

01 A HEFTY CHALLENGE: Tailor-made 4 row cylindrical bearings

An Italian customer recently challenged the UST team's strong engineering knowledge to develop a special 4 Row Cylindrical Roller Bearing for heavy machinery for . steel plant application

Weighing nearly 40 kgs with an outer diameter of 290mm, this bearing was one of the most challenging projects taken up by UST. The UST production team successfully executed the project . within a short span of 12 weeks

To deal with the heavy radial load application, the engineering team used Special steel 100CrSiMn6 for better results. The grading of



cylindrical rollers was achieved within 3 microns for better accuracy. Given the satisfactory performance of the bearings customer has expressed interest in developing other large bore bearings for their machinery. Not only was UST able to offer performance equivalent to European brands we were also able to offer faster delivery and Weighing nearly 40kgs with an outer diameter of 290mm, this bearing was one of BMI's most .challenging projects

smaller MOQ (Minimum Order . (Quantity

This customer breakthrough was very important for UST to establish its name in the steel industry as this customer has a long standing reputation for building machines for steel plants for more than 50 . years

02 MAINTENANCE TIPS: Grease lubrication

Anti-friction bearings consist of some type of rolling element confined within an inner and outer . ring

In normal operating conditions, anti-friction bearings can be grease lubricated. The free space in the housing and bearing should only be partially filled with grease. 30% to 50% grease in the bearing . housing is considered adequate

Take care not to overfill the grease as this may cause a rapid rise in

temperature, particularly at high speeds or it may prevent a bearing that is designed to float in its housing from operating properly. Bearings operating at slow speeds and those that require corrosion protection may have their housings completely full of grease. . Additionally, over-filling

If re-lubrication is not possible at frequent intervals due to operating conditions, it is sufficient to open the bearing housing to remove as much used grease as possible from the bearing. Then, repack fresh grease between all the rolling .members from one side only Some provision is made for regreasing, usually in the form of a grease nipple fitted to the bearing housing if frequent re-lubrication is possible. A grease gun adds fresh grease to the bearing and replaces . the old grease

The lubrication duct in the housing should either feed the grease adjacent to the outer ring face, or, preferably, into the bearing by means of the lubrication groove. After numerous re-lubrications, the bearing housing should be opened and the used greased removed .before fresh grease is added

