Bearing Solutions for the Heavy Equipment Industry.
The AXPB RBtech Brand.

RBI Bearing, Inc., your trusted source of premium bearings and high quality power transmission products for the past 25 years, is pleased to announce the introduction of our new line of precision, engineered bearings, utilizing state-of-the-art technology, designed for heavy industrial applications. This new product line will be sold as the AXPB RBtech brand. It will join our existing RBI product offerings. The AXPB RBtech product line is the result of a joint venture between RBI Bearing and UBC/AXPB.

AXPB RBtech manufactures solutions for the following industries:
- Compressors (Air and Gas)
- Pumps
- Gearboxes
- Wind Turbines
- Planetary Drives
- Construction Machinery
- Vibratory Screens
- Crane Sheaves
- Cement Mixer
- Mining Equipment
- Steel Mill Industry
- Machine Tool
- Oil and Gas
- Port Equipment
- And many more

AXPB RBtech Product Range
- Spherical Roller Bearings
- Tapered Roller Bearings
- Cylindrical Roller Bearings
- Angular Contact Ball Bearings
- High Precision Spindle Bearings
- 4-point Angular Contact Ball Bearings
- Sheave Bearings
- Vibratory Screen Bearings
- Gear/Bearing Units
- Full Complement Bearings

What are the premium features of AXPB RBtech Bearings?
- Premium Raw Materials
- Top-tier Component Suppliers
- Advanced Quality Management Systems
- State-of-the-Art Manufacturing Facility
- German Engineered Production Equipment
- Hard Turning Processes
- Superior Superfinishing
- Premium Packaging
- Complete Traceability
- Extensive Product Range
- Attention to Detail

Manufacturing Facility
- Located in Suzhou, China
- 90,000SF production floor area
- 35,000SF R&D center
- 130,000SF workshop
- Fully staffed support services including product design and manufacturing engineering teams
- High precision bearings, large size bearings, ring turning, heat treatment, and distribution center.
- Fully sealed work floor
- Temperature controlled environment
- Central emulsion supply system
Production Basics

Machines
- All machines controlled by SIEMENS Systems interfaces
- German engineered production machinery, most notably Thielenhaus superfinish machinery
  - CRB and TRB with logarithmic raceway profiles for optimum bearing life
  - Internal tolerance P5+ accuracy
- Vertical turning machinery for hard turning process
- 3-Stage ultrasonic washing equipment
- Quality Control
  - 100% traceable material, components, manufacturing, assembly, etc.
  - Data matrix or bar code marking on product. No mixing during handling
  - Manufacturing SPC controlled at center of tolerance

Advanced Quality Management Systems
- Mahr profile meter
- Mitutoyo Roundness Tester
- Fluorescent Magnetic Particle Testing Machine
- Zeiss Metalloscope

Raw Materials and Components
- 100Cr 6, Jiangsu Xingcheng special steel (SKF Grade 3 ultra-clean steel is standard)
- Forging: Zhangjiagang Hongyang steel products company (qualified by Schaeffler)
- Brass cage: Becotek (Sweden), and TLD Dalian (Schaeffler supplier)
- Stamping cage: Harsha (cage supplier of Timken and Schaeffler)
- Roller: Halyate (roller supplier for NSK and SKF)
- Salt bath through hardening, case hardening, and stainless steel hardening (Bainitic hardening also available.)
- Upon request, retained austenite less than 2% can be guaranteed 62 (+/- 2) HRC up to 180°C
- Temperature stabilizing up to 54 / 350°C

Advanced Technology Design Focus

Hard Turning
- High axial load carrying capacity due to optimized rib contact
- A higher level of energy efficiency due to reduced frictional torque
- Lower maintenance costs
- Lower operating costs due to reduced energy consumption
- Increased performance
- Suitable for extremely high radial loads
- Suitable for very high speeds

Control
- Modern metrology and a climate controlled manufacturing environment consistently provides precise measurements
- Reduced tolerances levels of ABEC 5 and above
- Control over material and process for demanding applications

Material, Forging and Heat Treatment
- Ultra-clean, extremely wear resistant, low oxygen level bearing steel
- Forging and ring rolling in state-of-the-art facilities
- Salt bath hardening, along with sub zero treatment to assure residual austenite levels lower than 2%
**AXPB RBtech Core Products**

**Tapered Roller Bearing**
*Features:*
- Metric and Inch Sizes
- Single Row, Double Row, Multi-Row
- Universal Interchangeable cup, cone, and roller assembly
- Optimized Rib Design for 1.5X axial capacity
- Raceway Logarithmic Geometry reduces stress and ensures optimum bearing life

**Cylindrical Roller Bearings**
*Features:*
- Available in single row, double row, multi-row and full complement designs
- Machined brass, L-PPS, and plastic cages
- Hard-turned ribs for optimum performance
- Raceway Logarithmic Geometry reduces stress and ensures optimum bearing life

**Spherical Roller Bearing (available w/seals)**
*Features:*
- Available in a variety of configurations, including
  - E-type and sealed versions
  - Cage materials include Machined Brass, Polyamide, and Pressed Steel
- Advanced internal geometries for optimum performance characteristics

**Used in industries such as:**
- Compressors
- Pumps
- Gearboxes
- Construction Machinery
- Mining Equipment

**Angular Contact Ball Bearing**
*Features:*
- High precision, high load capacity designs
- Premium and standard cage materials; L-PPS, Machined Brass, Polyamide
- Universally ground for paired mounting
- Available with 3 axial clearance classes
- Available with 3 preload classes
- Super Precision spindle bearings also available in ABEC 7-9 precision with phenolic cage option

**Used in industries such as:**
- Compressors
- Pumps
- Gearboxes
- Construction Machinery
- Machine Tools

**Four Point Angular Contact Ball Bearing**
*Features:*
- Supports radial and bi-directional axial loads
- Split inner ring enables greater ball quantity for increased load capacity
- Requires less space than other angular contact bearing designs

**Used in industries such as:**
- Compressors
- Gearboxes
- Construction Machinery
- Machine Tool

**Sheave Bearing**
*Features:*
- High Dynamic and Static Load Capacity
- Inner Ring is ground and split before assembly for precision assembly
- Optimized Rib Design ensures 2-3X axial load capacity
- Advanced Seal Design

**Used in industries such as:**
- Construction Machinery
- Crane Sheave
- Elevator

**Next Generation Gear Unit**
*Features:*
- Integration of bearing and gear into one unit
- Reduced installation time and cost
- Improve gear bore profile and roughness as bearing outer ring
- Increase combined unit load capacity

**Used in industries such as:**
- Planetary Gear Drives
- Final Reduction Drives
- Wind Energy
The RBI Difference

• Our Customers Trusted Partner for over 25 years
• Established Quality Brand
• Wholly Owned Bearing Manufacturer
• Wholly Owned Precision Machine Parts Manufacturer
• Wholly Owned Casting Manufacturer
• North American Sales, Service and Warehousing
• Bilingual North American Sales and Engineering
• Bilingual Asian Sales and Engineering

• Licensed International Trading Company
• Manufacturing Facilities are ISO9001 and TS16949 Certified
• Cross Culture Integrated Working System
• Engineering and Technical Support
• Custom Product Development
• Logistics Experts
• Sourcing Specialists
• Customized Stocking/Consignment Programs

For more information call 1-800-708-2128 or visit www.rbibearing.com

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