

SKF Energy Efficient deep groove ball bearings

Features

- At least 30% lower friction
- Optimized internal geometry
- Long life, low-friction grease
- Low-friction seals or metallic shields
- Low-friction cage, optimized for improved lubrication
- Dimensionally interchangeable with standard bearings

Benefits

- Lower total cost of ownership
- Reduced energy use
- Longer bearing service life
- Reduced operating temperature
- Higher speed capability

Typical applications:

- Electric motors, pumps and fans
- Textile machinery
- Light conveyors for postal, luggage and food conveyors
- Bulk conveyors for mining, port and power plant conveyors



SKF Energy Efficient (E2) bearings have been designed for reduced energy use, increased service life and reduced total cost of ownership in many industrial applications.

Reduce energy use with your next maintenance

When it comes to bearings, lower friction means less energy use. Shielded and sealed SKF E2 deep groove ball bearings cut bearing friction losses by 30–50% compared to SKF Explorer bearings. Compared to bearings from other manufacturers, SKF E2 bearings can reduce friction losses even more. Installing these bearings during your next round of repairs provides a valuable opportunity to save energy.

A longer service life and lower total cost of ownership

In typical applications, the service life of shielded and sealed deep groove ball bearings is determined by grease life.

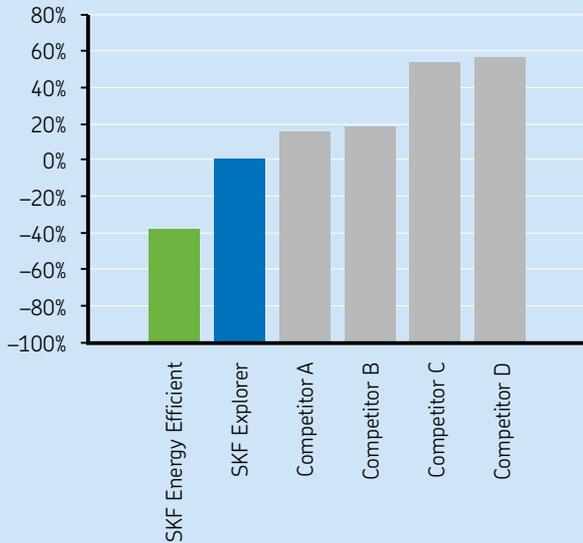
Due to their internal bearing design and special long-life, low-friction grease, SKF E2 bearings generate less frictional heat, run cooler and achieve more than twice the grease life of same size SKF Explorer bearings.

Sealed SKF E2 deep groove ball bearings are better protected against contamination and therefore can achieve even longer service life in harsh environments. This means that in applications where conventional bearings fail and are replaced, the longer service life of SKF E2 bearings could potentially halve the number of bearings consumed over the machine lifetime or even eliminate the need for replacement altogether.



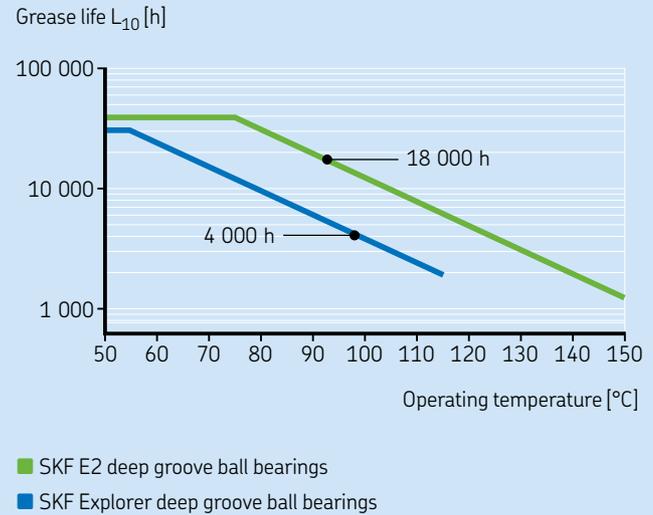
Lower friction than competitors

Test conditions: Speed: 5 000 r/min
Bearing type: 6306 with shields and C3 clearance



Longer grease life

Operating conditions: Speed: 3 000 r/min
Radial load: 8,2 kN
Bearing type: 6312 with shields and C3 clearance



A wider range of energy-saving, low-friction options

With bore sizes from 5 to 80 mm for both sealed and shielded SKF E2 deep groove ball bearings, SKF offers a wide range of low-friction, deep groove ball bearings.

Sealed options for more protection

Sealed SKF E2 deep groove ball bearings extend the range of applications for energy efficient bearings. The seals are highly effective at retaining lubricant, while excluding contamination. They enable the bearings to be used on vertical shafts and in contaminated environments, while maintaining the long service life, low-friction benefits of the shielded versions.

Optimized grease for extended grease life

SKF E2 deep groove ball bearings are filled with a specially formulated, long-life and low-friction SKF grease. Compared to SKF Explorer deep groove ball bearings, SKF E2 bearings can last more than double the mean time between failure. As an example, due to both specially formulated grease and lower operating temperature, the grease life of a E2.6312-2Z/C3 in typical electric motor operating conditions as described above is increased by 4,5 times.

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