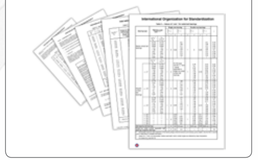
RKB TECHNICAL DOCUMENTS

TECHNICAL FICHES

GENERAL AND PARTS DRAWINGS

GENERAL CATALOGUE

TECHNICAL TABLES



TRACEABILITY REPORTS

CO-ENGINEERING PROJECTS

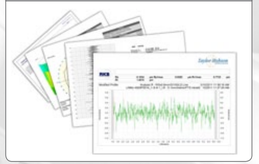
QUALITY CONFORMITY DATA SHEETS

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

RKB
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The Alternative Power

ENGINEERED IN SWITZERLAND
TECHNOLOGICAL BEARINGS

The Swiss Mark · Certified Value

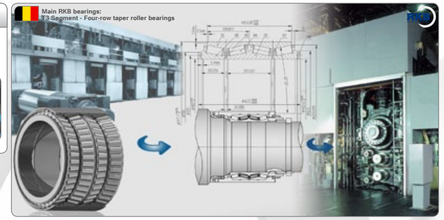
Printed in Switzerland on environmentally friendly paper
REU-M-YSS-A

RKB
BEARING INDUSTRIES

METALS

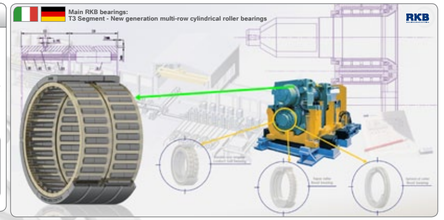
CRITICAL ROLLING MILL WORK ROLL

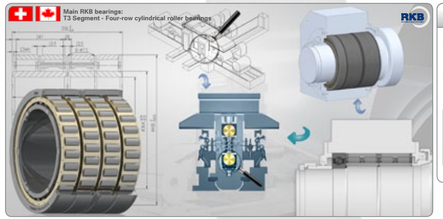
- Four-row taper roller bearings (TQI configuration)
- Up to 28 inch inner diameter



AUTOMATIC ROLL CHANGING DEVICE

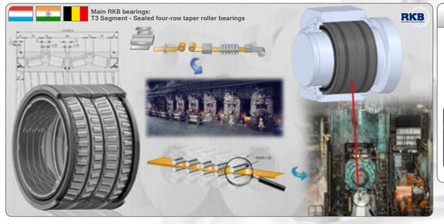
- New generation bearings for rolling mill stand with automatic roll changing device
- Easy mounting and dismounting
- Better load distribution resulting in reduced edge contact pressure and stress concentration
- Longer service life and reliability





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

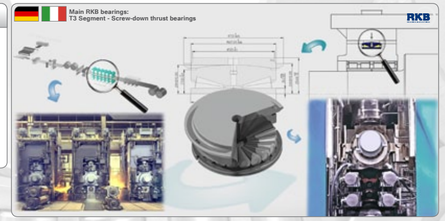


WORK ROLLS OF HOT ROLLING MILL STANDS

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

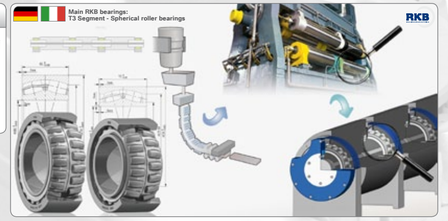
SCREW-DOWN MECHANISM

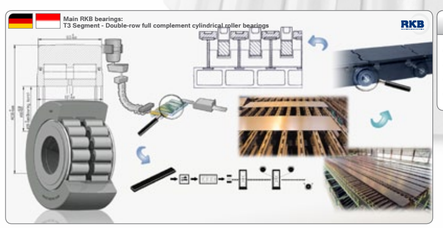
- For finishing stands of hot rolling mill
- Suitable for low speeds and heavy loads
- RKB SAE 9315 case hardening steel in RAV protocol



GUIDE ROLLS OF CONTINUOUS SLAB CASTING MACHINE

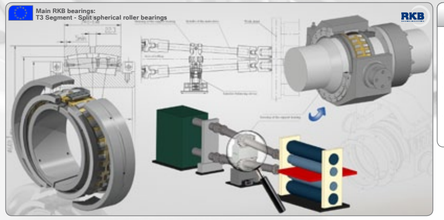
- Low cross section spherical roller bearings for guide rolls of continuous slab casting in hot strip mills
- Up to 170 mm outer diameter
- Out of standard window-type cage
- Stabilizing Treatment for operating temperatures up to 300 °C (S3)





SLAB CONVEYOR CHAIN OF HOT STRIP MILL

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



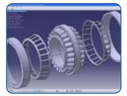
ROLLING MILL DRIVE SHAFT BALANCING DEVICE

- 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

The Swiss Bearing Manufacturer

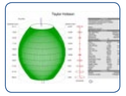
The **RKB** Bearing Industries Group is the Swiss manufacturing organization operating in the bearing industry for over 70 years, with an area of 90.000 sqm, 135 million euros of tangible assets, and a monthly production capacity exceeding 350 tons of machined steel. The experience gained over the years 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