

Flexible Tyre Couplings

Selection

The extreme elastic design of TransDrive Tyre couplings are interchangeable with leading European and American brands. The flexible tyre possesses tremendous vibration and shock absorbing qualities and allows compensation for significant parallel and angular misalignment. TransDrive Tyre couplings have shock and vibration dampening characteristics creating significant load reduction on machinery and bearings thereby reducing costs and prolonging life. When used in conjunction with a series Spacer (see page 24) a Tyre coupling easily accommodates standard 100, 140, and 180mm spacers. TaperFit bushes, Spacer coupling, and a generous allowance for misalignment ensures Tyre couplings are extremely easy to install.

Power Ratings

Ratings	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180	F200	F220
Power kW per 100 rpm	0.251	0.691	1.33	2.62	3.93	5.24	7.07	9.16	13.9	24.3	39.5	65.7	96.7	121
Power kW @ 720 rpm	1.81	4.98	9.57	18.8	28.3	37.7	50.9	66.0	100	175	284	473	703	875
Power kW @ 960 rpm	2.41	6.63	12.8	25.1	37.7	50.3	67.9	88.0	134	234	379	630	937	1166
Power kW @ 1440 rpm	3.62	9.95	19.1	37.7	56.5	75.4	102	132	201	351	568	945	-	-
Power kW @ 2880 rpm	7.24	19.9	38.3	75.4	113	151	-	-	-	-	-	-	-	-
Speed Maximum (rpm)	4500	4500	4000	3600	3100	3000	2600	2300	2050	1800	1600	1500	1300	1100
Torque Nominal (Nm)	24	66	127	250	375	500	675	875	1330	2325	3770	6270	9325	11600
Torque Maximum (Nm)	64	160	318	487	759	1096	1517	2137	3547	5642	9339	16455	23508	33125

Physical Characteristics

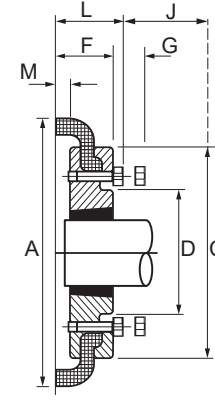
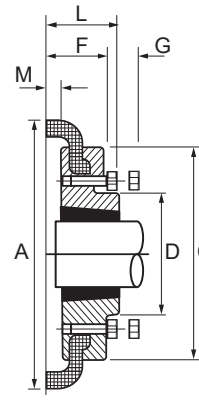
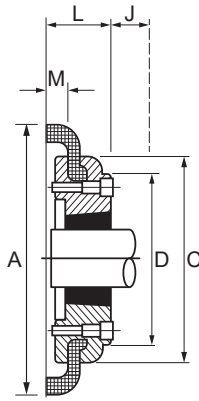
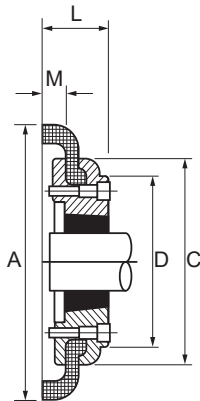
Size	Max. Speed rev/ min	Nominal Torque Nm TK N	Max. Torque Nm TK MAX	Torsional Stiffness Nm/O	Max. parallel misalignment mm	Max. end float mm ±	Approx. mass kg	Alternating Torque ± Nm @ 10Hz TKW	Resonance Factor V R	Dampening Coefficient
F40	4500	24	64	5	1.1	1.3	0.1	11	7	0.9
F50	4500	66	160	13	1.3	1.7	0.3	26	7	0.9
F60	4000	127	318	26	1.6	2	0.5	53	7	0.9
F70	3600	250	487	41	1.9	2.3	0.7	81	7	0.9
F80	3100	375	759	63	2.1	2.6	1	127	7	0.9
F90	3000	500	109	91	2.4	3	1.1	183	7	0.9
F100	2600	675	1517	126	2.6	3.3	1.1	252	7	0.9
F110	2300	875	2137	178	2.9	3.7	1.4	356	7	0.9
F120	2050	1330	3547	296	3.2	4	2.3	591	7	0.9
F140	1800	2325	5642	470	3.7	4.6	2.6	940	7	0.9
F160	1600	3770	9339	778	4.32	5.3	3.4	1556	7	0.9
F180	1500	6270	16455	1371	4.8	6	7.7	2742	7	0.9
F200	1300	9325	23508	1959	5.3	6.6	8.0	3918	7	0.9
F220	1100	11600	33125	2760	5.8	7.3	10.0	5521	7	0.9



Dimensions

Sizes F40 - F60

Sizes F70 - F220



F Flange

H Flange

F Flange

H Flange

Size	A	C	D	E		F	L		G	J	M	Kg	
				F	H		F	H				F	H
F40	104	82	-	22	22	-	33.5	33.5	N/A	29	11	0.8	0.8
F50	133	100	79	25	25	-	38	38	N/A	38	12.5	1.2	1.2
F60	165	125	103	25	25	-	42	42	N/A	38	16.5	2.0	2.0
F70	187	144	80	32	25	50	44	42	13	36	11.5	3.1	3.0
F80	211	167	98	45	32	54	58	45	16	42	12.5	4.9	4.6
F90	235	188	108	45	45	60	59	56	16	48	13.5	7.0	7.0
F100	254	216	120	51	45	62	65	59	16	48	13.5	9.9	9.4
F110	279	233	134	51	51	62	63.5	63.5	16	55	12.5	11.7	11.7
F120	314	264	140	65	51	67	78.5	65.5	16	67	14.5	16.5	16.9
F140	359	311	147	65	65	73	81	81	14	67	16	22.3	22.3
F160	402	345	197	77	77	78	92	92	16	80	15	32.5	32.5
F180	470	398	205	90	90	94	112	112	19	89	23	42.2	42.2
F200	562	474	223	20	20	118	118	118	20	92	27.5	72.0	72.0
F220	474	223	118	20	20	11	129.5	102	20	92	27.5	72.0	72.0