

# Couplings

Chain Couplings | Flexible Couplings | Rigid Couplings



"Why compete against your supplier when you can be our partner"

## COUPLINGS

Element Identification .....	202
Chain Coupling .....	204
Cone Ring Coupling .....	205
Curved Jaw (Rotex) Coupling .....	207
Curved Tooth Gear Coupling .....	210
Flexible Tyre Coupling .....	211
HRC Coupling .....	213
Jaw Coupling .....	215
MAX DYNAMIC® Omega® Equivalent .....	217
MAX DYNAMIC® Standard .....	217
MAX DYNAMIC® Standard with Compression Bushed Hubs .....	218
MAX DYNAMIC® Spacer .....	219
Rigid Coupling .....	222
Spacer Coupling .....	223
KCP Couplings .....	224
Gear Coupling .....	224
Characteristics, Applications, Installation .....	224
Range and Dimensions .....	232
Taper Grid Coupling .....	233
Characteristics, Applications, Installation .....	233
Range and Dimensions .....	242
Coupling Comparison Chart .....	244

## KCP (Korea) – Korea Coupling Co., Ltd.

Korea Coupling Co., Ltd., is a specialist manufacturer of power transmission equipment including high quality shaft couplings for various industries such as steel mills, paper mining, chemical and cement, etc.

[www.koreacoupling.co.kr](http://www.koreacoupling.co.kr)

## Cone Ring Rubber



Synthetic Rubber - See Cone Ring Couplings

## Curved Tooth Gear Sleeve



Nylon Sleeve - See Curved Tooth Gear Couplings

## Curved Jaw (Rotex) Element



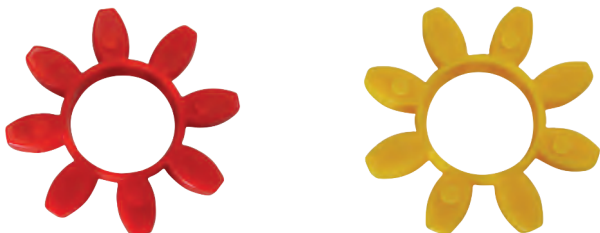
Polyurethane Red 98/Yellow 92 Shore Hardness  
Small - to suit size 19 - See Curved Jaw Couplings

## Tyre Element



Synthetic Rubber - See Tyre Couplings

## Curved Jaw (Rotex) Element



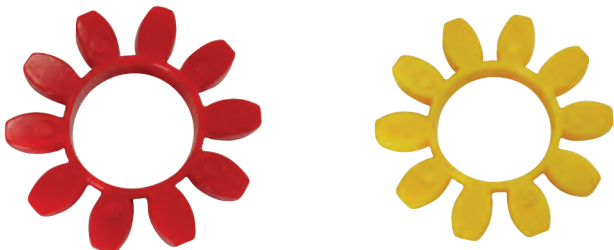
Polyurethane Red 98/Yellow 92 Shore Hardness  
Med - to suit size 24-64 - See Curved Jaw Couplings

## Tyre Element (FRAS Rated)



Fire Resistant Anti Static Synthetic Rubber  
See Tyre Couplings

## Curved Jaw (Rotex) Element



Polyurethane Red 98/Yellow 92 Shore Hardness  
Large - to suit size 75-95 - See Curved Jaw Couplings

## Taper Grid



Steel Taper Grid - See KCP Grid Couplings

"Why compete against your supplier when you can be our partner"

## HRC Element



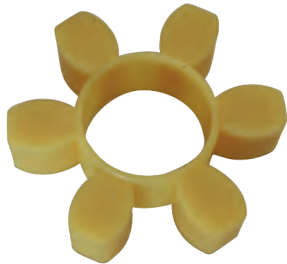
Nitrile Rubber - See HRC Couplings

## Jaw Element (Snap Wrap)



Nitrile Rubber - See Jaw Couplings

## HRC Element (PUE)



Polyurethane - See HRC Couplings

## Jaw Elements (Snap Wrap Kit)



Nitrile Rubber & Retaining Ring- See Jaw Couplings

## Jaw Element (Spider)



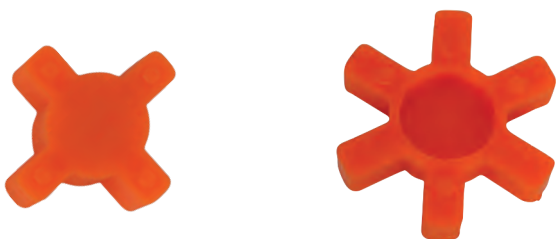
Nitrile Rubber - Small to suit size 050-070  
Large to suit size 075-225 - See Jaw Couplings

## Max Dynamic® Element



Omega® Equivalent Polyurethane Element  
See Max Dynamic® Couplings

## Jaw Element (Poly-Spider)



Polyurethane - Small to suit size 050-070  
Large to to suit size 075-225- See Jaw Couplings

## Max Dynamic® Spacer Element



Omega® Equivalent Polyurethane Spacer Element  
See Max Dynamic® Couplings

The Finer Chain Coupling consists of two sprockets joined together by standard duplex roller chain. This highly compact structure provides high flexibility between shafts, power transmission capabilities and is durable and robust.

Chain Couplings allow for easy maintenance, it is a simple easy on/easy off process.

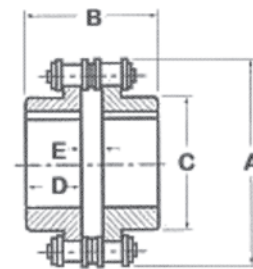
Finer Power Transmissions Chain Couplings are supplied with casings standard.

## Chain Coupling Ratings

Coupling	Min. Bore	Max. Bore	Max. RPM		Weight Kg
			Without Cover	With Cover	
C4012	14	22	875	5000	0.73
C4016	16	32	875	5000	1.5
C5016	18	40	800	4000	2.75
C5018	18	45	800	4000	3.6
C6018	22	56	675	3000	6.55
C6022	28	71	675	3000	10.4
C8018	32	80	500	2000	13.2
C8022	40	100	500	2000	21.8
C10020	45	110	450	1800	32.4

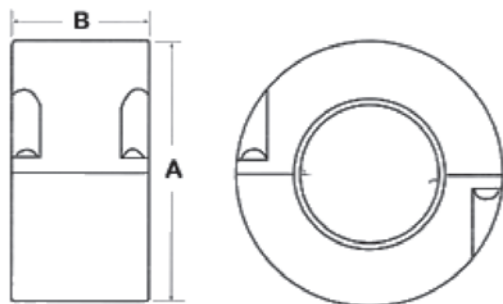


Coupling	A	B	C	D	E	K(2)
C4012	62	79.4	36	36	7.4	-
C4016	77	87.4	51.5	40	7.4	0.75
C5016	96	99.7	64	45	9.7	-
C5018	106	99.7	73.5	45	9.7	1.06
C6018	127	123.5	89.5	56	11.5	-
C6022	151	123.5	116	56	11.5	1.38
C8018	169	141.2	115	63	15.2	-
C8022	202	157.2	142	71	15.2	2.06
C10020	233	178.8	162	80	18.8	2.34



Straight Bore Chain Coupling

For increased safety Chain Coupling covers should be used. The cover not only improves the safety of the work place but also increases the Chain Couplings overall durability.



Coupling Covers	Cover Required when RPM Exceeds	A	B	Weight
C4012	875	77	72	0.3
C4016		92	72	0.35
C5016	800	110	87	0.5
C5018		122	85	0.6
C6018	675	147	105	1.2
C6022		168	117	1.2
C8018	500	190	129	1.9
C8022		226	137	2.7
C10020	450	281	153	4.1

(2) Space required to loosen bushing with shortened hex key

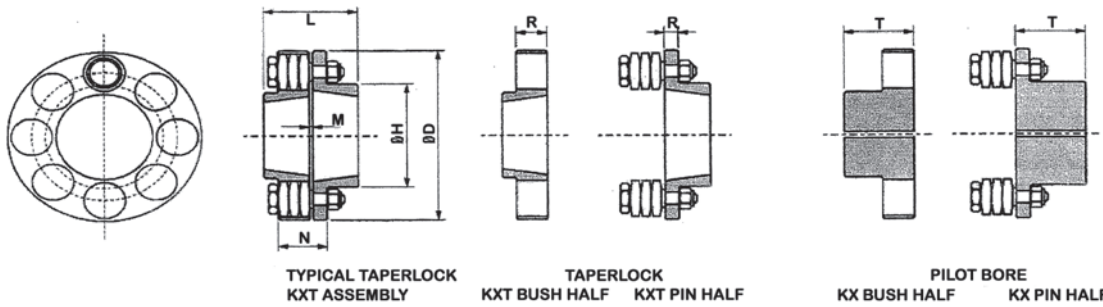
"Why compete against your supplier when you can be our partner"

Finer Cone Ring Couplings are based on a time proven design. The coupling consists of two flanges interlocked with a number of elements, depending on the coupling size.

The Cone Rings Couplings unique flexible element comprises tapered rubber rings mounted on steel pins. The rubber rings absorb commonly encountered misalignment, shock and vibration.

The Cone Ring Coupling is as popular as ever for its ease of maintenance. No Lubrication is required. The Pin and Rubber design ensures trouble free maintenance, as they can be removed and changed without the need to take the coupling off the shafts.

The flanges are high-grade cast iron; the pins are hexagonal steel bar; and the rings are synthetic rubber.



Size	No. of Pins (Rubbers)	Pin/ Rubber Size (D.Brown)	Max. Bore PB/ Bush Size		D	H		L	M	R		T		Kg	
			Pin Half	Bush Half		Pin Half	Bush Half			Pin Half	Bush Half	Pin Half	Bush Half	Pin Half	Bush Half
KX020	6 (18)	1 (GC 3/4"-3)	28	20	88	35	44		6	12	23	53	33	0A	0A
KX030	4 (12)	2 (GC 1"-3)	38	32	127	64	58	85	3	12	26	41		1.8	2.5
KX038	6 (18)	2 (GC 1"-3)	42	38	132	72	64	99	3	12	26	48		2.1	2.3
KX042	8 (24)	2 (GC 1"-3)	48	42	146	83	78	115	3	12	26	56		3.0	3.2
KXT042			1610	1215				69.5				28.4	38.1	1.8	2.3
KX048	6 (18)	3 (GC 1 3/4"-3)	55	48	171	90	82	90	3	17	33	61		4.9	5.0
KXT048			2012	1615				82				35	38.1	3.6	4.6
KX058	8 (24)	3 (GC 1 3/4"-3)	65	58	193	106	98	139	3	17	33	68		5.1	5.9
KXT058			2517	2012				82.3				47.5	31.8	3.8	5.6
KX070	10 (30)	3 (GC 1 3/4"-3)	75	70	216	128	117	155	3	17	33	76		9.2	9.0
KXT070			3020	2525				121.5				55	63.5	6.1	7.6
KX075	8 (32)	4 (GC 2 3/4"-3)	80	75	254	127	127	179	3	30	56	88		16.5	16.9
KX085	10 (40)	4 (GC 2 3/4"-3)	105	85	279	166	148	203	3	30	56	100		22.4	21.5
KXT085			3535	3030				172.2				93	76.2	17.1	19.6
KX105	12 (48)	4 (GC 2 3/4"-3)	120	85	330	202	180	237	3	30	56	117		36.3	35.0
KXT105			4040	3535				197.5				105.6	88.9	24.5	27.5
KX120	10 (40)	5 (GC 4 1/4"-3)	130	120	370	232	206	270	6	46	76	132		56.1	51.0
KXT120			4040	4040				217.2				105.6	105.6	39.5	40.5
KX135	12 (48)	5 (GC 4 1/4"-3)	135	135	419	240	230	300	6	46	76	147		70.0	71.0
KXT135			4545	4545				239.6				119.3	114.3	52.8	56.8
KX150	14 (56)	5 (GC 4 1/4"-3)	150	150	457	160	256	336	6	46	76	165		88.6	93.0
KXT150			5050	5050				265				132	127	66.8	72.8
KX170	10 (40)	6 (GC 6-1/4"-3)	190	170	533	320	292		6	63	92	188		305	

Size	Power Ratings (Kw @ )						Nominal Torque (Nm)
	100 rpm	720 rpm	960 rpm	1440 rpm	2880 rpm	Max .rpm	
020	0.55	3.96	5.28	7.92	15.84	6500	53
030	1.16	8.4	11.1	16.7	33.4	4600	110
038	1.87	13.5	18.0	26.9	53.9	4400	175
042	2.84	20.4	27.3	40.9	81.8	4000	265
048	4.93	35.5	47.3	71.0	142.0	3400	465
058	7.54	54.3	72.4	108.6	217.2	3020	720
070	10.70	77.0	102.7	154.1	-	2700	1020
075	25.7	185.0	246.7	370.1	-	2300	2450
085	35.5	255.6	340.8	511.2	-	2090	3390
105	53	382	509	763	-	1760	5080
120	90	648	864	1296	-	1570	8474
135	122	878	1171	-	-	1390	11520
150	159	1145	1526	-	-	1280	15140
170	246	1771	2362			1090	23500

## Selection Procedure

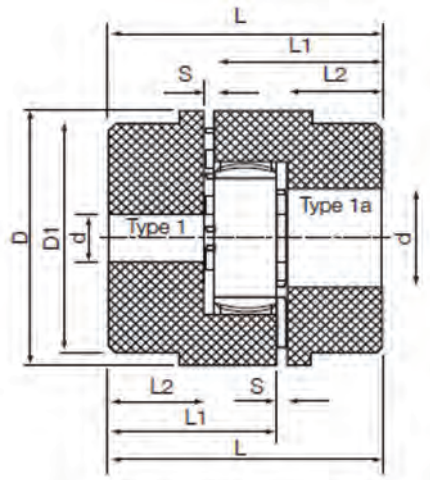
1. From the service factors table (below) determine the service factor
2. Calculate the Design Power by multiplying the Absorbed Power of the driven machine by the Service Factor.
3. Determine the size of coupling required by matching the design power to a power rating that matches or exceeds the Design Power.

The Pin Half is normally mounted on the drive shaft.

Duty	Electric Motors
Uniform	1.0
Light	1.5
Moderate	2.0
Heavy	2.5
Severe	3.0



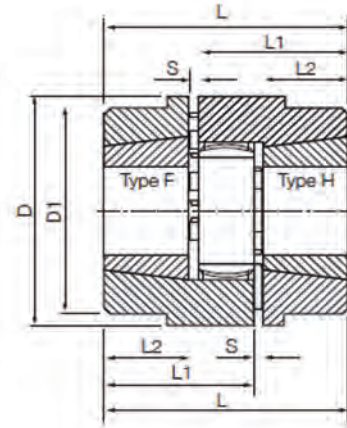
"Why compete against your supplier when you can be our partner"



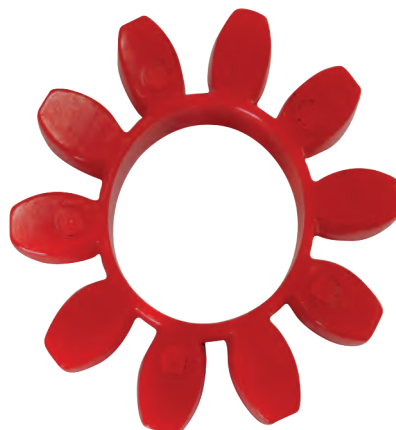
Type	Hub Type	Max Speed RPM	Rated Torque		D	D1	d-min	d-max	S	L1	L2	L	Kg
			92 Sh A Yellow	98 Sh A RED									
GE19	1	19000	10	17	40	32	6	19	1	39	25	65	0.19
	1a						19	24					
GE24	1	14000	35	60	56	40	9	24	1	46	30	77	0.38
	1a						22	28					
GE28	1	11800	95	160	65	48	10	28	1.5	52.5	35	89	0.62
	1a						28	38					
GE38	1	9500	190	325	80	66	12	38	1	66	45	112	1.36
	1a						38	45					
GE42	1	8000	265	450	95	75	14	42	1	73	50	124	2.03
	1a						42	55					
GE48	1	7100	310	525	105	85	15	48	1.5	80.5	56	138	2.85
	1a						48	60					
GE55	1	6300	410	685	120	98	20	55	2	91	65	158	4.32
	1a						55	70					
GE65	1	5600	625	940	135	115	22	65	1.5	105.5	75	182	6.66
	1a						22	65					
GE75	1	4750	1280	1920	160	135	30	75	1	120	85	206	10.48
	1a						30	75					
GE90	1	3750	2400	3600	200	160	40	90	1.5	139.5	100	241	17.89
	1a					180	40	90					



# Curve Jaw (Rotex) Couplings



Type	Hub Type	Max Speed RPM	Rated Torque		Bush Size	Max Bore	D	D1	S	L1	L2	L	Kg
			92 Sh A Yellow	98 Sh A RED									
GE28	F	11800	95	160	1108	28	65		1.5	40.5	23	65	0.46
	H				1108	28							
GE38	F	9500	190	325	1108	28	80	78	1	44	23	68	0.79
	H				1108	28							
GE42	F	8000	265	450	1610	42	95	94	1	49	26	76	1.1
	H				1610	42							
GE48	F	7100	310	525	1615	42	105	104	1.5	63.5	39	104	2.07
	H				1615	42							
GE55	F	6300	410	685	2012	50	120	118	2	59	33	94	2.22
	H				2012	50							
GE65	F	5600	625	940	2012	50	135	133	1.5	63.5	33	98	3.14
	H				2517	65				75.5	45	122	4.03
GE75	F	4750	1280	1920	2517	65	160	135	1	81	46	128	4.69
	H				3020	75				87	52	140	4.99
GE90	F	3750	2400	3600	3020	75	200	160	1.5	91.5	52	145	7.74
	H				3525	100				103.5	64	169	8.74



"Why compete against your supplier when you can be our partner"

## Power Ratings (KW)

Yellow (92 Shore) Elements										
Speed (RPM)	Coupling Size									
	19	24	28	38	42	48	55	65	75	90
100	0.1	0.37	1	1.99	2.78	3.25	4.29	6.55	13.4	25.1
500	0.52	1.83	4.98	9.95	13.9	16.2	21.5	32.7	67	126
700	0.73	2.56	6.97	13.9	19.4	22.7	30.1	45.8	93.8	176
720	0.75	2.64	7.16	14.3	20	23.4	30.9	47.1	96.5	181
800	0.84	2.93	7.96	15.9	22.2	26	34.3	52.4	107	201
900	0.94	3.29	8.96	17.9	25	29.2	38.6	58.9	121	226
960	1.01	3.51	9.55	19.1	26.6	31.2	41.2	62.8	129	241
1000	1.05	3.66	9.95	19.9	27.8	32.5	42.9	65.5	134	251
1200	1.26	4.39	11.9	23.9	33.3	39	51.5	78.5	161	302
1400	1.47	5.12	13.9	27.9	38.9	45.4	60.1	91.6	188	352
1440	1.51	5.27	14.3	28.7	40	46.7	61.8	94.2	193	362
1500	1.57	5.49	14.9	29.9	41.6	48.7	64.4	98.2	201	377
1800	1.88	6.59	17.9	35.8	50	58.4	77.3	118	241	452
2000	2.09	7.32	19.9	39.8	55.5	64.9	85.9	131	268	503
2880	3.02	10.5	28.7	57.3	79.9	93.5	124	188	386	724
3000	3.14	11	29.9	59.7	83.3	97.4	129	196	402	754
4000	4.19	14.6	39.8	79.6	111	130	172	262	536	-

Red (98 Shore) Elements										
Speed (RPM)	Coupling Size									
	19	24	28	38	42	48	55	65	75	90
100	0.018	0.63	1.68	3.4	4.71	5.5	7.17	9.84	20.1	37.7
500	0.89	3.14	8.38	17	23.6	27.5	35.9	49.2	101	189
700	1.25	4.4	11.7	23.8	33	38.5	50.2	68.9	141	264
720	1.28	4.52	12.1	24.5	33.9	39.6	51.6	70.9	145	271
800	1.42	5.02	13.4	27.2	37.7	44	57.4	78.7	161	302
900	1.6	5.65	15.1	30.6	42.4	49.5	64.6	88.6	181	339
960	1.71	6.03	16.1	32.7	45.2	52.8	68.9	94.5	193	362
1000	1.78	6.28	16.8	34	47.1	55	71.7	98.4	201	377
1200	2.14	7.54	20.1	40.8	56.5	66	86.1	118	241	452
1400	2.49	8.79	23.5	47.6	66	77	100	138	281	528
1440	2.56	9.04	24.1	49	67.9	79.2	103	142	290	543
2880	5.2	18.1	48.4	97.9	135.7	158.4	206.5	283.4	578.9	1085.8

# Curved Tooth Gear Coupling



"Australia's Only Genuine Wholesaler"

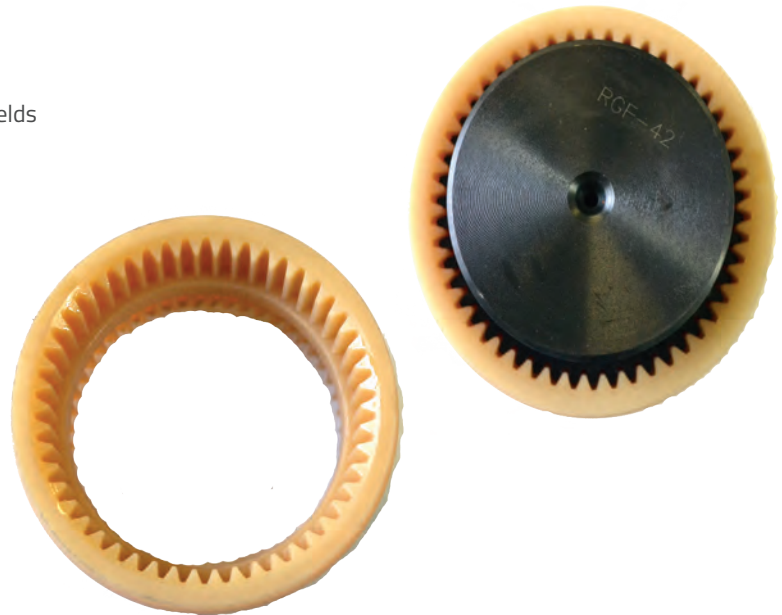
Finer stock a range of pilot bore Curved Tooth Gear Couplings. The Curved Tooth Gear Coupling consists of 2 geared hubs and a curved tooth nylon sleeve.

## Product Characteristics:

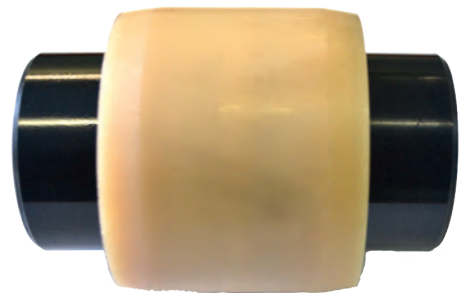
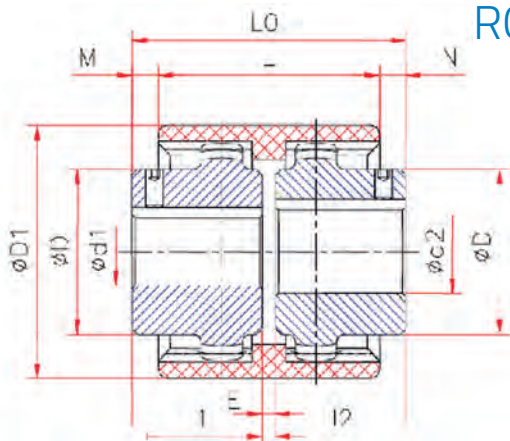
- Double-Section type curved-tooth gear coupling
- Widely applicable in various mechanical & hydraulic fields
- Nylon & steel matched, maintenance free
- Able to offset axial, radial & angular misalignments
- Axial plugging assembly, very convenient

## Nylon Toothed Sleeve Characteristics:

- Excellent Mechanical Performance
- High rigidity
- High temperature resistance (+100C)
- Not embrittled at low temperature
- Good slippery & frictional behaviour
- Excellent electrical insulation behaviour
- Chemical corrosion endurable
- High Accuracy of processing



## RGF Coupling



Size	Max Bore (mm)	Dimensions (mm)							Torque Rating (Nm)	Weight (Kg)	
		I1 I2	LO	L	M, N	E	D1	D		Nylon Sleeve	Hub Half
RGF-19	19	25	54	37	8.5	4	48	30	16	0.03	0.21
RGF-24	24	26	56	41	7.5	4	52	36	20	0.04	0.25
RGF-28	28	40	84	46	19	4	66	28	45	0.07	0.62
RGF-32	32	40	84	48	18	4	76	50	60	0.09	0.83
RGF-38	38	40	84	48	18	4	83	58	80	0.11	1.04
RGF-42	42	42	88	50	19	4	92	65	100	0.14	1.41
RGF-48	48	50	104	50	27	4	95	67	140	0.16	1.43
RGF-55	55	52	108	58	25	4	114	82	240	0.26	2.50
RGF-65	65	55	114	65	23	4	132	95	380	0.39	3.58

Ordering Curved Tooth Gear Couplings:

RGF-XX-1 = Curved tooth gear hub half

RGF-XX-2 = Curved tooth nylon gear sleeve

Every effort has been taken to ensure that the data listed in this catalogue is correct. Finer Power Transmissions P/L will not accept liability for any damage or loss caused as a result of the data in this catalogue.

"Why compete against your supplier when you can be our partner"

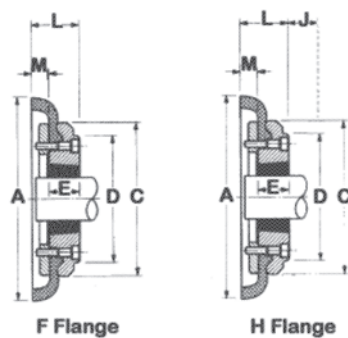
Finer stock a range of the highly flexible Tyre Couplings. Consisting of two flanges, the two halves are joined by a rubber tyre. The tyre itself is torsionally soft and flexible; this allows the Tyre Coupling to compensate for large amounts of shock loading and backlash, as well as both parallel and axial misalignment. Finer also stocks all tyres in the Fire Resistant Anti-Static (FRAS) compound for those certain sensitive environments.

## Highly Flexible

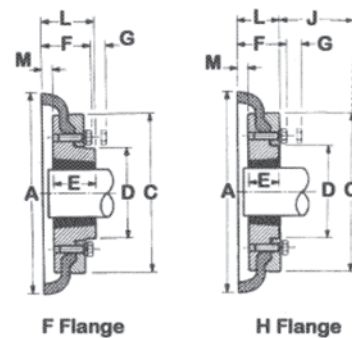
Compensates for misalignment, upto; 4° angular, 6mm parallel, 8mm axial.  
Torsional flexibility of upto 12°, at max. torque.

Size	Power @ 100 rpm in Kw	Nominal Torque	Max. Speed rpm	Bore B		Bush F	Bush H	Max. Misalignment		End Float
				Max.	Min.			Parallel	Angular	
T4	0.26	25	4500	25	10	1008	1008	1.1	4	1.3
T5	0.69	66	4500	32	11	1210	1210	1.3	4	1.7
T6	1.33	127	4000	42	14	1610	1610	1.6	4	2
T7	2.62	250	3600	50	14	2012	1610	1.9	4	2.3
T8	3.93	375	3100	65	14	2517	2012	2.1	4	2.6
T9	5.24	500	3000	65	16	2517	2517	2.4	4	3
T10	7.07	675	2600	75	16	3020	2517	2.6	4	3.3
T11	9.20	875	2300	75	24	3020	3020	2.9	4	3.7
T12	13.9	1300	2050	100	24	3525	3020	3.2	4	4
T14	24.3	2320	1800	100	35	3525	3525	3.7	4	4.6
T16	39.4	3770	1600	115	40	4030	4030	4.2	4	5.3
T18	65.7	6270	1500	125	55	4535	4535	4.8	4	6

SIZES F40 – 60



SIZES F70 – 250



Size	A	C	D	E		F	L		G	J	M	Kg	
				F	H		F	H				F	H
T4	104	82	-	22	22	-	33.5	33.5	N/A	29	11	0.8	0.8
T5	133	100	79	25	25	-	38	38	N/A	38	12.5	1.2	1.2
T6	165	125	103	25	25	-	42	42	N/A	36	16.5	2.0	2.0
T7	187	144	80	32	25	50	44	42	13	36	11.5	3.1	3.0
T8	211	167	98	45	32	54	58	45	16	42	12.5	4.9	4.6
T9	235	188	108	45	45	60	59	59	16	48	13.5	7.0	7.0
T10	254	216	120	51	45	62	65	59	16	48	13.5	9.9	9.4
T11	279	233	134	51	51	62	63.5	63.5	16	55	12.5	11.7	11.7
T12	314	264	140	65	51	67	78.5	65.5	16	67	14.5	16.5	16.9
T14	359	311	178	65	65	73	81	81	14	67	16	22.3	22.3
T16	402	345	197	77	77	78	92	92	16	80	15	32.5	32.5
T18	470	398	205	90	90	94	112	112	19	89	23	42.2	42.2

## Power Ratings (KW)

Speed rev/min	Coupling Size											
	T4	T5	T6	T7	T8	T9	T10	T11	T12	T14	T16	T18
100	0.25	0.69	1.33	2.62	3.93	5.24	7.07	9.16	13.9	24.3	39.5	65.7
200	0.5	1.38	2.66	5.24	7.85	10.5	14.1	18.3	27.9	48.7	79	131
300	0.75	2.07	3.99	7.85	11.8	15.7	21.2	27.5	41.8	73	118	197
400	1.01	2.76	5.32	10.5	15.7	20.9	28.3	36.6	55.7	97.4	158	263
500	1.26	3.46	6.65	13.1	19.6	26.2	35.3	45.8	69.6	122	197	328
600	1.51	4.15	7.98	15.7	23.6	31.4	42.4	55	83.6	146	237	394
700	1.76	4.84	9.31	18.3	27.5	36.6	49.5	64.1	97.5	170	276	460
720	1.81	4.98	9.57	18.8	28.3	37.7	50.9	66	100	175	284	473
800	2.01	5.53	10.6	20.9	31.4	41.9	56.5	73.3	111	195	316	525
900	2.26	6.22	12	23.6	35.3	47.1	63.6	82.5	125	219	355	591
960	2.41	6.63	12.8	25.1	37.7	50.3	67.9	88	134	234	379	630
1000	2.51	6.91	13.3	26.2	39.3	52.4	70.7	91.6	139	243	395	657
1200	3.02	8.29	16	31.4	47.1	62.8	84.8	110	167	292	474	788
1400	3.52	9.68	18.6	36.6	55	73.3	99	128	195	341	553	919
1440	3.62	9.95	19.1	37.7	56.5	75.4	102	132	201	351	568	945
1600	4.02	11.101	21.3	41.9	62.8	83.8	113	147	223	390	632	
1800	4.52	12.401	23.9	47.1	70.7	94.2	127	165	251	438		
2000	5.03	13.801	26.6	52.4	78.5	105.5	141	183	279			
2200	5.53	15.201	29.3	57.601	86.4	115	155	202				
2400	6.03	16.601	31.9	62.8	94.2	126	170					
2600	6.53	18.001	34.6	68.1	102	136	184					
2800	7.04	19.401	37.2	73.3	110	147						
2880	7.24	19.901	38.3	75.4	113	151						
3000	7.54	20.701	39.9	78.5	118	157						
3600	9.05	24.901	47.9	94.2								

## Physical Characteristics

Characteristics	Coupling Size											
	T4	T5	T6	T7	T8	T9	T10	T11	T12	T14	T16	T18
Maximum speed rev/min	4,500	4,500	4,000	3,600	3,100	3,000	2,600	2,300	2,050	1,800	1,600	1,500
Nominal Torque Nm TK N	24	66	127	250	375	500	675	875	1,330	2,325	3,770	6270
Maximum Torque Nm TK MAX	64	160	318	487	759	1,096	1,517	2,137	3,547	5,642	9,339	16455
Torsional Stiffness Nm/O	5	13	26	41	63	91	126	178	296	470	778	1371
Max. parallel misalignment mm	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.7	4.2	4.8
Maximum end float mm ±	1.3	1.7	2	2.3	2.6	3	3.3	3.7	4	4.6	5.3	6
Approximate mass. kg	0.1	0.3	0.5	0.7	1	1.1	1.1	1.4	2.3	2.6	3.4	7.7
Alternating Torque ± Nm @ 10Hz TKW	11	26	53	81	127	183	252	356	591	940	1,556	2742
Resonance Factor V R	7	7	7	7	7	7	7	7	7	7	7	7
Damping Coefficient	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

"Why compete against your supplier when you can be our partner"

The HRC Coupling is a proven performer, consisting of two cast iron flanges and a rubber element, which performs under compression.

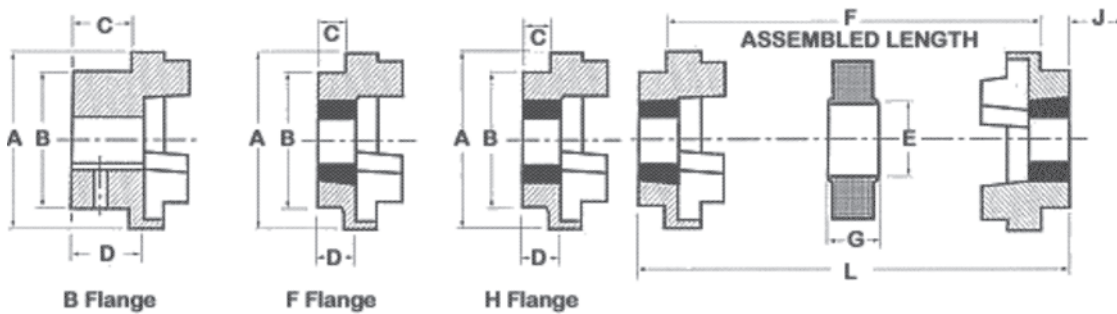
The modular design allows for a simple fitting and easy maintenance whilst the rubber element absorbs shock loading and compensates for marginal misalignment.

Finer Power Transmissions carries a full range of HRC Couplings in Pilot Bore and Taper Lock.

Finer also stocks all elements in polyurethane.



Coupling	A	B	E	F	G	Bush	Max. Bore		C	D	J
							mm	inch			
70	69	60	31	25	18	1008	25	1	20	23.75	29
90	85	70	32	30.5	22.5	1108	28	1 1/8	19.5	23.25	29
110	112	100	45	45	29	1610	32	1 1/4	18.5	26.75	38
130	130	105	50	53	36	1610	42	1 5/8	18	26.5	38
150	150	115	62	60	40	2012	50	2	23.5	33.5	42
180	180	125	77	73	49	2517	60	2 1/2	34.5	46.5	48
230	225	155	99	85.5	59.5	3020	75	3	39.5	52.5	55
280	275	185	119	105.5	74.5	3525	90	3 1/2	74	90	67



Coupling	Assembled Length (L) FF, FH, HH	Weight Kg	Inertia Mr <sup>2</sup> kgm	Dynamic Stiffness Nm/°	Maximum Misalignment		Nominal Torque Nm
					Parallel	Axial	
70	65	1	0.00085	-	0.3	0.2	31
90	69.5	1.17	0.00115	-	0.3	0.5	80
110	82	5	0.004	65	0.3	0.6	160
130	89	5.46	0.0078	130	0.4	0.8	315
150	107	7.11	0.0181	175	0.4	0.9	600
180	142	16.6	0.0434	229	0.4	1.1	950
230	164.5	26	0.12068	587	0.5	1.3	2000
280	207.5	55.3	0.44653	1025	0.5	1.7	3150

## Service Factors

SPECIAL CASES For applications where substantial shock, vibration and torque fluctuation occur, and for reciprocating machines e.g. internal combustion engines, piston type pumps and compressors, refer to your local Authorised Distributor with full machine details for torsional analysis.	Type of Driving Unit			Type of Driving Unit		
	Electric Motors Steam Turbines			Internal Combustion Engines Steam Engines Water Turbines		
Driven Machine Class	Hours per day duty			Hours per day duty		
	8 and under	Over 8 to 16 inclusive	Over 16	8 and under	Over 8 to 16 inclusive	Over 16
<b>UNIFORM</b> Agitators, Brewing machinery, Centrifugal blowers, Centrifugal compressors†, Conveyors, Centrifugal fans and pumps, Generators, Sewage disposal equipment.	1	1.12	1.25	1.25	1.4	1.6
<b>MODERATE SHOCK*</b> Clay working machinery, Crane hoists, Laundry machinery, Wood working machinery, Machine tools, Rotary mills, Paper mill machinery, Textile machinery, Non-uniformly loaded centrifugal pumps.	1.6	1.8	2	2	2.24	2.5
<b>HEAVY SHOCK*</b> Reciprocating conveyors, Crushers, Shakers, Metal mills, Rubber machinery (Banbury mixers and mills), Reciprocating compressors, Welding sets.	2.5	2.8	3.12	3.12	3.55	4

## Power Ratings (KW)

Speed rev/min.	Coupling Sizes							
	70	90	110	130	150	180	230	280
100	0.33	0.84	1.68	3.3	6.28	9.95	20.9	33
200	0.66	1.68	3.35	6.6	12.6	19.9	41.9	65
400	1.32	3.35	6.7	13.2	25.1	39.8	83.8	132
600	1.98	5.03	10.1	19.8	37.7	59.7	126	198
720	2.37	6.03	12.1	23.8	45.2	71.6	151	238
800	2.64	6.7	13.4	26.4	50.3	79.6	168	264
960	3.17	8.04	16.1	31.7	60.3	95.5	201	317
1200	3.96	10.1	20.1	39.6	75.4	119	251	396
1440	4.75	12.1	24.1	47.5	90.5	143	302	475
1600	5.28	13.4	26.8	52.8	101	159	335	528
1800	5.94	15.1	30.2	59.4	113	179	377	594
2000	6.6	16.8	33.5	66	126	199	419	660
2200	7.26	18.4	36.9	72.6	138	219	461	726
2400	7.92	20.1	40.2	79.2	151	239	503	
2600	8.58	21.8	43.6	85.8	163	259	545	
2880	9.5	24.1	48.3	95	181	286		
3000	9.9	25.1	50.3	99	188	298		
3600	11.9	30.1	60.3	118	226			

For speeds below 100 rev/min, and intermediate speeds, use nominal torque ratings.

\* Maximum coupling speeds are calculated using an allowable peripheral speed for the hub material.

For selection of smaller sizes with speeds in excess of 3600 rev/min – Consult your local Authorised Distributor.

"Why compete against your supplier when you can be our partner"

The Finer Jaw Coupling is recognised across a large range of industries. The Jaw Coupling is highly resilient, it does not require any lubrication and can work in environments contaminated with oil, dirt, sand, moisture and grease.

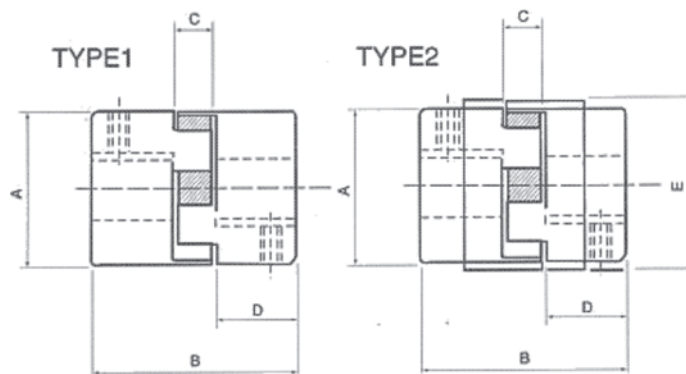
The rubber insert is designed to absorb shock loading and does not allow for any metal on metal contact. Finer Power Transmissions stocks both the Spider Elements (rubber & polyurethane) as well as the Wrap Element Kits.

Finer Power Transmissions stocks a range of jaw couplings in a variety of pre-bored and keyed sizes.



	FW050	FW070	FW075	FSW095	FSW100	FSW110	FSW150	FSW190	FSW225
Element	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wrap				✓	✓	✓	✓	✓	✓
Kit				✓	✓	✓	✓	✓	
Pilot Bore	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Imperial (inch)</b>									
3/8	✓	✓							
1/2	✓	✓	✓	✓					
5/8	✓	✓	✓	✓	✓				
3/4		✓	✓	✓	✓				
7/8			✓	✓	✓	✓			
1				✓	✓	✓	✓		
1-1/8				✓	✓	✓	✓		
1-1/4					✓	✓	✓	✓	
1-3/8						✓	✓	✓	
1-1/2						✓	✓	✓	
1-5/8								✓	
2								✓	
<b>Metric (mm)</b>									
9	✓								
10	✓	✓							
11	✓	✓							
12	✓	✓	✓						
14	✓	✓	✓	✓					
16		✓	✓	✓					
18		✓	✓	✓	✓				
19		✓	✓	✓	✓				
20			✓	✓	✓	✓			
22			✓	✓	✓	✓			
24				✓	✓	✓	✓		
25				✓	✓	✓	✓		
28				✓	✓	✓	✓	✓	
30					✓	✓	✓	✓	
32					✓	✓	✓	✓	
35					✓	✓	✓	✓	
38					✓	✓	✓	✓	
40						✓	✓	✓	
42						✓	✓	✓	
45							✓	✓	
48							✓	✓	
50								✓	
55								✓	
60								✓	

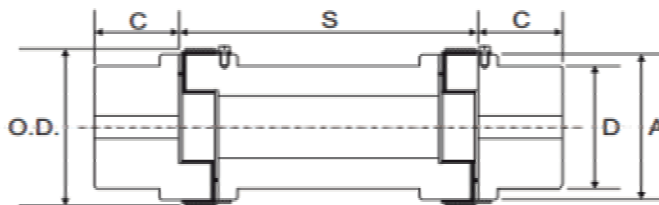




Coupling	Type	A	B	C	D	Stock Bore	Weight (Kg)		Max Bore.
							Min. Bore	Max. Bore	
FW050PB	1	27.4	43.4	12.2	15.7	6			15
FW070PB	1	35	53	13	19	6	0.26	0.24	19
FW075PB	1	44.5	53	13	21	6	0.45	0.39	22
FSW095PB	1	54	65	13	25	11	0.79	0.69	29
FSW100PB	1	65	86	19	35	11	1.55	1.32	35
FSW110PB	1	84	110	24	43	16	2.93	2.55	42
FSW150PB	1	96	113	25	45	16	4.06	3.51	48
FSW190PB	1	115	133	25	50	18			55
FSW225PB	1	127	155	25	55	18			65

## Power Ratings (KW)

Coupling	Max. RPM	Torque (Nm).	Speed RPM					
			100	720	960	1440	2880	3600
FW050PB	18000	3.51	0.037	0.26	0.35	0.53	1.73	2.17
FW070PB	14000	5.77	0.06	0.43	0.58	0.87	3.61	4.51
FW075PB	11000	11.9	0.12	0.9	1.2	1.8	5.78	7.22
FSW095PB	9000	25.8	0.27	1.95	2.59	3.89	16.73	20.91
FSW100PB	7000	55.4	0.58	4.18	5.58	8.36	31.77	39.71
FSW110PB	5000	105	1.10	7.94	10.59	15.88	44.93	56.16
FSW150PB	4000	150	1.56	11.23	14.98	22.46	60.28	75.35
FSW190PB	3600	200	2.09	15.07	20.09	30.14	84.4	105.5
FSW225PB	3600	280	2.93	21.09	28.13	42.2	84.4	105.5



Part No.	Bore		A	C	D	OD	Spacer Length (mm)
	Min	Max					
FSW100-100MM/140MM	10	35	65	35	57	78	100/140
FSW110-100MM/140MM	15	42	85	43	76	96	100/140
FSW150-100MM/140MM/180MM	15	48	96	45	80	111	100/140/180
FSW190-100MM/140MM/180MM	20	60	115	54	102	130	100/140/180
FSW225-140MM/180MM	20	65	127	64	111	142	140/180

## Characteristics of MAX DYNAMIC<sup>®</sup> Coupling

1. Facility protection for twirl and twist, impact and abrasion
2. Very simple replacement and maintenance without and grease
3. Very simple replacement without the separation of motor or connector on the related line due to it's simple structure
4. Possible for the dissimilar connection and assembling with same hub
5. Polyurethane based for having good water resistance, chemical resistance
6. Highest flexible elasticity on run
7. Less noise

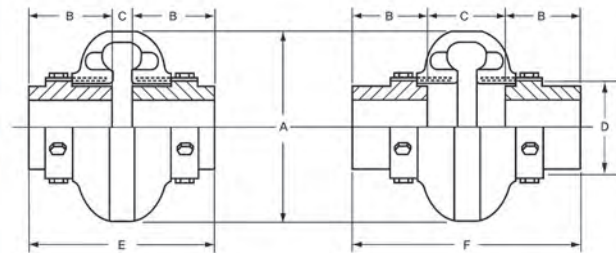


oil

## Application

- Agitator
- Blower
- Compressor
- Conveyors
- Cranes and Hoists
- Elevators
- Fans
- Generators
- Pump
- Brewery and Distilling
- Food Industry
- Lumber Industry
- Pulp and Paper Mill
- Rubber Industry
- Steel Industry
- Textile Mills
- Aggregate Processing  
Cement

## MAX DYNAMIC<sup>®</sup> Standard Coupling



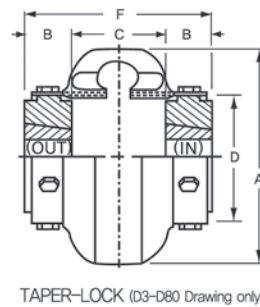
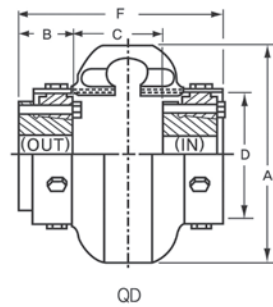
Max Dynamic Coupling No.	Torque (kgf.m)	Max. Bore (mm)	Max. rpm	Power Rating (kw/rpm)	Dimensions (mm)							
					A	B	C		D	E		F
					Out Dia	Hub Length	Min. Shaft Spacing	Max. Shaft Spacing	Hub Dia	Total Length		
									In	Out		
D-2	2.20	28	7,500	0.0023	89	24	35	47	47	83	95	
D-3	4.20	34	7,500	0.0043	102	32	9	47	59	83	111	
D-4	6.40	42	7,500	0.0066	116	37	9	47	66	83	121	
D-5	11.00	48	7,500	0.0110	137	45	10	52	80	100	142	
D-10	16.70	55	7,500	0.0170	162	45	11	53	93	101	143	
D-20	26.70	60	6,600	0.0270	184	50	15	63	114	115	163	
D-30	42.10	75	5,800	0.0430	210	56	12	68	138	124	180	
D-40	63.40	85	5,000	0.0660	241	61	12	74	168	134	196	
D-50	88.20	90	4,200	0.0900	279	69	12	86	207	150	224	
D-60	144.00	105	3,800	0.1480	318	80	11	99	222	171	259	
D-70	254.00	120	3,600	0.2620	356	85	18	109	235	189	281	
D-80	455.00	155	2,000	0.4670	406	114	17	149	286	245	377	
D-100	980.00	171	1,900	1.0000	533	140	44	95	359	324	375	
D-120	1,961.00	190	1,800	2.0000	635	152	57	124	448	362	429	

# MAX DYNAMIC<sup>®</sup> Standard Coupling with Compression Bushed Hubs



"Australia's Only Genuine Wholesaler"

Finer Power Transmissions P/L | www.finerpt.com



## Specification Data with QD Hubs

Max Dynamic Coupling No.	QD Bush No.	Torque (kgf.m)	Max. Bore (mm)	Max. rpm	Power Rating (kw/rpm)	Dimensions (mm)						Weight (kg)	
						A	B	C		D	E		F
						Out Dia	Hub Length	In	Out	Hub Dia	Total Length		
D-4	JA	6.4	30	7,500	0.0066	116	25	31	48	66	82	99	0.95
D-5	SH	11.0	35	7,500	0.0110	137	32	44	48	80	108	114	1.63
D-10	SDS	16.7	42	7,500	0.0170	162	33	30	59	93	97	125	2.18
D-20	SK	26.7	55	6,600	0.0270	184	48	16	67	114	108	162	3.86
D-30	SF	42.1	60	5,800	0.0430	210	51	37	56	138	138	157	6.35
D-40	E	63.4	75	5,000	0.0660	241	67	32	44	168	165	178	10.80
D-50	E	88.2	75	4,200	0.0900	279	67	35	73	207	168	207	17.06
D-60	F	144.0	90	3,800	0.1480	318	92	38	48	222	222	232	20.64
D-70	J	254.0	100	3,600	0.2620	356	114	33	36	235	262	265	30.89
D-80	M	455.0	140	2,000	0.4670	406	171	19	32	286	362	375	63.50
D-100	M	980.0	140	1,900	1.0000	533	173	44	29	359	390	375	113.40
D-120	N	1,961.0	150	1,800	2.0000	635	206	44	29	448	456	441	215.46

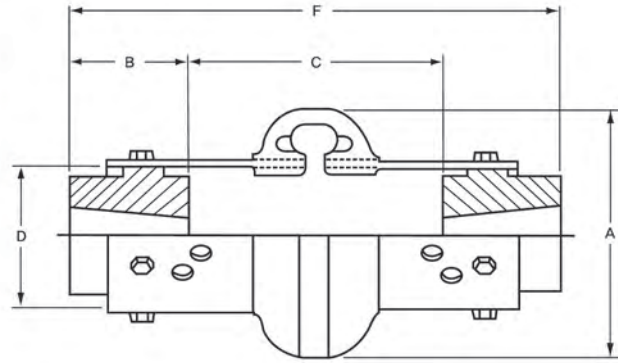
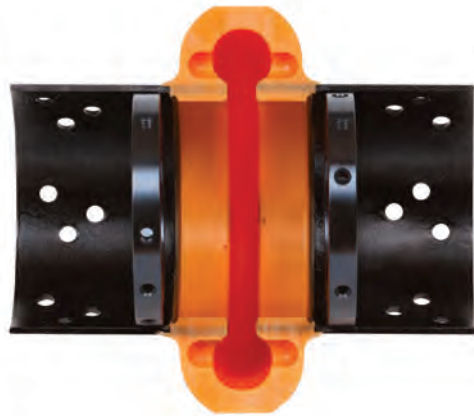
\* Note: Dimensions may vary depending on bushing manufacturer. Dimensions subject to change.

## Specification Data with Taper-Lock Hubs

Max Dynamic Coupling No.	Taper Lock Bush No.	Torque (kgf.m)	Max. Bore (mm)	Max. rpm	Power Rating (kw/rpm)	Dimensions (mm)						Weight (kg)			
						A	B	C		D	E		F		
						Out Dia	Hub Length	In		Hub Dia	Total Length				
D-3	1008	4.2	25	7,500	0.0043	102	22	43.0		59	87		0.82		
D-4	1008	6.4	25	7,500	0.0066	116	22	43.0		66	87		1.18		
D-5	1108	11.0	28	7,500	0.0110	137	22	56.0		80	100		1.81		
D-10	1610	16.7	35	7,500	0.0170	162	25	52.0		93	103		2.72		
D-20	1610	26.7	42	6,600	0.0270	184	25	63.5		114	114		4.08		
D-30	2012	42.1	50	5,800	0.0430	210	32	65.0		138	129		6.17		
D-40	2517	63.4	65	5,000	0.0660	241	44	60.0		168	149		9.89		
D-50	2517	88.2	65	4,200	0.0900	279	44	76.0		207	165		14.29		
D-60	3020	144.0	75	3,800	0.1480	318	51	84.0		222	186		21.14		
D-70	3535	254.0	100	3,600	0.2620	356	89	60.0		235	238		30.25		
D-80	4040	455.0	100	2,000	0.4670	406	102	95.0		286	298		37.19		
								In	Out			In	Out		
D-100	4545	980.0	110	1,900	1.0000	533	114	38	152	359	267	381	113.40		
D-120	5050	1,961.0	125	1,800	2.0000	635	127	51	181	448	305	435	185.07		

Couplings

"Why compete against your supplier when you can be our partner"



Max Dynamic Coupling No.	Torque (kgf.m)	Max. Bore (mm)	Max. rpm	Power Rating (kw/rpm)	Dimensions (mm)							
					A	B	C		D	E		F
					Out Dia	Hub Length	Min. Shaft Spacing	Max. Shaft Spacing	Hub Dia	Total Length		
									In	Out		
DS-2	2.20	28	7,500	0.0023	89	24	91	100	47	146	149	
DS-3	4.20	34	7,500	0.0043	102	37	85	140	59	184	216	
DS-4	6.40	42	7,500	0.0066	116	37	85	140	66	184	216	
DS-5	11.00	48	7,500	0.0110	137	45	89	140	80	184	228	
DS-10	16.70	55	7,500	0.0170	162	45	89	140	93	184	228	
DS-20	26.70	60	4,800	0.0270	184	50	67	180	114	238	280	
DS-30	42.10	75	4,200	0.0430	210	56	54	180	138	238	293	
DS-40	63.40	85	3,600	0.0660	241	61	41	180	168	238	307	
DS-50	88.20	90	3,100	0.0900	279	69	28	180	207	238	319	
DS-60	144.00	105	2,800	0.1480	318	80	66	250	222	318	415	
DS-70	254.00	120	2,600	0.2620	356	85	59	250	235	318	421	
DS-80	455.00	155	1,800	0.4670	406	114	37	250	286	318	478	

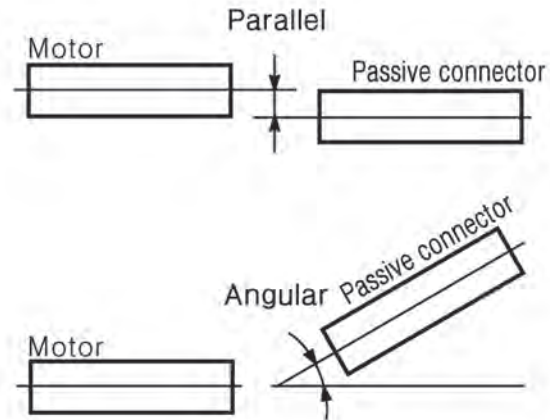
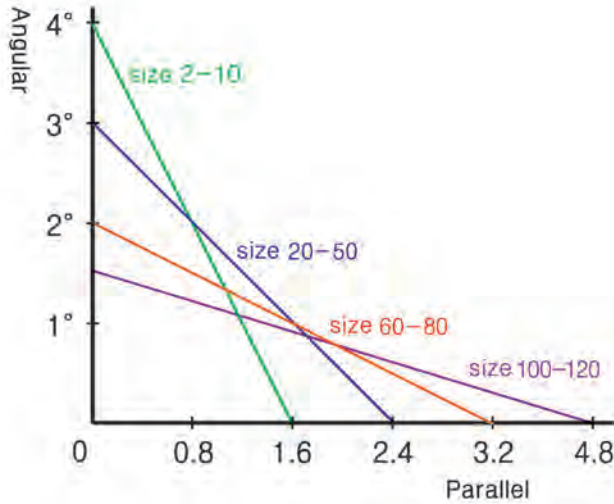
### Recommended Capscrew

Size	Torque (kgf.m)
D-2	2.3
D-3	
D-4	
D-5	
D-10	
D-20	4.1
D-30	
D-40	
D-50	
D-60	10.2
D-70	
D-80	
D-100	37.7
D-120	

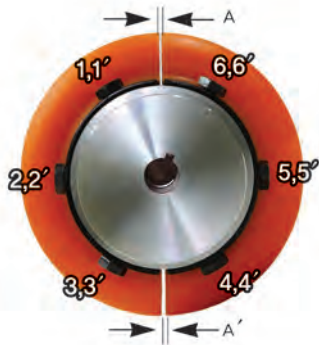
#### NOTE

1. A bolt having the highest tension shall be used
2. Locktite as adhesive shall be used
3. Never use a bolt more than twice

## The tolerance of installation



## The method of assembly



1. Adjust the face of A and A' at same space
2. Adjust Hub's Minimum space
3. Assemble the bolts in the order of 2-2', 5-5', 3-3', 4-4', 6-6', 1-1'
4. Assemble the bolts in the middle part of the edge



1. Adjust the face of A and A' at same space
2. Adjust Hub's Minimum space
3. Assemble the bolts in the order of 2-2', 7-7', 3-3', 6-6', 1-1', 4-4', 8-8', 5-5'
4. Assemble the bolts in the middle part of the edge

## Service (safety) factors for each running parts

General Application	Service Factor	Industry Application	Service Factor
Agitator	1.5	Aggregate Processing Cement	2.0~3.0
Blower	1.0~1.5	Brewery and Distilling	1.0~2.0
Compressor	1.0~2.0	Food Industry	1.0~2.0
Conveyor	1.25~1.5	Lumber Industry	1.5~2.5
Cranes and Hoist	2.0~2.5	Power Industry	1.0~2.5
Elevators	1.0~2.0	Pulp and Paper Mills	1.0~3.5
Fans	1.0~2.0	Rubber Industry	1.0~3.0
Generators	1.0~2.5	Steel Industry	2.0~4.5
Pumps	1.0~1.5	Textile	1.0~2.0

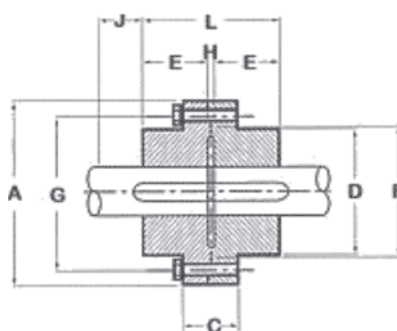
## Service/Safety Factor

Running Status		Service Factor
1	For being continuous running and light load weight	1.0
2	For being the various change of the rotary power	1.5
3	For being various and frequent variation on the turning force	2.0
4	For being the variation of the rotary power accompanying impact	2.5
5	For being high impact load-weight accompanying slight retro-rotation	3.0
6	For being frequent retro-rotation accompanying high impact	consult



Rigid Couplings are used in situations where shaft alignment is essential. A misaligned coupling can cause damage and downtime. When properly fitted this torsionally rigid coupling helps prevent any such event. Finer Rigid Couplings are Taper Lock ready and available in a range of sizes to accommodate almost any shaft size.

Rigid Couplings consist of 2 flanges, available in internal and external entry (H & F). This gives two possible coupling assemblies HF and FF. When connecting horizontal shafts, choose the most convenient method. When connecting vertical shafts use assembly FF only.



Coupling	Bush	Max. Bore		A	C	D	E	F nom	G nom	H+	J*	L	Kg
		Metric	Inch										
RM12	1210	32	1 1/4	118	35	83	26	76	102	7	38	57	3.5
RM16	1615	42	1 5/8	127	43	80	38	89	105	7	38	83	4.5
RM25	2517	65	2 1/2	178	51	123	45	127	149	7	48	97	11
RM30	3020/3030	75	3	216	65	146	76	152	181	7	54	169	23
RM35	3535	90	3 1/2	248	75	178	89	178	213	7	67	185	38
RM40	4040	100	4	298	76	210	102	216	257	7	79	210	64
RM45	4545	110	4 1/2	330	86	230	114	241	286	7	89	235	88
RM50	5050	125	5	362	92	266	127	267	314	7	92	260	155

\* is the wrench clearance to allow for tightening and loosening the bush on the shaft.

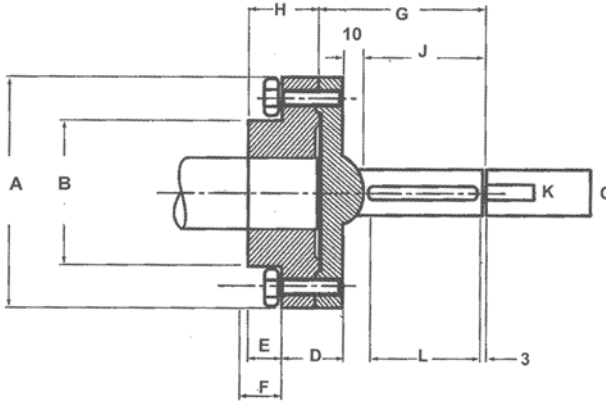
+ is the distance between shaft ends.

Coupling weights calculated including average sized TL Bush.

"Why compete against your supplier when you can be our partner"

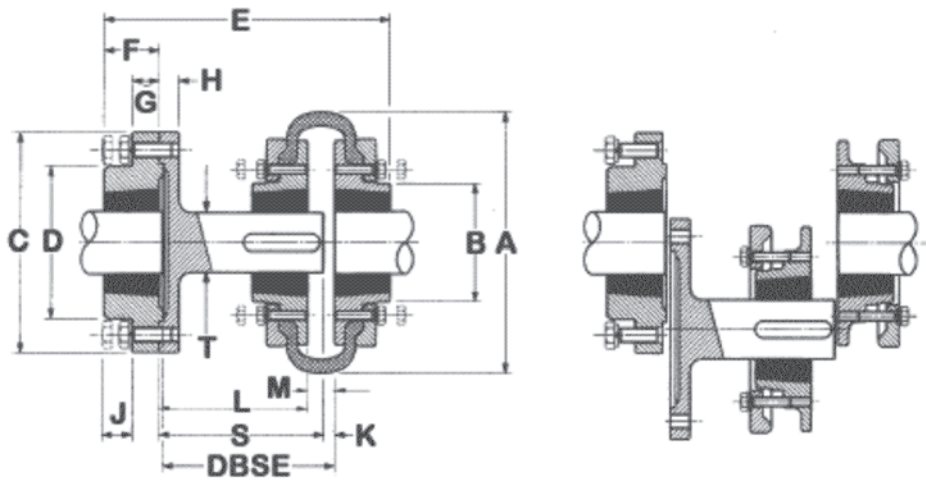
The Spacer Coupling is used to extend the distance of a shaft. Designed in conjunction with the Tyre Coupling specifications, it can be used in combination with other couplings in the Finer Power Transmission range.

As the Spacer Coupling is Taper Locked, a large range of shaft sizes can be easily accommodated.



## Spacer Coupling

Size	Bush	A	B	C	D	E	F	G	H	J	K	L	Kg
FSM16-140	1615	127	80	32	33	20	25	131	41	109	10	65	4.0
FSM25-140	2517	178	127	48	38	23	27	131	48	108	14	72	8.9
FSM25-180	2517	178	127	48	38	23	27	171	48	148	14	78	9.1
FSM30-180	3030	216	146	60	49	47	34	171	79	144	18	80	18.70



## Spacer Coupling with Tyre Coupling

Size	Tyre Couple	Spacer Distance	Spacer Bush	Tyre Bush	A	B	C	D	E	F	G	H	J	K	L	M	S	T
FSM16-140	T40	140	1615	1008	104	82	127	80	200	38	18	15	14	9	126	22	94	32
	T50			1210	133	79			213						125	25	134	
	T60			1610	165	70			214						118	27	134	
FSM25-140	T80	140	2517	2517	211	95	178	123	233	45	22	16	14	9	116	25	134	48
	T90			2517	235	108			233						116	27	134	
FSM25-180	T80	180	2517	2517	211	95	178	123	273	45	22	16	14	9	158	25	174	48
	T90			2517	235	108			273						156	27	174	
FSM30-180	T100	180	3030	3020	254	120	216	146	310	76	29	20	17	9	156	25	174	60
	T110			3020	279	134			310						158	27	174	



# Couplings Comparison Chart



"Australia's Only Genuine Wholesaler"

Selection Criterion	Rigid	Chain	Gear	Taper Grid	Curved Tooth Gear	HRC	Jaw	Curved Jaw (Rotex)	Cone Ring	Tyre	Max Dynamic (Omega Equivalent)
Torque Range (Nm)	Up to 11300	217-8786	1138-135242	47-25980	18-160	31-3150	3.5-280	10-3600	50-15140	24-3770	21-19230
Speed Capability	Fair	Good	Excellent	Excellent	Fair	Good	Good	Excellent	Fair	Good	Excellent
Shaft Size Range - mm	11mm-125mm	14mm-110mm	13mm-255mm	12mm-184mm	8mm-41mm	25mm-90mm	14mm-60mm	6mm-100mm	12mm-150mm	10mm-75mm	35mm-124mm
Bore Types	Taperlock	Pilotbore	Pilotbore	Pilotbore	Pilotbore	Taperlock & Pilotbore	Pilotbore + Bore & Keyed Range	Taperlock & Pilotbore	Taperlock & Pilotbore	Taperlock	Pilotbore & Taperlock
Misalignment Capability (Maximum Angular - Deg.)	0	1	1.5	0.25	3-5	0.2-1.7	1	0.8-1.2	0.2-1.7	4	4
Temperature Range Standard Element		-10C to +60C	-40C to +100C	-18C to +70C	-25C to +66C	-40C to +100C	-40C to +100C	-4C to +120C	Up to +70C	-50C to +50C	Up to +120C
Ease of Installation	Easy	Easy	Fair	Fair	Easy	Easy	Easy	Easy	Easy	Fair	Fair
Damping Capacity	Poor	Fair	Poor	Fair	Poor	Good	Good	Good	Good	Excellent	Excellent

For technical details on all couplings listed above, please see "Couplings" section page 177.

## BARE ESSENTIALS CHECKLIST FOR DRIVE SELECTION:

COUPLING SELECTION
Power (kw or Hp)
Speed (RPM)
Shaft Sizes
Once you have this information you can contact the team at Finer Power Transmission to help you select the appropriate drive.

## CONVERSION CONSTANTS

Length
Millimetres x 0.039370 = inches
Metres x 39.370 = inches
Metres x 3.2808 = Feet
Kilometres x 0.6213 = Miles
Inches x 25.4001 = Millimetres
Inches x 0.0254 = Metres
Feet x 0.30480 = Metres
Miles x 1.61 = Killometres
Power
Kilowatt (kw) x 1.340 = horse power (hp)
Horse Power (hp) x 0.746 = kilowatt (kw)
Torque
Newton metre (Nm) x 0.735 = Pounds feeet (lbf ft)
Newton metre (Nm) x 8.85 = Pounds inches (lbf in)
Kilogram force metre (kgf m) x 9.81 = Newton metre (Nm)
Weight
Kilogram (kg) x 2.20462 = Pound (lb)
Metric Ton (1000kg) x 0.98421 = Ton (2240lb)