

Rolling bearings

Plain bearings

Linear technology

FAG

Tapered Roller Bearings

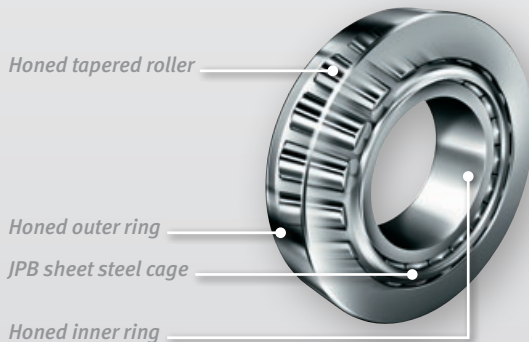
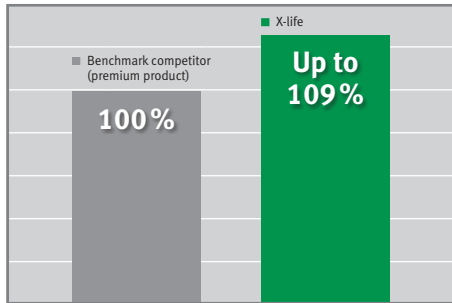


SCHAEFFLER

X-LIFE – PROVEN TO BE BETTER

Longer rating and operating life – reliable – energy-efficient

Dynamic load rating comparison C_r



Product features

- *Improved surface quality on the rings and rollers*
- *Optimized rib and raceway geometry on the inner ring*
- *Improved rolling element geometry*
- Superior quality ring materials
- Improved heat treatment
- Standardized cage design

Technical advantages

- *20% higher dynamic load rating C_r*
- *Up to 70% longer rating life*
- *Up to 50% less friction (up to 75% in tapered roller bearings with a large contact angle)*
- Lower operating temperatures
- Higher precision

Customer benefits

- *Longer operating life*
- *Increased reliability*
- *Downsizing possible, higher power density*

X-LIFE – PROVEN TO BE BETTER

- Reduced overall operating costs (TCO)
- Reduced grease and oil consumption
- Increased energy efficiency

Applications

- Mobile hydraulics: Axial pistons and orbital engines
- Tractors: Wheel bearings and transmissions
- Vertical mills: Grinding rollers
- Hot and cold rolling mills: Work rolls for rolling stands
- Oil and gas production
- Onshore and offshore wind turbines: Gearboxes
- Construction machinery: Road rollers
- Construction machinery: Drill head bearings

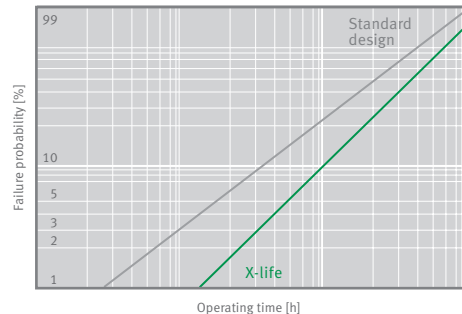


Types available

- Change-over of high-volume bearings (core program) up to 420 mm OD
- New types up to 635 mm OD
- Starting types:
Bearings from series 320, 322, and 302

Weibull diagram

Comparison of conventional bearing with X-life product



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