



FAG

TORB Toroidal Roller Bearings

Maximum efficiency for the paper industry: the optimal two-in-one solution for locating/non-locating bearing systems

The TORB toroidal roller bearing from FAG combines the benefits of spherical and cylindrical roller bearings. As a single-row rolling bearing with durable, slightly crowned rollers, it reliably compensates for angular misalignments and axial displacements – in the millimeter or centimeter range, depending on the bearing size. The self-aligning rollers ensure even load distribution, even when there is significant skewing.

This bearing has proven itself in drying and yankee cylinders, as well as in press and thermo rolls in the paper industry.

Manufactured to X-life quality, TORB bearings increase the life of locating/non-locating bearing systems through their high radial load carrying capacity and long-term reliability.

With TORB, Schaeffler now offers a complete product range for every requirement in paper production, providing everything from a single source to support efficient manufacturing.

We pioneer motion

SCHAEFFLER

Exceptional performance in locating/ non-locating bearing systems

TORB – the ideal non-locating bearing concept

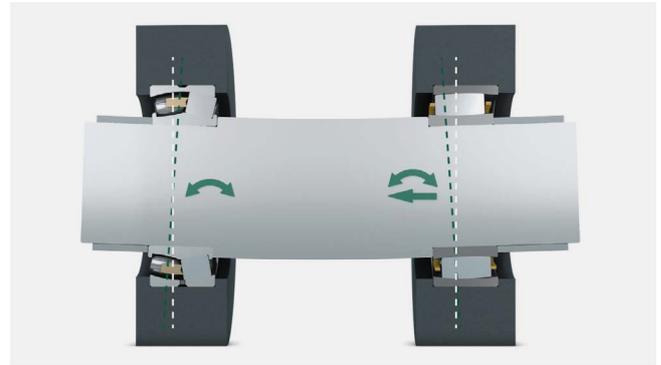
When combined with spherical roller bearings as the locating bearing, TORB provides a proven solution for compensating temperature-induced shaft expansion and misalignment.

Why choose TORB?

- Smooth compensation of axial length displacement of up to +/-10% of the bearing width
- Compensation of tilting up to 0.5° with no reduction in basic load rating or life
- Effective damping of axial vibrations for low-vibration, efficient operation

Advantages & customer benefits

- **The two-in-one solution:** combines the key benefits of spherical and cylindrical roller bearings (angular adjustment and axial displacement) in a single product
- **X-life premium quality:** increased wear resistance, reduced friction, and lower operating temperatures for smooth, vibration-free operation
- **Fully interchangeable:** available as a catalog product in the same ISO dimension series and sizes, and interchangeable with all standard products on the market
- **Optimal use of installation space:** optimized non-locating bearing design delivers high performance and power density
- **Increased radial load carrying capacity:** improved load capacity for demanding applications

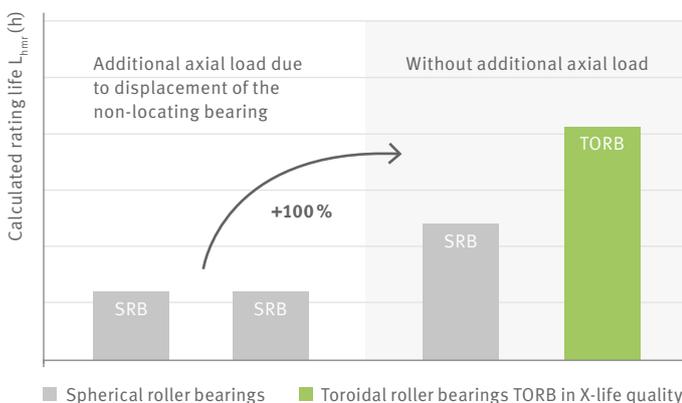


The optimal locating/non-locating bearing system for the paper industry: a spherical roller bearing as the locating bearing (left) and TORB as the non-locating bearing (right).

Extensive product range

- **Range of types:** eight series available for shaft diameters from 25 to 1200 mm; TORB sizes available with corresponding spherical roller bearings
- **Inner ring options:** available with tapered or cylindrical bore; case-hardened versions also possible
- **Internal clearance classes:** available in CN, C3, and C4
- **Temperature resistance:** suitable for operating temperatures up to +200°C

Comparison of system service life: Two Spherical roller bearings vs. Spherical roller bearings and TORB



Maximum cost-efficiency due to extended rating life of bearing system

TORB toroidal roller bearings significantly relieve the load on your bearing system, reduce downtime, and minimize maintenance requirements, leading to a substantial increase in the rating life of the locating/non-locating bearing system.

The outcome: significantly reduced total cost of ownership (TCO), along with lower replacement part and mounting costs, and an optimized production process.



For more detailed information about TORB, please visit [Schaeffler medias](#).

Schaeffler Technologies AG & Co. KG

Georg-Schäfer-Straße 30

97421 Schweinfurt (Germany)

www.schaeffler.com · info@schaeffler.com