ANGULAR CONTACT BEARINGS

Keeping the world in motion >>
AXPB and RBtech recently developed a joint venture/partnership between AXPB Suzhou and R.B. International Group. AXPB RBtech operates a new, state of the art manufacturing facility that has passed strict audits by some of the most demanding industrial companies worldwide. We have been able to accomplish this by adopting the latest in European manufacturing technology that previously was offered only by major, global bearing companies and investing in equipment such as Thielenhaus equipment from Germany. Japanese production and quality management systems have also been adopted as part of AXPB RBtech’s overall commitment to quality. Allowing AXPB RBtech to manufacture affordable, world class quality products with peak performance.

Our factory is ISO 9001 certified and observes our Quality Management System according to TS16949:2016. To be a “World Class Manufacturing” operation our factory utilizes 5S Site Management & Safety Production Management practices.

- Improved production capabilities by 30% since 2016
- Top-tier component suppliers
- Temperature controlled environment
- Premium packaging
- Central emulsion supply system
- Complete traceability
- Premium raw materials
- US inventory

Our new, main warehouse and distribution center is centrally located in Chicago Illinois. Once shipments reach our warehouses, the skids are checked in and assigned storage space in our warehouse through a bar coding system. The bar codes assigned to the product and warehouse location are linked together and uploaded into our Warehouse Management System.

- FIFO (1st in 1st out) inventory program
- Centrally located warehousing
- Lot number tracking system
- Special packaging requirements
- Package / skid quantity programs
- Custom stocking programs
- Air and sea freight forwarding
- Bar coding
AXPB RBTECH ANGULAR CONTACT BEARINGS.

AXPB RBTech’s Angular Contact Bearing series are designed for combination loading – both radial and thrust loads. Moderate radial loads are available in a variety of sizes and configurations. Our popular 7200 & 7300 series are engineered with a high load capacity, machine brass cages, 40° contact angles with universal matching. This enables flexibility to mount our bearings as single units or in sets of two or more units to accommodate various application requirements.

BenEFITS:

- Ultra clean bearing steel
- 5 cage material options
- Improved brass cage design
- 6 options for clearance or preloads
- High temperature & chemical resistant cages
- Heavy load capacity design
- Handles radial & axial loads
- Super finished raceways
- 40° contact angle for extra thrust capacity
- Smoother, quieter operation
- High speed operations
- Increased wear resistance
- Low friction

RBI Single Row Angular Contact Ball Bearings:

- Handle both radial & axial loads
- Use a non-separable design
- Made with Universal matching design that enables use in pairs or sets
- Capable of high speeds

Our universal grinding permits various mounting arrangements as shown below:

VARIOUS INDUSTRIAL APPLICATIONS:

- Electric motors & generators
- Pumps & compressors
- Large ventilation fans
- Industrial gear boxes
- Material handling equipment
- Textile machinery
- Machine tool spindles
ANGULAR CONTACT BEARING
TECHNICAL SPECS

AXPB RBTech
Advanced Technology

Size Options
- 7200 series (7200 to 7226)
- 7300 series (7300 to 7330)

Cage Materials
- Machined brass
- Polyamide
- L-PPS
- Pressed steel
- Phenolic

Cage Design
- Ball guided design
- Inner ring guided design
- Outer ring guided design

High Precision Grades
- P6
- P5
- P4

Clearances & Preloads

<table>
<thead>
<tr>
<th>Clearances</th>
<th>Preloads</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA</td>
<td>GA</td>
</tr>
<tr>
<td>CB</td>
<td>CB</td>
</tr>
<tr>
<td>CC</td>
<td>GC</td>
</tr>
</tbody>
</table>

Universal Matching
- SU (single universal)
- DU (double universal)

Contact angles
- 15°
- 30°
- 40°

Control
- Climate controlled manufacturing environment
- Precision levels of ABEC 5 and above
- Control over material and process
- 100% traceable material, components, manufacturing, assembly
- Data matrix or bar code marking on product. No mixing during handling
- Manufacturing SPC controlled at center of tolerance

Material, Forging and Heat Treatment
- Ultraclean, 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 less than 2%

Machines
- German engineered production machinery controlled by SIEMENS Systems interfaces
- Vertical turning machinery for hard turning process
- German engineered production machinery, most notably Thielenhaus superfinish machinery
- 3-Stage ultrasonic washing equipment

FOR MORE INFORMATION, QUOTES OR SAMPLES
CALL YOUR RBI SALESMAN AT 1-800-708-2128.

Cage Material | Suffix | Description
--- | --- | ---
Brass | M | Machined brass, ball guided design
Nylon | TN | Nylon (PA66), ball guided design
Plastic | TN7 | L-PPS (Linear polyethylene sulfide), ball guided design
Steel | J | Pressed steel, ball guided design
Phenolic | T | Machined phenolic cage

Country | Bearing steel | Standard
--- | --- | ---
USA | 52100 | ASTM/A295
Germany | 100Cr6 | DIN 17230
Japan | SUJ2 | JIS G4805
China | GCr15 GB/T 18254 | 52100

Data matrix or bar code marking on product. No mixing during handling

Control
- Climate controlled manufacturing environment
- Precision levels of ABEC 5 and above
- Control over material and process
- 100% traceable material, components, manufacturing, assembly
- Data matrix or bar code marking on product. No mixing during handling
- Manufacturing SPC controlled at center of tolerance

Material, Forging and Heat Treatment
- Ultraclean, 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 less than 2%

Machines
- German engineered production machinery controlled by SIEMENS Systems interfaces
- Vertical turning machinery for hard turning process
- German engineered production machinery, most notably Thielenhaus superfinish machinery
- 3-Stage ultrasonic washing equipment

FOR MORE INFORMATION, QUOTES OR SAMPLES
CALL YOUR RBI SALESMAN AT 1-800-708-2128.
AXPB RBTECH ANGULAR CONTACT BEARING BENEFITS

- Ultra clean bearing steel
- 4 cage material options
- Improved brass cage design
- 6 options for clearance or preloads
- High temperature & chemical resistant cages
- High load capacity design
- Handles radial & axial loads
- Super finish raceways
- 40° contact angle for extra thrust capacity
- Smoother, quieter operation
- High speed operations
- Increased wear resistance
- Low friction

Locations

**RBI BEARING U.S.**
**CHICAGO - Headquarters**
101 S. Gary Ave. Ste. B
Roselle, IL, 60172
800-708-2128

**LOS ANGELES**
800-358-7652

**RBI BEARING CANADA**
**TORONTO**
800-724-2426

**WUXI R.B. PRECISION BEARING CO.**
Wuxi, Jiangsu, China
86-510-8521-3931

**WUXI R.B. PRECISION MACHINERY CO. LTD.**
Wuxi, Jiangsu, China
86-510-8521-3931

**WUXI AFORST PRECISION MACHINERY MANUFACTURE CO., LTD.**
Wuxi, Jiangsu, China
86-510-8521-3931

**AXPB RBtech**
Changshu City, JiangSu Province
800-708-2128

**WUXI R.B. INTERNATIONAL TRADING CO.**
Wuxi, Jiangsu, China
86-510-8521-3931