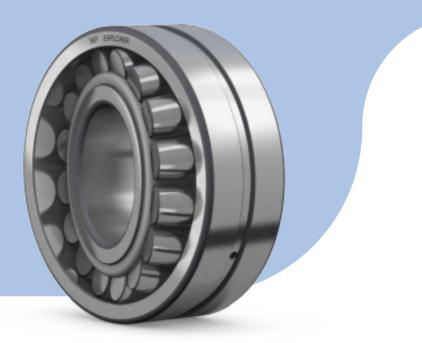
Why SKF?

SKF Explorer spherical roller bearings



By design, SKF spherical roller bearings can accommodate very heavy radial and heavy axial loads in applications prone to misalignment or shaft deflections. Spherical roller bearings were introduced by SKF in 1919, and have been continuously improved to increase reliability and decrease friction.

All spherical roller bearings are now available as upgraded SKF Explorer bearings, including open bearings, sealed bearings and bearings for vibra-tory applications.

The SKF Explorer spherical roller bearings have proven to be so robust that they can last several times longer than other spherical roller bearings.

Common applications

- Gearboxes
- Wind turbines
- Pumps
- Fans and blowers
- Mining and construction equipment
- Pulp and paper processing equipment
- Marine and offshore machinery
- Metal industry equipment
- Railway axle boxes

User benefits

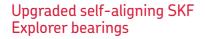
- Lower operating temperature and longer lubricant life
- Reduced noise and vibration levels
- Improved bearing service life
- Increased wear and contamination resistance
- Excellent high speed performance
- Accommodates heavy loads and misalignment

Upgraded SKF Explorer spherical roller bearings

All original SKF Explorer spherical roller bearings have been upgraded to a new level of performance, featuring a combination of high-quality steel and an improved heat treatment. Upgraded SKF Explorer spherical roller bearings provide longer service life, particularly in applications where there are high levels of contamination or poor lubrication conditions.

Product features

- Made of clean and tough upgraded steel
- Self-guiding rollers



Upgraded self-aligning roller bearings are identified on the packaging, and the bearing outer rings are marked "WR".



Test conditions

Test results of SKF Explorer performance class spherical roller bearings compared to competitors'. Bearing basic designation: 22220 Sample: 35 bearings per brand Load: 140 kN C/P= 3,0 κ= 1,76 Speed: 1 500 r/min $-L_{10m}$ ·L₁₀

Competitor bearings

Diagram 2



SKF Explorer

Bearing service life

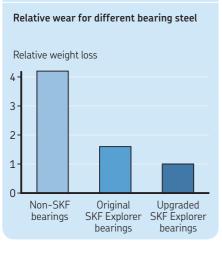
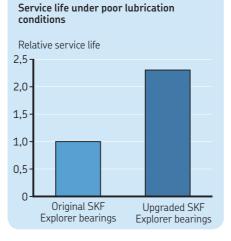


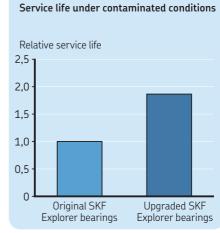
Diagram 1

Test conditions Bearings: 22220 E Lubricant: Turbo T 68 mineral oil containing 3 g/l of cast iron powder к = 1,2

C/P = 3,4Speed: 525 r/min Running time: 72 h All components were weighed before and after the test



Test conditions Bearings: 22220 E Load: 140 kN Speed: 1 500 r/min Lubricant: Turbo T 9 mineral oil κ = 0,45 Temperature: 75 °C



Test conditions Bearings: 22220 E The bearings were run-in under contaminated conditions. $\eta_{c} = 0,2$

Operating conditions after cleaning Load: 140 kN C/P = 3,0Speed: 1 500 r/min Lubricant: Turbo T 68 mineral oil к = 2,1

For more information about upgraded SKF Explorer spherical roller bearings, go to skf.com/upgrade or scan the QR code below.



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