3}}			96	60						2.8
KC 5018	5018		18	45	3.53×10^{-3}	{1.41×10^{-2}}			107	70						3.6
KC 6018	6018	18	22	56	9.33×10^{-3}	{3.73×10^{-2}}	19.05	51.1	128	85	123.5	56	11.5	15	26	6.5
KC 6022	6022		28	71	2.16×10^{-2}	{8.63×10^{-2}}			152	110						10.3
KC 8018	8018	23	32	80	3.63×10^{-2}	{1.45×10^{-1}}	25.40	65.3	170	115	141.2	63	15.2	30	26	13.8
KC 8022	8022	28	40	100	8.00×10^{-2}	{3.20×10^{-1}}			203	140	157.2	71		22	34	21.7
KC 10020	10020	33	45	110	1.61×10^{-1}	{6.42×10^{-1}}	31.75	81.9	233	160	178.8	80	18.8	30	36	32.6
KC 12018	12018	43	50	125	2.68×10^{-1}	{1.07}	38.10	102.7	256	170	202.7	90	22.7	50	36	43.9
KC 12022	12022	53	56	140	5.93×10^{-1}	{2.37}			304	210	222.7	100		40	46	69.0
KC 16018	16018	58	63	160	1.05	{4.19}	50.80	131.7	341	224	254.1	112	30.1	68	42	96.3
KC 16022	16022	73	80	200	2.50	{9.99}			405	280	310.1	140		40	70	166.8

TRANSFLUID COUPLING





Size	Weight kg (without oil) KSD	CKSD	CCKSD
7	5.9	-	-
8	6.5		
9	13		
11	15	17.5	
12	19	22	
13	31	34	
15	46	50	57.5
17	74	80	89
19	82	88	97
21	110	120	128
24	127	137	145
27	184	202	221

NB: The arrows ⇦ indicate input and output in the standard versions.

TAPER BUSH VERSION

Size	D	J	J_1	A	B KSD	B_1 CKSD	B_2 CCKSD	C max	C_1 CKSD	C_2 CCKSD	E	F	G	H Nr.	H Ø	I	K	L	M	N	P	Q	R	S	T max
7	19 24	69	40 50	228	77	-	-	159	-	-	55	75	90	4	M6	-	8	35	3	114	14	M1	29 38	M6 M8	50
	28		60					174			70							50					43	M10	
8	24		50	256	91			194			81							65					33	M8	
	28		60																				43	M10	
9	28 38	111	60 80	295	96			250			116	96	114	8	M8		13	85	5	128	20	M20	39 61	M10 M12	69
	•••42		80																				78	M16	
11	28 38		60 80	325	107	73.5		259	289.5		113					195							38 59	M10 M12	
	•••42		80																				78	M16	
12	38 42	113	80 110	372	122	80		274	327		125	112	130			224		98	7	145	22		54 83	M12 M16	80
	•••48		110																				83	M16	
13	42 48	144	110	398	137			367	407		190	135	155	12				158	6	177	29	M27	76	M16	88
	•••55 •••60		110 58.5																				76 106	M20	
15	48 55	145	110	460	151	92	142	390	438	488	195	150	178		M10	264	17	159	7	206	28		80 70	M16 M20	100
	60 •••65		140																				100	M20	
17	48 55	145	110	520	170	101	181	455	516	596	245	180	200			337	17	180		225	60		69	M20	132
	60 •••65		140																				99		
	•75 •80	-	140 170																				99 139		
19	48 55	145	110	565	190						225										45		69		
	60 •••65		140																				99		
	•75 •80	-	140 170																				99 139		

– D BORES RELATIVE TO TAPER BUSHES WITH A KEYWAY ACCORDING TO ISO 773 - DIN 6885/1
PARTICUALR CASES:
• CYLINDRICAL BORE WITHOUT TAPER BUSH ISO 773 - DIN 6885/1
••• TAPER BUSH WITHOUT A KEYWAY

CYLINDRICAL BORE VERSION

21	•80	-	170	620	205	115	205	505	580	670	260	200	228	8	M14	400	23	190	7	250	57	M36	135	M20	145
	•100		210					545	620	710	300							230					165	M24	
24	•80		170	714	229			505	580	670	236							190			M36		135	M20	
	•100		210					545	620	710	276							230					165	M24	
27	120 max		210	780	278	138	CONSULT OUR ENGINEERS																		

• STANDARD CYLINDRICAL BORES WITH KEYWAYS ACCORDING TO ISO 773 - DIN 6885/1
– WHEN ORDERING SPECIFY: SIZE - MODEL - D DIAMETER
EXAMPLE: 12KSD - D 42

DIMENSIONS ARE SUBJECT TO ALTERATION WITHOUT NOTICE

HRC Couplings

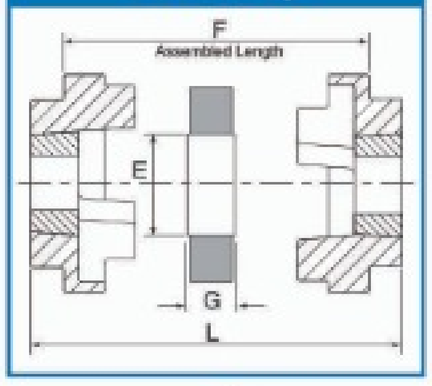
HRC Common Data

Coupling Size	Nominal Torque Nm	Overall Diameter A	Hub Diameter B	Assembled Length F	Element Ring Dia E	Element Ring Width G	Parallel Misalignment	Weight kg	Assembled Length (L) FF, FH, HH	Assembled Length (L) FB,HB	Assembled Length (L) BB
70	31	69	60	25.5	31	18.5	0.3	1.00	65.5	65.5	65.5
90	80	85	70	30.5	32	22.5	0.3	1.17	69.5	76.5	82.5
110	160	112	100	45.5	45	29.5	0.3	5.00	82.5	100.5	119.5
130	315	130	105	53.5	50	36.5	0.4	5.46	89.5	110.5	131.5
150	600	150	115	60.5	62	40.5	0.4	7.11	107.5	129.5	152.5
180	950	180	125	73.5	77	49.5	0.4	16.65	142.5	165.5	189.5
230	2000	225	155	85.5	99	59.5	0.5	26.05	164.5	202.5	239.5
280	3150	275	206	105.5	119	74.5	0.5	50.05	207.5	246.5	285.5

Angular misalignment capacity up to 1 deg
Weight is for an FF, FH or HH coupling with mid range Taper Bushes
F refers to combinations of flanges: FF, FH, HH, FB, HB, BB.

The elastomeric element in Challenge HRC couplings is manufactured from nitrile rubber with an operating temperature span between -40°C and +100°C.

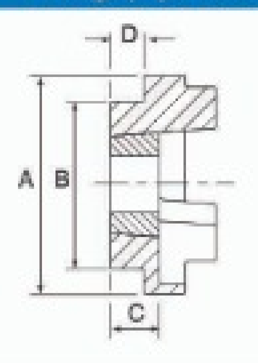
HRC Assembly



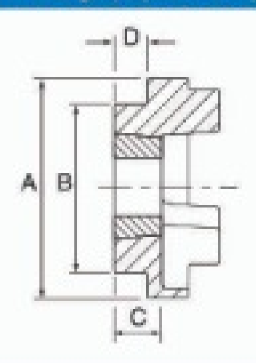
HRC Type F & H

Coupling No	Bush size	Max. Bore mm	Max. Bore inch	Shoulder Width D	Hub Width C
70	1008	25	1"	20.0	23.5
90	1108	28	1.1/8"	19.5	23.5
110	1610	42	1.5/8"	18.5	26.5
130	1610	42	1.5/8"	18.0	26.5
150	2012	50	2"	23.5	33.5
180	2517	65	2.1/2"	34.5	46.5
230	3020	75	3"	39.5	52.5
280	3525	100	4"	51.0	66.5

F Flange (Taper bored)



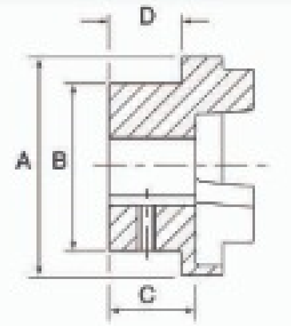
H Flange (Taper Bored)



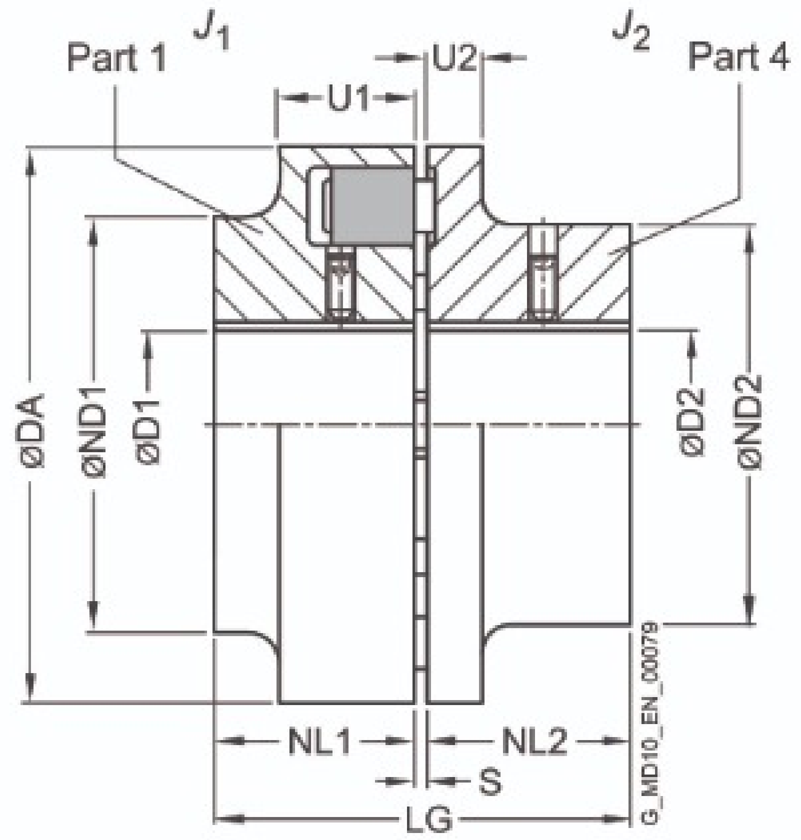
HRC Type B (Pilot Bore)

Coupling No	Max. Bore	Pilot Bore	Keyway Screw Size	Shoulder Width D	Hub Width C
70	32	8	M 6	20	23.5
90	42	10	M 6	26	30.5
110	55	10	M10	37	45.5
130	60	15	M10	39	47.5
150	70	20	M10	46	56.5
180	80	25	M10	58	70.5
230	100	25	M12	77	90.5
280	115	30	M16	90	105.5

B Flange (Pilot Bore)

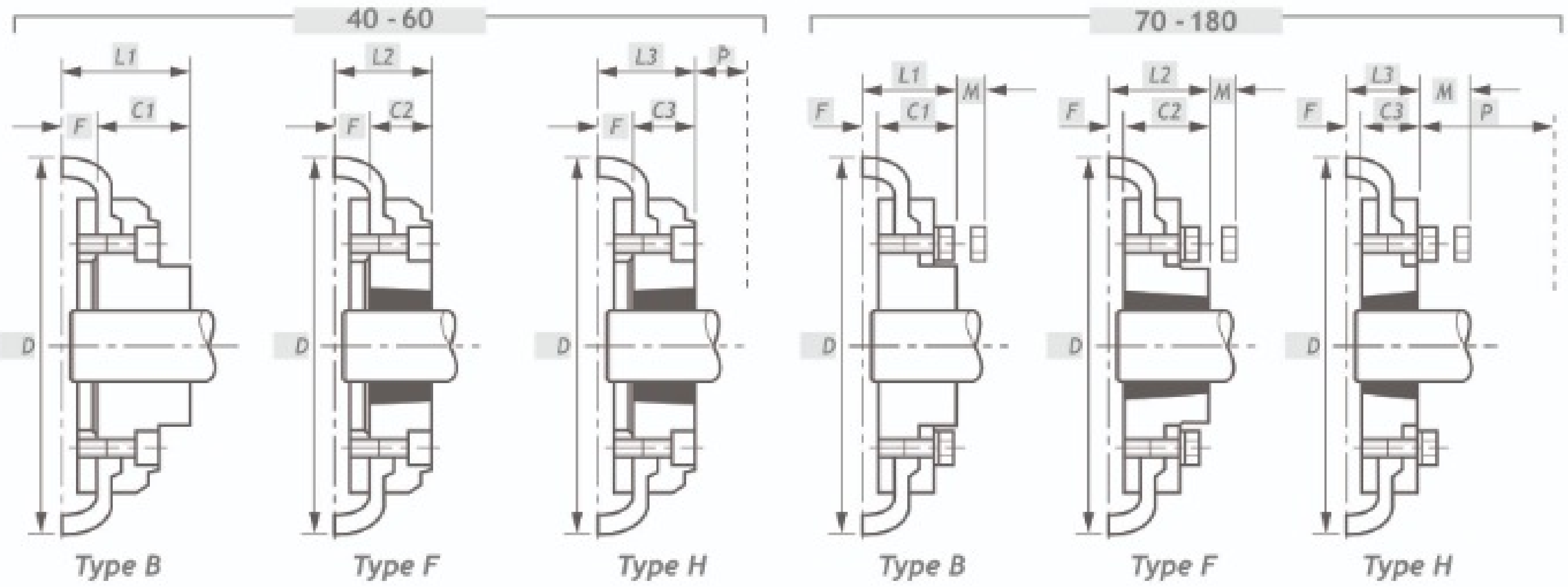


COUPLING N EUPEX



Size	Rated torque flexible type 80 ShoreA	Speed	Dimensions in mm Bore with keyway to DIN 6885												Mass moment of inertia	Weight
	T_{KN}	n_{Kmax}	D1		D2		DA	ND1	ND2	NL1/ NL2	S	U1	U2	LG	J_1/J_2	m
			min.	max.	min.	max.										
	Nm	rpm													kgm^2	kg
B - 58	19	7500		19		20	58	58	40	20	3	20	8	43	0.0001	0.4
B - 68	34	7000		24		25	68	68	50	20	3	20	8	43	0.0002	0.54
B - 80	60	6000		30		34	80	80	68	30	3	30	10	63	0.0006	1.3
B - 95	100	5500		38		38	95	76	76	35	3	30	12	73	0.0013	2.2
B - 110	160	5300		43		43	110	86	86	40	3	34	14	83	0.003	3.3
B - 125	240	5100		50		50	125	100	100	50	3	36	18	103	0.006	5.2
B - 140	360	4900		55		55	140	100	100	55	3	34	20	113	0.007	5.6
B - 160	560	4250		60		60	160	108	108	60	4	39	20	124	0.01	7.8
B - 180	880	3800		70		70	180	125	125	70	4	42	20	144	0.02	11.5
B - 200	1340	3400		80		80	200	140	140	80	4	47	24	164	0.04	16
B - 225	2000	3000		85		85	225	150	150	90	4	52	18	184	0.07	20
B - 250	2800	2750	46	100	46	100	250	165	165	100	6	60	18	206	0.12	29
B - 280	3900	2450	49	110	54	110	280	180	180	110	6	65	20	226	0.18	38

TIREFLEX
FLEXIBLE COUPLING



Coupling size	Power /100rpm kW	Torque nominal Nm	Speed max rpm	Type B Bore Max	Type B Bore Min	Type F Bush size	Type F Bore Max	Type F Bore Min	Type H Bush size	Type H Bore Max	Type H Bore Min	Max misalignment Offset mm	Max misalignment Angular deg	End float mm	Torsional stiffness Nm° at 20°C
40 # #	0.26	25	4500	30	12	TB1008	25	9	TB1008	25	9	1.1	4	±1.3	6
50 # #	0.69	66	4500	38	15	TB1210	32	11	TB1210	32	11	1.3	4	±1.7	12.5
60 # #	1.33	127	4000	45	18	TB1610	42	14	TB1610	42	14	1.6	4	±2.0	32
70 # #	2.62	250	3600	50	22	TB2012	50	14	TB1610	42	14	1.9	4	±2.3	60
80 # #	3.93	375	3100	60	25	TB2517	60	16	TB2012	50	14	2.1	4	±2.6	63
90 # #	5.24	500	3000	70	28	TB2517	60	16	TB2517	60	16	2.4	4	±3.0	91
100 # #	7.07	675	2600	80	32	TB3020	75	25	TB2517	60	16	2.6	4	±3.3	126
110 # #	9.2	875	2300	95	30	TB3020	75	25	TB3020	75	25	2.9	4	±3.7	178
120 # #	13.9	1300	2050	110	38	TB3525	100	35	TB3020	75	25	3.2	4	±4.0	296
140 # #	24.3	2320	1800	130	75	TB3525	100	35	TB3525	100	35	3.7	4	±4.6	470
160 # #	39.4	3770	1600	140	85	TB4030	100	40	TB4030	100	40	4.2	4	±5.3	776
180 # #	65.8	6270	1500	150	85	TB4535	125	55	TB4535	125	55	4.8	4	±6.0	1370

Coupling size	Dimensions C1 mm	C2 mm	C3 mm	D mm	F mm	L1 mm	L2 mm	L3 mm	M mm	P mm	Type B mass* kg	Type F mass* kg	Type H mass* kg
40 # #	22	22	22	104	11	33.5	33.5	33.5	N/A	29	1.05	1.05	1.05
50 # #	32	25	25	133	12.5	45	38	38	N/A	38	1.5	1.5	1.5
60 # #	38	25	25	165	16.5	55	42	42	N/A	38	2.35	2.35	2.35
70 # #	35	32	25	187	11.5	47	44	42	13	38	3.45	3.45	3.45
80 # #	42	45	32	211	12.5	55	58	45	16	42	5	5	5
90 # #	49	45	45	235	13.5	63	59	59	16	48	7.25	7.25	7.25
100 # #	56	51	45	254	13.5	70	65	59	16	48	10	10	10
110 # #	63	51	51	279	12.5	76	63.5	63.5	16	55	12.5	11.7	11.7
120 # #	70	65	51	314	14.5	84.5	78.5	65.5	16	67	16.9	16.5	15.9
140 # #	94	65	65	359	16	110.5	81	81	17	67	22.2	22.3	22.3
160 # #	102	77	77	402	15	117	92	92	19	80	35.8	33.5	32.5
180 # #	114	89	89	470	23	137	112	112	19	89	49.1	42.2	42.2

TECHNOMOTO

FLEXIBLE COUPLING