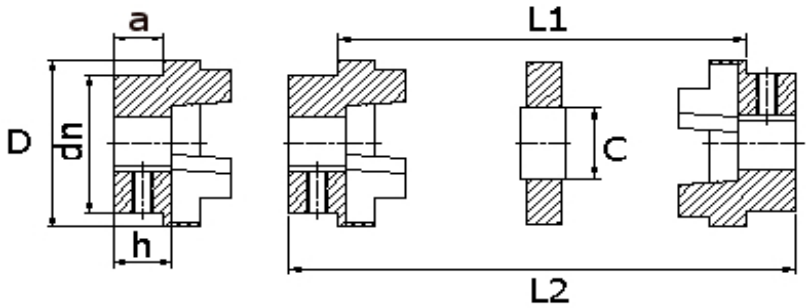
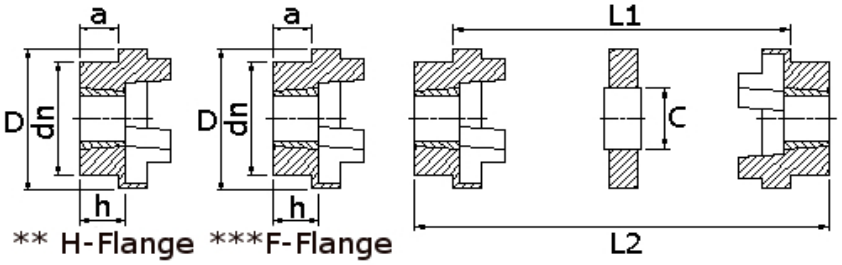



## Parallel Bore
## Flexible Shaft Couplings
## HRC Type

| Size of Coupling | Min Bore | Max Bore | D | dn | a | h | C | L1 | L2* |
|---|---|---|---|---|---|---|---|---|---|
| HRC70B | 10 | 32 | 69 | 55 | 21 | 25 | 31 | 25 | 68 |
| HRC90B | 10 | 38 | 85 | 60 | 20 | 34 | 32 | 31 | 91 |
| HRC110B | 10 | 48 | 112 | 80 | 19 | 44 | 45 | 45 | 117 |
| HRC130B | 20 | 55 | 130 | 90 | 18 | 50 | 50 | 53 | 136 |
| HRC150B | 28 | 65 | 150 | 104 | 24 | 58 | 62 | 60 | 155 |
| HRC180B | 28 | 75 | 180 | 120 | 35 | 68 | 77 | 73 | 184 |
| HRC230B | 45 | 95 | 225 | 150 | 40 | 85 | 99 | 86 | 229 |
| HRC280B | 55 | 130 | 275 | 206 | 51 | 106 | 119 | 106 | 286 |

*Approximate overall length

## Taper Bore
## Flexible Shaft Couplings
## HRC Type




| Size of Coupling | Bush Ref. | Bore Min | Bore Max | D | dn | a | h | C | L1 | L2 |
|---|---|---|---|---|---|---|---|---|---|---|
| HRC70 | 1008 | 9 | 25 | 69 | 55 | 21 | 24 | 31 | 25 | 65 |
| HRC90 | 1108 | 9 | 28 | 85 | 60 | 20 | 24 | 32 | 31 | 70 |
| HRC110 | 1610 | 12 | 42 | 112 | 80 | 19 | 27 | 45 | 45 | 82 |
| HRC130 | 1610 | 12 | 42 | 130 | 90 | 18 | 27 | 50 | 53 | 89 |
| HRC150 | 2012 | 14 | 50 | 150 | 104 | 24 | 34 | 62 | 60 | 107 |
| HRC180 | 2517 | 16 | 65 | 180 | 120 | 35 | 47 | 77 | 73 | 142 |
| HRC230 | 3020 | 25 | 75 | 225 | 150 | 40 | 53 | 99 | 86 | 165 |
| HRC280 | 3525 | 28 | 90 | 275 | 206 | 51 | 67 | 119 | 106 | 208 |

*Approximate overall length
**H = Flange for external bush assembly
***F = Flange for internal bush assembly
All dimensions in mm unless specified
If a dimension is critical to your application please contact our sales department for confirmation.
Please note : errors and omissions excepted.

# Flexible Shaft Couplings

## Technical Data

| Technical Data | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Size of Coupling | Bush Size | Torque | | Max. Speed* | Moment of Inertia** | | Weight of Coupling** | |
| Type | No. | Nominal Nm | Max. Nm | rpm | Bush Type kgm² | Std. Type kgm² | Bush Type k.g | Std. Type k.g |
| HRC70 | 1008 | 33 | 73 | 7700 | 0.00085 | 0.00078 | 1 | 1.1 |
| HRC90 | 1108 | 84 | 85 | 6300 | 0.00115 | 0.00108 | 1.7 | 1.7 |
| HRC110 | 1610 | 168 | 370 | 5000 | 0.004 | 0.00344 | 5 | 4.2 |
| HRC130 | 1610 | 331 | 728 | 4100 | 0.0078 | 0.0085 | 5.5 | 6.3 |
| HRC150 | 2012 | 630 | 1490 | 3600 | 0.0181 | 0.02112 | 7.1 | 9.5 |
| HRC180 | 2517 | 998 | 2300 | 3000 | 0.0434 | 0.0482 | 16.6 | 15 |
| HRC230 | 3020 | 2100 | 4800 | 2600 | 0.12068 | 0.14052 | 26 | 28 |
| HRC280 | 3525 | 3308 | 7000 | 2200 | 0.44653 | 0.5479 | 50 | 63 |

*At speeds exceeding allowable maximum speed, please consult our technical department.
** Including bush with a medium bore.

| Permissable Misalignment Tolerances in mm | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Size of Coupling | 7 | 9 | 11 | 13 | 15 | 18 | 23 | 28 |
| Axial Misalignment | +0.2 | +0.5 | +0.6 | +0.8 | +0.9 | +1.1 | +1.3 | +1.7 |
| Radial Misalignment | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 |
| Angular Misalignment | 0.5 | 0.5 | 1 | 1 | 1.5 | 1.5 | 2 | 2.5 |

### Coupling Selection Procedure

1. Select service factor (Table 1).
2. Nominal power multiplied by service factor equals temporary designed power K.
3. Designed power K should then be multiplied by factor L (Table 2) and S (Table 3). K x L x S gives the design power which is used for coupling selection in Table 4.
4. Check from dimensional tables that chosen coupling has room to be mounted.

| Service Factors (Table 1) | | | | |
|---|---|---|---|---|
| Type of Load | Driven | Driver | | |
| | | Electric motors, Light Turbines | Internal Combustion Engine >=4 cylinders | Internal Combustion Engine 1-3 cylinders |
| Uniform *No Vibration* | Agitators, conveyors, centrifugal pumps and compressors, centrifugal fans, generators and machine tools | 1 | 1.4 | 1.8 |
| Moderate *No Vibration* | Agitators, conveyors, hoisting equipment, bucket elevators, textile machines, mixers, printing machinery, sawmill machinery, rotary pumps | 1.4 | 2 | 2.4 |
| Substantial *Vibrations* | Hoisting equipment, calendars, crushers, dredgers, revolving furnaces, print presses, cutting presses, rotary compressors | 2 | 2.4 | 2.8 |
| Heavy *Shocks & Vibration* | Crushers, extruders, rubber mixers, reciprocating pumps and conveyors, reciprocating compressors, vibrating screens | 2.4 | 2.8 | 3.2 |

# Flexible Shaft Couplings

## Technical Data

| Operating Hours Factor (Table 2) | | | | |
|---|---|---|---|---|
| > | - | 2 | 8 | 16 |
| <= | 2 | 8 | 16 | - |
| L | 0.9 | 1 | 1.1 | 1.2 |

| Starting Frequency Factor (Table 3) | | | | |
|---|---|---|---|---|
| > | - | 1 | 30 | 60 |
| <= | 1 | 30 | 60 | - |
| S | 1 | 1.2 | 1.3 | 1.5 |

| Size of Coupling | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| rpm | KW | | | | | | | |
| | 70 | 90 | 110 | 130 | 150 | 180 | 230 | 280 |
| 100 | 0.35 | 0.88 | 1.75 | 3.44 | 6.59 | 10.43 | 22 | 34.65 |
| 200 | 0.69 | 1.75 | 3.52 | 6.88 | 13.18 | 20.86 | 44.02 | 69.3 |
| 400 | 1.39 | 3.51 | 7.04 | 13.77 | 26.37 | 41.72 | 88.04 | 138.6 |
| 600 | 2.08 | 5.25 | 10.6 | 20.65 | 39.55 | 62.58 | 132.06 | 207.9 |
| 800 | 2.78 | 7 | 14.1 | 27.53 | 52.73 | 83.44 | 176.08 | 277.2 |
| 1000 | 3.47 | 8.75 | 17.6 | 34.42 | 65.92 | 104.3 | 220.1 | 346.5 |
| 1200 | 4.16 | 10.5 | 21.1 | 41.3 | 79.1 | 125.2 | 264.12 | 415.8 |
| 1400 | 4.86 | 12.25 | 24.6 | 48.18 | 92.28 | 146.02 | 308.13 | 485.1 |
| 1600 | 5.55 | 14 | 27.1 | 55.07 | 105.47 | 166.88 | 352.15 | 554.1 |
| 1800 | 6.25 | 15.76 | 31.7 | 61.95 | 118.65 | 187.74 | 396.17 | 623.7 |
| 2000 | 6.94 | 17.51 | 35.2 | 68.83 | 131.83 | 208.6 | 440.19 | 693 |
| 2200 | 7.64 | 19.26 | 38.7 | 75.72 | 145.01 | 229.46 | 484.21 | 762.3 |
| 2400 | 8.33 | 21 | 42.2 | 82.6 | 158.2 | 250.32 | 528.23 | - |
| 2600 | 9.02 | 22.76 | 45.7 | 89.48 | 171.38 | 271.18 | 572.25 | - |
| 2800 | 9.72 | 24.51 | 49.3 | 96.37 | 184.57 | 292.04 | - | - |
| 3000 | 10.41 | 26.26 | 52.8 | 103.25 | 197.75 | 312.9 | - | - |
| 3500 | 12.15 | 30.64 | 61.6 | 120.46 | 230.71 | - | - | - |
| 4000 | 13.88 | 35.01 | 70.4 | 136.67 | - | - | - | - |
| 4500 | 15.62 | 39.39 | 79.1 | - | - | - | - | - |
| 5000 | 17.35 | 43.76 | 87.9 | - | - | - | - | - |
| 5500 | 19.09 | 48.14 | - | - | - | - | - | - |
| 6000 | 20.82 | 52.52 | - | - | - | - | - | - |
| 6500 | 25.56 | - | - | - | - | - | - | - |
| 7000 | 24.3 | - | - | - | - | - | - | - |
| 7500 | 26.03 | - | - | - | - | - | - | - |

Dynamic Balance Required

If a dimension is critical to your application please contact our sales department for confirmation.
Please note : errors and omissions excepted.