

# 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 Thrust Bearings

The thrust bearings (TBs) manufactured by RKB are designed to support high axial loads and, in some cases, even moderate radial loads. The manufacturing program includes single and double direction TBs with flat or spherical housing locating washers to meet any requirements in various industrial applications. Thanks to the improved internal geometry and the use of the most suitable raw materials, all RKB TBs attain the highest axial load ratings and the best reliability.

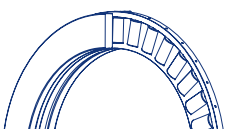
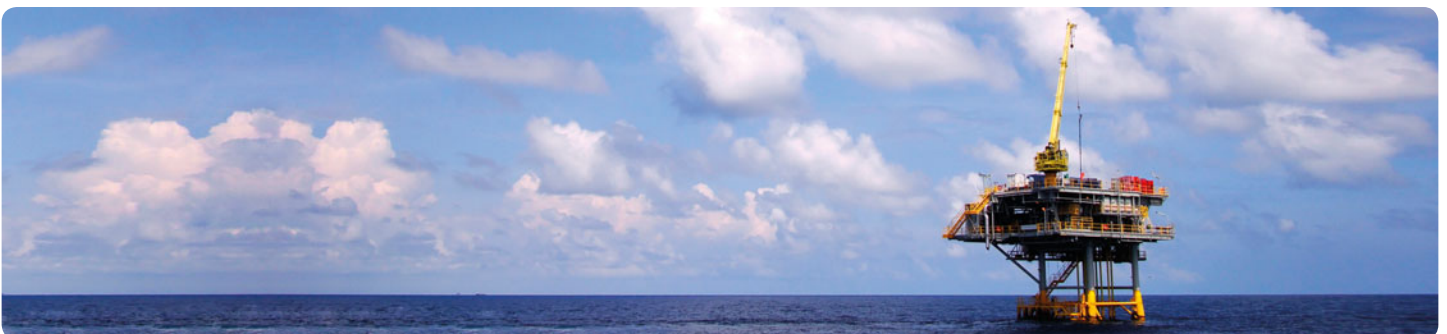
Depending on application requirements, RKB Bainite Hardening Treatment (HB) and High Temperature Dimensional Stabilization (S) can be applied on bearing rings and rolling elements. The bearing dimensional and running accuracy conforms to ISO/ABMA/GOST specifications.



### Single Direction Thrust Bearings

The broad portfolio of single direction thrust bearings (SDTBs) engineered and produced by RKB offers cost-effective solutions for the most demanding industries.

SDTBs can withstand only unidirectional axial loads, axially locating the shaft. Roller and raceway profiles are designed and manufactured to reduce stresses and minimize roller-edge effect. Depending on machine requirements and operating conditions, they can be customized to enhance application performance in a reliable and efficient way.



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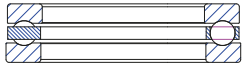
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ENGINEERED IN SWITZERLAND  
TECHNOLOGICAL BEARINGS



### Main Designs

#### 51M type



- Flat housing locating washer
- Separable design
- One-piece machined brass cage (M) guided on balls
- Supports unidirectional axial loads
- Available with sphered housing washer

**HB**

BAINITE HT

**S**

STABILIZATION

#### EM type



- Asymmetrical roller profile
- One-piece machined brass cage (M) guided on shaft washer (M)
- Reinforced and optimized execution (E)
- Supports unidirectional axial loads and angular misalignment

**HB**

BAINITE HT

**S**

STABILIZATION

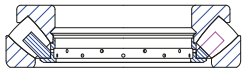
**O<sup>+</sup>**

OPTIMIZED

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

REINFORCED

#### EMevo type



- Asymmetrical roller profile
- One-piece EVO type machined brass cage guided on shaft (M)
- Reinforced and optimized execution (E)
- Supports unidirectional axial loads and angular misalignment

**HB**

BAINITE HT

**S**

STABILIZATION

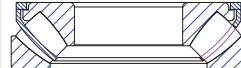
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OPTIMIZED

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

REINFORCED

#### EJ type



- Asymmetrical roller profile
- High strength pressed steel cage (J) guided on shaft washer
- Reinforced and optimized execution (E)
- Supports unidirectional axial loads and angular misalignment

**HB**

BAINITE HT

**S**

STABILIZATION

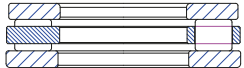
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OPTIMIZED

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

REINFORCED

#### 81M type



- Flat housing locating washer
- Low cross section separable design
- Two-piece machined brass cage (M) guided on rollers
- Supports unidirectional axial loads
- Available with sphered housing washer

**HB**

BAINITE HT

**S**

STABILIZATION

**PROFILE**

PROFILE

#### 89M type



- Flat housing locating washer
- Two rows of rollers
- Two-piece machined brass cage (M) guided on rollers
- Low cross section separable design
- Supports unidirectional axial loads

**HB**

BAINITE HT

**S**

STABILIZATION

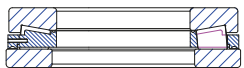
**PROFILE**

PROFILE

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

REINFORCED

#### TKcr type



- Two-piece machined brass cage (M)
- Supports unidirectional axial loads
- Stiff arrangement

**HB**

BAINITE HT

**S**

STABILIZATION

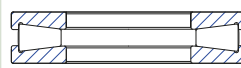
**O<sup>+</sup>**

OPTIMIZED

**PROFILE**

PROFILE

#### TKv type



- Full complement (cageless) design for increased carrying capacities
- Supports unidirectional axial loads
- Stiff arrangement
- Reduced limiting speed compared to caged design

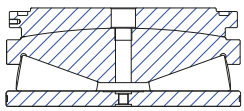
**HB**

BAINITE HT

**S**

STABILIZATION

#### TKSD type



- Full complement cageless design conceived for extremely high axial loads
- Special execution for screw-down mechanism
- Available with sphered shaft washer and pressure plate
- Reduced limiting speed

**HB**

BAINITE HT

**S**

STABILIZATION

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

REINFORCED

