

Benefits*

- 30-50% lower bearing friction for increased motor efficiency and reduced energy consumption
- Long-lasting, low-friction grease doubles bearing life
- Smoother running for less noise and vibration; cooler running for less heat generation in the motor
- Reduced total cost of ownership
- Reduced waste associated with maintenance / replacement
- Dimensionally interchangeable with standard bearings
- Excellent drop-in replacement for in-service electric motors
- Available off-the-shelf in selected sizes

Typical applications

- Electric motors up to IEC frame size 355 (NEMA frame size 449TS)
- Light to medium load applications with shaft diameters up to 80 mm
- * Compared to standard SKF deep groove ball bearings (in light to medium load applications)

SKF Energy Efficient deep groove ball bearings for medium size electric motors

Extended bearing range enables significant savings for motors up to 350kW

Like today's motor designers and manufacturers, electric motor rebuilders are focused on motor efficiency to reduce energy consumption, and to stay a cut above the competition. SKF Energy Efficient (E2) deep groove ball bearings can help them to do both, with a solution that's easy to implement during rebuilds.

Initially developed for electric motors up to 37 kW (50 hp), the SKF E2 deep groove ball bearing range now includes drop-in replacements for motors up to 350kW (~500 hp). The range extension features an improved internal design and surface finish, plus a special low-friction grease. The complete range includes shielded, greased-for-life bearings that can help end-users realize several benefits.





Reduce friction with your next rebuild

For bearings, friction loss = energy loss. Compared to standard SKF bearings, SKF E2 bearings cut bearing friction losses by 30–50%. Compared to bearings from other manufacturers, SKF E2 bearings can reduce friction losses even more. Installing these bearings during motor repairs gives end-users an opportunity to save energy – the bigger the motor, the bigger the potential for savings.

A longer lifecycle and lower Total Cost of Ownership

Because lower friction means less heat generated in the bearing, SKF E2 deep groove ball bearings run cooler than conventional SKF bearings. Pre-greased with our own specially developed low-friction grease, SKF E2 deep groove ball bearings can reduce the likelihood of future breakdowns, boosting uptime and process productivity.

All of these factors combine to enable faster motor speeds and longer bearing and motor lifecycles. Ultimately, SKF Energy Efficient deep groove ball bearings can boost motor uptime and energy efficiency, reducing maintenance, repairs and operating costs in the process.



This offer is part of the SKF BeyondZero portfolio of products, services and solutions designed to help our customers reduce environmental impact. To learn more, visit **www.beyondzero.com**

For more information about SKF Energy Efficient deep groove ball bearings, contact your local sales office or visit www.skf.com





Increase the return on your maintenance investment with SKF

The whole idea behind the SKF 360° Solution is to help equipment end-users get more out of their plant machinery and equipment investments. As with SKF Energy Efficient deep groove ball bearings, SKF solutions may involve lowering maintenance costs, raising productivity, or both!

UK-based rebuilder puts SKF to the test

How much energy can SKF E2 bearings save?

Matt Fletcher, a SKF Certified Rebuilder and managing director of UK-based rebuilders Fletcher Morland Ltd., decided to find out.

First, Fletcher measured the energy consumed by a brand new 7,5kW motor. He then dismantled the unit and equipped it with SKF E2 deep groove ball bearings. The result?

The motor with SKF E2 deep groove ball bearings turned slightly faster at no load test. During the load test, the motor drew 150 Watts less than it did with the standard bearings. For a 7,5kW motor, a reduction of 150 Watts is a significant saving. Applied widely to motors of bigger frame sizes and longer duty cycles in industrial facilities worldwide, the energy-saving potential is enormous.

To further emphasize the positive results of his test, Fletcher noted that "the features of the new SKF E2 bearing increase the expected service life of the motor – another benefit to our industrial users that also reinforces our good-will in the market."



® SKF is a registered trademark of the SKF Group.

© SKF Group 2012

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein. Any cost savings and revenue increases in this publication are based on results experienced by SKF customers and do not constitute a guarantee that any future results will be the same.

PUB 51/S9 13278 EN · October 2012

Certain image(s) used under license from Shutterstock.com.

