

# 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 Tapered Roller Bearings

The tapered roller bearings (TRBs) manufactured by RKB are engineered to withstand combined radial and thrust loads. Available in a rich portfolio of designs and sizes, in standardized and non-standardized dimensional series, RKB tapered roller bearings can be in metric or inch measurements and represent the state of the art. Manufactured from high hardness materials, featuring unparalleled fatigue strength and resistance to wear, RKB TRBs provide excellent performance even under severe operating conditions.

RKB's single row, matched pair, double and four-row tapered roller bearings are optimized to ensure increased load carrying capacities and high stiffness in special applications. RKB Bainite Hardening Treatment (HB) and High Temperature Dimensional Stabilization (S) can be applied on bearing rings and rollers.



### Double Row Tapered Roller Bearings

RKB double row tapered roller bearings (DRTRBs) are produced in several configurations (TDO, TDOS, TDI, TDIS) to support combined forces and locate the shaft in both directions. Manufactured with a given axial clearance (BEP), DRTRBs can fully exploit their potential in a variety of industries and applications. In order to manufacture products with the highest possible resistance to fatigue and wear, RKB makes use of different bearing steel grades and special heat treatments. The bearing dimensional and running accuracy conforms to ISO/ABMA/GOST specifications.

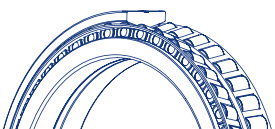


RKB Europe SA  
Executive Headquarters and Technological Center

Via Primo Agosto · 6828 Balerna  
Switzerland

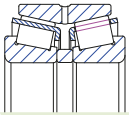
Phone +41 91 260 09 30 · Fax +41 91 260 09 50  
info@rkbeurope.com · www.rkbbearings.com  
VAT No. CHE-113.327.770

ENGINEERED IN SWITZERLAND  
TECHNOLOGICAL BEARINGS



### Main Designs

#### TDO type



- One ribless outer ring (one double cup)
- Two inner rings with two ribs each (two single cones)
- Two one-piece window type pressed steel cages
- One single spacer between inner rings (plain or with lubrication grooves and holes)
- Supports radial and axial loads in both directions
- High arrangement stiffness
- Reduced angular misalignment
- Optimized roller profile (ZB)
- Preset or adjusted BEP on customer's request
- Available in metric and inch sizes



OPTIMIZED



BAINITE HT

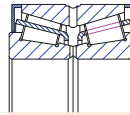


STABILIZATION



PROFILE

#### TDONASW type



- One ribless outer ring (one double cup)
- Two inner rings with two ribs each (two single cones)
- Two one-piece window type pressed steel cages
- Lubrication grooves in cones internal side face
- Lateral shields or seals for contaminant exclusion
- Execution without spacer
- Supports radial and axial loads in both directions
- High arrangement stiffness
- Optimized roller profile (ZB)
- Preset or adjusted BEP on customer's request
- Available in metric and inch sizes



OPTIMIZED



BAINITE HT

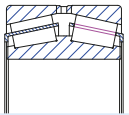


STABILIZATION



PROFILE

#### TDI type



- Two ribless outer rings (two single cups)
- One inner ring with three ribs (one double cone)
- Two one-piece window type pressed steel cages
- One single spacer between outer rings (plain or with lubrication grooves and holes)
- Supports radial and axial loads in both directions
- Optimized roller profile (ZB)
- Preset or adjusted BEP on customer's request
- Available in metric and inch sizes



OPTIMIZED



BAINITE HT

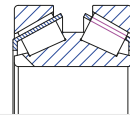


STABILIZATION



PROFILE

#### TDIS type



- Two ribless outer rings (two single cups)
- One inner ring with three ribs (one double cone)
- Two one-piece window type pressed steel cages
- Supports axial loads in both directions
- Designed with increased contact angle
- Suitable for high axial load carrying capacity
- Available with steel pin type cage and pierced roller design
- Available with one or more antirotation keyway slots on each side of double cone
- Available in metric and inch sizes



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BAINITE HT

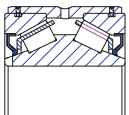


STABILIZATION



PROFILE

#### TDISS type



- Two ribless outer rings (two single cups)
- One inner ring with three ribs (one double cone)
- Two one-piece window type pressed steel cages
- Lateral seals for contaminant exclusion
- Preset or adjusted BEP on customer's request
- Designed with increased contact angle
- Suitable for high axial load carrying capacity
- Available with one or more antirotation keyway slots on each side of double cone
- Outer bush with annular groove and lubrication holes
- Available in metric and inch sizes



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