



SELECT TRANSMISSION & MOTORS AUSTRALIA PTY LTD

GEAR REDUCER AND DRIVE SYSTEM SPECIALISTS

HRC COUPLINGS



The HRC is a general purpose coupling available in eight sizes in taper bush style or pilot bore.

INSTALLATION

Alignment is quickly achieved by placing a straight edge across the outside diameter of the hubs. No special tools are required, only a hex. Wrench for the locking of the taper bushes.

MISALIGNMENT

The HRC accommodates incidental axial, parallel and angular misalignment.

INTERCHANGEABLE

The HRC is Compatible with similar styles of couplings

INSERT

The insert is nitrile rubber, suitable for temperatures

TABLE 1 SERVICE FACTORS

Special cases Applications where substantial shock vibration and torque fluctuations are present e.g. compressors, piston pumps etc.	Type of Driving Unit					
	Electric Motors Steam Turbines			Internal Combustion Engines Steam Engines Water Turbines		
	hours per day duty			hours per day duty		
CLASS OF DRIVEN MACHINE	8 and under	8 to 16	Over 16	8 and under	8 to 16	Over 16
UNIFORM	1.00	1.12	1.25	1.25	1.40	1.60
MODERATE SHOCK	1.60	1.80	2.00	2.00	2.24	2.50
HEAVY SHOCK	2.50	2.20	3.12	2.12	3.55	4.00

for centrifugal Compressors multiply factor by an additional 1.15

TABLE 2 POWER RATINGS

Speed (RPM)	COUPLING SIZE							
	HRC70	HRC90	HRC110	HRC130	HRC150	HRC180	HRC230	HRC280
100	0.33	0.84	1.70	3.30	6.28	9.95	20.90	33.00
960	3.17	8.04	16.10	31.70	60.30	95.50	201.00	317.00
1440	4.75	12.10	24.10	47.50	90.50	143.00	302.00	475.00
2880	9.50	24.10	48.30	95.00	181.00	286.00		

for Speeds below 100 rpm use normal torque rating.

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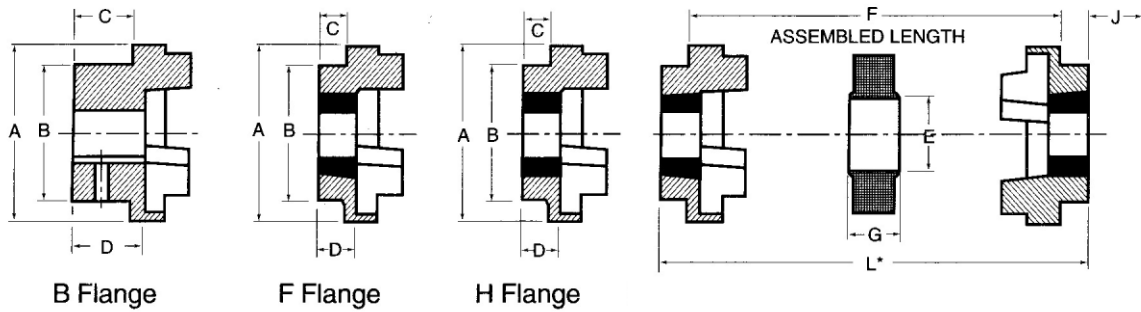


TABLE 3 DIMENSIONS

SIZE	TAPER BUSH				BORED TO SIZE													
	BUSH	BORE		C	BORE		C	D	A	B	E	F	G	L1	L2	L3	J	
		MAX	MIN		MAX	MIN												
HRC70	1008	25	9	20	23.5	32	10	20	23.8	69	60	31	25	18	65	65	65	29
HRC90	1108	28	9	19.5	23.5	42	10	19.5	23.3	85	70	32	30.5	22.5	69.5	76	82.5	29
HRC110	1610	42	14	18.5	26.5	55	10	18.5	26.8	112	100	45	45	29	82	101	119	38
HRC130	1610	42	14	18	26.5	60	20	18	26.5	130	105	50	53	36	89	110	131	38
HRC150	2012	50	14	23.5	33.5	70	28	23.5	33.5	150	115	62	60	40	107	130	152	42
HRC180	2517	60	16	34.5	46.5	80	28	34.5	46.5	180	125	77	73	49	142	166	189	48
HRC230	3020	75	25	39.5	52.5	100	45	39.5	52.5	225	155	99	85.5	59.5	165	202	240	55
HRC280	3535	90	35	51	90	115	55	74	90	275	206	119	106	74.5	208	247	286	67

L1 = Length with FF - HH - FH hubs L2 = Length with FB L3 = Length with BB Hubs

TABLE 4 PHYSICAL PROPERTIES

SIZE	POWER RATING @ 100 RPM	MAX SPEED (RPM)	TORQUE RATING (Nm)		Moment of Inertia Mr (Kgm)	Torsional Stiffness (Nm)	Maximum Misalignment		Mass (Kgs)
			NORMAL	MAXIMUM			Parallel	Axial	
HRC70	0.33	9100	31.5	72	0.00085	10.2	0.3	+0.20	1.00
HRC90	0.84	7400	80	180	0.00115	25.5	0.3	+0.49	1.17
HRC110	1.68	5630	160	360	0.00400	48	0.3	+0.61	5.00
HRC130	3.30	4850	315	720	0.00780	84	0.4	+0.79	5.46
HRC150	6.28	4200	600	1500	0.01810	176	0.4	+0.92	7.11
HRC180	9.95	3500	950	2350	0.04334	240	0.4	+1.09	16.60
HRC230	20.90	2800	2000	5000	0.12068	336	0.5	+1.32	26.60
HRC280	33.00	2300	3150	7200	0.44653	960	0.5	+1.70	55.30

The Maximum angular Misalignment is 1 Degree

The Maximum coupling Speed is calculated on the allowable peripheral speed for Hub material.

For speeds over 3600 rpm please consult.

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Wormboxes, Electric motors, Shaft couplings, Sprockets, V-Belts, Pulleys, Gearmotors, Shaft Mounts, Conveyor Rollers