

## 01 E Type Spherical Roller Bearings

BMI Engineering has successfully developed the "Extra" capacity design of spherical roller bearings similar to European manufacturers.

This design has now surpassed the standard load rating capacity resulting in better life.

As a result, the improved price / performance ratio of the E design results in overall reduced TCO (Total Cost of Ownership) for customers.

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### Advantage

- High performance
- Lower operating cost
- Lower TCO ( Total cost of ownership )

### Range

- 20mm bore till 550 mm



For technical information, drawings or stock availability please send email on [sales@bmibearings.com](mailto:sales@bmibearings.com)

## 02 MAINTENANCE TIPS: Checklist to detect gearbox overheating

- Visually inspect the gearbox exterior for signs of overheating.
- Record temperatures from gearbox thermometers, thermocouples or resistance temperature detectors (RTDs).
- Measure oil sump temperature.
- For pressure-fed systems with an oil cooler, measure temperature at the gearbox oil inlet and outlet, as well as the cooler water inlet and outlet.

- Estimate gearbox housing and shaft temperatures using water spray.
- Survey the gearbox housing temperature by touching it with the palm of your hand and using temperature-sensitive paint, crayons and labels or a digital thermometer probe.
- Check the gearbox housing temperature using an infrared thermometer or infrared imaging camera.
- Analyze gearbox oil for signs of oxidation or thermal degradation using on-site and laboratory tests.

- Analyze gearbox oil using particle counters, spectrometric analysis and ferrography to detect wear debris.
- Inspect internal gearbox components through inspection ports for signs of overheating, misalignment, inadequate backlash, inadequate bearing endplay or oil oxidation.
- Measure gearbox sound and vibration and compare to allowable limits.

Source: <http://www.machinerylubrication.com/Read/28765/how-to-inspect-a-gearbox->

