

Why SKF?

Tapered roller bearings



Common applications

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

SKF tapered roller bearings are designed to meet and exceed the quality and performance requirements in applications with heavy combined loads and tilting moments.

The design combines logarithmic roller and raceway profiles with an optimized surface (topography) finish and roller/flange contact. These features also enable significantly decreased noise and vibration levels, and make the bearings less susceptible to edge stresses.

Identified by the suffix "Q", SKF tapered roller bearings are proven to provide increased productivity and 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



Low noise and vibration levels

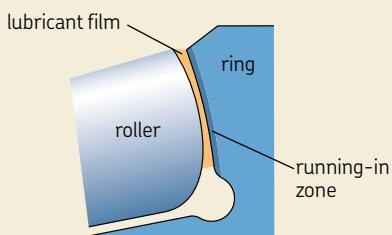
A very low dimensional spread of the rollers combined with optimized surface finish (topography) provides low noise and vibration levels and enables a high degree of running accuracy.



Safe operation under preload

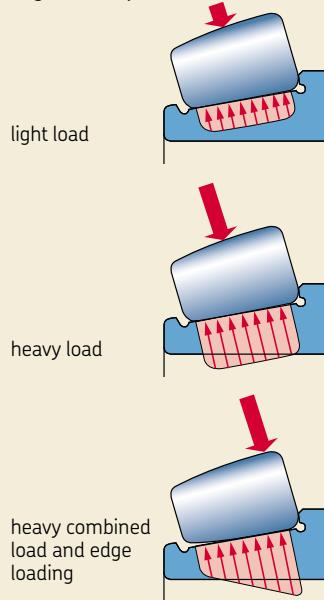
The superior roller end/flange contact virtually eliminates temperature peaks during start-up. Because friction, heat and wear during initial start-up is minimized, special running-in procedures are not necessary.

Contact profile between roller end and flange

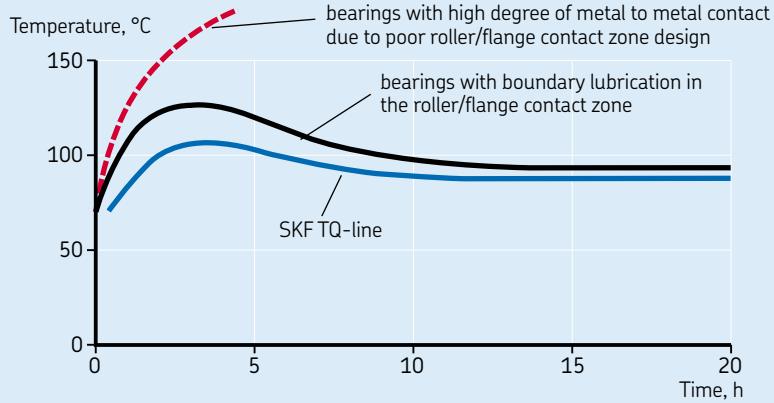


Roller/raceway contact

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 tapered roller bearings to accommodate very heavy loads. The logarithmic roller profile also makes the bearing less susceptible to edge loading.

Excellent running-in properties

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



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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