

Transeals Pty Ltd

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| Teleph Facsir Images and | none: +61 (08) 9451 6011 nile: +61 (08) 9458 5766 I data Copyright © 2002 Transeals Pty. Ltd 2 Email: sales@transeals.com Sizes and specifications subject to change. All rights reserved. | |



Introduction

Selection of flexible couplings is based on the following parameters:

1. Misalignment

Where misalignment is high, a highly elastic design such as Optiflex is preferable to medium elasticity designs. Low elasticity couplings should never be combined with high misalignment. Operational life of couplings and associated machinery is reduced as misalignment increases, hence, the most accurate alignment possible is desirable (particularly as speeds increase).

2. Machine Mounting

Flexible mountings or supporting structures with low rigidity also require a highly elastic coupling such as the Optiflex Tyre design.

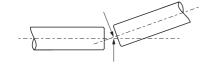
3. Shock

Where shock or vibration is high, a highly elastic design such as Optiflex is preferable to medium elasticity designs. The higher cost of Optiflex relative to medium elasticity designs will generally be repaid many times over by the extended service life of machinery.

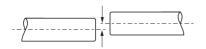
4. Size

Generally, TRC and Jaw couplings are physically smaller than highly elastic couplings of a similar power rating.

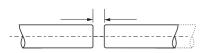
Shaft Alignment



ANGULAR MISALIGNMENT Shafts are at an angle



PARALLEL MISALIGNMENT Shafts are offset



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AXIAL MISALIGNMENT Distance Between Shaft Ends (DBSE) is incorrect

5. Cost

TRC, MC and Jaw couplings offer the best cost/performance scenario for drives requiring midrange-shock, vibration and misalignment capacity.

6. Maintenance

Flexible elements on MC, Optiflex and Jaw (wrap type) couplings can be easily replaced without disturbing the coupling, driving or driven machines. This can significantly reduce maintenance costs.

7. Positive Vs Non-Positive Drive

In the event of tyre failure on the Optiflex Tyre coupling there is no connection between the drive and driven shaft. TRC, Jaw and MC couplings will continue to drive for a period of time after element failure. Optiflex can be used as a shear-pin but never in a situation where the drive should always be maintained. Conversely, TRC, Jaw and MC couplings offer better safety.

8. Environment

All couplings in this publication will withstand typically encountered environments. For highly corrosive or high temperature applications, first consult Transeals for compatible elements and designs.

9. Lubrication

Chain couplings require regular lubrication.

10. TaperFix Bush Vs Parallel Bore

For the same sized coupling, TaperFix designs are often easier to install than parallel bore designs however parallel bore designs usually accommodate larger bore sizes than the equivalent sized TaperFix coupling.

With TaperFix couplings it is often necessary to select a larger size coupling than required (due to power ratings) to accommodate the shafts where a smaller parallel bore coupling can often be selected on power ratings alone.

Additionally TaperFix designs are harder to axially align than parallel bore designs. TaperFix H flanges require end wrench clearance which is not required by parallel bore designs.

Where space and fitting issues do not preclude TaperFix bushes, their advantages far outweigh their disadvantages.

Service Duties Comparison Table

| | Uniform | Light | Moderate | Heavy | Severe |
|---------------------------|------------|-------|----------|-------|--------|
| Agitators | | | | | |
| Air Compressors | | | | | |
| Blowers (non-positive dis | placement) | | | | |
| Centrifugal Blowers | | | | | |
| Centrifugal Pumps | | | | | |
| Conveyors and Elevators | | | | | |
| Cranes | | | | | |
| Crushers | | | | | |
| Drill Rigs | | | | | |
| Fans Hammer Mills | | | | | |
| Hammer Mills | | | | | |
| Hydraulic Pumps | | | | | |
| Machine Tools | | | | | |
| Reciprocating Conveyors | | | | | |
| Rotary Compressors | | | | | |
| Rubber Mills | | | | | |
| Shakers | | | | | |
| Sheet Metal Machinery | | | | | |
| Shredders | | | | | |
| Vibrating Screens/Convey | ors | | | | |

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HiPerDrive[®] Optiflex Tyre Coupling



HiPerDrive[®] Optiflex Tyre couplings are a highly elastic design compatible with European and American equivalents. The flexible tyre accommodates significant angular and parallel misalignment and possesses excellent shock and vibration absorbing properties.

HiPerDrive[®] Optiflex Tyre couplings dampen shock, vibration and misalignment (in all planes) reducing load on bearings and machinery thus prolonging life and reducing costs. Combined with an SM series Spacer (see page 12) an Optiflex Tyre coupling becomes the ultimate vibration-dampening, Spacer coupling.

TaperFix bushes and generous misalignment allowances ensure few couplings are easier to install than Optiflex Tyre couplings.

Flanges are high-grade, steel; Tyre is synthetic rubber.



Selection Procedure

- 1. From the Service Duties Comparison Table (page 3) and Service Factors (see 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 Optiflex Tyre coupling by matching the Design Power to a power rating that matches or exceeds the Design Power.
- 4. Ensure the dimensions of the selected coupling fit your design requirements and, particularly, shaft sizes can be accommodated.

NOTE:

B Flanges accommodate larger shaft sizes than F or H Flanges. H Flanges require end wrench clearance while F and B Flanges do not.

Service Factors

| | | Ele | ectric Mot | ors | Int. Combustion Engin | | | |
|------|----------------|------|------------|------|-----------------------|---------|------|--|
| | HOURS PER DAY | < 10 | 10 ~ 16 | > 16 | < 10 | 10 ~ 16 | > 16 | |
| | UNIFORM | 0.8 | 0.9 | 1.0 | 1.3 | 1.4 | 1.5 | |
| Load | LIGHT | 1.3 | 1.4 | 1.5 | 1.8 | 1.9 | 2.0 | |
| Ľ | MODERATE | 1.8 | 1.9 | 2.0 | 2.3 | 2.4 | 2.5 | |
| | HEAVY / SEVERE | 2.3 | 2.4 | 2.5 | 2.8 | 2.9 | 3.0 | |

Power Ratings

| | F40 | F50 | F60 | F70 | F80 | F90 | F100 | F110 | F120 | F140 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power kW per 100 rpm | 0.251 | 0.691 | 1.33 | 2.62 | 3.93 | 5.24 | 7.07 | 9.16 | 13.9 | 24.3 |
| Power kW @ 720 rpm | 1.81 | 4.98 | 9.57 | 18.8 | 28.3 | 37.7 | 50.9 | 66.0 | 100 | 175 |
| Power kW @ 960 rpm | 2.41 | 6.63 | 12.8 | 25.1 | 37.7 | 50.3 | 67.9 | 88.0 | 134 | 234 |
| Power kW @ 1440 rpm Power kW @ 2880 rpm | 3.62 | 9.95 | 19.1 | 37.7 | 56.5 | 75.4 | 102 | 132 | 201 | 351 |
| Power kW @ 2880 rpm | 7.24 | 19.9 | 38.3 | 75.4 | 113 | 151 | - | - | - | - |
| Speed Maximum (rpm) | 4,500 | 4,500 | 4,000 | 3,600 | 3,100 | 3,000 | 2,600 | 2,300 | 2,050 | 1,800 |
| Torque Nominal (Nm) | 24 | 66 | 127 | 250 | 375 | 500 | 675 | 875 | 1,330 | 2,325 |
| Torque Maximum (Nm) | 64 | 160 | 318 | 487 | 759 | 1,096 | 1,517 | 2,137 | 3,547 | 5,642 |

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HiPerDrive[®] Optiflex Tyre Coupling

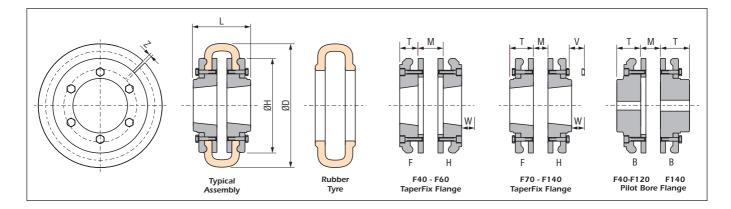


All values are in mm unless otherwise stated

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Dimensions

| | | F40 | F50 | F60 | F70 | F80 | F90 | F100 | F110 | F120 | F140 |
|-----------|--|------|------|------|-------|------|-------|-------|------|-------|------|
| | TaperFix Bush Size: F Flange | 1008 | 1210 | 1610 | 2012 | 2517 | 2517 | 3020 | 3020 | 3525 | 3525 |
| | TaperFix Bush Size: H Flange | 1008 | 1210 | 1610 | 1610 | 2012 | 2517 | 2517 | 3020 | 3020 | 3525 |
| Bore | Maximum Bore: F Flange | 25 | 32 | 42 | 50 | 65 | 65 | 75 | 75 | 100 | 100 |
| | Maximum Bore: H Flange | 25 | 32 | 42 | 42 | 50 | 65 | 65 | 75 | 75 | 100 |
| | Maximum Bore: B Flange | 30 | 38 | 45 | 50 | 63 | 75 | 80 | 90 | 100 | 130 |
| | | | | | | | | | | |] |
| | ØD - Outside Diameter | 104 | 133 | 165 | 187 | 211 | 235 | 254 | 279 | 314 | 359 |
| | ØH - Hub Diameter | 82 | 100 | 125 | 144 | 167 | 188 | 216 | 233 | 264 | 311 |
| | L - Length: FF | 66 | 76 | 84 | 88 | 116 | 119 | 131 | 127 | 159 | 163 |
| | L - Length: HH | 66 | 76 | 84 | 84 | 90 | 119 | 119 | 127 | 131 | 163 |
| | L - Length: FH | 66 | 76 | 84 | 86 | 103 | 119 | 125 | 127 | 145 | 163 |
| | L - Length: BB | 67 | 89 | 110 | 129 | 144 | 160 | 168 | 175 | 202 | 221 |
| | L - Length: FB | 66.5 | 82.5 | 97 | 108.5 | 130 | 139.5 | 149.5 | 151 | 180.5 | 192 |
| ion | L - Length: HB | 66.5 | 82.5 | 97 | 106.5 | 117 | 139.5 | 143.5 | 151 | 166.5 | 192 |
| Dimension | M - Gap: FF HH FH | 22 | 25 | 33 | 23 | 25 | 27 | 27 | 25 | 29 | 32 |
| Din | M - Gap: BB | 22 | 25 | 33 | 40 | 43 | 46 | 48 | 44 | 49 | 32 |
| | М - Gap: FB HB | 22 | 25 | 33 | 31.5 | 34 | 36.5 | 37.5 | 34.5 | 39 | 32 |
| | T - Length Through Bore: F Flange | 22 | 25 | 25 | 32 | 45 | 45 | 51 | 51 | 65 | 65 |
| | T - Length Through Bore: H Flange | 22 | 25 | 25 | 25 | 32 | 45 | 45 | 51 | 51 | 65 |
| | T - Length Through Bore: B Flange | 22 | 32 | 38 | 44 | 51 | 57 | 60 | 65 | 76 | 94 |
| | V - Clamping Screw Installation Clearance* | - | - | - | 13 | 16 | 16 | 16 | 16 | 16 | 17 |
| | W - Wrench Clearance (H Flange only)* | 29 | 38 | 38 | 42 | 48 | 48 | 55 | 55 | 67 | 67 |
| | Z - Tyre End Gap | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 5 |
| | Tyre Screw Tightening Torque (Nm) | 15 | 15 | 15 | 24 | 24 | 40 | 40 | 40 | 50 | 55 |
| | | | | | | | | | | | |
| lent | Max Parallel | 1.1 | 1.3 | 1.6 | 1.9 | 2.1 | 2.4 | 2.6 | 2.9 | 3.2 | 3.7 |
| Alignment | Max Axial | ±1.3 | ±1.7 | ±2.0 | ±2.3 | ±2.6 | ±3.0 | ±3.3 | ±3.7 | ±4.0 | ±4.6 |
| Ali | Max Angular (°) | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | | | | | | | | | | |
| | F Flange (kg) | 0.8 | 1.1 | 1.8 | 2.4 | 3.5 | 5.8 | 7.0 | 9.0 | 12.0 | 26.5 |
| Mass | H Flange (kg) | 0.8 | 1.1 | 1.8 | 2.6 | 3.8 | 5.8 | 7.0 | 9.0 | 13.0 | 26.5 |
| Σ | B Flange (kg) | 1.0 | 1.7 | 2.7 | 3.4 | 5.2 | 7.4 | 10.7 | 13.7 | 17.2 | 36.0 |
| | Tyre (kg) | 0.1 | 0.3 | 0.5 | 0.7 | 0.8 | 1.0 | 1.1 | 1.5 | 2.0 | 2.9 |

* Installation clearance can be reduced with special wrenches.

Larger sizes available on request

ORDERING INSTRUCTIONS

Optiflex Tyre couplings are specified by the size, flange and tyre combination (e.g. F80 size coupling consisting of 1 F Flange, 1 H Flange and 1 synthetic tyre is specified F60FHS).

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• TaperFix bushes are required for F and H Flanges and must be ordered as separate items (specifying bush size and required bores).

• B Flanges are supplied unbored unless a specific bore is specified when ordering.

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HiPerDrive[®] TRC Coupling



HiPerDrive[®] TRC couplings are manufactured to an economical, general purpose, curved-jaw, European design.

The flexible, six-leg rubber spider element accommodates nominal misalignment, reduces transmission of vibration and smoothes transient peak loads.

The curved profile and dimensions of the spider are optimised for smooth deflection under load and optimal dampening properties. The totally enclosed spider is resistant to mineral oils and no lubrication is required.

F and H flanges are fitted with TaperFix bushes for ease of installation. B flanges are bored to size and accommodate larger shaft sizes.

Flanges are high-grade, cast iron; Flexible spider element is synthetic rubber.



Selection Procedure

- 1. From the Service Duties Comparison Table (page 3) and Service Factors (see 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 TRC coupling required by matching the Design Power to a power rating that matches or exceeds the Design Power.
- Ensure the dimensions of the selected coupling fit your design requirements and particularly the desired shaft sizes can be accommodated.

NOTE:

B Flanges accommodate larger shaft sizes than F or H Flanges. H Flanges require end wrench clearance while F and B Flanges do not.

Service Factors

| | | Ele | ctric Mot | ors | Int. Con | nbustion | Engines |
|------|----------------|------|-----------|-------------|----------|----------|-------------|
| | HOURS PER DAY | < 10 | 10 ~ 16 | > 16 | < 10 | 10 ~ 16 | > 16 |
| | UNIFORM | 1.00 | 1.12 | 1.25 | 1.25 | 1.40 | 1.60 |
| ad | LIGHT | 1.00 | 1.12 | 1.25 | 1.25 | 1.40 | 1.60 |
| Load | MODERATE | 1.60 | 1.80 | 2.00 | 2.00 | 2.24 | 2.50 |
| | HEAVY / SEVERE | 2.50 | 2.80 | 3.12 | 3.12 | 3.55 | 4.00 |

Power Ratings

| _ | | TRC70 | TRC90 | TRC110 | TRC130 | TRC150 | TRC180 | TRC230 | TRC280 |
|---------|----------------------|-------|-------|--------|--------|--------|--------|--------|--------|
| | Power kW per 100 rpm | 0.33 | 0.84 | 1.68 | 3.30 | 6.28 | 9.95 | 20.9 | 33.0 |
| | Power kW @ 720 rpm | 2.37 | 6.03 | 12.1 | 23.8 | 45.2 | 71.6 | 151 | 238 |
| | Power kW @ 960 rpm | 3.17 | 8.04 | 16.1 | 31.7 | 60.3 | 95.5 | 201 | 317 |
| Ratings | Power kW @ 1440 rpm | 4.75 | 12.1 | 24.1 | 47.5 | 90.5 | 143 | 302 | 475 |
| Rati | Power kW @ 2880 rpm | 9.5 | 24.1 | 48.3 | 95 | 181 | 286 | - | - |
| | Speed Maximum (rpm) | 9,100 | 7,400 | 5,600 | 4,850 | 4,200 | 3,500 | 2,800 | 2,300 |
| | Torque Nominal (Nm) | 31.5 | 80 | 160 | 315 | 600 | 950 | 2,000 | 3,150 |
| | Torque Maximum (Nm) | 72 | 180 | 360 | 720 | 1,500 | 2,350 | 5,000 | 7,200 |

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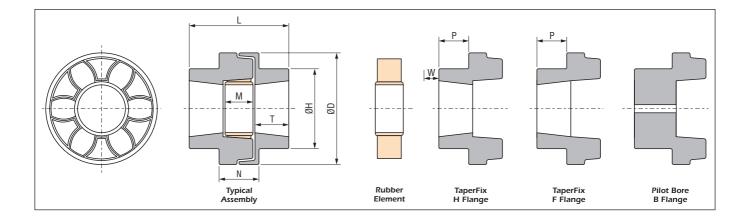
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HiPerDrive[®] TRC Coupling





Dimensions

| | | TRC70 | TRC90 | TRC110 | TRC130 | TRC150 | TRC180 | TRC230 | TRC280 |
|-----------|--|---------|-------|--------|--------|--------|------------------|-----------------|---------------|
| | TaperFix Bush Size: F & H Flanges | 1008 | 1108 | 1610 | 1610 | 2012 | 2517 | 3020 | 3525 |
| Bore | Maximum Bore: F & H Flanges | 25 | 28 | 42 | 42 | 50 | 65 | 75 | 100 |
| | Maximum Bore: B Flanges | 32 | 42 | 55 | 60 | 65 | 80 | 100 | 115 |
| | | | | | | 1 | | | |
| | ØD - Outside Diameter | 69 | 85 | 112 | 130 | 150 | 180 | 225 | 275 |
| | ØH - Hub Diameter | 60 | 70 | 100 | 105 | 115 | 125 | 155 | 206 |
| | L - Length: FF HH FH | 65 | 69.5 | 82 | 89 | 107 | 142 | 164.5 | 207.5 |
| | L - Length: BB | 65 | 82.5 | 119 | 131 | 152 | 189 | 239.5 | 285.5 |
| = | L - Length: FB HB | 65 | 76 | 100.5 | 110 | 129.5 | 165.5 | 202 | 246.5 |
| Dimension | M - Gap | 18 | 22.5 | 29 | 36 | 40 | 49 | 59.5 | 74.5 |
| imeı | N - Outer Length | 25 | 30.5 | 45 | 53 | 60 | 73 | 85.5 | 105.5 |
| Ō | P - F & H Flanges | 20 | 19.5 | 18.5 | 18 | 23.5 | 34.5 | 39.5 | 51 |
| | P - B Flange | 20 | 26 | 37 | 39 | 46 | 58 | 77 | 90 |
| | T - Length Through Bore: F & H Flange | 23.5 | 23.5 | 26.5 | 26.5 | 33.5 | 46.5 | 52.5 | 66.5 |
| | T - Length Through Bore: B Flange | 23.5 | 30 | 45 | 47.5 | 56 | 70 | 90 | 105.5 |
| | W - Wrench Clearance (H Flange only)* | 29 | 29 | 38 | 38 | 42 | 48 | 55 | 67 |
| | | | | | | | | | |
| nent | Max Parallel | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 |
| Alignment | Max Axial | +0.2 | +0.5 | +0.6 | +0.8 | +0.9 | +1.1 | +1.3 | +1.7 |
| AI | Max Angular (°) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | F & H Flange (kg) | 0.45 | 0.70 | 1.60 | 2.25 | 3.25 | 5.40 | 9.05 | 20.2 |
| Mass | B Flange (kg) | 0.60 | 1.05 | 3.10 | 3.90 | 5.60 | 8.90 | 16.3 | 33.3 |
| Σ | Rubber Element (kg) | 0.02 | 0.05 | 0.09 | 0.15 | 0.23 | 0.39 | 0.87 | 1.63 |
| * Ir | stallation clearance can be reduced with special w | renches | 1 | | | | ΔII values are i | in mm unless of | herwise state |

* Installation clearance can be reduced with special wrenches.

All values are in mm unless otherwise stated

ORDERING INSTRUCTIONS

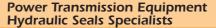
• TRC couplings are specified by the size and Flange combination (e.g. TRC180 size coupling consisting of 1 F Flange, 1 B Flange and 1 element is specified TRC180FB).

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• TaperFix bushes are required for F and H Flanges and must be ordered as separate items (specifying bush size and the required bores).

• B Flanges are supplied unbored unless a specific bore is specified when ordering.





HiPerDrive[®] Jaw Coupling



HiPerDrive[®] Jaw Couplings are a popular, economical, American, straight-jaw design. The rubber element absorbs nominal vibration, misalignment and shock loads.

> For fast installation and removal of couplings, F and H Flanges are bored for TaperFix bushes whereas B Flanges are bored to size. Flexible elements are Black 80 shore NBR rubber. Increased power ratings or extended service is obtained by upgrading to Yellow 80 shore or Red 90 shore polyurethane elements.

> > When fitted with a drop-in Spacer and Wrap Element, the Jaw coupling becomes an economical Spacer coupling with fast removal and replacement. Wrap Elements may be used to make a standard coupling not requiring movement of the driving or driven machines to change the drive element.

Flanges are high-grade, cast iron; Spacers are aluminium; Elements are synthetic rubber or polyurethane.

Selection Procedure

- 1. From the Service Duties Comparison Table (page 3) and Service Factors (see 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 required by matching the Design Power to a Power Rating that matches or exceeds the Design Power.
- 4. Ensure dimensions of the selected coupling fit design requirements and, particularly, shaft sizes can be accommodated.
- 5. For spacer configuration select from 100, 140 and 180mm DBSE.

NOTE 1.

B Flanges accommodate larger shaft sizes than F and H Flanges. H Flanges require end wrench clearance; F and B Flanges do not.

NOTE 2:

Rubber flexible elements provide low wear on driving metal surfaces. Yellow or red polyurethane elements provide increased power ratings, often allowing use of a physically smaller coupling.

Service Factors

| | | Electric Motors |
|------|----------------|-----------------|
| _ | UNIFORM | 1.0 |
| Load | MODERATE | 1.5 |
| | HEAVY / SEVERE | 2.0 |

Power Ratings

| | | L050 | L070 | L075 | L095 | L100 | L110 | L150 | L190 | L225 |
|---------|--|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| | Power kW per 100 rpm Black Rubber 80 shore A | 0.031 | 0.063 | 0.10 | 0.26 | 0.63 | 1.2 | 1.6 | 2.1 | 2.7 |
| | Power kW per 100 rpm Yellow PU 80 shore A | 0.042 | 0.084 | 0.13 | 0.31 | 0.79 | 1.5 | 2.0 | 2.6 | 3.4 |
| SD | Power kW per 100 rpm Red PU 90 shore A | 0.063 | 0.105 | 0.16 | 0.42 | 0.94 | 1.7 | 2.4 | 3.1 | 4.2 |
| Ratings | Speed Maximum (rpm) | 17,000 | 14,000 | 11,000 | 9,000 | 7,000 | 5,000 | 4,000 | 3,600 | 3,600 |
| ~ | Torque Nominal (Nm) Black Rubber 80 shore A | 3 | 6 | 10 | 25 | 60 | 110 | 150 | 200 | 260 |
| | Torque Nominal (Nm) Yellow PU 80 shore A | 4 | 8 | 12 | 30 | 75 | 140 | 190 | 250 | 325 |
| | Torque Nominal (Nm) Red PU 90 shore A | 6 | 10 | 15 | 40 | 90 | 165 | 225 | 300 | 400 |

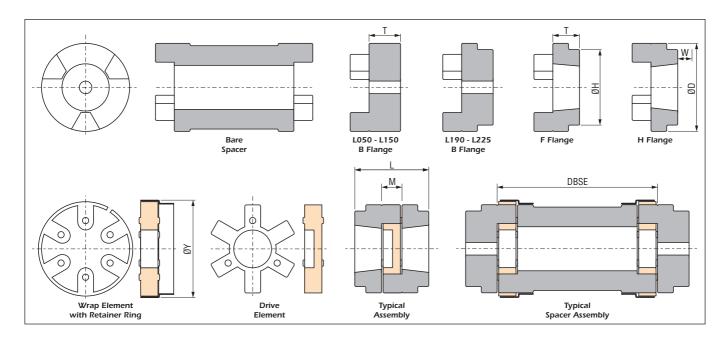
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HiPerDrive[®] Jaw Coupling





Dimensions

| | | L050 | L070 | L075 | L095 | L100 | L110 | L150 | L190 | L225 |
|-------------------------|-------------------------------------|-------|-------|------|------|--------|-------------|------------|-------|------|
| TaperF | Fix Bush size: F & H Flange | - | - | - | - | 1108 | 1210 | 1210 | 1610 | 2012 |
| Ba Maxim | num Bore: F & H Flange | - | - | - | - | 28 | 32 | 32 | 42 | 50 |
| | num Bore: B Flange | 16 | 20 | 22 | 28 | 35 | 42 | 48 | 55 | 60 |
| | | | | | | | | | | |
| ØD - C | Dutside Diameter | 27 | 35 | 44.5 | 54 | 65 | 84 | 96 | 115 | 127 |
| ØH - H | Hub Diameter | 27 | 35 | 44.5 | 54 | 65 | 84 | 96 | 102 | 108 |
| L - Ler | ngth: FF HH FH | - | - | - | - | 64 | 74 | 77 | 77 | 89 |
| L - Ler | ngth: BB | 42 | 53 | 53 | 65 | 86 | 110 | 113 | 133 | 155 |
| | ngth: FB HB | - | - | - | - | 75 | 92 | 95 | 95 | 122 |
| Su L - Ler M - Ga | ap | 12 | 13 | 13 | 13 | 18 | 22 | 25 | 25 | 25 |
| T - Ler | ngth Through Bore: F & H Flange | - | - | - | - | 23 | 26 | 26 | 26 | 32 |
| T - Ler | ngth Through Bore: B Flange | 15 | 20 | 20 | 26 | 34 | 44 | 44 | 54 | 65 |
| W - W | /rench Clearance (H Flange only)* | - | - | - | - | 29 | 38 | 38 | 38 | 42 |
| ØY - R | Retainer Outside Diameter | - | - | - | 64 | 77 | 97 | 112 | 130 | 143 |
| DBSE | | - | - | - | | 100, 1 | 140 and 180 | mm DBSE le | ngths | |
| _ | | | | | | | 1 | | | |
| Max P | Parallel | 0.2 | 0.2 | 0.22 | 0.25 | 0.28 | 0.32 | 0.36 | 0.38 | 0.4 |
| Max P Max A Max A | ixial | 0.6 | 1 | 1.2 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.8 |
| IV Max A | ngular (°) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | | | | | |
| B Flan | ıge (minimum bore) (kg) | 0.06 | 0.014 | 0.25 | 0.42 | 0.86 | 1.84 | 2.48 | 3.65 | 4.90 |
| H or F | Flange (kg) | - | - | - | - | 0.42 | 0.89 | 1.23 | 1.71 | 2.12 |
| Spider | r Element (kg) | 0.005 | 0.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.10 | 0.14 | 0.17 |
| Wrap | Element complete with Retainer (kg) | - | - | - | 0.05 | 0.09 | 0.15 | 0.21 | 0.28 | 0.34 |
| 100m | m DBSE Spacer (kg) | - | - | - | 0.31 | 0.39 | 0.70 | 0.83 | 1.6 | 1.8 |
| 140m | m DBSE Spacer (kg) | - | - | - | 0.45 | 0.57 | 1.04 | 1.17 | 2.0 | 2.2 |
| 180m | m DBSE Spacer (kg) | - | - | - | 0.60 | 0.75 | 1.38 | 1.51 | 2.4 | 2.8 |

* Installation clearance can be reduced with special wrenches.

Larger sizes available on request

9

ORDERING INSTRUCTIONS

• Jaw couplings are specified by the size, flange, element and spacer combination.

• TaperFix bushes are required for F and H Flanges and must be ordered as separate items (specifying bush size and the required bores).

• B Flanges are supplied unbored unless a the required bore is specified when ordering.



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HiPerDrive[®] MC Coupling



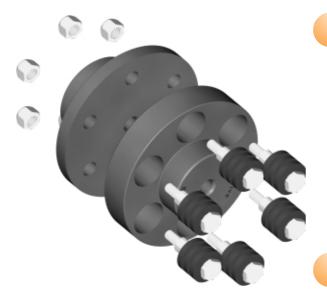
HiPerDrive[®] MC couplings are manufactured to a proven Australian design and dimensions.

The flexible element consists of tapered rubber rings mounted on steel pins. These rings absorb commonly encountered misalignment, shock and vibration. The flexible rings can be changed by removing the pins from the coupling using simple hand-tools without the need to disturb the driving or driven machine.

Combined with a SM series Spacer, the MC coupling can be converted to a Spacer coupling configuration (refer to page 13 for details).

After many decades of service, the MC coupling is as popular as ever for its ease of maintenance. No lubrication is required however the flexible rings are oil resistant.

Flanges are high-grade, cast iron; Pins are hexagonal steel bar; Rings are synthetic rubber (urethane rings are available for severe applications).



Selection Procedure

- 1. From the Service Duties Comparison Table (page 3) and Service Factors (see 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 MC coupling required by matching the design power to a power rating that matches or exceeds the Design Power.
- 4. Ensure the dimensions of the selected coupling fit your design requirements and shaft sizes can be accommodated.

NOTE 1:

MC Flanges accommodate larger shaft sizes than MCT Flanges.

NOTE 2:

By convention the pin half is mounted on the driven shaft.

Service Factors

| | | Electric Motors |
|------|----------|-----------------|
| | UNIFORM | 1.0 |
| | LIGHT | 1.5 |
| Load | MODERATE | 2.0 |
| | HEAVY | 2.5 |
| | SEVERE | 3.0 |

Power Ratings

| | | MC030 | MC038 | MC042 | MC048 | MC058 | MC070 | MC075 | MC085 | MC105 |
|---------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | Power kW per 100 rpm | 1.16 | 1.87 | 2.84 | 4.93 | 7.54 | 10.7 | 25.7 | 35.5 | 53.0 |
| | Power kW @ 720 rpm | 8.4 | 13.5 | 20.4 | 35.5 | 54.3 | 77.0 | 185 | 255 | 381 |
| | Power kW @ 960 rpm | 11.1 | 18.0 | 27.3 | 47.3 | 72.4 | 102 | 246 | 340 | 508 |
| Ratings | Power kW @ 1440 rpm | 16.7 | 26.9 | 40.9 | 71.0 | 108 | 154 | 370 | 511 | 763 |
| Rai | Power kW @ 2880 rpm | 33.4 | 53.9 | 81.8 | 142 | 217 | - | - | - | - |
| | Speed Maximum (rpm) | 4,600 | 4,400 | 4,000 | 3,400 | 3,000 | 2,700 | 2,300 | 2,090 | 1,750 |
| | Torque Nominal (Nm) | 110 | 175 | 265 | 465 | 720 | 1,020 | 2,450 | 3,390 | 5,080 |
| | Torque Maximum (Nm) | 220 | 350 | 530 | 930 | 1,420 | 2,040 | 4,900 | 6,780 | 10,160 |

10

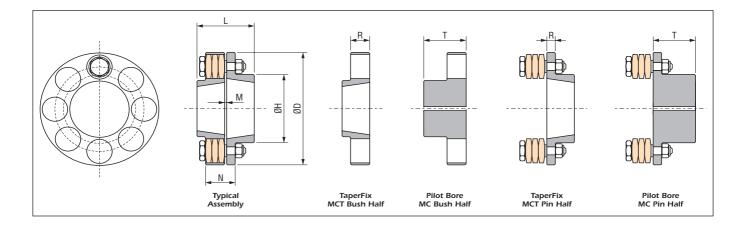
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HiPerDrive[®] MC Coupling





Dimensions

| | | MC030 | MC038 | MC042 | MC048 | MC058 | MC070 | MC075 | MC085 | MC105 |
|-----------|---|-------|-------|-------|-------|-------|---------|---|---------------|---------------|
| | TaperFix Bush Size: Pin Half | - | - | 1610 | 2012 | 2517 | 3020 | - | 3535 | 4040 |
| | TaperFix Bush Size: Bush Half | - | - | 1210 | 1610 | 2012 | 2517 | - | 3030 | 3535 |
| Bore | Maximum Bore: TaperFix Pin Half | - | - | 42 | 50 | 65 | 75 | - | 90 | 100 |
| ĕ | Maximum Bore: TaperFix Bush Half | - | - | 32 | 42 | 50 | 65 | - | 75 | 90 |
| | Maximum Bore: Pilot Bore Pin Half | 38 | 42 | 48 | 55 | 65 | 80 | 85 | 90 | 115 |
| | Maximum Bore: Pilot Bore Bush Half | 30 | 38 | 42 | 48 | 58 | 70 | 75 | 85 | 105 |
| | (D. Outside Disester | 107 | 100 | 140 | 474 | 100 | 010 | 054 | 070 | 000 |
| | ØD - Outside Diameter | 127 | 132 | 146 | 171 | 193 | 216 | 254 | 279 | 330 |
| | ØH - Hub Diameter: Pin Halves | 64 | 70 | 82 | 94 | 110 | 132 | 142 | 162 | 200 |
| | ØH - Hub Diameter: Bush Halves | 51 | 64 | 70 | 82 | 97 | 117 | 127 | 147 | 180 |
| Ę | L - Length: MC | 88 | 102 | 118 | 128 | 142 | 159 | 183 | 207 | 241 |
| Dimension | L - Length: MCT | - | - | 56 | 63 | 82 | 102 | - | 172 | 198 |
| ime | M - Gap | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | R - Flange Length: Pin Halves | 12 | 12 | 12 | 17 | 17 | 17 | 30 | 30 | 30 |
| | R - Flange Length: Bush Halves | 26 | 26 | 26 | 33 | 33 | 33 | 56 | 56 | 56 |
| | T - Length Through Bore: MC Pin & Bush Halves | 41 | 48 | 56 | 61 | 68 | 76 | 88 | 100 | 117 |
| | T - Length Through bore: MCT Pin Halves | - | - | 25 | 32 | 44 | 51 | - | 89 | 102 |
| | T - Length Through Bore: MCT Bush Halves | - | - | 25 | 25 | 32 | 44 | - | 76 | 89 |
| | Number of Pins | 4 | 6 | 8 | 6 | 8 | 10 | 8 | 10 | 12 |
| ş | | GC1-3 | GC1-3 | GC1-3 | - | Ŭ | | , i i i i i i i i i i i i i i i i i i i | GC2.3/4-3 | |
| Spares | Ring Size: Rubber | GC1-4 | GC1-4 | GC1-4 | | | | | GC2.3/4-4 | |
| s | Ring Size: Polyurethane | U272 | U272 | U272 | U273 | U273 | U273 | U274 | U274 | U274 |
| | | | | | | | | | | |
| | TaperFix Pin Half (kg) | - | - | 2.00 | 3.45 | 4.75 | 5.90 | - | 26.0 | 29.3 |
| Mass | TaperFix Bush Half (kg) | - | - | 1.85 | 3.20 | 3.90 | 5.10 | - | 14.2 | 32.0 |
| Ма | Pilot Bore Pin Half (kg) | 2.00 | 2.50 | 3.55 | 5.75 | 7.95 | 11.6 | 21.5 | 28.5 | 43.5 |
| | Pilot Bore Bush Half (kg) | 2.10 | 2.30 | 2.95 | 4.80 | 6.60 | 9.25 | 16.4 | 21.5 | 35.3 |
| | | | | | | | All val | lues are in m | m unless othe | erwise stated |

Larger sizes available on request

ORDERING INSTRUCTIONS

MC (through bore) and MCT (TaperFix) couplings are specified by size and flange type; Pilot bore flanges are prefixed MC and TaperFix flanges are prefixed MCT; Pin halves are suffixed -1; Bush halves are suffixed -2 (e.g. a MC058 pin half is specified MC058-1 and a MCT058 bush half is specified MCT058-2).

• TaperFix bushes are required for MCT flanges and must be ordered separately.

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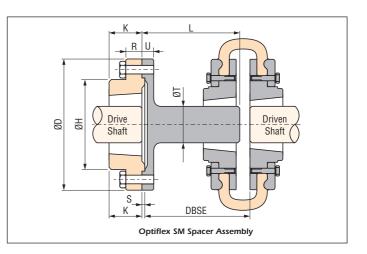
HiPerDrive[®] Optiflex Spacer Coupling

HiPerDrive[®] SM series Spacers combined with an Optiflex Tyre coupling (refer to page 4) provide a Spacer design where maintenance is more efficient by being able to move the drive or driven shafts without disturbing the mounting of the driving or driven machine.

> Standard Distance Between Shaft Ends (DBSE) lengths of 100, 140 and 180mm are available.

Selection Procedure

- 1. Select a suitable Optiflex Tyre coupling using the selection procedure found on page 4.
- 2. Select a suitable size SM Spacer taking into consideration the required shaft spacing.



Dimensions

| | SM16 | SM25 | SM30 | SM35 |
|--|---------|-------------|-----------|-----------|
| Use with Optiflex Tyre coupling | F50 F60 | F70 F80 F90 | F100 F110 | F120 F140 |
| TaperFix Bush Size (Spacer Flange) | 1615 * | 2517 | 3030 | 3535 |
| TaperFix Bush Maximum Bore | 42 | 65 | 75 | 90 |
| ØD - Outside Diameter | 127 | 178 | 216 | 248 |
| ØH - Hub Diameter | 80 | 123 | 146 | 178 |
| <u>∞</u> K* | 38 | 46 | 76 | 89 |
| L - Length: 100mm DBSE* | 94 | 94 | - | - |
| L - Length: 100mm DBSE* L - Length: 140mm DBSE* | 134 | 134 | 134 | 134 |
| L - Length: 180mm DBSE* | - | 174 | 174 | 174 |
| R | 18 | 22 | 51 | 63 |
| S | 6 | 6 | 6 | 6 |
| ØT | 32 | 48 | 60 | 80 |
| U | 15 | 16 | 20 | 20 |
| 100mm DBSE (kg) | 3.55 | 8.05 | - | - |
| 140mm DBSE (kg) | 3.8 | 8.65 | 16.4 | 25.4 |
| 180mm DBSE (kg) | - | 9.25 | 17.3 | 26.9 |

* NOTE: May vary on short reach bush design

ORDERING INSTRUCTIONS

SM Spacers are specified by the size and DBSE (e.g. SM25 Spacer with a 140mm DBSE length is specified SM25-140).

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SM Spacers require a TaperFix bush which must be ordered as a separate item (specifying bush size and the required bore).

• To order a complete Spacer coupling list the individual components of the coupling and Spacer including required TaperFix bushes.

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HiPerDrive[®] MC Spacer Coupling

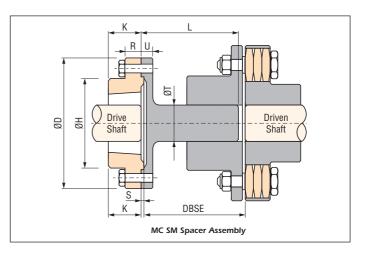


HiPerDrive[®] SM series Spacers combined with an MC coupling (refer to page 10) provide a Spacer design where maintenance is more efficient by being able to move the driving or driven shafts without disturbing the mounting of the driving or driven machine.

Standard Distance Between Shaft Ends (DBSE) lengths of 100, 140 and 180mm are available.

Selection Procedure

- 1. Select a suitable size of MC coupling using the selection procedure found on page 10.
- 2. Select a suitable size SM Spacer taking into consideration the required shaft spacing.



Dimensions

| | SM16 | SM25 | SM30 | SM35 |
|--|--------|-------------|-------|-------------|
| Use with MC coupling | MC038 | MC042 MC048 | MC058 | MC070 MC075 |
| TaperFix Bush Size (Spacer Flange) | 1615 * | 2517 | 3030 | 3535 |
| TaperFix Bush Maximum Bore | 42 | 65 | 75 | 90 |
| ØD - Outside Diameter | 127 | 178 | 216 | 248 |
| ØH - Hub Diameter | 80 | 123 | 146 | 178 |
| <u>∞</u> K* | 38 | 46 | 76 | 89 |
| L - Length: 100mm DBSE* | 94 | 94 | - | - |
| L - Length: 100mm DBSE* L - Length: 140mm DBSE* | 134 | 134 | 134 | 134 |
| L - Length: 180mm DBSE* | - | 174 | 174 | 174 |
| R | 18 | 22 | 51 | 63 |
| S | 6 | 6 | 6 | 6 |
| ØT | 32 | 48 | 60 | 80 |
| U | 15 | 16 | 20 | 20 |
| 100mm DBSE (kg) | 3.55 | 8.05 | - | - |
| 140mm DBSE (kg) | 3.8 | 8.65 | 16.4 | 25.4 |
| 180mm DBSE (kg) | - | 9.25 | 17.3 | 26.9 |

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* NOTE: May vary on short reach bush design

ORDERING INSTRUCTIONS

SM Spacers are specified by the size and DBSE (e.g. A SM25 spacer with a 140mm DBSE length is specified as a SM25-140).

• SM Spacers require a TaperFix bush which must be ordered as a separate item (specifying bush size and the required bore).

To order a complete Spacer coupling list the individual components of the coupling and spacer including required TaperFix bushes.

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HiPerDrive[®] RM Rigid Coupling





HiPerDrive[®] RM Rigid couplings are used to rigidly connect two shafts. Rigid couplings are often used to facilitate ease-of-maintenance or simply to aid machine assembly.

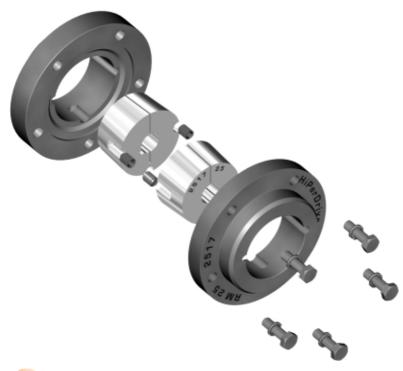
> TaperFix bushes provide a secure fit on the driving and driven shafts, ensuring installation and removal is simple.

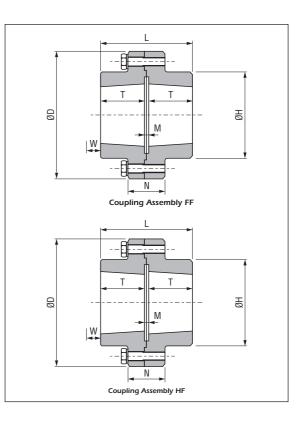
Selection Procedure

- 1. Select a size of RM coupling to fit the larger of the driving or driven shafts.
- 2. For severe applications, select the next largest size of RM coupling.

NOTE:

HF or FF assemblies can be used on horizontal shafts. Only FF assemblies are to be used on vertical shafts.





All values are in mm unless otherwise stated

Dimensions

| | RM12 | RM16 | RM25 | RM30 | RM35 | RM40 | RM50 |
|--|--------|--------|------|------|------|------|------|
| TaperFix Bush Size: F & H Flanges | 1210 * | 1615 * | 2517 | 3030 | 3535 | 4040 | 5050 |
| Maximum Bore: F & H Flanges | 32 | 42 | 65 | 75 | 90 | 100 | 125 |
| ØD - Outside Diameter | 118 | 127 | 178 | 216 | 248 | 298 | 362 |
| ØH - Hub Diameter L - Assembled Length M - Gap | 83 | 80 | 123 | 146 | 178 | 210 | 266 |
| L - Assembled Length | 57 | 83 | 97 | 159 | 185 | 210 | 260 |
| M - Gap | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| N - Outer Length | 35 | 43 | 51 | 65 | 75 | 76 | 92 |
| W - Wrench Clearance (H Flange Only)* | 38 | 38 | 48 | 54 | 67 | 79 | 92 |
| Total Weight (kg) | 2.9 | 3.8 | 8.8 | 18.2 | 28.8 | 47.3 | 89.1 |

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*NOTE: May vary between short reach bush and long reach bush designs.

ORDERING INSTRUCTIONS

• RM couplings are supplied as complete assemblies in either HF or FF configuration (e.g. a RM25 configured as a HF is specified RM25HF).

• RM couplings require TaperFix bushes which must be ordered as separate items (specifying bush size and the required bores).

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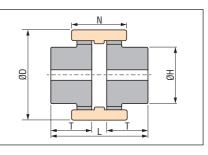


HiPerDrive[®] GearDrive Coupling



HiPerDrive[®] GearDrive couplings provide a simple, slip-together connection between two shafts. Drive is transmitted between the two gear-hubs by a precision-moulded, nylon sleeve. Its double-crowned tooth form and low friction between gears and sleeve accommodate nominal misalignment between shafts. This design is free from pins, bolts and seals allowing easy assembly. Lubrication is not required.





Dimensions

| | S14 | S19 | S24 | S28 | S32 | S38 | S42 | S48 | S65 | | | |
|--|--|---|--------|-------|-------|-------|-------|-------|-------|--|--|--|
| Power kW per 100 rpm | 0.10 | 0.16 | 0.21 | 0.46 | 0.62 | 0.82 | 1.05 | 1.44 | 3.93 | | | |
| ᇘ Power kW @ 1440 rpm | 1.4 | 2.4 | 3.0 | 6.6 | 9.0 | 11.8 | 15.1 | 20.7 | 56.5 | | | |
| Maximum (rpm) | 14,000 | 11,800 | 10,600 | 8,500 | 7,500 | 6,700 | 6,000 | 5,600 | 4,000 | | | |
| Torque Nominal (Nm) | 9.7 | 15.6 | 19.5 | 44.1 | 58.8 | 78.4 | 98.1 | 137.3 | 372.7 | | | |
| Torque Maximum (Nm) | 19.5 | 31.3 | 39.2 | 88.3 | 117.6 | 156.8 | 196.2 | 274.6 | 745.3 | | | |
| ØD - Outside Diameter | 39.9 | 48.3 | 52.1 | 66.0 | 76.2 | 82.6 | 92.2 | 99.8 | 139.7 | | | |
| ØH - Hub Diameter | 25.4 | 31.8 | 35.6 | 43.9 | 49.5 | 58.4 | 64.8 | 67.8 | 96.5 | | | |
| Ĕ L - Assembled Length | 45.7 | 49.8 | 52.6 | 83.8 | 83.8 | 83.8 | 87.6 | 104.1 | 143.5 | | | |
| L - Assembled Length N - Sleeve Length T - Length Through Bore | 36.8 | 36.8 | 40.6 | 45.7 | 48.3 | 48.3 | 50.0 | 50.0 | 71.9 | | | |
| T - Length Through Bore | 20.1 | 21.3 | 21.3 | 35.6 | 35.6 | 35.6 | 38.1 | 45.7 | 64.0 | | | |
| Misalignment (°) | | Axial ±1.0, Parallel ± 0.3, Angular 2.0 | | | | | | | | | | |
| Total Weight (kg) | 0.2 | 0.3 | 0.4 | 0.8 | 1.5 | 1.8 | 2.0 | 2.5 | 6.8 | | | |
| | All values are in mm unless otherwise stated | | | | | | | | | | | |

HiPerDrive[®] Chain Coupling

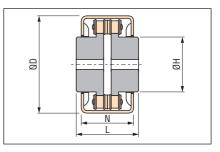
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HiPerDrive[®] Chain couplings provide a robust, compact coupling. The driven machine can be declutched by removing the chain. Lubrication is critical for long service life (retained by the outer aluminium cover).







Dimensions

| | | 4012 | 4016 | 5016 | 5018 | 6018 | 6022 | 8018 | 8022 | 10020 |
|------------|-----------------------|------|------|------|------|-------|-------|-------|-------|--------|
| | Chain Pitch | 1/ | 2" | 5/ | 8" | 3/ | '4" | 1 | Ш | 1 1/4" |
| | Maximum Bore | 22 | 32 | 40 | 45 | 56 | 71 | 80 | 100 | 110 |
| ions | ØD - Outside Diameter | 77 | 92 | 110 | 122 | 147 | 168 | 190 | 226 | 281 |
| ensi | ØH - Hub Diameter | 36 | 51.5 | 64 | 73.5 | 89.5 | 115 | 115 | 142 | 162 |
| Dimensions | L - Assembled Length | 79.4 | 87.4 | 99.7 | 99.7 | 123.5 | 123.5 | 141.2 | 157.2 | 178.8 |
| | N - Cover Length | 72 | 72 | 87 | 85 | 105 | 117 | 129 | 137 | 153 |
| | Total Weight (kg) | 1.1 | 1.9 | 3.3 | 4.2 | 7.8 | 11.6 | 15.1 | 24.5 | 36.5 |

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Web www.transeals.com.au

Head Office 1 Atlas Court Welshpool WA 6106 Perth Western Australia