



Designed for **heat**.
Built for speed.
Made to measure.

Always Moving, **Always Improving.**

RENOLD

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Renold Inverted Tooth Chain

The clear choice for glass production

If you're in the business of glass production, you'll know that the industry's requirements are becoming more and more challenging, particularly in terms of demand for maximum efficiency and reliability.

Renold Inverted Tooth Chains meet and even exceed these requirements - as transport and drive solutions - or as special versions for hollow, sheet or solar glass and even for use in the sensitive production of glass vials, perfume bottles and baby food jars.

Whether extremely hot, ultra-sensitive or complex, Renold inverted tooth chains remain reliable and efficient – even under the most demanding of conditions. This makes them ideal for a range of tasks in the glass industry. They'll gently transport all hollow glass products or ensure maximum efficiency as a drive solution.

Transport Solutions for Hollow Glassware

Inverted Tooth Chain is ideal for use as a machine conveyor for IS-machines or a cross conveyor in front of the cooling furnace.

As an IS-machine conveyor

- Long service life
- Low-vibration, smooth running
- Even pitch changes thanks to rolling pivots
- High production speeds
- Low reject rate for increased efficiency
- Constant chain width over the entire service life
- Ideal guiding characteristics
- Laser-welded outer links
- No protruding rivet heads
- Long service life
- Low sliding resistance



As a ware transfer and cross conveyor at the cooling furnace

- Constant chain width over the entire service life
- Ideal guiding characteristics
- Even pitch changes thanks to rolling pivots
- Multiguides available as required



Special versions for special applications

Renold produces a range of chains purpose designed for specific jobs. These include chains with ground surfaces, stainless versions, as conveyor tooth chains for crystal glass, or in the process of glass printing machines.

For sensitive glass

- Special stainless steel grades
- Ideal insulation effect
- All various chain layouts possible
- Low-vibration, smooth running
- Even pitch changes thanks to rolling pivots

For small glass products

- Special ground version
- Links available in 1.5 or 2 mm
- Low-vibration, smooth running
- Even pitch changes thanks to rolling pivots
- Constant chain speed

For small bottles

- Special version with ground profile
- For glass articles without a stable standing surface
- Low-vibration, smooth running
- Even pitch changes thanks to rolling pivots

For heavy loads

- High load capacity
- Robust design
- Low-vibration, smooth running
- Even pitch changes thanks to rolling pivots

Drive solutions for hollow, sheet, and solar glass

Renold chains provide the perfect solution for take-out gears, as roller drives in the furnace to bend and anneal sheet glass, as rotary drives in rotary production machines, or as inverted tooth chain drives in vacuum coating systems.

For roller drives in furnaces

- High temperature resistance
- Robust design
- Low-vibration, smooth running
- Even pitch changes thanks to rolling pivots
- Play-free reverse operation possible

For take-out gears in IS-machines

- High temperature resistance
- High-performance, compact design
- Long service life
- Low friction thanks to rolling pivots

For roller drives in coating systems

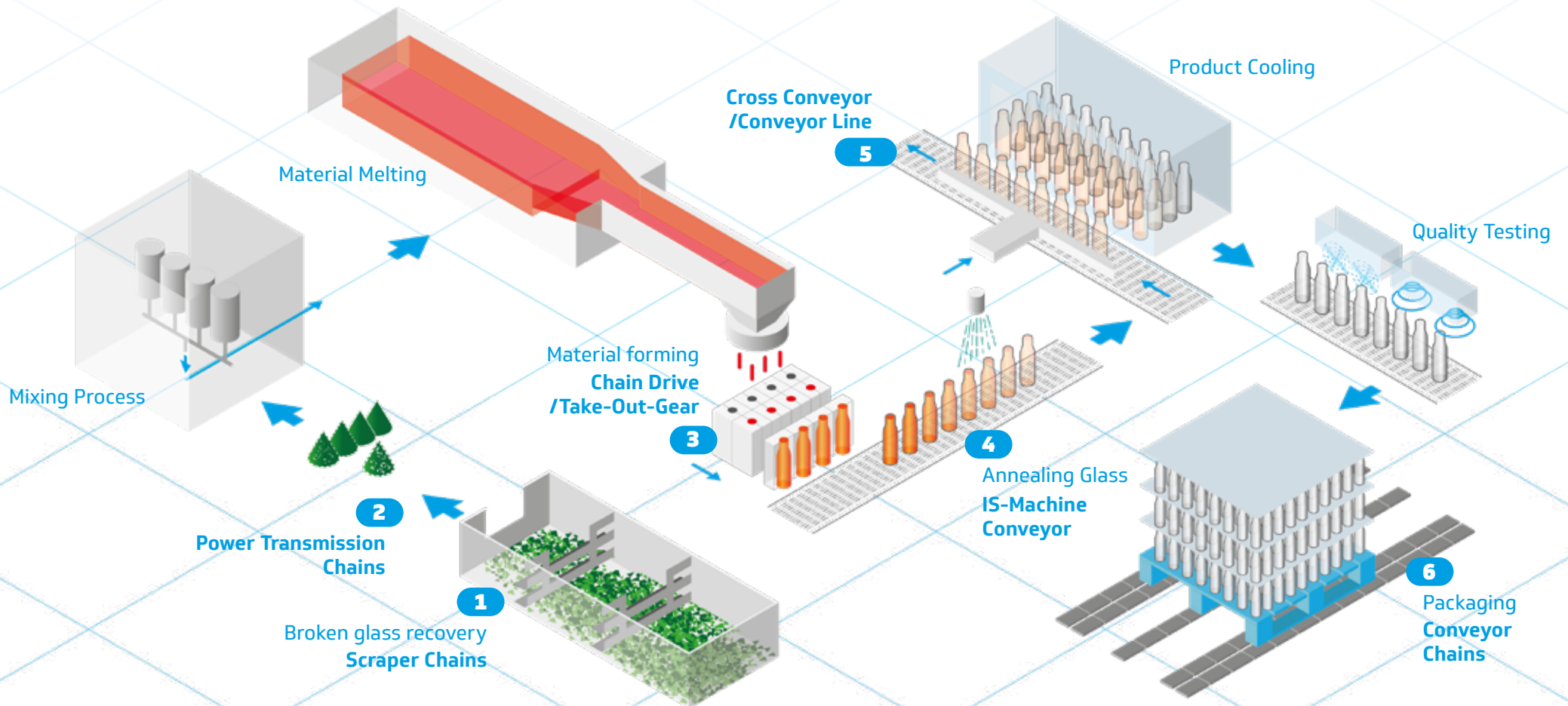
- Suitable for use in a vacuum
- High temperature resistance
- High-performance, compact design
- Long service life
- Low friction thanks to rolling pivots

Made to keep production moving

Renold supplies a selection of chain, custom design for the demands of glass transport. Whether that's for hollow glass, both hot and cold or for sheet glass, solar glass or specialised products.

In every instance, Renold can help to significantly increase the service life of your systems, minimize downtimes, and ensure sustainable, cost-effective production. **All day, every day.**

Example: Hollow glass production process



A chain for **every stage** of the process



Chain solutions for glass production

- Tooth Chains are exclusively made in Germany. Quality standard ISO 9001 2015
- Conveyor and Transmission Chains are made according to the highest international standards



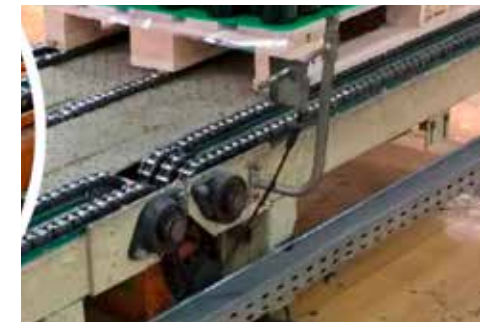
Conveyors – Scraper Chains

- Developed for high abrasive and wet conditions
- Breaking loads of 100 to 500 kN are common
- Inboard or outboard roller design
- High impact loads are common with this type of system
- Pitch : 50,000 mm to 300.00 mm
- Scraper attachment (welded)
- Also available with special coating / hard chromed



Conveyor chain sprockets

- **Sprockets** – with shaft assembly
- **Sprockets** – with chain seating before despatch
- **Traction wheel** – OD induction hardened for high wear resistance



Transmission Chain for power transmission and packaging areas

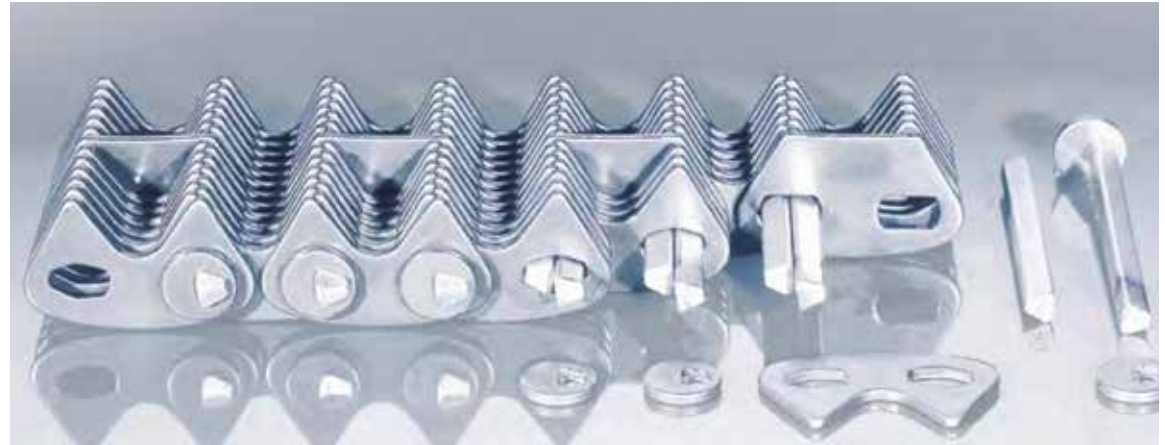
- A global, market-leading supplier of chain
- Renold Synergy offers unbeatable wear and fatigue performance
- Over 100 years experience
- 100% in house production
- Largest range of general transmission and solution chain

Have we made it clear?



We think that we've made a clear case for choosing Renold Inverted Tooth Chain for perfection in glass production.

However, if you'd like to know more, please feel free to call us on **0161 498 4600**, or **www.renoldtoothchain.com**



We'll be happy to clear things up.

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