

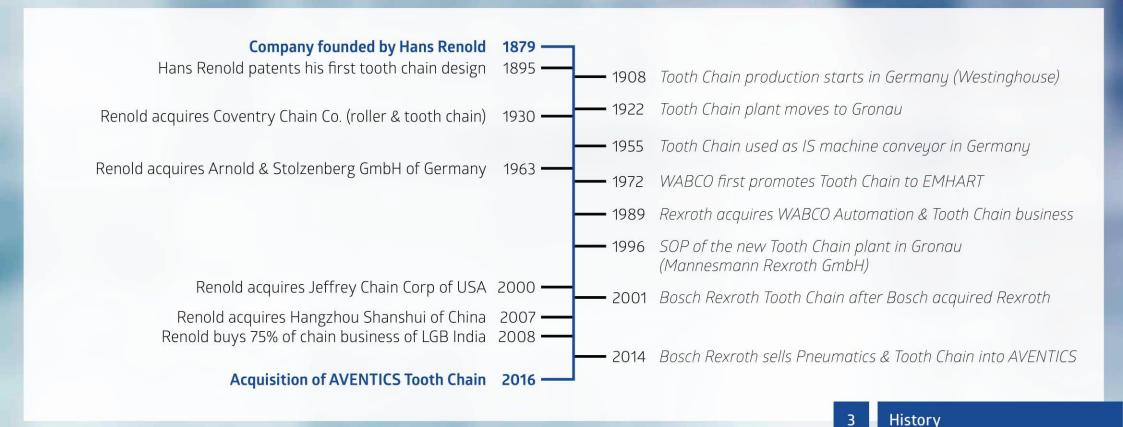


RENOLD RENOLD Tooth Chain



# Chain solutions for glass production – The one stop shop!

- → Tooth Chains are exclusively Made in Germany, Quality standard ISO 9001:2015
- → Conveyor and Transmission Chains are made according to the highest international standards!



## **Our joint History**

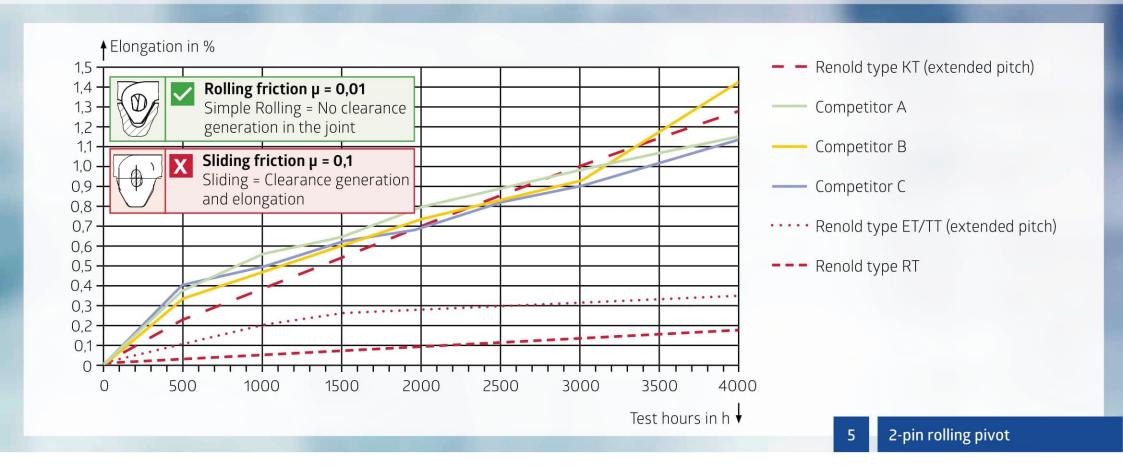
→ Committed to excellence in product quality, engineering innovation, and customer service, Renold has over 130 years experience in power transmission together with our extensive application knowledge.



## **Tooth Chain solutions for hot end production**

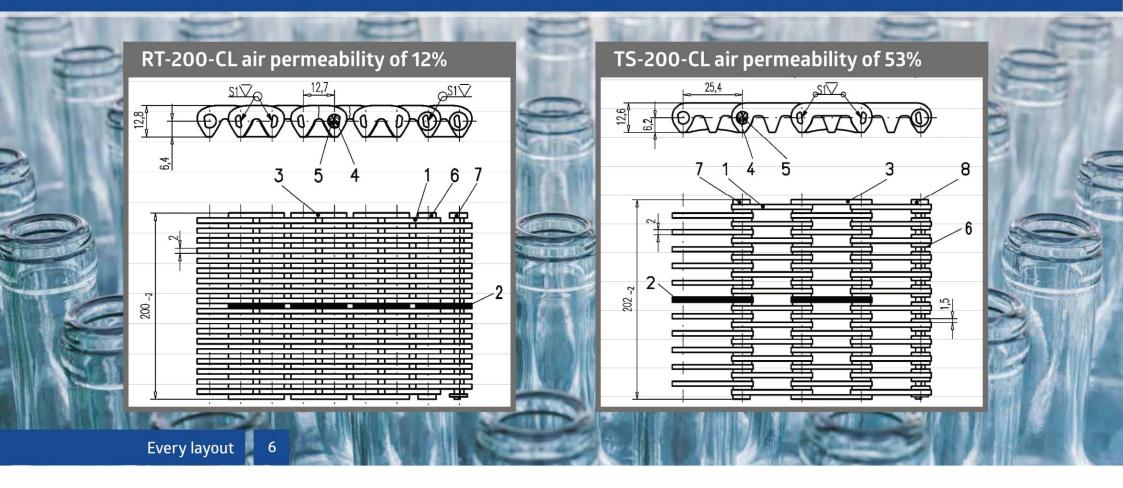
- → High life time and reduced maintenance down time
- → Low elongation to keep the exact position over the lifetime
- → No gap with the transfer plates
- → Air flow through the chain for product cooling and stabilisation
- → Safe footprint for precise and stable transport of the products
- → Low sliding friction with the products

- → High abrasion resistance of the plates due to sliding friction with the machine table
- → Low heat dissipation through the chain
- → High temperature resistance
- → Chemical resistance against coating products Renold can answer all!



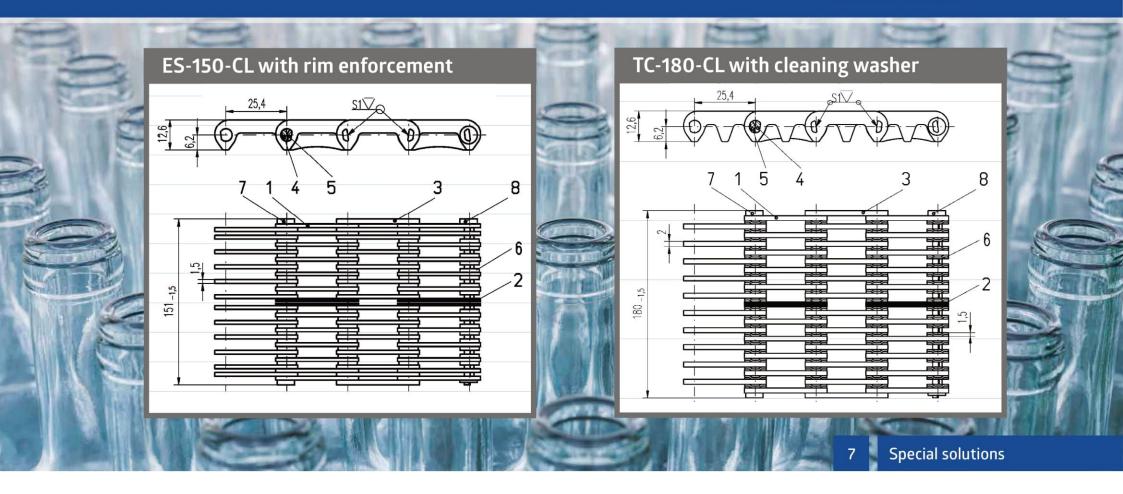
## Unique 2-pin rolling pivot joint design

- → The 2-pin rolling pivot joint considerably decreases elongation and thus increase life time
- > Rolling of two pins versus sliding between the plates and the pin with a single pin pivot
- → Low elongation to keep the exact position over the lifetime
- > Every layout possible, also in stainless steel without influence on the life time



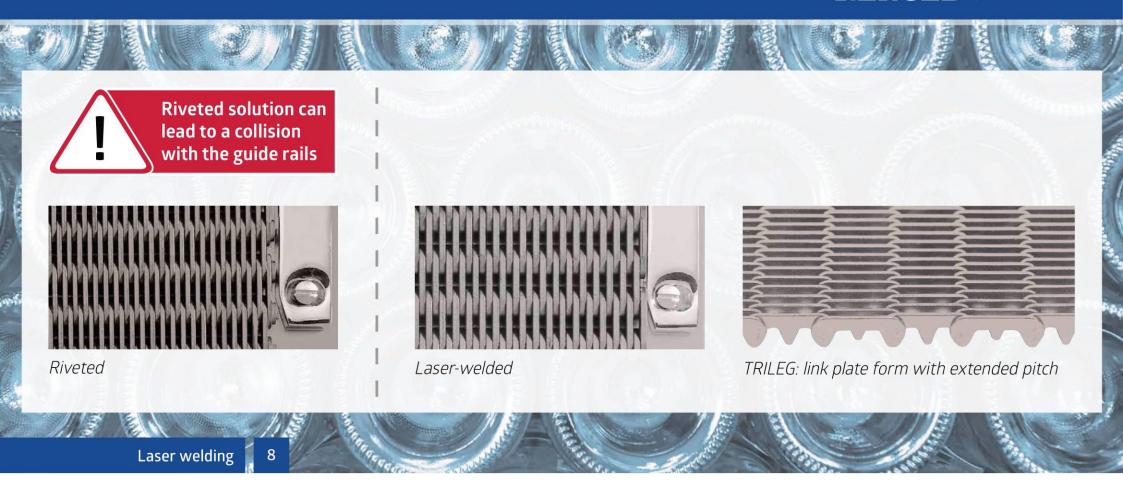
# Every layout possible without influence on lifetime

- → The Renold 2-pin rolling pivot joint transfers all dynamic loads directly from pin to pin only
- No influence of the chain layout on the life time
- → The widest range of airflow adjustment and reduction of product contact



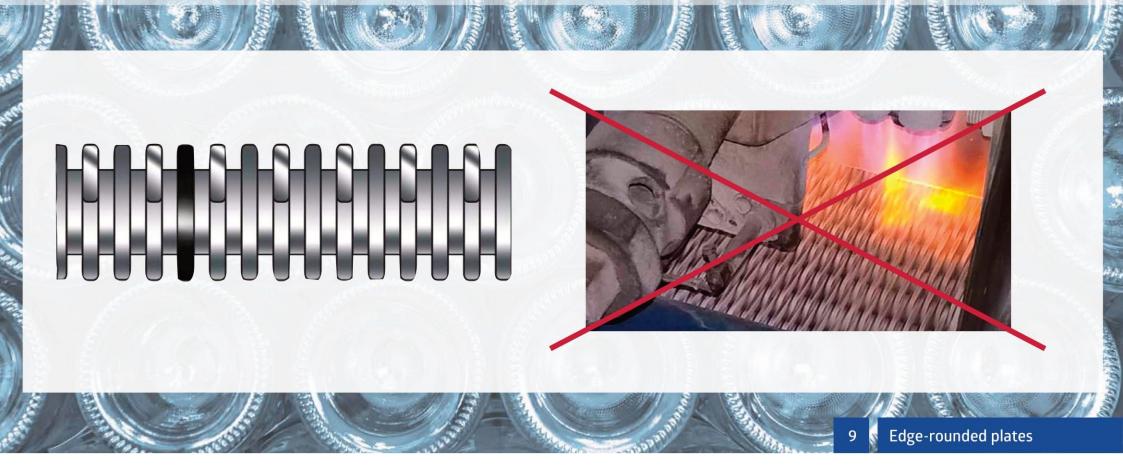
## **Special solutions**

- → Various common layouts like multi-guide/stacker versions, rim enforcement, double plates, inner loose sections with double rings, special thin washers (1 mm only!) to cope with all kind of products
- → Special cleaning washers to keep chains flexible



# Laser welding of the external plates

- → Smooth and large contact surface on both sides
- → Minimum size gap (reliable transfer)
- → No lateral movement of pins due to the welding
- → Safe footprint for precise and stable transport of the products
- → Patented TRILEG design for reduced wear abrasion and elongation



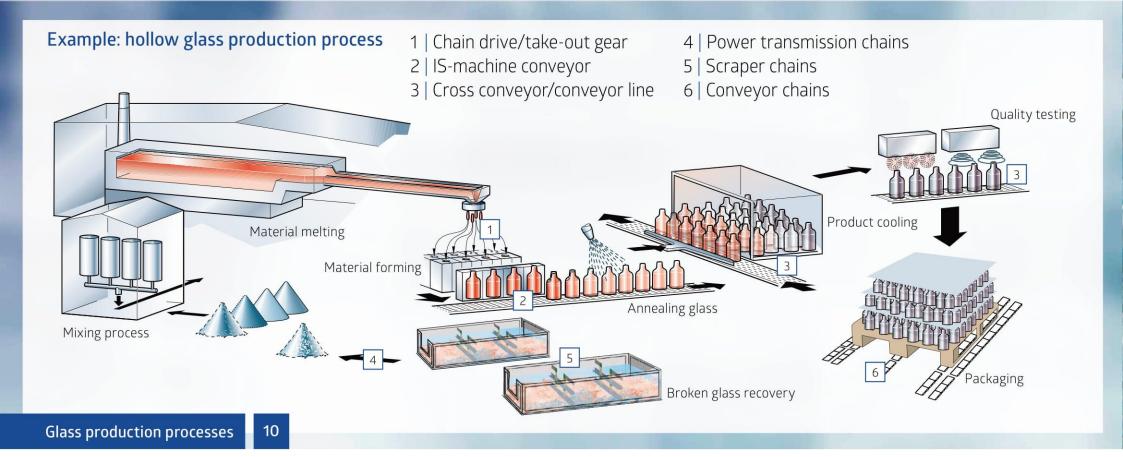
### Renold solutions to avoid micro cracks

#### The base: Renold edge-rounded plates

- → Low sliding friction with the products
- → Safe footprint for precise and stable transport of the products
- → Reduces tipping of top heavy glass bottles
- → Reduces forces for crosswise moving bottles

## The premium: Use of stainless steel

- → Lower heat dissipation rate
- → Increase of resulting contact temperature glass to chain
- → Improved heat resistance
- → No pre-heating required



## More chain solutions for glass production processes

## Conveyors Chains - Scraper Conveyors

- → More than 50 years experience in the production of conveyor chains
- → Experience in all industry sectors
- → Own engineering and development capacity

#### Certification

- → QMS ISO 9001-2008
- → QMS 14001
- → QMS API Spec 7F
- → QMS 18001 H&S

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## **Conveyors – Scraper Chains**

- → Developed for high abrasive and wet environment
- → Breaking loads of 100 to 550 kN are common
- → Inboard or outboard roller design
- → High impact loads are common with this type of system
- → Pitch: 50.00 mm to 300.00 mm
- → Scraper attachment (welded)
- → Also available with special coating / hard chromed

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# **Conveyor chain sprockets**

Sprockets – with shaft assembly

Sprockets – with chain seating before despatch

Traction wheel –

OD Induction hardened for high wear resistance



## Renold Conveyor Chains and Scraper Conveyors are used in

- → Glass industry
- → Steel mill industry
- Cement industry

- → Fertilizer industry
- → Paper industry
- Mining industry

- → Rice mill
- → Food industry
- → Poultry & slitter
- → General conveyor application

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## And even more chain solutions for glass production

## 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

Chains made by Renold will help you to increase lifetime and decrease maintenance downtime at your production line.

You will **increase** your **productivity** and **decrease** total production **cost**.

5

Chains made by Renold

# Thank you for choosing Renold!

# **RENOLD** | Tooth Chain

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