

RKB TECHNICAL DOCUMENTS

TECHNICAL FICHES

GENERAL AND PARTS DRAWINGS

GENERAL CATALOGUE

TECHNICAL TABLES

TRACEABILITY REPORTS

CO-ENGINEERING PROJECTS

QUALITY CONFORMITY DATA SHEETS

INSPECTION CERTIFICATE DATA SHEETS

MAIN TECHNICAL DATA SHEETS

RATING LIFE CALCULATIONS

LABORATORY ANALYSES

TECHNICAL REPORTS

With a solid knowledge and extensive expertise in rolling bearings, **RKB** can provide you with a comprehensive engineering support for the reliability and suitability of your applications. Do not hesitate to contact our Technical Department through the worldwide network of **RKB** official partners and distributors.



**RKB**  
BEARING INDUSTRIES

Via Primo Agosto · 6828 Balerna · Switzerland  
P.O. Box 169 · 6830 Chiasso 3 · 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

*The Alternative Power*

METALS

**RKB**  
BEARING INDUSTRIES

ENGINEERED IN SWITZERLAND  
TECHNOLOGICAL BEARINGS



REU-M-YSS-A

Printed in Switzerland on environmentally friendly paper



**RKB**  
BEARING INDUSTRIES  
*The Alternative Power*

**RKB BEARINGS FOR THE METALS INDUSTRY**

**RKB**  
BEARING INDUSTRIES  
*The Alternative Power*

**RKB BEARINGS FOR THE METALS INDUSTRY**

**CRITICAL ROLLING MILL WORK ROLL**

- Four-row taper roller bearings (TQI configuration)
- Up to 28 inch inner diameter

**AUTOMATIC ROLL CHANGING DEVICE**

- New generation bearings for rolling mill stand with automatic roll changing device
- Easy mounting and dismounting
- Better load distribution resulting in reduced edge contact pressure and stress concentration
- Longer service life and reliability

**BACK-UP ROLLS OF ROLLING MILL STANDS**

- Internal design evolution for improved rolling accuracy at high speeds
- Cage design incorporating a large number of rollers as an alternative to pierced roller version

**WORK ROLLS OF HOT ROLLING MILL STANDS**

- Long life series bearings
- Phosphate Treatment for rings, rollers and spacers (PT4)
- Increase of rolling efficiency by stable operation
- Easier handling of seals

**SCREW-DOWN MECHANISM**

- For finishing stands of hot rolling mill
- Suitable for low speeds and heavy loads
- RKB SAE 9315 case hardening steel in RAV protocol

**GUIDE ROLLS OF CONTINUOUS SLAB CASTING MACHINE**

- Low cross section spherical roller bearings for guide rolls of continuous slab casting in hot strip mills
- Up to 170 mm outer diameter
- Out of standard window-type cage
- Stabilizing Treatment for operating temperatures up to 300 °C (S3)

**SLAB CONVEYOR CHAIN OF HOT STRIP MILL**

- C<sub>r</sub> > 750 kN according to ISO 281
- Anti-Wear Technology (AWT) for extended service life
- Bainite Treatment for outer rings (HB2)
- Reinforced execution

**ROLLING MILL DRIVE SHAFT BALANCING DEVICE**

- Time saving bearing replacement in hard-to-reach positions
- Up to 560 mm inner diameter
- Manufacturing technology and expertise for top reliability
- Engineered to accommodate primarily external radial loads and partially axial loads in both directions
- High load carrying capacity due to large number of spherical rollers with the largest possible diameter

**RKB**  
BEARING INDUSTRIES  
*The Alternative Power*

**The Swiss Bearing Manufacturer**

**RKB**  
BEARING INDUSTRIES  
*The Alternative Power*

**The Swiss Bearing Manufacturer**

The **RKB** Bearing Industries Group is the Swiss manufacturing organization operating in the bearing industry for over 70 years, with an area of 90.000 sqm, 135 million euros of tangible assets, and a monthly production capacity exceeding 350 tons of machined steel. The experience gained over the years provides **RKB** with the know-how and expertise necessary for the development and production of technological valued-added bearings up to 1925 mm outer diameter, particularly for the heavy industry. Thanks to its pioneer business model, based on a vertically integrated system, **RKB** offers reliable cost-effective solutions, with extreme operational flexibility, leading-edge service, huge stock availability (more than 35 million euros of standard and special rolling bearings), short delivery time and the top quality typical of a consistent premium-class bearing source. With a worldwide distribution network and exports to more than 50 countries, **RKB** is globally recognized as *“The Alternative Power”* in the bearing industry.

**RESEARCH AND DEVELOPMENT**

**ADVANCED MANUFACTURING TECHNOLOGY**

**MULTILEVEL QUALITY CONTROLS**

**PREMIUM QUALITY ROLLING BEARINGS**

**SPECIAL PROJECTS**

**SERVICE AND ASSISTANCE**