



We pioneer motion

Tapered Roller Bearings in X-life Quality

High load carrying capacity – reliable – energy-efficient

The high-performance solution for industrial applications

Rises in productivity across many industrial sectors are placing increasing demands on tapered roller bearings. This results in increased power density in ever smaller installation spaces, while generating as little friction as possible and ensuring easy maintenance. Schaeffler has responded to these demands with tapered roller bearings in X-life quality. X-life is the premium brand that identifies particularly high performance products under the INA and FAG brands. These tapered roller bearings can support both radial and axial loads in equal measure and have the highest limiting speeds on the market. As a result, they have been developed specifically for areas of application in industrial gearboxes, agricultural machinery, and the steel industry, with their own unique set of challenges.

SCHAEFFLER

Tapered Roller Bearings in X-life Quality

Advantages over the standard design

- Increased rating life and reliability due to the optimized heat treatment of our premium materials
- 20% higher basic dynamic load rating and 10% higher limiting speeds facilitate a smaller design envelope while maintaining performance capability
- Minimal wear and noise pollution due to optimized surface microstructure
- Lower heat generation in the bearing due to lower-friction and more energy-efficient running
- Calculate the CO₂ consumption of your bearing solutions conveniently and easily using the BEARINX calculation modules
- FAG tapered roller bearings in X-life quality increase overall cost efficiency and improve the CO₂ footprint of your machines and plant

Applications

High radial load combined with high axial force, high speed range, precise and rigid shaft guidance, and low maintenance requirement: The use of our bearings has already met with successful results in practice across many industrial applications.



Agricultural machinery



Gearboxes, e.g. in wind turbines



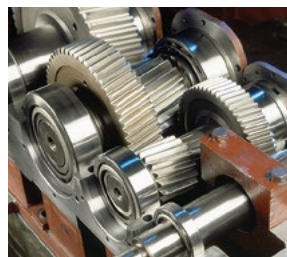
Rail



Oil and gas production technology



Mobile hydraulic systems



Industrial gearboxes



Construction machinery



Rolling stands in the steel industry

Portfolio – Performance overview tapered roller bearings industry

| | TRB-H Series | TRB Classic | TRB X-life |
|---------------------------|--------------|--------------|------------|
| Suffix | -H | none, -A, -X | -XL |
| Performance level | 90% | 100% | 130% |
| Basic dynamic load rating | 95% | 100% | 120% |
| Basic static load rating | 100% | 100% | 100% |
| Maximum speed | | + | ++ |
| Friction | | + | ++ |
| Noise | | + | ++ |



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