Renold has 9 manufacturing sites and 24 sales operations across the globe. For more information, or to contact your local sales team go to www.renold.com
Leaders in chain technology
Power, precision and durability

From the inception of our business in the 19th Century when our founder, Hans Renold, invented the bush roller chain, Renold has continued grow and innovate and today we manufacture an enviable portfolio of the best-quality chains for power transmission and conveying.

All our products benefit from the same attention to detail, skills and expertise that have seen the Renold name become synonymous with quality, precision and engineering innovation.

Company Overview
- More than 120 years of experience in the design and manufacture of precision roller and engineering class chain
- 9 manufacturing sites in 8 countries
- Sales operations in 24 locations around the world
- Continuous investment in people, process technology and manufacturing
- Highest specifications, with proven performance in diverse industries worldwide
- One stop for drive systems, including roller and conveyor chain, gears, motors and couplings
- Experienced applications engineers ensure the optimum solution with the aid of the latest computer-assisted design technology.
- Over 100 overseas distributors
- ISO 9001 & ISO 14001 certified

Applications
Renold offer reliable, high performance chain solutions for the entire spectrum of theme park applications including:
- Roller coasters
- Water Ride Transfer Chain
- Water Ride Plain & Slatted Lift Chain
- Carousel rides
- Drag inclines for splash rides

Renold Theme Park Solutions
- Cranked Link Chain
- Welded Steel Chain
- Straight Side Plate Chain
- Water Ride Chain

Renold Solutions Offer
- Safe & dependable operation
- Cost effectiveness
- High reliability
- Excellent fatigue performance
- Durability & wear resistance
- Easy maintenance
- Resistant to corrosion
- Flexibility to use a wide range of attachments

For more information or to contact your local sales team visit www.renold.com
Renold provide solutions for the entire range of Theme Park applications – from the most straightforward to the most challenging.

Our experience and expertise in engineering design, metallurgy and heat treatment place us in the foremost position to provide the optimum solutions, whether standard or custom-designed product.

Leaders in chain technology
Power, precision and durability

Our products are carefully designed to provide the optimum combination of value and performance by deploying a range of manufacturing technologies and processes:

- Multi-hit holes deliver dependable fatigue performance by ensuring predictable & reliable interference fits between plates & round components
- Stake riveting provides greater chain ruggedness through secure interfaces between plates & round components
- Cottered pin options simplify maintenance by allowing removal and replacement of individual pins.

- Through-hardened pins provide excellent fatigue performance through greater material hardness & strength
- Induction-hardened pins optimise fatigue and wear performance by providing precise control of material hardness
- Cranked link design enables compact chain design with good power handling characteristics at lower speeds
- Straight sidebar designs exhibit higher tensile strength, improved fatigue performance and enable faster running

- Grease gun lubrication improves service life by protecting bearing surfaces from corrosion and abrasion
- Honed bush bores contribute to enhanced wear performance by optimising the interface between bush and pin components
- Case-hardened barrels improve wear performance at higher loads, providing the optimum balance between material hardness and tensile strength
- Shot peening extends fatigue performance through pre-stressing of plate components

For more information or to contact your local sales team visit www.renold.com

www.renold.com
Applications
Chain for use with dry roller coaster rides

Roller coaster chain
Standard

Features
- Multi-hit holing
- Stake rivet options
- Cottered pin options
- Through hardened pins
- Cranked link design
- Welded steel variants available
- Supplied with certificate of conformity & inspection certificate

Performance
- Fully compliant with industrial standards
- Durable wear performance

Beginning with tightly defined raw material specifications right through to tightly controlled component geometries, Renold set the standard for safe, dependable and durable chains for Roller Coaster applications.

In it for the long haul
Renold has a long and proven history in the supply of custom and standard chain solutions for the Theme Park industry. Our work begins with close customer involvement, using our experience and application know-how to develop carefully optimised solutions.

<table>
<thead>
<tr>
<th>Product</th>
<th>Pitch [mm]</th>
<th>Gearing Diameter</th>
<th>Inside Width [Mm]</th>
<th>Plate Height [Nom]</th>
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Don’t forget! Renold also supply a range of gears for the Theme Park industry. To find out more visit www.renold.com/products/gears.

For more information or to contact your local sales team visit www.renold.com
Roller coaster chain
High Performance

Features
- Multi-hit holing
- Stake rivet or cottered pin options
- Induction hardened pins
- Honed bush bores
- Shot peened plates
- Grease gun lubrication option
- Supplied with certificate of conformity & inspection certificate

Performance
- Exceeds industrial chain standards
- Every batch subjected to full breaking load test
- Significantly enhanced wear performance

Roller coaster chain
Extreme Performance

Features
- Precision machined holing
- Stake rivet or cottered pin options
- Induction hardened pins
- Honed bush bores
- Shot peened plates
- Case hardened barrels
- Grease gun lubrication option
- Supplied with certificate of conformity & inspection certificate

Performance
- Far exceeds industrial chain standards
- Every batch subjected to full breaking load test
- Significantly enhanced wear performance

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Don’t forget! Renold also supply a range of couplings for the Theme Park industry. 
To find out more visit www.renold.com/products/couplings

For more information or to contact your local sales team visit www.renold.com
Applications

Chain for use with water rides and wet environments

Constant exposure to water corrosion is a significant factor in limiting the service life of Water Ride Chains. To counter this, Renold offer a range of high performance, durable chain solutions to meet the most demanding applications.

In addition to the core processes and technologies described for our dry roller coaster chain, Renold have developed a range of solutions to meet the specific challenges for water rides.

Features

• Zinc based plating – the carefully optimised Renold process ensures a durable barrier protecting steel parts against corrosion
• Hydro-Service coating – Renold Hydro-Service provides enhanced corrosion protection whilst improving fatigue performance by protecting against the effects of Hydrogen embrittlement
• Hydro-Service Extreme’s dual stage coating process delivers maximum protection against corrosion and improved fatigue performance

Applications

• Transfer Chain
• Slatted Lift Chain
• Lift Chain

For more information or to contact your local sales team visit www.renold.com
Water ride chain

Standard

Our Standard Water Ride Chain product range has long been delivering solid wear and anti-corrosion performance.

<table>
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<tr>
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Features

- Multi-hit holing
- Hardened pins
- Zinc based coating
- Water resistant lubricant
- Supplied with certificate of conformity & inspection certificate

Performance

- Fully compliant with industrial standards
- Durable wear performance

Water ride chain

High Performance

Renold High Performance Water Ride Chain features a range of product design and manufacturing developments that ensure even further enhanced durability and service life.

<table>
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Features

- Multi-hit holing
- Stake rivet or cottered pin options
- Induction hardened pins
- Increased knuckle thickness
- Shot peened plates
- Hydro-Service coating
- Water resistant lubricant
- Grease gun lubrication option
- Supplied with certificate of conformity & inspection certificate

Performance

- Extended breaking & working loads
- Enhanced wear resistance
- Every batch subjected to full breaking load test
- Significantly enhanced wear performance

For more information or to contact your local sales team visit www.renold.com

For information on installation & maintenance procedures for Renold chain, please visit www.renold.com/conveyor-chain/amusement_park
Water ride chain

Extreme Performance

Drawing on our extensive experience supplying theme parks around the world, Renold have identified the three main causes of chain failure in water ride environments and have developed the Trident Chain range.

Features
- Stake rivet or cottered pin options
- Hardened pins
- Maximised knuckle thickness
- Shot peened plates
- Enhanced heat treatment
- Integral attachments – eliminating weld corrosion issues
- Hydro-Service extreme dual-step corrosion inhibiting process
- Lubrication free bearing technology
- Supplied with certificate of conformity & inspection certificate

Performance
- Quieter running
- Lower maintenance
- Superior breaking & working loads
- Every batch subjected to full breaking load test
- Optimised wear performance

<table>
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Tackling Corrosion
The dual-step Hydro-Service Extreme offers superior corrosion protection over other surface treatments – even when the outer coating is penetrated.

Eliminating Seizure
Conventional Transfer & Lift Chains can suffer from seizure of the bush and pin, significantly shortening the life of the chain. Metal-to-metal contact is dramatically reduced by deploying a specially developed polymer bush. This carefully developed feature also enables lubrication free operation.

Reducing Wear
The development of heavy wall bush technology overcomes premature wear and failure of the bush. Additionally this design enables incorporation of a shell roller, further reducing wear on sprocket teeth.

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