

"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.

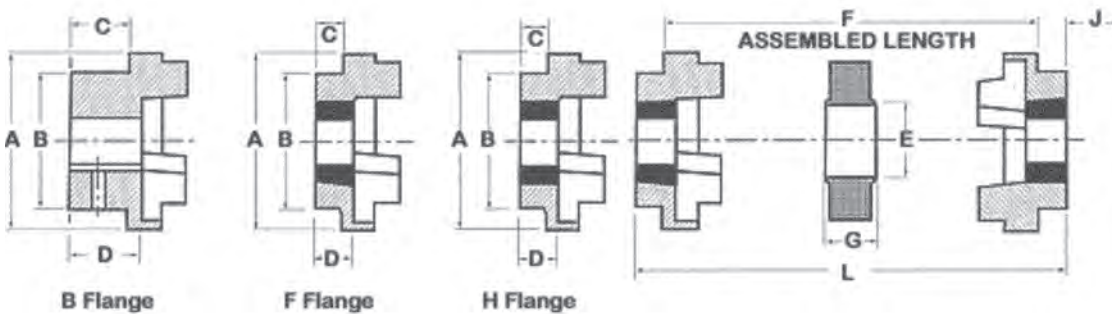
The modular design allows for a simple fitting and easy maintenance whilst the rubber element absorbs shock loading and compensates for marginal misalignment.

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 Mr2 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 |
| UNIFORM Agitators, Brewing machinery, Centrifugal blowers, Centrifugal compressorst, 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.