Power Transmission Solutions

Specialists in chain, gears and couplings
Renold products
Unique quality and performance

“Behind every conceivable industry and application environment; heavy or light duty, indoor or outdoor, clean or contaminated, high or low temperature, Renold is hard at work delivering performance and increasing productivity.”

Leading edge technology
Renold provides practical cost effective solutions, with a commitment of value through quality. This is achieved by continuous investment in people, process technology and manufacturing.

Consistent reliability
Renold’s has more than 125 years of experience in the design and manufacture of power transmission products, to the highest specifications, with proven performance in diverse industries worldwide, which underwrites the guaranteed quality and the assurance of reliability.

Package solutions
One stop for your drive systems, including roller and conveyor chain, gears, motors, couplings, variators and fabricated bases.

Service excellence and care
Renold offers a unique level of service excellence and customer care. Our experienced applications engineers will select the optimum solution with the aid of the latest computer and design technology. Renold is the name for service, care and peace of mind.
Special solutions and innovations
Renold is recognised throughout industry for its ability to create specific solutions to customers’ unique requirements. International companies and industries from steel to food processing to escalators to textile machinery have chosen Renold to solve their problems.

Local and international availability
The Renold organisation stretches world-wide.
• More than 20 National Sales Companies
• Nearly 100 Overseas Distributors offering the comprehensive Renold range of power transmission products, directly or through local distributor networks.

Approvals and Quality Assurance
Our manufacturing sites for Chain, Gears and Couplings are certified to ISO 9001:2008. Our roller chain manufacturing sites are certified to ISO 14001:2004. We are also able to manufacture to the specifications required by API and BAE.
Transmission chain

Solution range overview

**Renold Stainless Steel chain**

With a superior corrosion resistant coating, Renold Hydro-Service is an alternative choice to stainless steel.

**Nickel plated**

Ensuring extended working life for mildly corrosive environments nickel plated chain made to Renold specifications is specified for applications worldwide.

**Stainless steel**

Renold Stainless Steel chain is designed for environments where corrosion resistance is paramount.

**Syno™**

Renold Syno chain sets a new benchmark for chain performance with little or no lubrication.

The range includes two sintered bush versions and a totally unique, lubricant-free polymer bush version.

**Specialist chain**

Renold’s range of roller chain is extensive and the most popular products are featured here. Renold also offer tailor-made, specialist chain to suit every application.

**Synergy™**

Offering unbeatable wear resistance and fatigue performance capabilities, Renold Synergy is designed to maximise productivity and minimise downtime.
Renold roller chain is highly fatigue resistant, giving up to four times the life of other leading competitor chains.

If you are looking for a good quality product from a reliable supplier for "standard duty" chain applications, look to Renold SD for consistent reliability.

Standard chain and accessories

Renold
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Attachment chain
The most comprehensive range available. Many attachments available from stock with dedicated production facilities to meet customer demands whilst offering extensive experience and flexibility.

Roll-Ring
The innovative, award-winning Roll-Ring chain tensioner is based on new principles and represents a major advance in chain tensioning technology.

Smartlink
Unique load analysis technology for the detection and diagnosis to ensure smooth running. Identify problems with alignment and pin-point potential causes of reduced chain life.

Leaf chain
Renold has more than 100 years experience in the operation and maintenance of lifting chain. Involvement with designers, manufacturers and users of all types of equipment has enabled Renold to develop comprehensive ranges used worldwide for safety-critical lifting applications.
Conveyor chain

Range overview

Welded steel and drag chain

There are two main types of chain, Type W for drives and conveyors and Type WD for drag and scraper applications.

Escalator

Manufactured to specific customer designs the range is separated into two categories for light duty retail store use and heavy duty public transport applications.

Agricultural

Produced to ISO/DIN standard and also a range of Works Standard chains used mainly on agricultural harvesting equipment.

The standard range consists of eight chain types with pitches ranging from 1.15 inch (29.21mm) to 2.609 inch (66.27mm).

Steel knuckle chain

A USA-designed range of heavy duty, robust, detachable elevator bush chains fitted with integral K type attachments.

Customised engineering chain

Covering a wide range of products to suit specialised applications these solutions often using a mix of high specification materials and treatment processes to meet the demands of the particular application.

Standard Conveyor Chain

Manufactured to international standards; BS British Standard, STR Steel Thimble Roller to USA designs and ISO to European design.

Within the range are numerous pitch alternatives with breaking loads ranging from 13 to 900 kN as std.
Applications

**Theme Park**
Renold manufacture chains to the highest specification for both water and roller coaster applications. Our chain design developments have exceeded the increasing demands for higher payloads and greater speeds.

**Sugar**
A wide range of engineered standard and bespoke chains for all applications throughout both cane and beet sugar mills. Renold have considerable experience and expertise in chain design for these arduous applications.

**Cement**
Renold produce a comprehensive range of Cement mill chain for elevators, apron feeders, reclaim and clinker conveyors, proven in the harsh and abrasive applications of a modern cement mill. A full inspection and site assessment service is available from our experienced application engineers.

**Agriculture**
Suppliers to some of the world’s largest harvesting OEMs, Renold attention to design, materials and heat treatment results in its range of agricultural chains giving the highest level of performance.

**Water Treatment**
A full range of products for sewage and water treatment plants manufactured using stainless, and carbon steels or a combination of both with various corrosion protective coatings is available.
Gears & drives
Right angled units

PM Series

The range offers the ultimate in versatility and durability with a modern compact design allowing direct mounting of standard IEC and NEMA motors.

HC series
State of the art heavy duty helical and bevel/helical units using case hardened and ground gears throughout, 14 sizes to 1000KW (1340HP).

TW series
Rugged gear unit for arduous application 10" to 28" (nominal 254mm to 710mm) centre distance available as single and double reduction units with power supply to 1361KW (1824HP).

WM series
WM Series is available with imperial 4" - 9" centres and metric 100mm - 200mm centres, with ratios of 5:1 to 70:1 as a single reduction unit and 75:1 to 4900:1 as a double reduction. Foot, flange and shaft mounted types available.

JPM
Wormgear units with sizes from 1.125" to 3.0" centre distance, up to 6.66KW capacity.
In-line & variable speed units

**RF Series**
Shaft mounted helical gear units, available with a direct range mounted motor with ratios up to 300/1 and power capacities up to 7.5kW.

**RP Series**
In-line helical geared motor and speed reducer units with ratios of up to 363:1 and 22kW capacity.

**SMXtra**
A range of Shaft Mount Helical Gear Units available with a parallel hollow output shaft, or the unique Renold quick release bush which enables very easy installation and removal of the positive key drive. Options include integral hold backs, motor mounting platforms and parallel shaft sleeve diameter reducing bushes. Also available are options of input and output shaft enhanced sealing.

**Carter gear**
Hydrostatic variable speed drive units up to 37kW.

Loose Gears

**Worm Gear Sets**
Renold is expert in producing high quality bespoke worms and wormwheels to either commercial or precision grades for a wide variety of applications.
**Couplings**

**Industrial Shaft Couplings**

**Hydrastart Fluid coupling**

Fluid soft start couplings available in many sizes and types up to 700KW (950HP) capacity.

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**Gearflex**

Single and double arrangement, standard and heavy duty series types up to 60,000KW (80,000HP) capacity.

**Renoldflex**

A new range of couplings that utilise a stainless steel spring disc pack to provide a positive ‘backlash free’ drive, up to 68kW capacity.

**Crown pin**

**Pinflex**

**Sprag Clutches**

Enhanced performance from the optimised, compact sprag design enabling high torque, zero backlash, long life and low maintenance costs.

**Sprag clutch couplings**

Two versions available using Pinflex and Gearflex couplings for total flexibility on shaft-to-shaft transmission drives.

**Pin & buffer style**

Comprehensive range of shaft couplings including pin and buffer, spider, tyre, disc, chain and gear types available - the widest range from a single source.

**Trapped Roller**

Available in a number of design types suitable for all backstop, indexing and over-running applications.
Engineered Couplings
Torsionally flexible and mass transit

**VF couplings**

The highly flexible VF coupling has been designed for diesel engines that are mounted separately from the marine gear and which can be placed on flexible mounts. These flexible mounts provide optimum isolation of the vibrations of the diesel engine from the hull.

**DCB GS**

The DCB-GS flexible couplings are designed to couple medium speed diesel and gas engines to alternators, pumps and compressors.

**Mass transit couplings**

Renold Ajax is the leading North American manufacturer of Traction Couplings for Subway Rail Cars, having produced more than 20,000 units over the past 35 years for use in many cities in the US, Singapore, Malaysia, Brazil, and Korea.

**RB & PM couplings**

Heavy duty industrial couplings providing exceptional protection against severe shock load and vibration.

**Steel Mill spindles**

Renold Ajax is the industry leader in design and manufacturing of custom gear spindles and gear couplings. Continuing research and development, including finite element analysis and solid modelling design for each customer’s specification.