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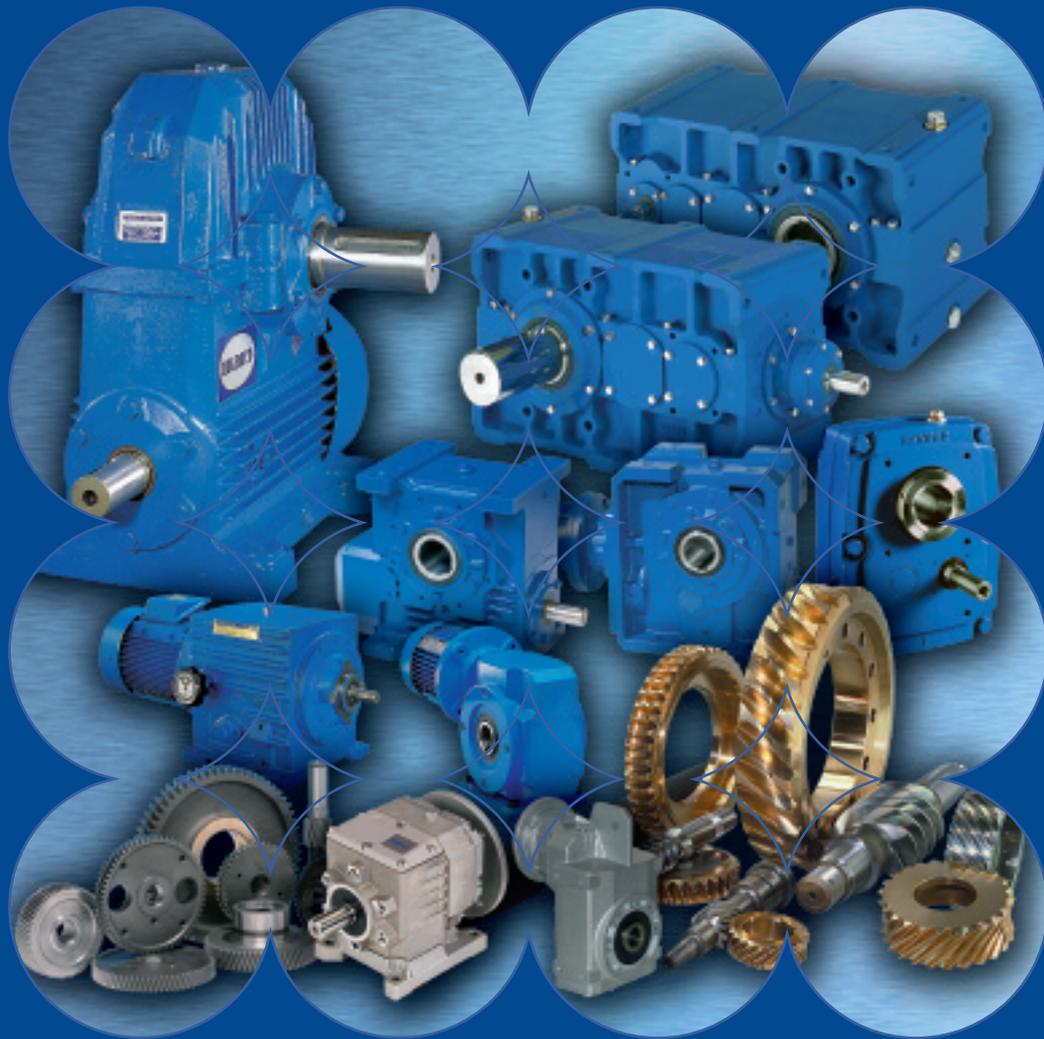
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RENOLD

Superior Gear Technology

General products brochure



RENOLD
Superior Gear Technology

Introduction

Approvals

Renold Gears is BS EN ISO 9001: 2000 approved. All products are designed and manufactured within this Quality Assurance System.

Leading edge technology

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

Consistent reliability

Renold 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. This underwrites our guaranteed quality and assurance of reliability.

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 Innovation

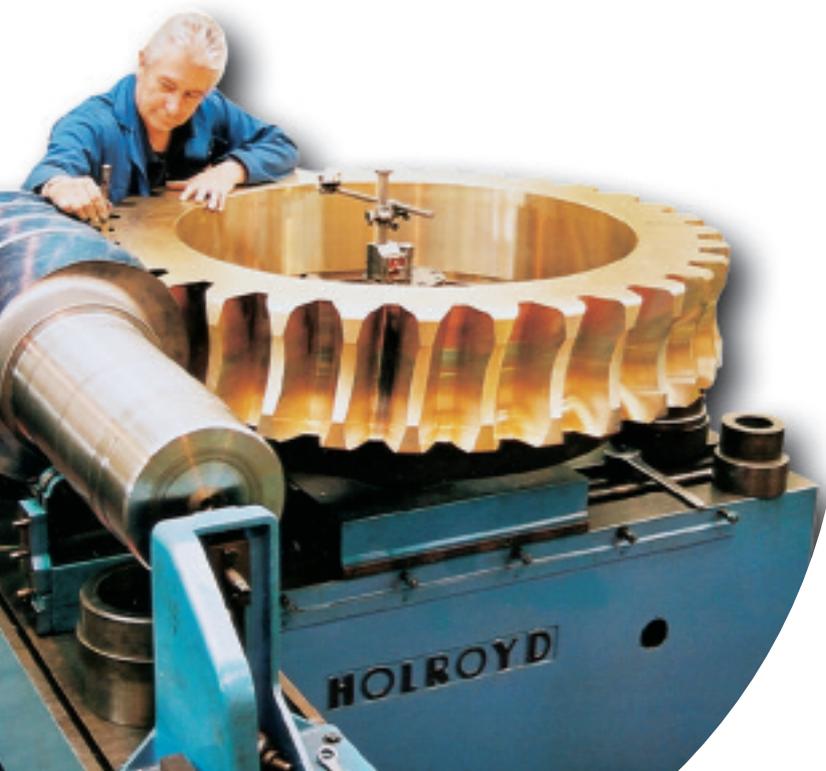
Renold is recognised throughout the industry for its capability to create specific solutions to customers' unique requirements.

International companies and industries from steel to food processing to escalators to textile machinery have chosen Renold to solve their problems.

Local & International Availability

The Renold organisation stretches world-wide.

- 23 National Sales Companies.
- Over 90 Overseas Distributors offering the comprehensive Renold range of power transmission products, directly or through local distributor networks.



Applications



Escalators

Renold drive packages which include worm gear units, transmission couplings and escalator chain are utilised by escalator manufacturers worldwide.

Mineral processing

Renold's shaft mounted and geared motor technology combined with innovative sealing solutions lead the world in quarrying applications.



Metal processing

In one of the most demanding applications in the world, Renold has led the market in custom made gear units and loose worm gear technology.



Lifts

Excellence in worm gear technology, combined with world leading edge technology in vibration limitations, ensure Renold traction units are used by the leading names in lift manufacture.

Automotive

Excellence in helical gear technology and exacting quality standards mean Renold is specified by some of the worlds leading engine manufacturers.



Power

Renold drives are used in every type of power generation, from the expanding number of coal power stations to the high specification nuclear industry.



Water treatment

Water treatment processes demand long life with minimum maintenance which is why the industry relies on Renold drives.

Machine tools

Renold developed the precision dual lead backlash adjustable worm gear form which is widely used in rotary tables, cutter drives and machine tool positioning mechanisms.



Material handling

Renold's range of foot and shaft mounted geared motors, using worm gear and helical technology, are used to drive everything from dockside cranes to cargo hoists.

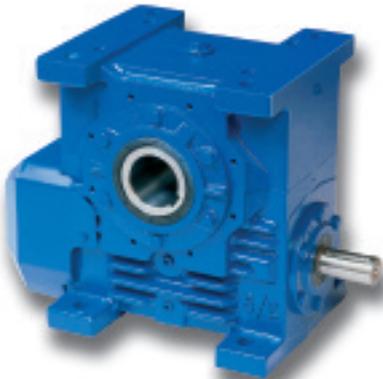
Right angle gear units



jPM

Worm gear units with sizes from 1.125" to 3.0" centre distance and power capacities up to 6.66kW.

- Available as worm or helical/worm options up to 300:1 ratio.
- Motorised and speed reducer types available.
- Direct mounting of IEC and NEMA motors.
- Variable mounting options allow design flexibility.
- Unique Holroyd tooth form profile for high efficiency and long life.
- Factory filled long life synthetic lubricant.



WM series

Worm gear units are available with imperial 4" - 9" centres and metric 100mm - 200mm centres with power capacities up to 115kW. Available 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.
- Agitator and cooling tower versions available for specific application.
- Unique Holroyd tooth form for high efficiency and product life.
- Integral sprag clutch holdback for inclined conveyor applications.



PM series

This series of gear units is available as a:

- single worm unit - type PW,
- helical/worm unit - type PH,
- helical/bevel/helical unit - type PB.

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

Available in 6 sizes with power capacities up to 84kW and gear ratios from 5:1 to 333:1.

- Motorised and speed reducer types available.
- Case design allows variable mounting options - foot, flange and shaft mounting available.
- Long life synthetic lubrication.



TW series

Worm gear unit for arduous applications with 10" to 28" centre distances. Power capacities up to 1361kW.

- Available as single and double reduction units.
- Variety of unit types enables flexibility with mounting positions - underdriven, overdriven, vertical, shaft mounted and agitator types available.
- Unique Holroyd tooth form provides high efficiency and long product life.
- Interchangeable external dimensions with many other deleted makes.
- Enhanced sealing options available on all sizes for hostile environments.
- Heavy duty design suitable for high torque applications.



HC series

State of the art heavy duty bevel/helical units using case hardened and ground gears throughout. 16 sizes available with power capacities up to 2300kW.

- Motorised and speed reducer types for all applications.
- Versatility within the range allows for underdriven and vertical mounting from the same unit.
- Foot, shaft and flange mounted types available.
- Custom made units, designed specifically for customer's applications, are available.
- Available as, double, triple and quadruple reduction with ratios up to 400/1.

In-line gear 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.

- Options include: output shafts, shrink disc, flange mounted and input shaft assembly.
- Interchangeable with leading European manufacturers.
- Direct mounting of IEC and NEMA motors.
- Double & triple reduction.
- Supplied with lubricant from the factory.



RP Series

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

- Designed to European standard, interchangeable without re-engineering.
- Direct mounting of IEC and NEMA Motors.
- Single, double or triple reduction.
- Full range of conversion feet and alternative shaft dimensions available.
- Motorised and speed reducer versions.
- Supplied with lubricant from the factory.



SMX^{tra}

Shaft mount helical gear units available with a hollow output bore, in 12 sizes with 5 ratio options per size. Power capacities up to 235kW.

- Options include integral hold backs, motor mounting platforms and parallel shaft sleeve diameter reducing bushes.
- Input and output shaft enhanced sealing available.
- Interchangeable, allowing fast and easy replacement.
- Parallel and taper bore options, easy removal for repair.



HC series

State of the art heavy duty helical units using case hardened and ground gears throughout. 16 sizes available with power capacities up to 11,000kW.

- Motorised and speed reducer types for all applications.
- Versatility within the range allows for underdriven and vertical mounting from the same unit.
- Foot, shaft and flange mounted types available.
- Custom made units, designed specifically for customer's applications, are available.
- Available as: single, double, triple and quadruple reduction with ratios up to 500/1.

Variable speed



Carter gear

Hydrostatic variable speed drive units up to 37kW.

- Proven reliability in hazardous environments.
- Electronic, pneumatic and manual controls allowing design flexibility.
- 27:1 stepless speed range.
- Accurate speed holding.

Gearbox Service and Refurbishment



- Renold undertakes, with the same exacting standards, repair of all makes and types of industrial gearboxes: helical, bevel helical and worm gear.
- Only Renold has instant access to historical records enabling us to save you time and money by quickly identifying and replacing worn out or damaged components. Dedicated internal sales staff ensure a fast and personal service.
- Planned maintenance downtime with pre-manufactured custom made gearing components.
- Reverse engineering of non Renold components ensures correct specification components are fitted without compromising quality.

Custom products



Worm gear sets

Renold is expert in producing high quality custom made worms and wormwheels to either commercial or precision grades for a wide variety of applications.

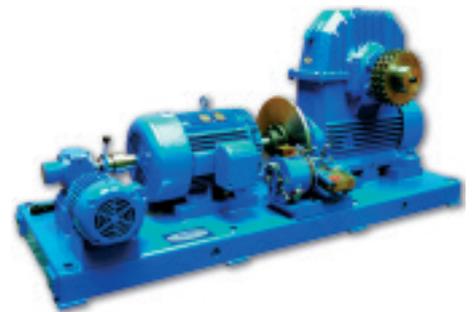
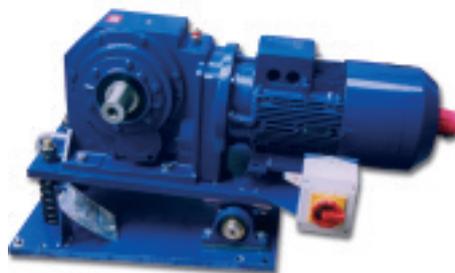
- Reduced backlash worm gears using dual lead technology.
- Made to order worm gears to customer's dimensions.
- Unique high efficiency Holroyd gear profile.



Helical gears

High precision helical gears up to DIN 1 standard.

- Single manufacture and high volume automotive production.
- Gear diameters up to 350mm.
Face width up to 160mm.



Engineered Solutions

With a global reputation for innovation and excellence, Renold is committed to helping clients achieve optimum manufacturing capability through advanced and streamline production processes. By continually working in partnership with its customers, Renold can identify their exact requirements before developing custom solutions.

Renold is an influential innovator throughout all sectors and is proud to offer a unique design and manufacturing capability. Supported by project management, we can ensure the best engineering solution to every customer's application requirements, reduce costs and add value to their equipment.

- Custom made drives.
- Package drives.
- Complete management.