Crownpin 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.
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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: $K_s \times \frac{100}{\text{RPM}}$
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.
## Load Classification by Application

<table>
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<td>Agitators</td>
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</tr>
<tr>
<td>Bottling and distilling</td>
</tr>
<tr>
<td>Can filling machines</td>
</tr>
<tr>
<td>Classifiers M</td>
</tr>
<tr>
<td>Conveyors</td>
</tr>
<tr>
<td>Conveyors - uniformly loaded or fed</td>
</tr>
<tr>
<td>Conveyors - heavy duty not uniformly fed</td>
</tr>
<tr>
<td>Crane Drives - not dry dock</td>
</tr>
<tr>
<td>Crushers</td>
</tr>
<tr>
<td>Drives</td>
</tr>
</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 *  | Passenger *  |

### Extruders (plastic)
- Film S  | Sheet S  | Coating S  | Rods S  | Tubing S  | Blow moulders S  |

### Fans
- Centrifugal *  | Cooling towers *  | Induced draft *  | Forced draft *  | Induced draft M  | Large, mine etc. M  | Large, industrial M  | Light, small diameter S  |

### Feeders
- Apron M  | Belt M  | Disc S  | Reciprocating H  |

### Food 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 H  | Skip hoist M  |

### 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 M  | Log deck M  | Log haul - incline H  | Log haul - well type H  | Log turning device H  | Main log conveyor H  | One bearing rolls M  |

### Planer feed chains
- Planer floor chains M  | Planer tilting hoist M  | Re-saw merry-go-round ('conveyor') (3)
- Roll cases M  | Slab conveyor H  | Small waste conveyor-belt S  | Small waste conveyor-chain M  | Sorting table S  | Tipple hoist conveyor M  | Tipple hold drive M  | Transfer conveyors M  | Transfer rolls M  | Tray drive M  | Trimmer feed M  | Waste conveyor M  |

### Machine tools

### 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  |

### Motors
- Concrete mixers continuous M  | Concrete mixers intermittent M  | Constant density S  | Variable density M  |

### Oil industry
- Chillers M  | Oil well pumping M  | Paraffin filter press M  | Rotary kilns M  |

### Paper mills
- Agitators (mixers) M  | Barker - auxiliaries hydraulic M  | Barker - mechanical H  | Banking drum H  | Beater and pulper M  | Bleacher S  | Calenders M  | Calenders - super H  | Converting machine except cutters, platers M  | Conveyors S  | Couch M  | Cutters, platers H  | Cylinders M  | Dryers M  | Feil stretcher M  | Fell worshiper M  | Jordans H  | Log haul M  |

### Presses
- Pulp machine reel M  | Stock chest M  | Suction roll M  | Washers and thickeners M  | Winders M  |

### Printing presses
- *  | Plate rollers M  | Barge haul H  |

### Pumps
- Centrifugal M  | Proportioning S  | Reciprocating M  | 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 *  | Rotary - gear type S  | Rotary - lobe, vane S  |

### Rubber and plastics industries
- Crackers (1) H  | Laboratory equipment M  | Mixed mills (1) H  | Refiners (1) M  | Rubber calendars (1) M  | Rubber mill, 2 on line (1) M  | Rubber mill, 3 on line (1) S  | Sheeter (1) M  | Tyre building machines M  | Tyre and tube press openers S  | Tubers and strainers (1) M  | Warming mills (1) M  |

### Sand and gravel industries
- *  | Screeds S  | Air washing S  | Rotary, stone or gravel M  | Travelling water intake S  |

### Sewage disposal equipment
- Bar screens M  | Chemical feeders S  | Collectors S  | Dewaterting screws M  | Scum breakers M  | Slow or rapid mixers M  | Thickeners M  | Vacuum filters M  |

### Slab pushers M  | Screwing gear S  | Stokers M  | Sugar industry M  |

### Textile industry
- Batches M  | Calenders M  | Cards M  | Dry cans M  | Dryers M  | Drying machinery M  | Looms M  | Mangies M  | Nappers M  | Pads M  | Range drives *  | Slashers M  | Soapers M  | Spinners M  | Tenter frames M  | Washers M  | Winders M  | Windlass *  |

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

(1) = Select on 24 hours per day service factor only.
(2) = Use service factor of 1.00 for any duration of service.
(3) = Use service factor of 1.25 for any duration of service.
(4) = Use service factor of 1.50 for any duration of service.

### 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.
Service Factors and Selection

Table 2 Service Factor (fp)

<table>
<thead>
<tr>
<th>Prime mover (Drive input)</th>
<th>Driven machinery characteristics</th>
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<tr>
<td></td>
<td>Duration service hours/day</td>
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<td></td>
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<tr>
<td>Electric, air &amp; hydraulic Motors or steam turbine (Steady input)</td>
<td>Intermittent - 3hrs/day max</td>
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<tr>
<td></td>
<td>3 - 10</td>
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<tr>
<td></td>
<td>over 10</td>
</tr>
<tr>
<td>Multi-cylinder I.C. engine (Medium impulsive input)</td>
<td>Intermittent - 3hrs/day max</td>
</tr>
<tr>
<td></td>
<td>3 - 10</td>
</tr>
<tr>
<td></td>
<td>over 10</td>
</tr>
<tr>
<td>Single-cylinder I.C. engine (Highly impulsive input)</td>
<td>Intermittent - 3hrs/day max</td>
</tr>
<tr>
<td></td>
<td>3 - 10</td>
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<tr>
<td></td>
<td>over 10</td>
</tr>
</tbody>
</table>

Table 3 Factor for Starts/Hour(fS)

<table>
<thead>
<tr>
<th>No of starts per hour</th>
<th>0-1</th>
<th>1-30</th>
<th>30-60</th>
<th>60-+</th>
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<tbody>
<tr>
<td>Factor</td>
<td>1.0</td>
<td>1.2</td>
<td>1.3</td>
<td>1.5</td>
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</table>

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 fp = 1.5

From Table 3 fS = 1.2

Therefore selection kW is:

\[
K_s = K \times f_p \times f_S
\]

\[
= 7.5 \times 1.5 \times 1.2
\]

\[
= 13.5 \text{ kW}
\]

Equivalent power at 100 RPM = \[
\frac{K_s \times 100}{1440}
\]

\[
= \frac{13.5 \times 100}{1440}
\]

\[
= 0.9375 \text{kW @ 100RPM}
\]

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

Key Stress

1. Permissible key stress = 70N/mm²
2. Nominal torque \(T_{km} = \frac{K \times 9550}{RPM} \text{ Nm}\)
3. Force at key \(F = \frac{T_{km}}{r}\)
4. Shaft Rad r. metres
5. Key area \(A = J \times \text{HUB length mm}\)
   (Obtain from relevant catalogue page).
6. Key stress \(f_k = \frac{F}{A} \text{ N/mm}^2\)
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:

\[
T_{km} = 7.5 \times 9550/1440 = 49.7 \text{Nm}
\]

\[
r = 55/2 = 27.5 \text{mm} / 1000 = 0.0275 \text{m}
\]

\[
F = 49.7/0.0275 = 1741 \text{N}
\]

\[
A = 16 \times 45 = 720 \text{mm}^2
\]

\[
f_k = 1741/720 = 2.4 \text{M/mm}^2
\]

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>Key &amp; keyway</th>
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</thead>
<tbody>
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<td>Over</td>
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<td>170</td>
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<td>200</td>
<td>230</td>
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</tbody>
</table>

**Imperial (inches)**

Keyways comply with BS46: Part 1: 1958

<table>
<thead>
<tr>
<th>Shaft dia.</th>
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<td>5.00</td>
<td>6.00</td>
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</tbody>
</table>

Keyway dimensions [fig 01]

Parallel keyways are supplied unless customer states otherwise.
An established pin/buffer coupling, offering extended power capacity where the demand for long life and simplicity of construction make it suitable for working in arduous conditions.

Coupling capacity
- Maximum power @ 100RPM: 2611kW
- Maximum torque: 249,400Nm

Features and benefits
- Heavy duty coupling suitable for shock load conditions.
- Neoprene rubber buffers for robust flexibility.
- Torsionally flexible - shock absorbing, extending machine life.
- Maintenance free - minimum number of wearing parts.
- Misalignment capabilities allowing flexibility installation.

Standard range comprises
- Shaft to Shaft
- Shear Pin
- Brake Drum

Applications
- Conveyors
- Cranes
- Fans
- Leisure Rides
- Lifts
- Pumps
- Screens
- Washers
- General Industrial Applications

Construction details
- Cast Iron Half Bodies
- Neoprene Buffers:
  Temp range - 30°C to + 95°C
Renold continue to supply the following components as spares and replacement parts but recommend Pinflex for new applications.

The following Crownpin components are recommended for high torque applications as they exceed the Pinflex range.

Other pin configurations are available - please consult Renold.
## Crownpin

### Component Spares

<table>
<thead>
<tr>
<th>Coupling number</th>
<th>Product number</th>
<th>Pin half body</th>
<th>Buffer half body</th>
<th>Pin &amp; Nut</th>
<th>Neoprene Buffer</th>
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</tbody>
</table>
The best range of solution chain products available anywhere

**RENOLD Synergy™**
- High performance
- Superior wear life
- Outstanding fatigue resistance

**RENOLD Syno™**
- Maintenance free
- Self-lubricating chain
- Food industry-approved lubricant

**RENOLD**
- Best premium chain
- Leading performance
- Solid bush / solid roller / end softened pin

**Hydro-Service™**
- Superior corrosion resistant coating
- Alternative choice to stainless steel chain
- Will not chip or peel
- Hexavalent chrome-free

**Steel Pin Bush Roller Chain**
- Manufactured to international stds
- Full range of pitch alternatives
- Breaking loads 13 to 900 kN as std
- Attachments to suit varied applications

**Leaf Chain**
- Comprehensive ranges used worldwide for safety critical lifting applications
- 100 years experience in developing and maintaining lifting chain

**Steel Knuckle Chain**
- Heavy duty, detachable elevator chains
- Integral K type attachments
- Breaking loads from 642kN to 1724kN
- Sealed joint to extend chain life

**Roll-Ring™**
- Revolutionary chain tensioner
- Installed in seconds and self adjusting
- Maintenance free
- Also acts as noise damper

**Customised Engineering Chain**
- Wide range to suit specialised applications using high specification materials and treatment processes
- Designed in close collaboration with customer

**Smartlink™**
- Load monitoring technology
- Technical reports & data logging

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