

Why SKF?

SKF Explorer spherical roller thrust bearings



By design, spherical roller thrust bearings are the only bearings that can accommodate substantial radial loads and very heavy thrust loads, making them excellent for combined-load applications. One spherical roller thrust bearing can do the work of a radial bearing and another thrust bearing type, thereby reducing overall bearing arrangement weight, size, and costs.

Spherical roller thrust bearings are also self-aligning, which means they are the only thrust bearings that can handle considerable misalignment and shaft deflection. SKF Explorer spherical roller thrust bearings provide a significant improvement in key operational parameters. These bearings are so advanced that they can last several times longer than their rivals under typical heavy-duty conditions.

Product features

- Made of patented SKF Xbite steel
- Higher load-carrying capacity
- Lower operating temperature
- Reduced vibration and noise levels
- Longer lubricant life

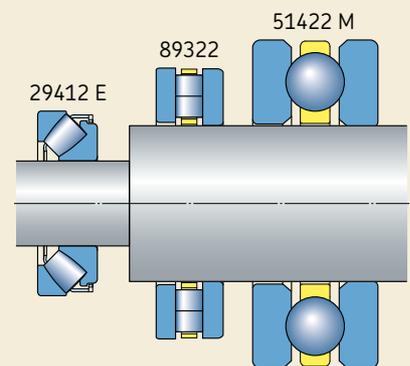
User benefits

- Increased uptime and productivity
- Excellent high-speed performance
- Increased power output
- Lower maintenance and operating costs
- Reduced warranty costs
- Environmentally friendly

Common applications

- Gearboxes, pinion gears and pumps
- Extruders and injection molding machines
- Metalworking machinery
- Mining and construction equipment
- Pulp and paper processing equipment
- Marine propulsion machinery
- Wind and water turbines
- Cranes and bridges

A size comparison of thrust bearings with the same basic dynamic load ratings

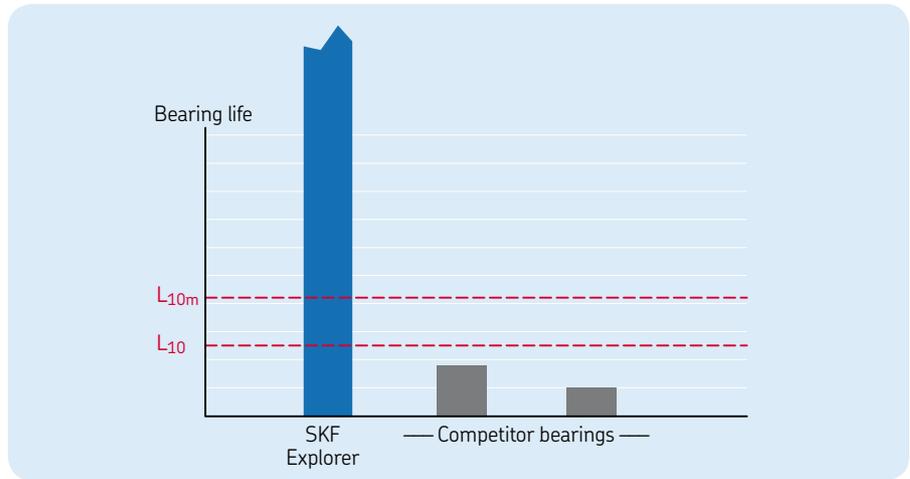


Spherical roller thrust bearings have the highest power density among thrust bearings. This can considerably reduce weight, size and cost!



Off-the-chart endurance

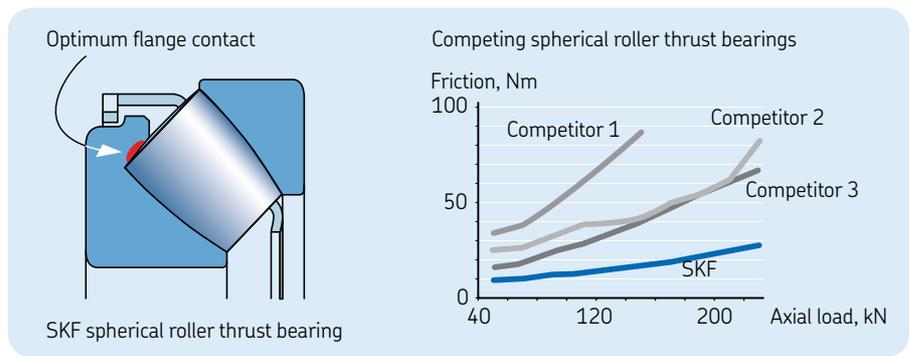
Under both clean and contaminated conditions, SKF Explorer spherical rolling bearings can last several times longer than other spherical rolling bearings on the market.



Optimum contact

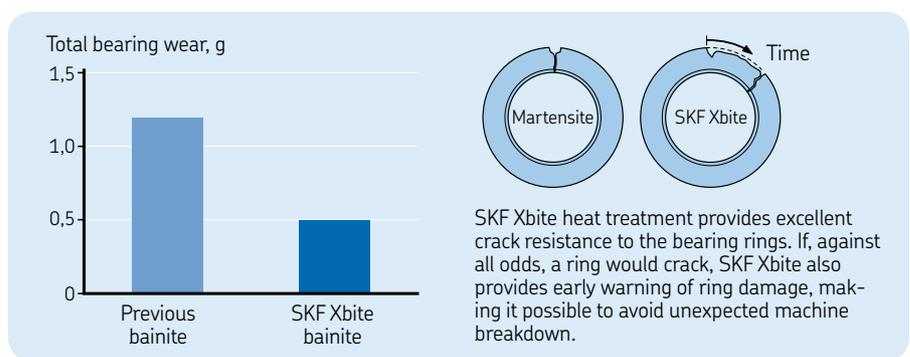
Optimum contact between rollers and flange means very low internal friction, enabling SKF spherical roller thrust bearings to operate from very low to very high speeds – up to three times the reference speed under certain conditions.

Higher surface hardness results in reduced wear, leading to extended service life.



Powerful, patented SKF Xbite steel

SKF Explorer bearings are made of SKF Xbite heat-treated steel – an extremely clean, reduced-oxygen level steel that provides greater strength, surface hardness and dimensional stability at high temperatures; features leading to extended service life.



Widest range on the market

SKF offers the industry's widest range of standard spherical roller thrust bearings, plus custom designs for specific requirements.



An SKF Documented Solution specialist can show you the approximate return on investment (ROI) you can expect to receive by using this product in your application. Ask your SKF Authorized Distributor or SKF representative for more details.

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Publication 6548 EN · June 2008 · Printed in Sweden on environmentally friendly paper.

