

01 Big Bearings require expertise

With more than 70 years of combined technical experience from a technical team with prior experience from European manufacturers is what it took to make the project a success. These are the kind of projects that identify the capability of BMI.

Operating from India in the sector of high technological bearings with value add for OEM (Original Equipment Manufacturers) and MRO (Maintenance and Repair) requests.

With an outer diameter of 1 meter and weighing 300 Kgs this big bearing will play an essential role in proper operation of complex machinery. The design and production of the same, call for quality oriented discussions by the manufactures to avoid

unexpected faults or machine downtime.

BMI, the Indian bearings manufacturer, has always been a specialist in all four types of bearings (Spherical, Cylindrical, Taper and Thrust) with outside diameter upto 1.2 meters. Material selection is externally important for bearing end quality.

The conformity to composition, purity, hardness is significantly more complex for bars with diameter more than 150mm and ingots as well. Hence the procurement team ensure strict compliance standard with full traceability.

Based on the long historical experience for large size bearings

BMI has always been a specialist in all four types of bearings (Spherical, Cylindrical, Taper and Thrust) with outside diameter upto 1.2 meters.

BMI team had implemented a number of controls at each stage to ensure non confirming material is not passed to next stage.

For instance ultrasonic inspection of internal material structure in performed both after forging and heat treatment while MPI (Magnetic Particle Inspection) is performed after finish grinding.

For any application engineering or other requests for large size bearings feel free to contact us at sales@bmibearings.com

02 MAINTENANCE TIPS: Large bearings

Premature failure is a common fate for large-diameter (e.g., 8" to 10') bearings in heavy-duty applications where rotations are frequent.

With regular maintenance you can protect your investment in these custom-engineered bearings.

To maximize bearing life, simply follow these tips—raceway and gear lubrication, torque checks on

bolts, and seal inspection—and be alert for four warning signs of potential bearing problems.

Bearing lubrication: A bearing should be lubricated at regular intervals with heavy-duty, extreme-pressure grease about every 100 hours of operation.

Gear lubrication: Since the meshing action of the teeth tends to squeeze out lubricant, gears should be lubricated every 8 hours on slow-rotating or intermittently rotating equipment, and more

often on rapidly or continuously rotating equipment.

Seals: Usually overlooked, but very important - The seals on the bearing should be visually inspected periodically to be sure they are intact to prevent bearing raceway contamination.

Bolts: Mounting bolts should be torqued to the proper level and checked periodically to ensure proper pre-tension to prevent to equipment damage or injuries to workers.

Source: http://www.kaydonbearings.com/white_papers_4.htm

