

Sealed SKF single row angular contact ball bearings

Robust, cost-effective and interchangeable

Sealed SKF single row angular contact ball bearings have an attractive combination of design features such as low friction non-contact seals and the same load carrying capacity as open variants – features that enable new design solutions for many demanding applications.

Sealed SKF single row angular contact ball bearings are ready-to-use units that are filled at the factory with the proper amount of high quality grease, under clean conditions. This means reduced need for maintenance.

Sealed SKF single row angular contact ball bearings are well suited for bearing arrangements where, due to limited space or for cost reasons, external seals are not practical. Their favourable design characteristics save space axially, enabling more compact machine design, with the result of a reduced cost of ownership.

The assortment of standard sealed SKF single row angular contact ball bearings ranges from shaft diameters 15 to 55 mm for the 72 series and 12 to 50 mm for the 73 series.



Product features

- Equipped with SKF non-contact seals
- Less friction and frictional heat
- Peak temperatures 30% lower than competitor bearings with contact seals
- Ready-to-use units
- Universally matchable with open SKF single row angular contact ball bearings
- Same load carrying capacity and speed ratings as open SKF single row angular contact ball bearings

User benefits

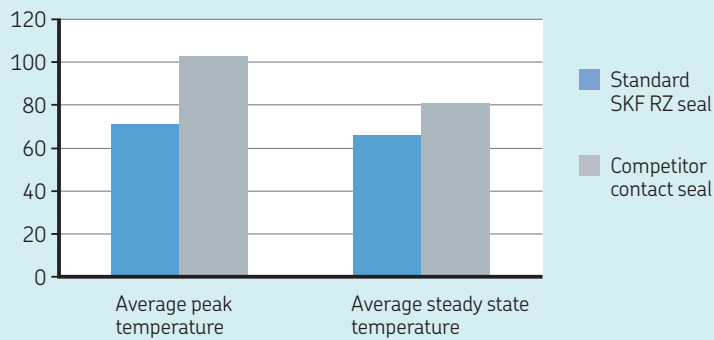
- Extended bearing service life
- Reduced maintenance cost
- Reduced cost of ownership
- High degree of reliability
- Environmentally friendly
- Cost and space saving

Industries

- Industrial Drives
- Material Handling
- Industrial Electrical

Diagram 1

Outer ring temperatures [°C]



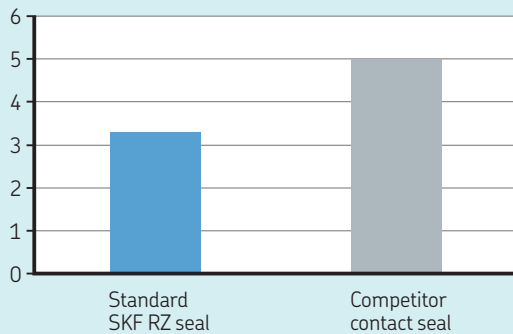
The temperature difference between standard SKF bearings with non-contact seals and standard competitor bearings with contact seals

There is no friction between the seal and its counterface on the inner ring. This reduces frictional heat (→ diagram 1), which extends the service life of the lubricant and does not affect the speed at which these bearings can operate.

Temperature measurements taken on the outer rings showed that peak temperatures for standard sealed SKF single row angular contact ball bearings were more than 30% lower than competitor single row angular contact ball bearings with contact seals and that steady state temperatures were nearly 20% lower (→ diagram 2).

Diagram 2

Average ejected grease mass [%]



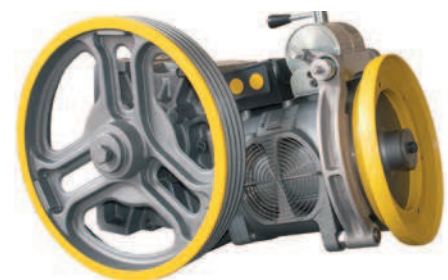
Standard SKF bearings with non-contact seals were tested against standard competitor bearings with contact seals on vertical shafts

Common applications

- Pumps
- Scroll compressors
- Elevators
- Gearboxes
- Electric motors



Electric motor



Sidor elevator gearbox

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