Industrial Couplings & Freewheel Clutches
### Crownpin
**Heavy duty pin and buffer coupling**
- **Torque:** 249 kN.m
- **Diameter:** 300mm

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
- Axial, angular and offset misalignment capabilities

**Applications:** PUMPS • CRANES • CONVEYORS • SCREENS • ESCALATORS

### Pinflex
**Compact steel hub pin and buffer coupling**
- **Torque:** 32.5 kN.m
- **Diameter:** 260mm

Strong yet compact steel half bodies
- Heavy duty pin and buffer coupling suitable for shock load conditions
- Misalignment capabilities allowing flexibility in installation
- Polyurethane buffers, reliable, flexible and temperature resistant
- Maintenance free – minimum number of wearing parts

**Applications:** PUMPS • CRANES • CONVEYORS • SCREENS • ESCALATORS

### Gearflex
**Very heavy duty gear coupling**
- **Torque:** 4747 kN.m
- **Diameter:** 840mm

All carbon steel heavy duty gear coupling for long life and strength in application
- AGMA Standard series, cost effective and interchangeable flange fixing design
- Single and double engagement types available, suiting all application requirements
- Customised options available to offer design suitability for demanding applications
- High misalignment range available up to 6 degrees

**Applications:** CRANES • MINE DRIVES • STEEL ROLLING MILLS • QUARRIES

### Spiderflex
**Interchangeable high quality curved jaw spider coupling**
- **Torque:** 3.15 kN.m
- **Diameter:** 115mm

Torsionally flexible, shock absorbing, failsafe design
- Optional fire retardant anti-static (FRAS) spider element
- Misalignment capabilities allowing flexibility in installation
- Compact design – small, with high torque capacity
- Dimensionally similar to other spider couplings

**Applications:** COMPRESSORS • PUMPS • CONVEYORS

### Spider Jaw/Wrap
**Interchangeable high quality straight jaw spider couplings**
- **Torque:** 10.77 kN.m (with hytrel spider element)
- **Diameter:** 115mm

Torsionally flexible and shock absorbing, extending machine life
- Optional nitrile, urethane, hytrel and spider elements available
- Axial, angular and offset misalignment capabilities
- Ensures machinery downtime is kept to a minimum therefore maintaining a continued process
- Wrap elements can be replaced without moving hubs on shafts

**Applications:** COMPRESSORS • PUMPS • CONVEYORS
**Tyreflex**
Interchangeable high misalignment tyre coupling

- Maximum torque: 6.27 kN.m
- Maximum bore: 150mm
- High misalignment capabilities ensuring high flexibility
- Shock absorbing – extending machine life
- Fire retardant anti-static (FRAS) elements for use in flameproof environment
- Easy replacement of tyre element without any need to move hubs axially on driven or driving shafts
- Interchangeability means no need for re-engineering

**Discflex**
Axially compact torsionally flexible disc coupling

- Maximum torque: 4.29 kN.m
- Maximum bore: 110mm
- Compact design, dimensionally small with a high power capacity
- Misalignment capabilities allowing flexibility during installation
- Alternative flexible elements available for wide design choice
- Optional fire retardant anti-static (FRAS) elements for use in flameproof environments

**Chainflex**
Long life covered chain coupling

- Maximum torque: 8.59 kN.m
- Maximum bore: 140mm
- Torsionally stiff for use as a positive drive connection
- All metal coupling for use in hostile environments
- Misalignment capabilities allowing flexibility in installation
- Easy removal of chain for high speed disconnection of driven and driving machines

**RBI**
Rubber-in-compression industrial coupling

- Maximum torque: 62 kN.m
- Maximum bore: 210mm
- Intrinsically fail safe
- Maintenance free
- Severe shock load protection
- Zero backlash
- Low lifetime costs

**Hydrastart**
Soft start fluid coupling

- Maximum torque: 3.5 kN.m
- Maximum bore: 150mm
- Pinflex and Gearflex flexible couplings and vee pulley designs
- Soft start allowing the motor to accelerate unloaded
- Reduces motor size and drive package cost
- Delay fill (twin chamber) version - further reducing start-up torque
- Non-contact sensor available for clean overload protection
SA/SB  
**Light to medium duty sprag clutches**

**SA:**  
41Nm  
16mm

**SB:**  
2.17 kN.m  
50mm

SO/SX  
**High quality, long life sprag clutches**

**SO/SX:**  
36.6 kN.m  
180mm

SHCT  
**Long life sprag clutch holdbacks/backstops**

759.3 kN.m  
500mm

DM Internal Backstops  
**Backstops**

**DM:**  
3.41 kN.m  
101.6mm

REUS/REUSNU  
**Interchangeable trapped roller freewheel**

**REUS:**  
A roller-type freewheel which is non-bearing supported

REUS range designed with the same outside dimensions as standard 62 series bearings

All types stocked pre bored and keyed to standard motor shaft sizes

Dimensionally interchangeable with other leading manufacturers’ equivalent units

**REUSNU:**  
A roller type freewheel which is non bearing supported

REUSNU designed with the same outside dimensions as standard 63 series bearings

Dimensionally interchangeable with other leading manufacturers’ equivalent units

REUK  
**Interchangeable range of ball bearing freewheel clutches**

325Nm  
40mm

- Freewheels
Global power transmission

Renold is a global engineering group with over 130 years of experience in the design and manufacture of high-quality power transmission products and application-specific solutions.

Application knowledge and engineering expertise, together with global manufacturing and service, ensures that Renold is your ideal partner – whatever your industry need. It is this unique industry experience gained in demanding global environments that makes the vital difference.

Our skilled engineers work closely with customers to provide a wide range of solutions for critical, real-life applications. Solutions that are proven to stand the test of time – that is why we believe in the principle: 'Engineering for Life'.
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