

Couplings & Freewheel Clutches. Product Range



- Standard Range
- Custom Design

RENOLD
Engineering for Life

RENOLD SUPERIOR COUPLINGS



CROWN PIN HEAVY DUTY PIN AND BUSH COUPLING

Max torque 249400Nm. Max bore 300mm

- Heavy duty pin and buffer coupling, suitable for shock loads.
- Neoprene buffers for robust flexibility.
- Torsionally flexible - shock absorbing, extending machine life.
- Maintenance free - minimum number of wearing parts.
- Axial, angular and offset misalignment capabilities.

Typical applications: Pumps, cranes, conveyors, screens, escalators

PINFLEX COMPACT STEEL HUB PIN AND BUSH COUPLING

Max torque 32500Nm. Max bore 260mm

- Heavy duty pin and bush coupling suitable for shock loads.
- Long life metal sleeved urethane (blue) and high temp hytrel (white) buffers available.
- Torsionally flexible - shock absorbing extending machine life.
- Maintenance free - minimum number of wearing parts.
- Taper bored hubs available for ease of maintenance.
- High quality steel hubs enabling larger bore capacity against cast iron designs.

Typical applications: Pumps, cranes, conveyors, screens, escalators



GEARFLEX VERY HEAVY DUTY GEAR COUPLINGS

Max torque 4747000Nm. Max bore 840mm

- AGMA standard series, cost effective interchangeable flange fixing design.
- Crowned and barrelled teeth for optimum tooth contact and long life.
- Single (flex-rigid) and double (full flex) engagement types available.
- Customised designs, mill motor, shearpin, disc brake, telescopic available.
- Cardan shaft and flanged shaft spacers available for all sizes.
- High torque to size ratio unmatched by any rubber element coupling design.

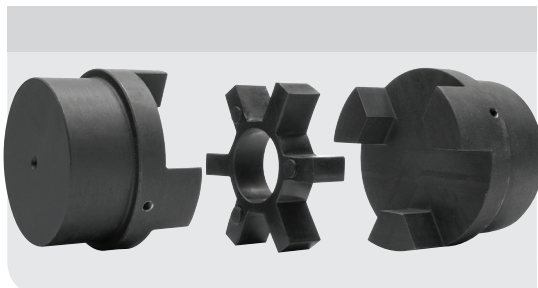
Typical applications: Cranes, mine drives, steel rolling mills, quarries

SPIDERFLEX INTERCHANGEABLE HIGH QUALITY CURVED JAW SPIDER COUPLINGS

Max torque 3150Nm. Max bore 115mm

- Torsionally flexible, shock absorbing, failsafe design.
- Optional fire retardant anti-static (FRAS) spider element.
- Maintenance free - minimum number of wearing parts.
- Taper bored hubs available for ease of maintenance.
- Axial, angular and offset misalignment capabilities

Typical applications: Compressors, pumps, conveyors



SPIDER JAW INTERCHANGEABLE HIGH QUALITY STRAIGHT JAW SPIDER COUPLINGS

Max torque up to 10770Nm (with hytrel spider element). Max bore 115mm

- Torsionally flexible, shock absorbing, failsafe design.
- Optional nitrile (standard), urethane, hytrel and bronze (ATEX) spider elements.
- Maintenance free - minimum number of wearing parts.
- Taper bored hubs available for ease of maintenance.
- Axial, angular and offset misalignment capabilities.
- Jaw wrap elements can be retro fitted.

Typical applications: Compressors, pumps, conveyors

SPIDER WRAP INTERCHANGEABLE HIGH QUALITY WRAP JAW SPIDER COUPLINGS

Max torque 10770Nm (with hytrel wrap element). Max bore 115mm

- Torsionally flexible, shock absorbing, failsafe design.
- Optional nitrile (standard), urethane and hytrel wrap elements.
- Maintenance free - minimum number of wearing parts.
- Taper bored hubs available for ease of maintenance.
- Axial, angular and offset misalignment capabilities.
- Wrap elements can be replaced without moving hubs on shafts.

Typical applications: Compressors, pumps, conveyors



RENOLD SUPERIOR COUPLINGS



TYREFLEX INTERCHANGEABLE HIGH MISALIGNMENT TYRE COUPLINGS

Max torque 6270Nm. Max bore 150mm

- Torsionally flexible, shock absorbing.
- Optional fire retardant anti-static (FRAS) tyre element.
- Maintenance free - minimum number of wearing parts.
- Taper bored hubs available for ease of maintenance.
- Very high axial, angular and offset misalignment capabilities.
- Tyres can be replaced without moving hubs on shafts.

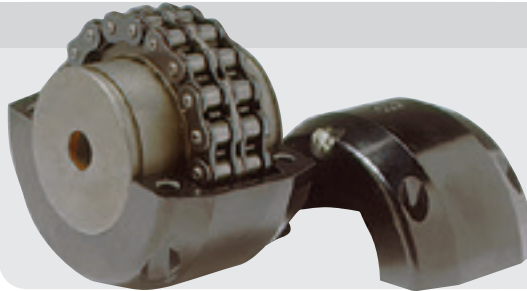
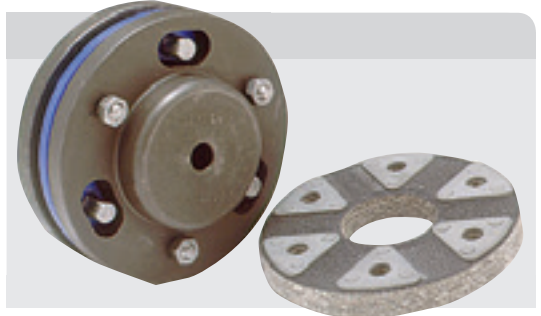
Typical applications: Compressors, pumps, generator sets, fans

DISCFLEX AXIALLY COMPACT TORSIONALLY FLEXIBLE DISC COUPLING

Max torque 4298Nm. Max bore 110mm

- Torsionally flexible, shock absorbing, failsafe design.
- Optional fire retardant anti-static (FRAS) disc element.
- Maintenance free - minimum number of wearing parts.
- Taper bored hubs available for ease of maintenance.
- Axial, angular and offset misalignment capabilities.

Typical applications: Bottling machines, compressors, mixers, pumps



CHAINFLEX LONG LIFE COVERED CHAIN COUPLING

Max torque 8596Nm. Max bore 140mm

- Torsionally stiff for use as a positive drive connection.
- Hardened sprocket teeth, long life and high torque capacity.
- Taper bored hubs available for ease of maintenance.
- Axial, angular and offset misalignment capabilities.
- Sealed cover for protection in hostile environments.
- Easy chain removal for high speed change of drives.

Typical applications: Fans, feeders, kiln dryers, line shafts

RIGID HIGH QUALITY FITTED BOLT RIGID COUPLING

Max bore 290mm

- Fitted bolt, high torque capacity design.
- Taper bored hubs available for ease of maintenance.
- Maintenance free - zero wearing parts.

Typical applications: Line shafts, conveyors



RENOLDFLEX ALL STEEL TORSIONALLY RIGID DISC COUPLING

Max torque up to 46000Nm. Max bore 180mm

- Torsionally stiff, ideal for use on precision machines.
- Maintenance free - minimum number of wearing parts.
- Axial, angular and offset misalignment capabilities.
- High speeds up to 12000 rpm.
- High operating temperatures up to 240°C.
- Spacer version up to 3m available.

Typical applications: Pumps, servo motors, machine tools, presses



HYDRASTART SOFT START FLUID COUPLING

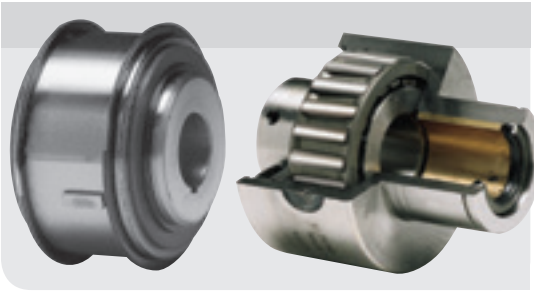
Max power up to 694Kw at 1800rpm. Max bore 150mm

- 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.
- 'Drop in' Renoldflex design for interchangeability.
- Non-contact sensor available for clean overload protection.

Typical applications: Mixers, conveyors, crushers



RENOLD SUPERIOR FREEWHEELS



SA/SB LIGHT TO MEDIUM DUTY FREEWHEEL SPRAG CLUTCHES

SA - Max torque 41Nm. Max bore 16mm

- SA units suitable for all small machine applications due to compact design.
- Grease lubricated, sealed for life with hardened chromised steel sprags as standard.
- Dimensionally interchangeable with other leading manufacturers' equivalent units.

Typical applications: Light duty pumps, fans and blowers, printing and textile machines

SB - Max torque 2171Nm. Max bore 50mm

- High quality robust design with keyway spigot for ease of fitting drive medium.
- Grease or oil lubricated designs available with hardened chromised steel sprags as standard.
- Dimensionally interchangeable with other leading manufacturers' equivalent units.

Typical applications: Pinch rollers, textile machinery, mixer drives, pumps, fans

SO/SX - HIGH QUALITY, LONG LIFE FREEWHEEL SPRAG CLUTCHES

SO/SX - Max torque 36600Nm. Max bore 180mm

- SO clutches, oil or grease lubricated suitable for overrunning and backstopping.
- SX clutches, oil or grease lubricated suitable for heavy duty indexing applications.
- All sizes fitted with wide hardened chromised steel sprags as standard for long life.
- Sealed for life options available on all sizes.
- Dimensionally interchangeable with other leading manufacturers' equivalent units.
- Fully interchangeable, easy to fit backstop side torque arms available for all sizes.

Typical applications: Bucket elevators, paper machinery, conveyors, presses, fans, leisure rides



SHCT - LONG LIFE FREEWHEEL SPRAG CLUTCH HOLDBACKS / BACKSTOPS

SHCT - Max torque 759300Nm, Max bore 500mm

- SH range designed with long life components for lower overall operating costs.
- Dimensionally interchangeable with other leading manufacturers' equivalent units.
- 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
- Axial shaft locking collars available for all sizes.

Typical applications: Inclined and over land bulk material handling conveyors.

DM Internal Backstops and REGP Sprag Cages

DM Max torque 3417Nm. Max bore 101.6mm

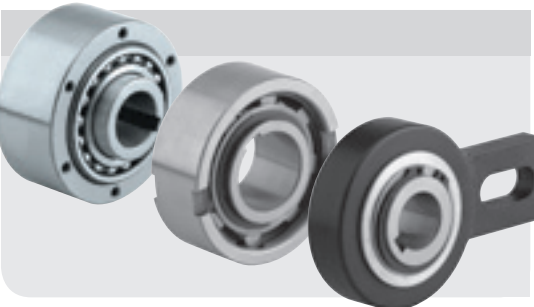
- High torque capacity yet compact direct shaft mounting.
- Dimensionally interchangeable with other leading manufacturers' equivalent units.
- All sizes fitted with wide hardened chromised steel sprags as standard for long life.

Typical applications: Inclined conveyors, pumps

REGP Cages Max torque 4875Nm

- High torque capacity but compact design.
- Capability to fit cages side by side to increase torque capacity.
- Dimensionally interchangeable with other leading manufacturers' equivalent units.

Typical applications: Converting, printing and welding machinery, winch drives



Trapped Roller Clutches - INTERCHANGEABLE RANGE OF TRAPPED ROLLER FREEWHEELS

Available in a number of design types suitable for all overrunning, backstopping and indexing applications.

- Dimensionally interchangeable with other leading manufacturers' equivalent units.
- REGV Integrated torque arm types for backstopping and indexing.
- REGL base units for use with range of different end plates and torque arms for flexibility.
- All types stocked pre bored and keyed to standard motor shaft sizes.
- High speed overrunning of outer race
- REUS range designed with same outer dimensions as 62 ball bearings.
- Bore sizes up to 150mm

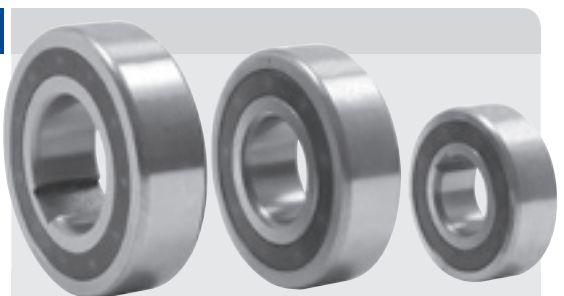
Typical applications: Packaging and printing machinery, bucket elevators, inclined conveyors

REUK - INTERCHANGEABLE RANGE OF BALL BEARING FREEWHEEL SPRAG CLUTCHES

REUK Max torque 325Nm. Max bore 40mm

- Dimensionally interchangeable with other leading manufacturers' equivalent units.
- Designed with the same outer dimensions as 62 ball bearings.
- REUK C with single keyway and REUK CC with additional outer race keyway ranges available.
- REUK 2RS with waterproof seals and REUK C 2RS with internal keyway ranges available.
- All types prefilled with grease and sealed for life.
- All types stocked pre bored and keyed to standard motor sizes.

Typical applications: Packaging, printing, agricultural and leisure machinery



Global Couplings & Freewheel Clutches

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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Superior Technology. Global Expertise.

www.renold.com

couplings@cc.renold.com



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