HRC Couplings

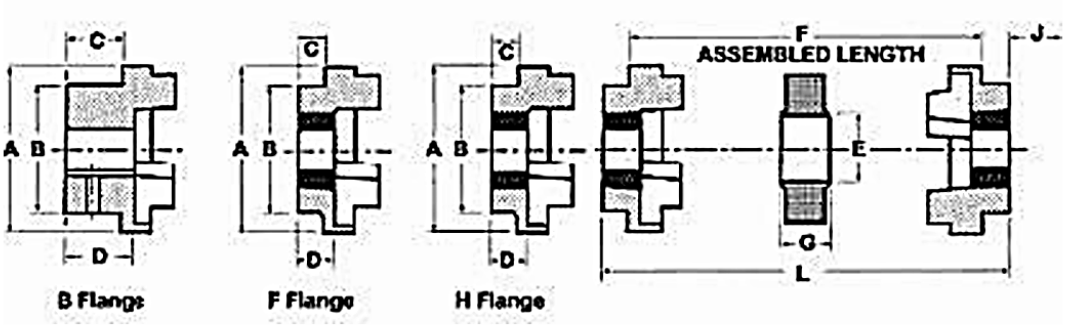
FINERPOWER TRANSMISSIONS

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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. Finer stocks Nitrile Rubber and Poly-Urethane Elements to suit all stocked sizes. Finer Power Transmissions carries a full range of HRC Couplings in Pilot Bore and Taper Lock.



Coupling	A	B	E	F	G	Bush	Max. Bore		C	D	J	Bore Dia		Set Screw Size	H	I
							mm	inch				max	Piolet Hole			
70	69	60	31	25	18	1008	25	1	20	23.75	29	32	8	M6	20	23.4
90	85	70	32	30.5	22.5	1108	28	1 1/8	19.5	23.25	29	42	10	M6	26	30
110	112	100	45	45	29	1610	32	1 1/4	18.5	26.75	38	55	10	M10	37	45
130	130	105	50	53	36	1610	42	1 5/8	18	26.5	38	60	15	M10	39	47.5
150	150	115	62	60	40	2012	50	2	23.5	33.5	42	70	20	M10	46	56
180	180	125	77	73	49	2517	60	2 1/2	34.5	46.5	48	80	25	M10	58	70
230	225	155	99	85.5	59.5	3020	75	3	39.5	52.5	55	100	25	M12	77	90
280	275	185	119	105.5	74.5	3525	90	3 1/2	74	90	67	115	30	M16	90	105.5



Coupling	Assembled Length (L) FF,FH,HH	Assembled Length (L) BB	Weight Kg	Inertia Mr2 kgm	Dynamic Stiffness Nm/°	Maximum Misalignment		Nominal Torque Nm
						Parallel	Axial	
70	65	65	1	0.00085	-	0.3	0.2	31
90	69.5	82.5	1.17	0.00115	-	0.3	0.5	80
110	82	119	5	0.004	65	0.3	0.6	160
130	89	131	5.46	0.0078	130	0.4	0.8	315
150	107	152	7.11	0.0181	175	0.4	0.9	600
180	142	189	16.6	0.0434	229	0.4	1.1	950
230	164.5	239.5	26	0.12068	587	0.5	1.3	2000
280	207.5	285.5	55.3	0.44653	1025	0.5	1.7	3150

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.

Service Factors

	Type of Driving Unit			Type of Driving Unit		
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.	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
UNIFORM 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
MODERATE SHOCK* 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
HEAVY SHOCK* 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.

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