

BEARING SOLUTIONS FOR ELECTRIC MOTOR

Energy motor consumes approximately 70 % of the electrical energy used in the Industry. Reducing energy usage and helping environment are the main focus for electrical motor manufacturers. To save energy and operational cost, NBC has developed number of bearing solutions for electric motor manufacturers. Our expertise guarantees ultimate design, product and testing to meet customer specific requirements for energy efficient motors.

NBC supplies wide range of bearings for different types of electric motors. With over seven decades experience in bearing technology and services, we enable our customer's to benefit right from development to commissioning and after sales service which include condition monitoring, application engineering support & bearing analysis.

Major Challenges

- High Torque
- Noise & vibration
- Wide temperature range
- Dirt & moisture
- Toxic fumes
- Effective lubrication
- Current flow from VFD
- Grease leakage

Bearings Requirements

- Low noise & vibration
- Low torque running
- Protection from current
- Wide temperature grease
- Control clearances
- Effective sealing
- Special grade balls
- Enhance life

Features and Benefits

- **EM Bearing for low noise application.** Bearings are with special grease, optimum clearance and special grade balls.
- **Special low torque seals** provide extreme protection against contamination.
- **InsuOhm Bearing for Electric insulation.** Coating ensures protection from current even in moist environment and also protects from heat and chemicals.
- **Superior accuracies and surface finish** for lower operating temperature.
- **Special polyamide cage** design for specific applications or on demand.

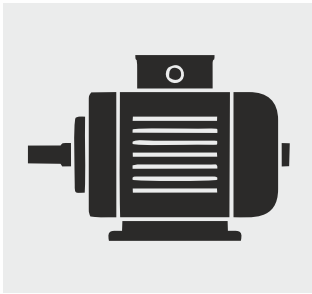
Follow us on:



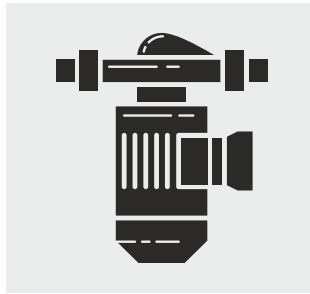
Bearing Applications

- Fractional motors
- General purpose motors
- High speed motors
- Mill motors
- Variable drive
- Severe duty motors

The bearings are designed for low friction and noise with effective sealing. These bearings are tested to ensure low levels of noise and vibration



Horizontal Electric motor



Vertical Electric motor



Deep Groove Ball Bearing



Single Row Angular Contact



Spherical Roller Bearing



Cylindrical Roller Bearing



Taper Roller Bearing



Double Row Angular Contact