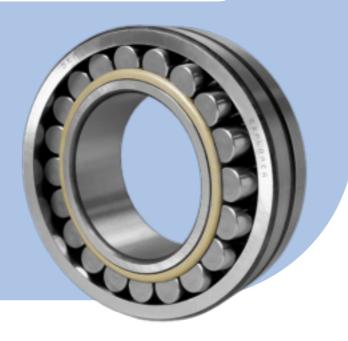
## Why SKF?

# SKF Explorer spherical roller bearings for vibratory applications



By design, SKF spherical roller bearings can accommodate very heavy radial and heavy axial loads in applications prone to misalignment or shaft deflection. In addition, the SKF spherical roller bearings for vibratory applications are designed to accommodate very high vibration levels.

SKF Explorer spherical roller 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.

## SKF Explorer performance class upgrade

All SKF Explorer spherical roller bearings have been upgraded. Combining the clean and homogenous high-quality steel used in the original SKF Explorer bearings with an improved heat treatment process, upgraded SKF Explorer spherical roller bearings provide longer service life, particularly under difficult operating conditions where bearings are subjected to contamination or poor lubrication.

**Product features** 

- Designed for high vibration levels
- Made of super-clean and tough upgraded steel
- Higher load-carrying capacity
- Lower operating temperatures
- Longer lubricant life

## Common applications

- Vibrating screens
- Compactors
- Road rollers
- Vibratory hammers
- Vibrating bowls
- Block vibropresses
- Baggers
- Wood chippers

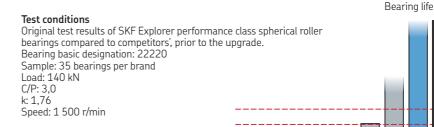
## User benefits

- Increased uptime and productivity
- Improved reliability
- Lower maintenance an operating costs
- Increased bearing service life
- Increased wear and contamination resistance
- Excellent high speed performance



## Off-the-chart endurance

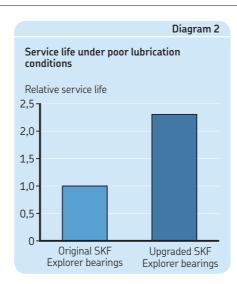
Under both clean and contaminated conditions, SKF Explorer spherical roller bearings can last several times longer than other spherical roller bearings on the market.





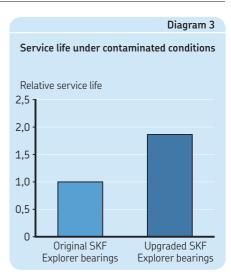
### Test conditions Lubricant: Turbo T 68 mineral oil containing 3g/l of cast iron powder κ: 1,2 C/P: 3,4

Speed: 525 r/min Running time: 72 hours All components were weighed before and after the test



## Test conditions Bearings: 22220 E Load: 140 kN Speed: 1500 r/min

Lubricant: Turbo T 9 mineral oil к: 0,45 Operating temperature = 75 °C



Competitor bearings

### 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: 3.0 Speed: 1 500 r/min Lubricant: Turbo T 68 mineral oil к: 2,1

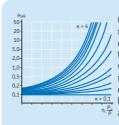
**∔**L<sub>10m</sub>

Original SKF

Explorer

## Better raceways

SKF Explorer spherical roller bearings for vibratory applications feature an improved raceway surface finish that maximizes lubricant effectiveness for a smoother, coolerrunning bearing that lasts longer.



Cooler running means higher lubricant viscosity. This in turn improves the viscosity ratio (κ), resulting in extended bearing service life (reflected by n. P. a<sub>SKF</sub>).



## A complete assortment for vibrating applications

SKF offers a large assortment of SKF Explorer spherical roller bearings for vibratory applications to meet the demanding requirements of heavy-duty equipment.

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