Spiderjaw and Spiderwrap 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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The **RENOLD** Collection

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**Spiderflex Coupling**
- Max power / 100 rpm (kW): 33 kW
- Max weight: 63 kg
- Max shaft size: 115 mm
- Max speed (rpm): 7,700 rpm
- Max outer diameter: 275 mm
- Max torque (Nm): 3,150 Nm

**SpiderJaw Coupling**
- Max power / 100 rpm (kW): 45 kW
- Max weight: 84 kg
- Max shaft size: 115 mm
- Max speed (rpm): 31,000 rpm
- Max outer diameter: 305 mm
- Max torque (Nm): 4,308 Nm

**SpiderWrap Coupling**
- Max power / 100 rpm (kW): 45 kW
- Max weight: 84 kg
- Max shaft size: 115 mm
- Max speed (rpm): 9,000 rpm
- Max outer diameter: 323 mm
- Max torque (Nm): 4,308 Nm

**Pinflex Coupling**
- Max power / 100 rpm (kW): 340 kW
- Max weight: 423 kg
- Max shaft size: 260 mm
- Max speed (rpm): 6,800 rpm
- Max outer diameter: 490 mm
- Max torque (Nm): 32,500 Nm

**Crownpin Coupling**
- Max power / 100 rpm (kW): 2,607 kW
- Max weight: 2,250 kg
- Max shaft size: 300 mm
- Max speed (rpm): 6,210 rpm
- Max outer diameter: 1,220 mm
- Max torque (Nm): 249,400 Nm

**Tyreflex Coupling**
- Max power / 100 rpm (kW): 66 kW
- Max weight: 49 kg
- Max shaft size: 150 mm
- Max speed (rpm): 4,500 rpm
- Max outer diameter: 470 mm
- Max torque (Nm): 6,270 Nm

**Discflex Coupling**
- Max power / 100 rpm (kW): 45 kW
- Max weight: 67 kg
- Max shaft size: 110 mm
- Max speed (rpm): 2,900 rpm
- Max outer diameter: 324 mm
- Max torque (Nm): 4,298 Nm

**Chainflex Coupling**
- Max power / 100 rpm (kW): 90 kW
- Max weight: 85 kg
- Max shaft size: 140 mm
- Max speed (rpm): 3,500 rpm
- Max outer diameter: 357 mm
- Max torque (Nm): 8,595 Nm
The **RENOLD** Collection

**Rigid Coupling**
- Max power / 100 rpm (kW): 1,640 kW
- Max weight: 501 kg
- Max shaft size: 290 mm
- Max speed (rpm): 7,100 rpm
- Max outer diameter: 527 mm
- Max torque (Nm): 156,620 Nm

**A Series Gear Coupling**
- Max power / 100 rpm (kW): 1,640 kW
- Max weight: 443 kg
- Max shaft size: 260 mm
- Max speed (rpm): 7,100 rpm
- Max outer diameter: 527 mm
- Max torque (Nm): 156,620 Nm

**D Series Gear Coupling**
- Max power / 100 rpm (kW): 2,209 kW
- Max weight: 374 kg
- Max shaft size: 197 mm
- Max speed (rpm): 518 mm
- Max outer diameter: 211,000 Nm

**Hydrastart Coupling**
- Max power / 100 rpm (kW): 39.1 kW
- Max weight: 207 kg
- Max shaft size: 127 mm
- Max speed (rpm): 3,500 rpm
- Max outer diameter: 751 mm
- Max torque (Nm): N/A

**Hydrastart Drop-in Coupling**
- Max power / 100 rpm (kW): 39.1 kW
- Max weight: N/A
- Max shaft size: 110 mm
- Max speed (rpm): 2,500 rpm
- Max outer diameter: 751 mm
- Max torque (Nm): N/A

**Renoldflex**
- Max power / 100 rpm (kW): 482 kW
- Max weight: N/A
- Max shaft size: 180 mm
- Max speed (rpm): 345 mm
- Max torque (Nm): 46,000 Nm

**Rigid Coupling**
- Max power / 100 rpm (kW): 2,209 kW
- Max weight: 374 kg
- Max shaft size: N/A
- Max speed (rpm): 3,730 rpm
- Max outer diameter: 930 mm
- Max torque (Nm): 54,000 Nm

**Croft MB Gear Coupling**
- Max power / 100 rpm (kW): 565 kW
- Max weight: 560 kg
- Max shaft size: 220 mm
- Max speed (rpm): 3,730 rpm
- Max outer diameter: 930 mm
- Max torque (Nm): 54,000 Nm
**Spiderjaw and Spiderwrap**

A medium power torsionally flexible coupling combining shock absorbing and misalignment capacity, used in the widest range of industries and applications

**Coupling capacity**
- Maximum power @ 100rpm: 45kW
- Maximum torque: 4308Nm

**Features and benefits**
- Torsionally flexible - shock absorbing, extending machine life
- Maintenance free - minimum number of wearing parts
- Misalignment capabilities allowing flexibility in installation
- Jaw Wrap allows external wrap fitting of elastomeric element
- Cost effective - offering low cost product with a high quality design
- Jaw Wrap ensures machinery downtime kept to a minimum so ensuring continued process
- Dimensionally interchangeable with other Spider Jaw Couplings - Lovejoy, Browning & Fenner
- Taper bush bores available for ease of maintenance
- Compact design - small, with high torque capacity

**Standard range comprises**
- Shaft to shaft
- Taper bush
- Pilot bored
- Bored and keywayed to customers requirements

**Applications**
- Bulk handling
- Compressors
- Generator sets
- Metals manufacture
- Pumps
- Conveyor drives
- Paper converting
- Logging
- General industrial applications

**Elements available include:**
- Nitrile Rubber (Standard), Shore hardness 80A
  Temp range: -40°C to +100°C
- Urethane,
  Shore hardness 90-95A
  Temp range: -40°C to +80°C
- Hytrel,
  Shore hardness 55D
  Temp range: -50°C to +120°C
- Bronze
  Max Speed - 250 rpm
  Temp range: -40°C to +230°C

**General misalignments**
- Parallel Offset
  - 0.4mm
- Angular
  - Nitrile Element 1°
  - Urethane Element 1°
  - Hytrel Element \(\frac{1}{2}\)°
  - Bronze Element \(\frac{1}{2}\)°

*Can be certified for use in potentially explosive atmospheres containing gas or dust, according to ATEX directive 94/9/EC.*

The couplings are classified for equipment group 2 category 2 GD equipment.

Contact Renold for further details.
**Spiderjaw**

![Diagram of Spiderjaw](image)

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<th>Speed Max rpm</th>
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*1 Power and Torque values quoted are for Nitrile Rubber elements (NBR).

Urethane elements have around 1.5 times the torque capacity, but provide less damping effect.

Hytrel elements offer around 2.5 times the torque capacity but have even less damping effect and are best used for continuous load applications rather than cyclic or stop/start situations.

Please contact Renold technical department for more information on these alternative element materials.

**Ordering code**

- **Half Body**: SPDR 110 HBDY CI
- **Element Kit**: SPDR 110 ELMT NI

- **Material**
  - SI - Sintered Iron (Sizes SPDR35 - SPDR75)
  - CI - Cast iron (Sizes SPDR95 - SPDR350)
  - AL - Aluminium (Sizes SPDR70 - SPDR110)
  - NI - Nitrile (All sizes)
  - UR - Urethane (Available for sizes SPDR50 - SPDR295)
  - Hy - Hytrel (Available for sizes SPDR50 - SPDR295)

*www.renold.com*
Power and Torque values quoted are for Nitrile Rubber elements (NBR). Urethane elements have 1.5 times the torque capacity, but provide less damping effect. Hytrel elements offer 2.5 times the torque capacity but have even less damping effect and are best used for continuous load applications rather than cyclic or stop/start situations.

Please contact Renold technical department for more information on these alternative element materials.

Statement:
When ordering a complete coupling you should select two half bodies and one element. If in doubt refer to Renold Sales.
The best range of solution chain products available anywhere

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

**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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