



Takes up any challenge: the new iwis **b.triton** chain!

Our new **b.triton** chains are the optimal solution when stainless steel reaches its strength limit and common coatings cannot resist corrosion when exposed to harsh outdoor environments. **b.triton** chains are using a high performance zinc-flake technology combined with a unique surface treatment. This provides a protective finish that is **more corrosion resistant than any other coated chain**.

b.triton Highlights

- Best corrosion protection: up to 1,000 hours of salt spray testing in accordance with ISO 9227
- Special coating of chain links for added wear resistance
- Carefully selected high-quality carbon steel offers outstanding strength
- Suitable for temperatures from -10 to +130°C thanks to new initial lubricant iwiDUR-G
- Special lubricants, e.g. with H1- foodgrade or high-temperatures, available
- Extruded bushes and rollers for even better corrosion resistance, reduced run-in elongation and quieter running
- High resistance to chemicals and aggressive media
- Environment-friendly: materials comply with RoHS and are free from CrVI

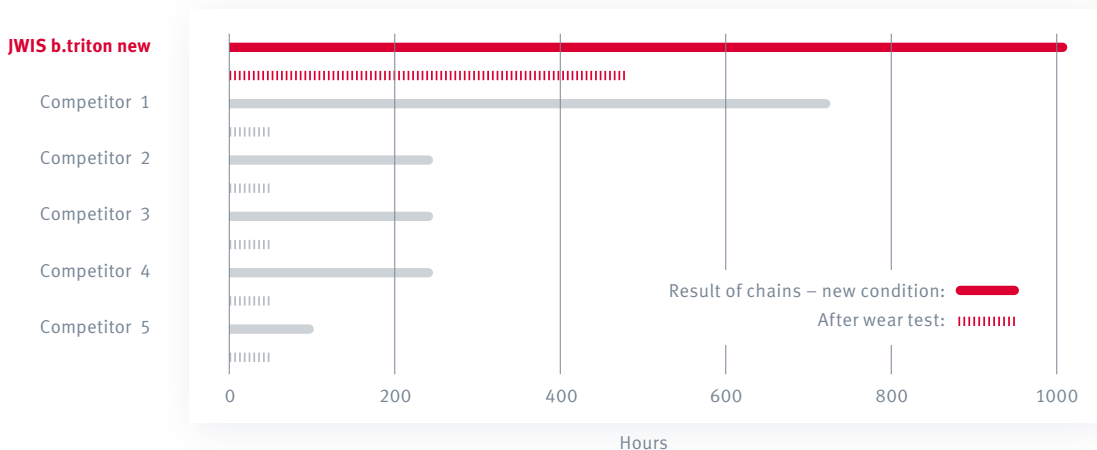


Ground-breaking: maximum corrosion protection

Besides providing outstanding corrosion protection, the unique combination of carefully selected coatings also gives the chain **ideal wear running characteristics**. In the standardized salt spray test, JWIS b.triton chains demonstrate a much **higher corrosion resistance** than comparable competitors' products available on the market.

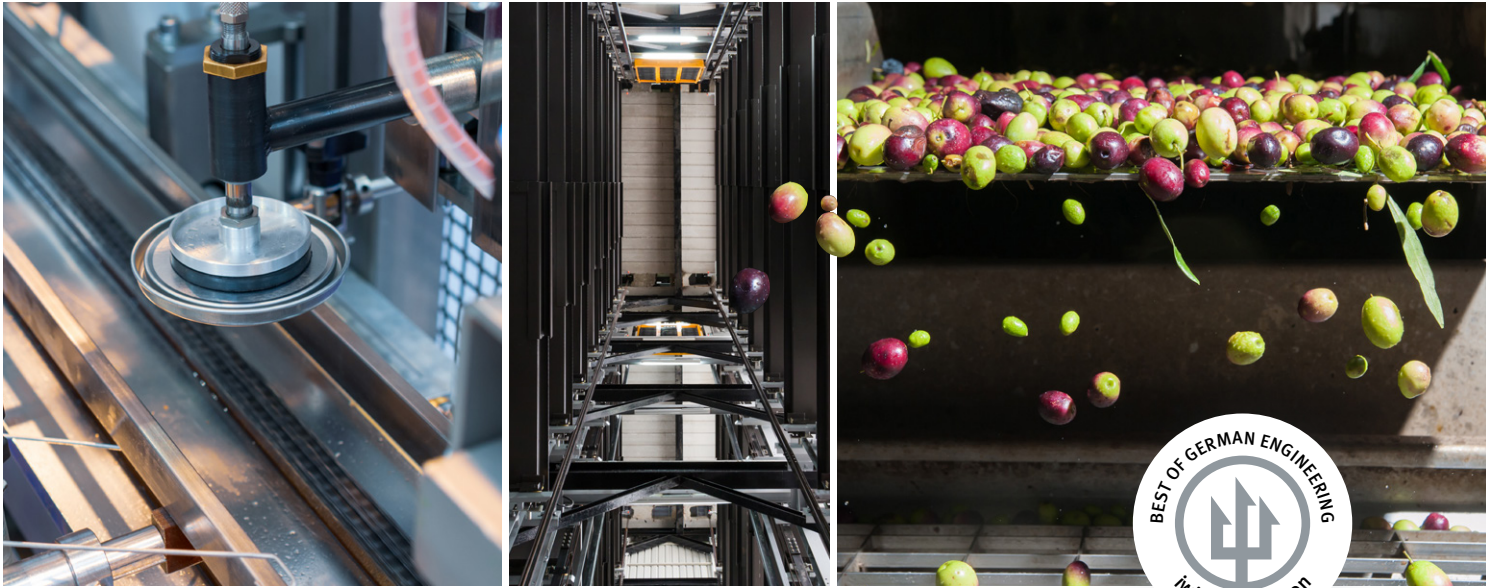
The unique characteristics of the special zinc flake coating ensure outstanding adhesion to the base material. An additional salt spray test with chains already in operational use confirmed that the chain is reliably protected against corrosion, even under harsh conditions:

Salt spray test in accordance with ISO 9227 *



Condensation water test: Cyclic corrosion test VDA 233-102*





Maximum corrosion protection combined with outstanding wear resistance

A perfectly balanced combination of high-tech coatings ensures not only maximum corrosion protection, but also outstanding wear resistance properties!

Special coatings on bushes and pins reduce wear in JWIS b.triton chain bearings. The new lubricant “iwIDUR-G”, developed especially for the applications in which b.triton chains are used, provides additional protection against wear and corrosion.



All b.triton chains are delivered with **initial lubricant iwIDUR-G** as standard, a high-performance grease with outstanding wear resistance properties and additional corrosion protection. Alternative lubricants, for example with food-grade approval or suitable for high-temperature applications, are available on request.

Application fields

Environments with high water/water vapour loads, or stringent cleaning requirements in combination with extremely high standards of chain strength.

Application examples:

- In rough outdoor conditions
- Automated multi-storey car parks
- In slaughterhouses
- In the food industry
- In Port applications
- In building engineering services

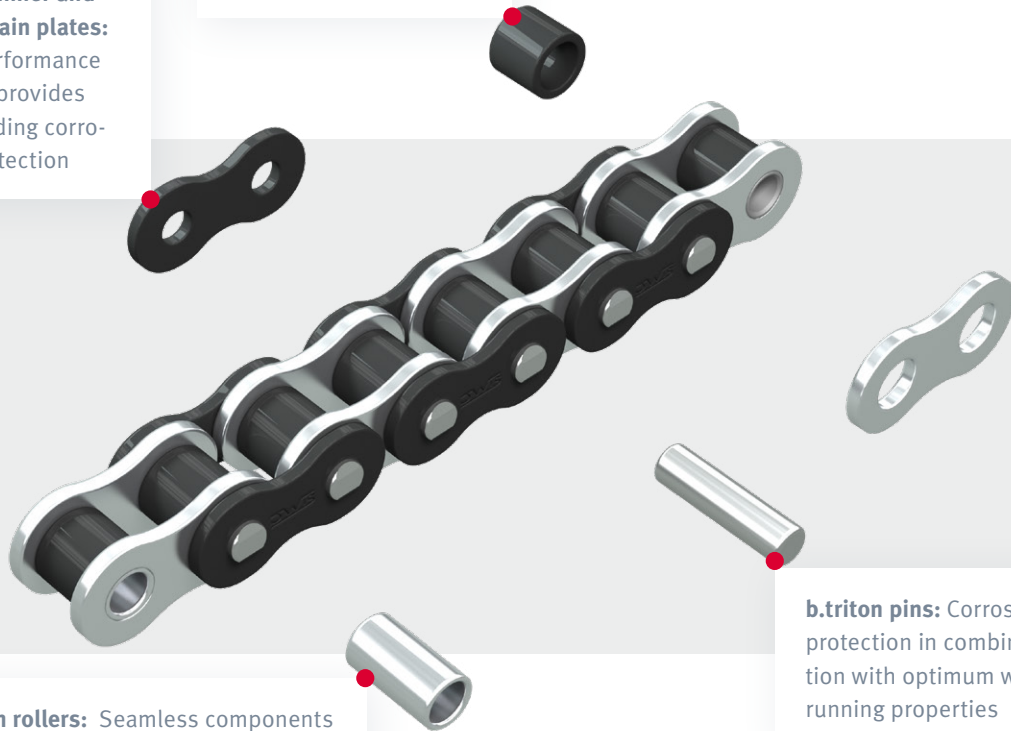


b.triton bushes:

Manufactured by extrusion and with a special wear-reducing coating to provide protection against media penetration and rust

b.triton inner and outer chain plates:

High-performance coating provides outstanding corrosion protection



b.triton rollers: Seamless components and special coating ensure quiet chain running and corrosion protection

b.triton pins: Corrosion protection in combination with optimum wear running properties

b.triton Product range

| ISO | iwis reference | Pitch p inch | Pitch p mm | FB ave. (N) | Tensile strength | | Weight per meter (kg/m) | Inner Link | | | Outer Link | | | Order Nr. | |
|----------------|-----------------|-----------------|---------------|----------------|-------------------|---|----------------------------|--|-----------------------------|--|-------------------------------------|---|--|-----------|----------------------------|
| | | | | | FU iwis min kN | Inner width b ₁ (mm) min. | | Inner link width b ₂ (mm) max. | Plate height g (mm) max. | Pin length a ₁ (mm) max. | Pin length con. Link a (mm) max. | Roller diameter d ₁ (mm) max. | Pin diameter d ₂ (mm) max. | | Transverse pitch e (mm) |
| Simplex | | | | | | | | | | | | | | | |
| 08 B-1 | L 85 b.triton | 1/2 x 5/16" | 12.70 | 19,800 | 17,800 | 0.6672 | 7.75 | 11.30 | 11.81 | 17 | 19.2 | 8.51 | 4.45 | - | 40011518 |
| 10 B-1 | M 106 b.triton | 5/8 x 3/8" | 15.875 | 27,000 | 22,200 | 0.9224 | 9.65 | 13.28 | 14.73 | 19.6 | 22.5 | 10.16 | 5.08 | - | 40011520 |
| 12 B-1 | M 127 b.triton | 3/4 x 7/16" | 19.05 | 32,700 | 28,900 | 1.186 | 11.68 | 15.62 | 16.13 | 22.7 | 25.3 | 12.07 | 5.72 | - | 40011524 |
| 16 B-1 | M 1611 b.triton | 1" x 17 mm | 25.40 | 75,000 | 60,000 | 2.7196 | 17.02 | 25.45 | 21.08 | 36.1 | 41.2 | 15.88 | 8.28 | - | 40011527 |
| Duplex | | | | | | | | | | | | | | | |
| 08 B-2 | D 85 b.triton | 1/2 x 5/16" | 12.70 | 40,000 | 31,100 | 1.312 | 7.75 | 11.30 | 11.81 | 31 | 33.8 | 8.51 | 4.45 | 13.92 | 40011522 |
| 10 B-2 | D 106 b.triton | 5/8 x 3/8" | 15.875 | 56,000 | 44,500 | 1.822 | 9.65 | 13.28 | 14.73 | 36.2 | 39.4 | 10.16 | 5.08 | 16.59 | 40011523 |
| 12 B-2 | D 127 b.triton | 3/4 x 7/16" | 19.05 | 68,000 | 57,800 | 2.351 | 11.68 | 15.62 | 16.13 | 42.2 | 44.6 | 12.07 | 5.72 | 19.46 | 40011526 |
| 16 B-2 | D 1611 b.triton | 1" x 17 mm | 25.40 | 150,000 | 106,000 | 5.389 | 17.02 | 25.45 | 21.08 | 68 | 73.4 | 15.88 | 8.28 | 31.88 | 40011528 |