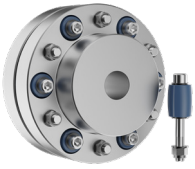




## Renold Couplings & Clutches

[Overview Brochure](#)

**RENOLD** | Couplings



### Pinflex

Pin and buffer coupling – compact, robust and adaptable

32.5 kN.m 260mm

- Strong yet compact steel half bodies
- Heavy duty pin and buffer coupling suitable for shock load conditions
- Maintenance free – minimum number of wearing parts, no lubrication
- Easy installation and maintenance with misalignment capability
- Polyurethane buffers; reliable, flexible and temperature resistant

PUMPS | CRANES | CONVEYORS | SCREENS | ESCALATORS



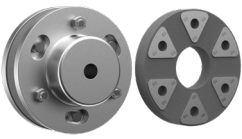
### Crownpin

Pin and buffer coupling – heavy duty with large range of available sizes

249 kN.m 300mm

- Heavy duty pin and buffer coupling suitable for shock load conditions
- Neoprene rubber buffers; robust flexibility
- Maintenance free – minimum number of wearing parts, no lubrication
- Easy installation and maintenance with misalignment capability
- Caters for large range of shaft sizes and torque requirements

PUMPS | CRANES | CONVEYORS | SCREENS | ESCALATORS



### Discflex

Disc coupling – axially compact and torsionally flexible

4.29 kN.m 110mm

- Wide design choice – alternative flexible elements
- Fire retardant anti-static elements available
- Compact design – small with a high power capacity
- Easy install – misalignment capabilities
- Maintenance free – no lubrication required

BOTTLING MACHINES | COMPRESSORS | MIXERS | PUMPS



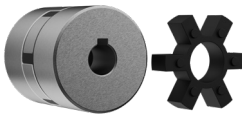
### Tyreflex

Tyre Coupling – high misalignment and interchangeable with range of manufacturers

6.27 kN.m 150mm

- High misalignment capabilities through tyre element
- Extends machine life – shock absorbing
- Easy replacement of tyre element without any need to move hubs axially
- Interchangeable with a range of manufacturers

COMPRESSORS | PUMPS | GENERATOR SETS | FANS



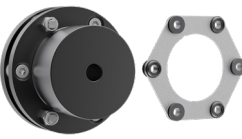
### Spiders

Elastomer Spider/Jaw Style Couplings – Interchangeable with a range of manufacturers

10.77 kN.m 115mm

- Available in a range of options interchangeable with other manufacturers
- Extend machine life – torsionally flexible and shock absorbing
- Compact design with high torque capacity
- Wrap elements allow for easy assembly and maintenance

COMPRESSORS | PUMPS | CONVEYORS



### Renoldflex

Rigid Coupling – All metal coupling with misalignment capability, zero backlash and torsionally stiff

46 kN.m 180mm

- Maintenance free
- Suitable for hostile environments – all metal coupling
- Extremely precise – zero backlash and torsionally stiff
- Atex rated and API options. Can cope with high temperatures up to 240 degrees celsius
- Many spacer and set up options to ensure perfect fit with your application

MACHINE TOOLS | PRESSES | MOTOR DRIVES



### Chainflex

Covered Chain Coupling – long life and easy installation

8.59 kN.m 140mm

- Positive Drive Connection – torsionally stiff
- Suitable for hostile environments – all metal coupling
- Easy connection/disconnection of driven and driving machines
- Renold Chain for industry leading life
- Extra misalignment capability through custom sprockets

FANS | FEEDERS | KILN DRYERS | LINE SHAFTS



### Gearflex

Gear Coupling – huge torque capability

7595 kN.m 840mm

- Heavy duty, long life, high strength all carbon steel coupling
- Interchangeable design – AGMA standard series and flange fixing design
- High misalignment range available up to 6 degrees
- Suits all application requirements – single and double engagement types available
- Suitable for demanding applications – multiple design variations available

CRANES | MINE DRIVES | STEEL ROLLING MILLS | QUARRIES



## Hydrastart

Fluid Coupling – soft start

3.5 kN.m 150mm

- Protects valuable equipment with soft start up
- Reduces motor size and drive package costs
- Soft start up allows motor to accelerate unloaded
- Overload protection – fusible plug or non-contact sensor
- Delay fill version – further reduces start up torque

CONVEYORS | MIXERS | CRUSHERS

**New Drop-in Hydrastart available from stock. Modular design can be installed without moving existing equipment.**



## RBI

A great off the shelf rubber in compression coupling

62.5 kN.m 210mm

- Low cost – smaller size for same torque
- Misalignment capacity and severe shock load protection through rubber in compression design
- 100% torque transmission in critical applications with a backlash free intrinsic fail safe design
- Lowest lifetime costs, no lubrication and in situ rubber block change from removeable covers

PUMPS | TABLE ROLLER DRIVES | CRANES AND HOISTS  
CONVEYORS | FANS | MIXERS | EXTRUDERS | SCREENS



## RB

A good all rounder with tuneable stiffness and Type Approval

41 kN.m 210mm

- Control of resonant torsional vibrations through a customisable coupling stiffness
- Misalignment capacity and severe shock load protection through rubber in compression design
- 100% torque transmission in critical applications with a backlash free intrinsic fail safe design
- Lowest lifetime costs, no lubrication and in situ rubber block change from removeable covers
- Type approved with BV, ABS, DNV and Lloyds

GENERATOR SETS | PUMP SETS | COMPRESSOR SETS  
FANS | MARINE | CRANES AND HOISTS | MIXERS



## PM

Heavy duty, robust and reliable for the most extreme industrial applications

7000 kN.m 815mm

- Control of resonant torsional vibrations through a customisable coupling stiffness
- Misalignment capacity and severe shock load protection through rubber in compression design
- 100% torque transmission in critical applications through intrinsic fail safe design
- Protection of connected equipment with overload consideration in design
- Extended life of assets and plant equipment through zero backlash design

PUMPS | FANS | CRANES AND HOISTS | CONVEYORS  
ROLLER MILL DRIVES | GRINDING MILLS



## HTB

A versatile and tuneable coupling with Type Approval and great user flexibility on build

120 kN.m 220mm

- Control of resonant torsional vibrations through a customisable coupling stiffness
- Misalignment capacity and severe shock load protection through rubber in compression design
- 100% torque transmission in critical applications through intrinsic fail safe design
- Improved protection with low torsional stiffness and low loads
- Reduced maintenance and assembly of plant equipment through blind assembly
- Performance in high temperatures (up to 200°C) through special rubber grades
- Type approved with BV, ABS, DNV and Lloyds

MARINE PROPULSION | GENERATOR SETS | PUMP SETS  
COMPRESSOR SETS | RAIL TRACTION | OFF ROAD VEHICLES



## HTB-GS

All the benefits of the HTB but in a more compact unidirectional coupling

160 kN.m 220mm

- Control of resonant torsional vibrations through a customisable coupling stiffness
- Misalignment capacity and severe shock load protection through rubber in compression design
- 100% torque transmission in critical applications through intrinsic fail safe design
- Improved protection with low torsional stiffness and low loads
- Reduced maintenance and assembly of plant equipment through blind assembly
- Performance in high temperatures (up to 200°C) through special rubber grades
- Type approved with BV, ABS, DNV and Lloyds

MARINE PROPULSION | GENERATOR SETS | PUMP SETS  
COMPRESSOR SETS | RAIL TRACTION | OFF ROAD VEHICLES



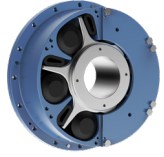
### DCB

For large marine and industrial applications a robust product with Type Approval

 1670kN.m  475mm

- Control of resonant torsional vibrations through a customisable coupling stiffness
- Misalignment capacity and severe shock load protection through rubber in compression design
- 100% torque transmission in critical applications through intrinsic fail safe design
- Protection of connected equipment with overload consideration in design
- Type approved with BV, ABS, DNV and Lloyds

GENERATOR SETS | PUMP SETS | COMPRESSOR SETS  
MARINE | MARINE PROPULSION



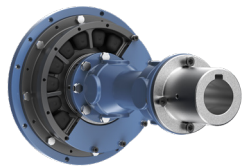
### DCB-GS

All the benefits of the DCB coupling but in a more compact unidirectional package

 2540kN.m  570mm

- Control of resonant torsional vibrations through a customisable coupling stiffness
- Misalignment capacity and severe shock load protection through rubber in compression design
- 100% torque transmission in critical applications through intrinsic fail safe design
- Protection of connected equipment with overload consideration in design
- Type approved with BV, ABS, DNV and Lloyds

GENERATOR SETS | PUMP SETS | COMPRESSOR SETS  
MARINE | MARINE PROPULSION



### UJ flexible coupling

When high misalignment needs combining with rubber in compression

 54 kN.m

- Control of resonant torsional vibrations through a customisable coupling stiffness
- High misalignment capacity and severe shock load protection through rubber in compression design
- 100% torque transmission in critical applications through backlash free intrinsic fail safe design
- Enhances equipment's lifetime by adding damping into the driveline

MARINE | PUMPS | OFFROAD VEHICLES | VEHICLES  
RAIL TRACTION ENGINES | MILLS



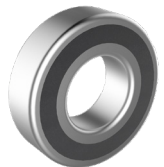
### Sprag clutches

Sprag clutch – high quality, long life clutches

 36.6 kN.m  180mm

- Provides Overrunning, Backstopping and Indexing functionality
- Sealed for life – maintenance free options available
- Range of design options available to suit application requirements
- Fully interchangeable, easy to fit backstop arms available
- Dimensionally interchangeable with other manufacturers units

BUCKET ELEVATORS | CONVEYORS | FANS  
LEISURE RIDES | ASSEMBLY LINES



### Freewheel

Freewheel based clutch interchangeable with a range of standard bearings

 325 kN.m  40mm

- Dimensionally interchangeable with huge range of standard bearing sizes
- Large range of keyways/seals to suit application
- Sealed for life options available
- Cost effective and reliable solution
- Stocks held pre bore and keyed to standard motor sizes

PACKAGING AND PRINTING MACHINES | BUCKET ELEVATORS  
INCLINED CONVEYORS



### Holdback

Holdback/backstop – long life sprag clutch

 759.3 kN.m  500mm

- Lower cost of ownership through use of long life components
- Able to accommodate large bores and high torque capacity in compact design
- Quick disconnect mounting pins for fast torque arm removal
- Enhanced labyrinth sealing for hostile environments
- Grease or oil lubrication options available on all sizes

INCLINED AND OVER-LAND BULK MATERIAL  
HANDLING CONVEYORS

 Maximum torque

 SAE Flange

 Bore and Keyed

 Splined

 Maximum bore

 DIN Flange

 Taper Bore

 Pulley

These are included within the standard product range. For bespoke needs please contact Renold.



## 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’.

### Factory services include:

- Bespoke Engineering
- Non-Linear Finite Element Analysis
- Torsional Vibration Analysis
- Balancing
- Testing and verification

## Get in touch

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