Chainflex Couplings
Renold Gears has been manufacturing high quality, high specification gear units for over 100 years and has always been at the leading edge of gear technology with innovative products and power transmission solutions.

Interchangeability
Many of the products from Renold Gears are dimensionally interchangeable with other manufacturers’ gear units, allowing a trouble free replacement of gearboxes, in most cases upgrading the capacity through state of the art technology and materials.

Custom Made
Renold Gears is unique in its ability to offer custom made products designed to meet customers’ exacting requirements without compromise on availability and cost. From complete package solutions to individual precision replacement gears, all can be tailor made to meet specific applicational requirements.

Available
The most popular ranges of gearboxes are available from local distribution stock, backed up by extensive stocks from our manufacturing plant in the UK.

Strength through Service
Renold Gears has been manufacturing high quality, high specification gear units for over 100 years and has always been at the leading edge of gear technology with innovative products and power transmission solutions.
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Flexible Couplings should be used to accommodate any combination of misalignment conditions described below.

At installation all couplings should be aligned as near to perfect as possible.

1. Angular
Angular misalignment is present when the shaft axes are inclined one to the other. Its magnitude can be measured at the coupling faces.

2. Parallel Offset
Axial misalignment is present when the axes of the driving and driven shafts are parallel but laterally displaced.

3. End float (axial)
End float is the ability to accommodate a relative axial displacement of the connected shafts; achieved by sliding members or flexing of resilient components.

4. Torsional flexibility
Torsional flexibility is a design feature necessary to permit shock and impulsive loadings to be suitably dampened. It is achieved by the provision of a flexible medium such as rubber, springs, etc., between the two halves of the coupling.

Selection
In order to select the correct type and size of coupling, the following basic information should be known:

Power to be transmitted
(a) Normal.
(b) Maximum.
(c) Whether continuous or intermittent.

Characteristics of the drive
(a) Type of prime mover and associated equipment.
(b) Degree of impulsiveness of driven load.

Speed in revolutions per minute
(a) At which normal power is transmitted.
(b) At which maximum power is transmitted.
(c) Maximum speed.

Dimensions of shafts to be connected
(a) Actual diameter.
(b) Length of shaft extension.
(c) Full keyway particulars.

Selection Procedure
1. Nominal power in kW to be transmitted = $K$.
2. Select appropriate load classification from Table 1, denoted as either S, M or H.
3. From Table 2, establish Service Factor(s) to be applied, taking into account hours of operation/day and prime mover = $f_D$.
4. From Table 3 select factor for the required frequency of starts/hr = $f_S$.
5. Selection Power $K_s = K \times f_D \times f_S$
6. Equivalent power at 100 RPM = \(\frac{K_s \times 100}{\text{RPM}}\)
7. Check that coupling selected will accept the required shaft diameters. Should shaft diameter exceed maximum permissible, then re-select using next larger size of coupling.

Flexible Couplings should be used to accommodate any combination of misalignment conditions described below.
### Table 1

<table>
<thead>
<tr>
<th>Machinery</th>
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<tbody>
<tr>
<td>Agitators</td>
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<td>Pure liquids</td>
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<td>Liquids and solids</td>
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<td>Lobe</td>
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<tr>
<td>Vane</td>
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<tr>
<td>Bottling and distilling</td>
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<tr>
<td>Bottling machinery</td>
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<tr>
<td>Brew kettles - continuous duty</td>
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<td>Cookers - continuous duty</td>
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<td>Mash tubs - continuous duty</td>
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<td>Scale hopper - frequent starts</td>
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<tr>
<td>Can filling machines</td>
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<tr>
<td>Can knives (1)</td>
</tr>
<tr>
<td>Car dumpers</td>
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<td>Car pullers</td>
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<tr>
<td>Clarifiers</td>
</tr>
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<tr>
<td>Clay working machinery</td>
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<td>Brick press</td>
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<td>Briquette machine</td>
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<td>Pug mill</td>
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<td>Reciprocating - multi-cylinder</td>
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<td>Belt</td>
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<tr>
<td>Flight</td>
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<td>Screw</td>
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<tr>
<td>Conveyor - heavy duty not uniformly fed</td>
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<td>Cutter head drives</td>
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<td>Jig drives</td>
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<tr>
<td>Manoeuvring winches</td>
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<td>Pumps</td>
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<tr>
<td>Screen drive</td>
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<tr>
<td>Stackers</td>
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<tr>
<td>Utility winches</td>
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</tbody>
</table>

| Dry dock cranes |
| Main hoist | (2) |
| Auxiliary hoist | (2) |
| Re-saw merry-go-round conveyor | (3) |
| Rotating, swing or slew | (3) |
| Tracking, drive wheels | (4) |
| Elevators |
| Bucket - uniform load | S |
| Bucket - heavy load | M |
| Bucket - continuous | S |
| Centrifugal discharge | S |
| Escalators | S |
| Freight | M |
| Gravity discharge | S |
| Man lifts | M |
| Passenger | * |
| Extruders (plastic) |
| Film | S |
| Sheet | S |
| Coating | S |
| Rods | S |
| Tubing | S |
| Blow moulders | M |
| Fans |
| Centrifugal | S |
| Cooling towers | S |
| Forced draft | S |
| Induced draft | M |
| Large, mine etc. | M |
| Large, industrial | M |
| Light, small diameter | S |
| Feed industry |
| Beef slice | M |
| Cereal cooker | S |
| Dough mixer | M |
| Meat grinder | M |
| Generators - not welding | S |
| Hammer mills | H |
| Hoists |
| Heavy duty | M |
| Medium duty | M |
| Skip hoist | S |
| Laundry |
| Washers - reversing | M |
| Tumblers | M |
| Line shafts |
| Driving processing equipment | M |
| Light | S |
| Other line shafts | S |
| Lumber industry |
| Barkers, hydraulic, mechanical | M |
| Burner conveyor | M |
| Chain saw and drag saw | H |
| Chain transfer | H |
| Craneway transfer | H |
| De-barking drum | H |
| Edger feed | M |
| Gang feed | M |
| Green chain | M |
| Live rolls | H |
| Log deck | H |
| Log haul - incline | H |
| Log haul - well type | H |
| Log turning device | H |
| Main log conveyor | H |
| Off bearing rolls | M |
| Planer feed chains |
| Planer floor chains | M |
| Planer tilting hoist | M |
| Re-saw merry-go-round conveyor | M |
| Roll cases | M |
| Slab conveyor | H |
| Small waste conveyor-belt | S |
| Small waste conveyor-chain | M |
| Sorting table | M |
| Tipple hoist conveyor | H |
| Tipping hoist | H |
| Transfer conveyors | H |
| Transfer rolls | M |
| Tray drive | M |
| Trimmer feed | H |
| Waste conveyor | M |
| Mill drives |
| Mills, rotary type |
| Ball (1) | M |
| Cement kilns (1) | M |
| Dryers and coolers (1) | M |
| Kilns other than cement | M |
| Pebble (1) | M |
| Rod, plain & wedge bar (1) | M |
| Tumbling barrels | H |
| Mixer |
| Concrete mixers continuous | M |
| Concrete mixers intermittent | M |
| Constant density | S |
| Variable density | S |
| Oil industry |
| Chillers | M |
| Oil well pumping | H |
| Paraffin filter press | M |
| Rotary kilns | M |
| Paper mills |
| Agitators (mixers) | M |
| Barker - auxiliary hydraulic | M |
| Barker - mechanical | M |
| Barking drum | H |
| Beeper and pulper | M |
| Bleacher | S |
| Calenders | S |
| Calenders - super | S |
| Converting machinery except cutters, platers | M |
| Conveyors | S |
| Couch | M |
| Cutters, platers | M |
| Cylinders | M |
| Dryers | M |
| Feeder stretcher | M |
| Feeder whistle | M |
| Jordans | M |
| Log haul | M |
| Presses |
| Pulp machine reel | M |
| Stock chest | M |
| Suction roll | M |
| Washers and thickeners | M |
| Winders | M |
| Printing presses |
| Barge haul | H |
| Pumps |
| Centrifugal | S |
| Proportioning | M |
| Reciprocating |
| single acting: 3 or more cylinders | M |
| double acting: 2 or more cylinders | M |
| single acting: 1 or 2 cylinders | M |
| double acting: single cylinder | M |
| Rotary - gear type | S |
| Rotary - lube, valve | M |
| Rubber and plastics industries |
| Crackers (1) | H |
| Laboratory equipment | M |
| Mixed mills (1) | H |
| Refiners (1) | M |
| Rubber calenders (1) | M |
| Rubber mill, 2 on line (1) | M |
| Rubber mill, 3 on line | S |
| Sheeter (1) | M |
| Tyre building machines |
| Tyre and tube press openers | * |
| Tubers and strainers (1) | M |
| Warms mills (1) | M |
| Sand and stone |
| Screws |
| Air washing | S |
| Rotary, stone or gravel | M |
| Travelling water intake | S |
| Sewage disposal equipment |
| Bar screens | S |
| Chemical feeders | S |
| Collectors | S |
| Dewatering screws | M |
| Scum breakers | M |
| Slow or rapid mixers | M |
| Thickeners | M |
| Vacuum filters | M |
| Slab pushers | M |
| Stationary gear | S |
| Stokers | S |
| Sugar industry |
| Cane knives (1) | M |
| Crushers (1) | M |
| Mills (1) | H |
| Textile industry |
| Batchers | M |
| Calenders | M |
| Cards | M |
| Dry cans | M |
| Dryers | M |
| Dyeing machinery | M |
| Looms | M |
| Mangies | M |
| Nappers | M |
| Pads | M |
| Range drives | M |
| Slashers | M |
| Soapers | M |
| Spinners | M |
| Tenter frames | M |
| Washers | M |
| Winders | M |
| Windlass | M |

**Key**

- **S** = Steady
- **M** = Medium Impulsive
- **H** = Highly Impulsive
- * = Refer to Renold

**Note**

Machinery characteristics and service factors listed in this catalogue are a guide only. Some applications (e.g., constant power) may require special considerations. Please consult Renold.

www.renold.com
Service Factors and Selection

Example of Selection

Coupling is required to transmit 7.5kW at 1440 RPM to connect an electric motor to a gear box driving a chain conveyor running for 18 hours/day and starting 15 times/hour. Shaft diameters 55mm respectively.

K = 7.5kW
From Table 1 Load Classification = M (medium impulsive)
From Table 2 Service Factor $f_D = 1.5$
From Table 3 $f_S = 1.2$
Therefore selection $K_s$ is:

$K_s = K \times f_D \times f_S$
$= 7.5 \times 1.5 \times 1.2$
$= 13.5$ kW

Equivalent power at 100 RPM = $K_s \times \frac{100}{1440}$
$= \frac{13.5 \times 100}{1440}$
$= 0.9375$ kW @ 100RPM

From page 17 selection is RSC110 (644911) (maximum bore 55 mm).

Key Stress

1. Permissible key stress = 70N/mm²
2. Nominal torque $T_{KM} = K \times 9550 / \text{RPM} \text{Nm}$
3. Force at key $F = T_{KM} / r$
4. Shaft Rad $r$ metres
5. Key area $A = J \times \text{HUB length mm}$
   (Obtain from relevant catalogue page).
6. Key stress $f_k = F / A \text{ N/mm}^2$
7. If resultant stress is less than 70 N/mm² key stress is acceptable.
   If resultant $f_k$ is greater than 70, consider either two keyways or extending hub length.
8. Example:

   $T_{KM} = 7.5 \times 9550 / 1440 = 49.7$Nm
   $r = 55/2 = 27.5$mm / 1000 = 0.0275m
   $F = 49.7 / 0.0275 = 1741$N
   $A = 16 \times 45 = 720$mm²
   $f_k = 1741 / 720 = 2.4$M/mm²

Selection is therefore good.

For operation above 80% of the declared maximum coupling speed it is recommended that the coupling is dynamically balanced.

It is the responsibility of the system designer to ensure that the application of the coupling does not endanger the other constituent components in the system. Service factors given are an initial selection guide.

WARNING: Rotating equipment must be provided with a suitable guard before operating or injury may result.
### Key and Keyway Dimensions

**Metric (mm)**

Keyways comply with BS4235: Part 1: 1972

<table>
<thead>
<tr>
<th>Shaft dia.</th>
<th>Incl.</th>
<th>J</th>
<th>K</th>
<th>L</th>
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**Imperial (inches)**

Keyways comply with BS46: Part 1: 1958

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**Keyway dimensions [fig 01]**

Parallel keyways are supplied unless customer states otherwise.
Chainflex

An all metal flexible yet torsionally stiff coupling, suitable for use in arduous working conditions.

Coupling capacity
• Maximum power @ 100RPM: 90kW
• Maximum torque: 8595Nm

Features and benefits
• Torsionally stiff for use as a positive drive connection.
• Easy installation for ease of maintenance
• Misalignment capabilities allowing flexibility in installation.
• Hardened teeth giving long life with high torque capacity.

Applications
• Fans
• Feeders
• Kiln Dryers
• Line Shafts
• Pump Drives

Construction details
Hardened Steel Sprockets
Renold Duplex Chain
Moulded Cover

Standard range comprises
• Shaft to Shaft
• Taper Bush or Parallel Bored
### Coupling Power/ Torque Speed

<table>
<thead>
<tr>
<th>Type</th>
<th>Bore Max</th>
<th>Bore Min</th>
<th>Bush size Max</th>
<th>Bush size Min</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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