



## **WE PROVIDE MORE THAN BEARINGS. WE PROVIDE SOLUTIONS THAT DELIVER RESULTS**

**SAB is a leading Bearing Manufacturer in India provides bearing solutions for vast range of industrial applications.**

Faster lead times, an expanding product line, state-of-the-art factory and a proprietary product quality management system has positioned us as a performance leader in the bearing industry.

All our bearings are manufactured with our most advanced Bearing Technology to significantly extend the life of bearings and reduce metal to metal friction – saving time and operation costs.

As a value-added service, we offer complete bearings fitment to maintenance solutions to our valued customers.

### **Technology**

#### **I. Material Technology**

- 1) Advanced bearing steel research and development team.
- 2) Develop bearing steel High static load capacity.
- 3) Excellent resistance to shock, misalignment, chemicals, and contamination
- 4) Superior friction and wear properties
- 5) Use of different bearing steel for specialized applications like rolling mill bearings, etc.

#### **II. Design Technology**

- 1) In House Research & Development
- 2) Continuous work on newer designs, various combinations of loads and design through mathematical models.
- 3) State of the art finite element software and bearing life modelling. □ Model surrounding parts



- Integrate deformation into the bearing life calculation.
- Analyse bearing rolling contact stresses.
- Optimization of the bearing design

### III. Friction and Lubrication Technology

- 1) Application of mathematical modelling and latest design tools on the friction technology and lubrication technology;
- 2) Determine the optimum parameters of the oil film lubrication.
- 3) Confirm the optimum proportion between the surface roughness and oil film thickness of the bearing outer ring and rollers for metallurgical cold rolling mill intermediate roll, working roll, to make the bearing life improved.

### IV. Surface Modification Technology

Adopt surface treatment techniques like nitriding, carbonitriding, sulphurizing and black oxide coating and corrosion prevention and etc. to improve rolling bearing surface lubrication performance, as per specialized applications needs for optimized life of bearings.

### V. Inspection and Test Technology

- 1) Advanced level inspection and testing inhouse facilities for bearing life and reliability test, bearing performance test and simulation test, physical and chemical property test and analysis of the bearing metal and nonmetal materials, analysis of bearing precision and
- 2) Process inspection control.
  - 100 % Raw materials ultrasonic flaw detection.
  - 100 % Dimension and form and position accuracy detection 100 % Extra-large bearing magnetic powder inspection.
  - Identity Card" traceability management.
  - SPC statistics



## Product

Our bearings offer customers numerous advantages, such as:

Maintenance-free operation

Low wear rate

High static and dynamic load capacity

Bearings and their performance remain essential to the effective performance of machinery. These small components must be reliable and low maintenance to ensure the smooth operation of equipment. After all, it is more favourable to replace a single bearing in an electric motor than to replace the entire motor.

That is why no matter the type of bearing, consistent quality products and reliability characterize all our stock. What's more, our specialist application knowledge and industrial bearing expertise means we're constantly on hand to offer technical support. We understand the headache that downtime can bring, so whether you're after specialist relubrication, a speedy replacement or advice on a niche design engineering project, we can help.

## Service:

- 1) New product development and services:
  - i. Investigate customers' needs and formulate new product development plans.
  - ii. Professional team serve the new product development.
- 2) Professional service for strategic customers:

Professional team offer the service to the customer for proper bearings selection to fitment advisory;
- 3) Centralized management of orders and on-time delivery:
  - i. Special bearing production lines manufacture bearing according to order.
  - ii. General bearings replenish stock:
  - iii. All the orders process is traced according to the timeline,
- 4) Training Service:



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- i. Professional engineers come to customers and train them for installation, using and test failure analysis of bearing.
  - ii. The bearing sales and agent staff are trained regularly;
  - iii. Regularly issue the professional catalogues on various segment of industrial bearings: cement, steel, sugar, heavy earth moving equipment, mining, drive, railway, automotive, various industrial machinery etc.
- 5) Set up customer profiles, improve individualized service:
- i. Establish customer profiles and tracking the Customers' demands;
  - ii. Solve the problem in the first time and improve the solution according to customers' demands.
  - iii. Ask customers to evaluate the SAB service team:
  - iv. SAB's Expert service team fully equipped to deliver the most practical and effective service to customers.
- 6) Shorten the service radius of customers:
- i. SAB has nation wide network of Business Associates and Technical partners in industrial.
  - ii. SAB distribution centres cater to the urgent bearing solutions needs of its customers.

### Manufacturing Facilities

SAB bearings are manufactured in most advanced manufacturing facilities and from raw steel to finish products every stage production process are aligned for best quality bearing.