



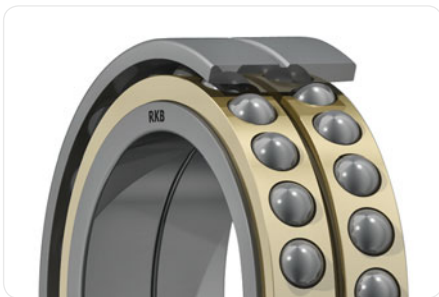
# RKB

BEARING INDUSTRIES



## The Swiss Premium Class Bearing Manufacturer

RKB (Roulement, Kugellager, Bearing) is the Swiss bearing manufacturing organization which has been operating in the bearing industry for over 70 years, with a monthly production capacity exceeding 350 tons of machined steel. The experience gained over the years provides RKB with the expertise necessary for the development and manufacture of technological industrial bearings up to 1925 mm outer diameter. RKB offers reliable cost effective solutions, extreme operational flexibility, leading-edge service, huge stock availability, short delivery time and the high, consistent quality of a premium class bearing manufacturer. With a worldwide distribution network and exports to more than 50 countries, RKB is globally recognized as *"The Alternative Power"* in the bearing industry.



## RKB Ball Bearings

The ball bearings (BBs) manufactured by RKB come in many designs, dimensions and series. They are conceived to withstand combined loads and high speeds, covering most requirements in a number of standard and special industrial applications. All RKB BBs are made from high quality materials and special heat treatments for superior performance.

Available in single and double row configuration, in open or sealed version, they are low-maintenance, which makes them an irreplaceable cost-effective solution in many cases.

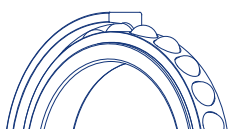
For large size BBs, RKB can also apply Bainite Hardening Treatment (HB) and High Temperature Dimensional Stabilization (S) on rings and balls. The bearing dimensional and running accuracy conforms to ISO/ABMA/GOST specifications.



## Angular Contact Ball Bearings

The angular contact ball bearings (ACBBs) produced by RKB are used in a wide array of machines where combined loads, high speeds and runout accuracy are required. Available in single or double row configuration, they can be manufactured with different types of cage (machined brass, pressed steel or polyamide) and dimensional precisions.

Single row ACBBs can be directly paired by RKB in face-to-face (DF) or back-to-back (DB) configuration, depending on load conditions, presence of tilting moments and misalignment magnitude in the application.



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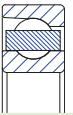
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ENGINEERED IN SWITZERLAND  
TECHNOLOGICAL BEARINGS



## Main Designs

### M type

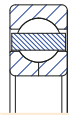


- One-piece inner and outer ring
- One-piece machined brass cage guided on balls (M)
- Available with machined brass cage guided on inner ring (MB)
- Single non-universal bearing execution
- Suitable for very high operating speeds
- Available with 25°, 30° or 40° contact angle

**HB**  
BAINITE HT

**S**  
STABILIZATION

### QJ type

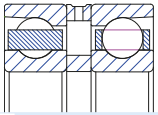


- One-piece outer ring
- Two-piece inner ring circumferentially split
- One-piece machined brass cage guided on outer ring (MA)
- Supports only axial loads
- Two locating slots (N2)
- Available also with one-piece inner ring and two-piece outer ring (Q)

**HB**  
BAINITE HT

**S**  
STABILIZATION

### DB type



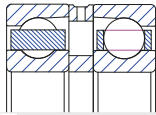
- Back-to-back arrangement (DB) of two ACBBs
- One-piece machined brass cage guided on balls (M)
- Preset or adjusted BEP on customer's request
- Available with machined brass cage guided on inner ring (MB)
- Available with inner and/or outer spacers featuring lubrication grooves and/or lubrication holes
- Stiffer arrangement to withstand tilting moments

**HB**  
BAINITE HT

**S**  
STABILIZATION

**O<sup>+</sup>**  
OPTIMIZED

### DF type



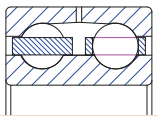
- Face-to-face arrangement (DF) of two ACBBs
- One-piece machined brass cage guided on balls (M)
- Preset or adjusted BEP on customer's request
- Available with machined brass cage guided on inner ring (MB)
- Available with inner and/or outer spacers featuring lubrication grooves and/or lubrication holes

**HB**  
BAINITE HT

**S**  
STABILIZATION

**O<sup>+</sup>**  
OPTIMIZED

### DFm type

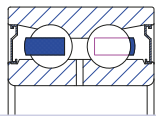


- Double row ACBB face-to-face arrangement (DF)
- Non-separable open design
- One-piece machined brass cage guided on inner ring (MB)
- Lubrication grooves and holes in outer rings
- Supports high combined loads

**HB**  
BAINITE HT

**S**  
STABILIZATION

### DB+ZZ type



- Double row ACBB back-to-back arrangement (DB)
- Non-separable shielded design (ZZ)
- Moulded glass fiber reinforced polyamide snap-in cage guided on balls (TN)
- Available with lubrication holes in the inner ring
- Shielded type to keep the grease inside the bearing without compromising the limiting speed
- Supports high combined loads

**HB**  
BAINITE HT

**S**  
STABILIZATION

**O<sup>+</sup>**  
OPTIMIZED

**R<sup>+</sup>**  
REINFORCED

