

SKF Explorer tapered roller bearings

SKF Explorer tapered roller bearings are designed to meet and exceed the quality and performance requirements of applications where there are heavy combined loads and tilting moments.

The logarithmic profile of the rollers provides superior load distribution. The design of the flange/roller-end contact area reduces edge loading and promotes the formation of a lubricant film even under arduous operating conditions. The optimized finish of all contact surfaces maximizes the effectiveness of the lubricant. These features significantly decrease noise, temperature and vibration levels, and virtually eliminate temperature peaks during a typical start-up period.

SKF Explorer tapered roller bearings are proven to increase uptime, while decreasing maintenance and operating costs.

Product features

- Lower noise and vibration levels
- Lower operating temperature
- Longer lubricant life
- High load carrying capacity
- High running accuracy



User benefits

- Increased uptime and productivity
- Extended maintenance intervals
- Reduced operating costs
- Reduced energy consumption
- Reduced lubricant consumption



Common applications

- Industrial gearboxes
- Rail-bound vehicles
- Wind turbines
- Wheel ends
- Hoisting equipment
- Automotive transmissions
- Escalators



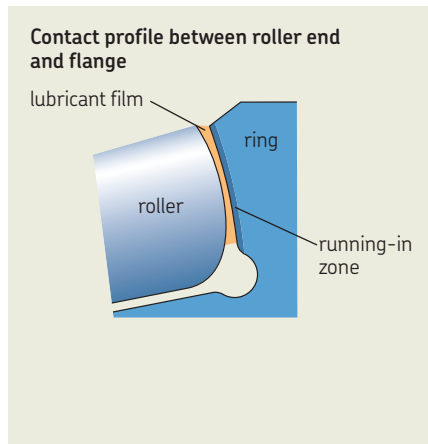
Low noise and vibration levels

A very low dimensional spread of the rollers combined with optimized surface finish (topography) provides low noise and vibration levels and enables a high degree of running accuracy.



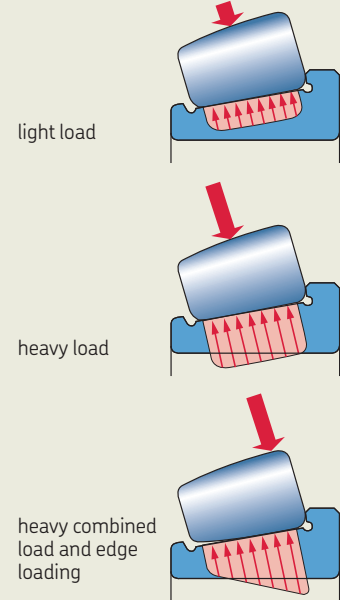
Excellent running-in properties

The superior roller end/flange contact virtually eliminates temperature peaks during start-up. Because friction, heat and wear during initial start-up is minimized, special running-in procedures are not necessary.

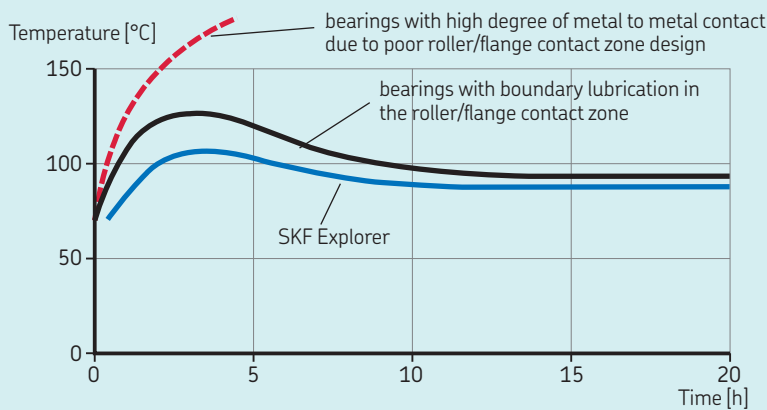


Roller/raceway contact

Logarithmic profile



Temperature during running-in



High load carrying capacity

Optimized internal bearing geometry, combined with a maximum number of rollers and optimized roller end/flange contact, enable SKF Explorer tapered roller bearings to accommodate very heavy loads. The logarithmic roller profile also makes the bearing less susceptible to edge loading.

Safe operation under preload

SKF Explorer tapered roller bearings offer a plus in safety during running-in, and help ensure a controlled low spread of the unavoidable initial preload loss.

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PUB BU/P9 06618/2 EN · June 2017

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