Why SKF?

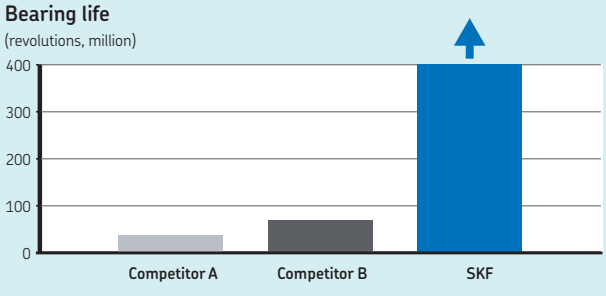
Why SKF Explorer spherical roller bearings

Dealing with heavy loads, misalignment, and shaft deflections? If tough operating conditions lead to a bearing unexpectedly failing in a machine like yours, the cost for your business can be catastrophic.

Every hour of downtime is an hour of lost production, lost income, and lost profit. You also have maintenance costs and safety risks to worry about, not to mention the constant anxiety of being responsible for a machine that could stop running at any moment.

When failure isn't an option, reliability is everything. Using SKF Explorer spherical roller bearings means more uptime, lower operating and maintenance costs, and more profit for your business.

Here's how:



Test conditions
Oil-lubricated 22220 from SKF and competitor bearings Fr=140 kN, n=1500-2000 r/min, self-induced temperature based on running conditions (uncontrolled)

Longer life

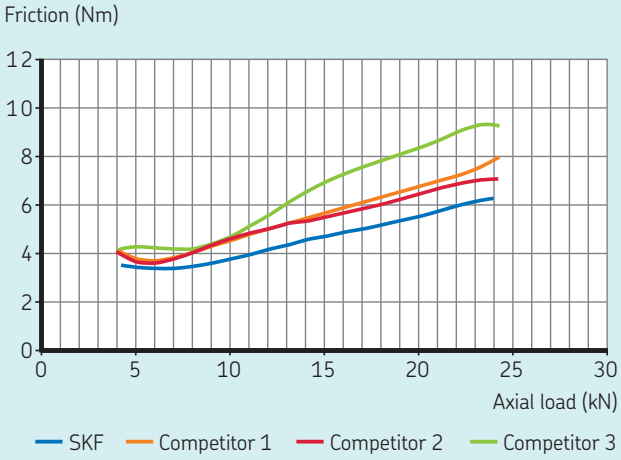
Tests prove their fatigue life rivals any spherical roller bearing on the market, helping you extend mean time between failures. This is possible because the unique, patented SKF Xbite-II steel rings we use within the range use a heat treatment process that provides up to 3x better wear and contamination resistance than standard bainite steel.

Lower risk of early failure

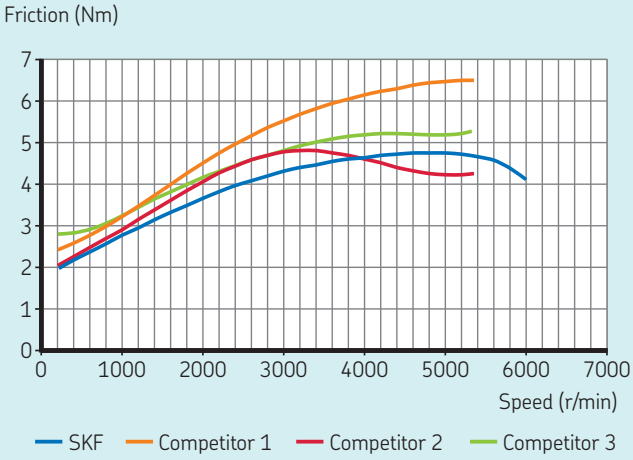
SKF Xbite-II heat treatment gives the bearing rings excellent crack resistance. This means it takes longer for minor faults to turn into big problems, so you can replace your bearings at your next planned stop instead of having to shut down the machines you need up and running.

Lower friction

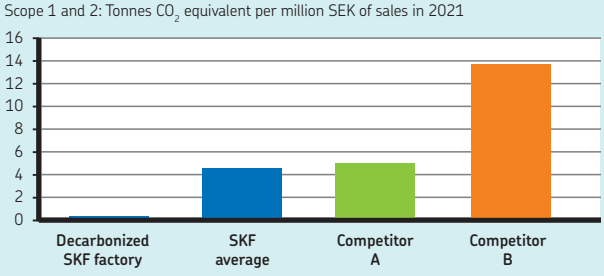
SKF Explorer spherical roller bearings run with lower friction than competitor bearings. Their rollers are self-guided by a design principle that results in excellent friction control. This can mean that your machine runs more efficiently, or that you don't need to relubricate as often.



Test conditions
Oil-lubricated 22220 E from SKF and competitor bearings of same size after running in Fr=42.5 kN, n=2000 r/min, 60 °C



Test conditions
Oil-lubricated 22220 E from SKF and competitor bearings of same size after running in Fr=42.5 kN, Fa=4.25 kN, 60 °C



Less CO_2 and waste

Better energy efficiency from lower-friction bearings means less CO_2 in the use phase. Choosing SKF also means lower Scope 1 and 2 emissions. We aim to decarbonize all our operations by 2030, and to have net zero emissions throughout the supply chain by 2050. Many SKF Explorer spherical roller bearings can be remanufactured, potentially reducing their carbon footprint by up to 90% compared to buying new bearings.

Available sealed

Our sealed spherical roller bearings last at least three times as long as open bearings, preventing premature bearing failure by keeping grease in and contaminants out. We offer the widest range of sealed spherical roller bearings in the industry, providing exceptionally high reliability for more customer applications than ever before.

Close to you

Knowledge, product excellence and availability are key to overcoming the industrial challenges of rotating equipment – from design to operations. With SKF's advanced technology and world-class manufacturing sites, service, and remanufacturing centres plus SKF distributors - all working hand in hand - you have access to the SKF network and expertise in nearly every corner of the world. Wherever you are, and whenever you need it, you can be certain SKF is nearby to serve and support you.

skf.com

PUB BU/P2 19615 EN · April 2023

Certain image(s) used under license from Shutterstock.com.