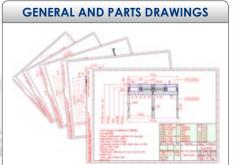
RKB TECHNICAL DOCUMENTS











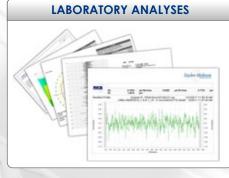














With a solid knowledge and extensive expertise in rolling bearings, **RKB** can provide you with a comprehensive engineering support for the reliability and suitability of your applications. Do not hesitate to contact our Technical Department through the worldwide network of **RKB** official partners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



BEARING INDUSTRIES

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The Alternative Power



HEAVY ENGINEERING APPLICATIONS



VERTICAL LIFTING SYSTEMS FOR BRIDGE

- Radial load on main bearing > 8000 kN
- Safety factor (S_n) as per bridge design and safety specifications
- Rolling evaluated to the limits of elastohydrodynamic











MAIN DRIVE UNIT OF TUNNEL BORING MACHINES

- Bearings engineered to withstand heavy radial loads, moderate/high torque and variable thrust forces
- Up to 420 mm outer diameter
- Design life $(L_{10h}) \ge 15000 \text{ h}$

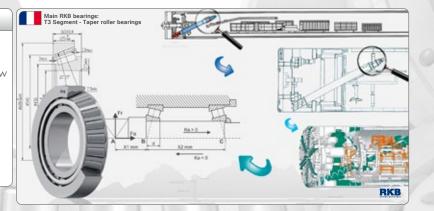


CONVEYOR SYSTEM FOR TUNNEL BORING MACHINES Main RKB bearings: T3 Segment - Taper roller bearing

- Taper roller bearings for screw conveyor hydraulic drive • Up to 360 mm inner diameter and 680 mm outer diameter
- Bearings engineered to withstand heavy loads at low rotational speeds (max 22 rpm)
- Tough Roller Technology for higher safety factor ($S_0 > 4.0$)









PULP AND PAPER CALENDER MILL

- RKB Victory Line premium class bearings for extended service
- Big size spherical and cylindrical roller bearings







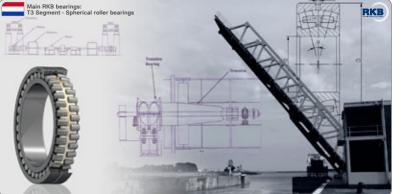
BRIDGE AND DAM LIFTING SYSTEMS

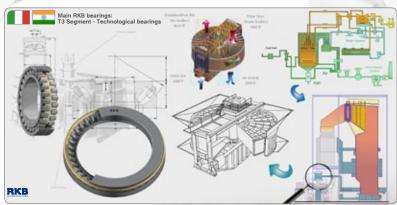
- Big size spherical and cylindrical roller bearings
- Up to 560 mm inner diameter





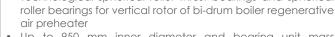






BOILER FOR POWER GENERATION

- Technological spherical roller thrust bearings and spherical roller bearings for vertical rotor of bi-drum boiler regenerative
- Up to 950 mm inner diameter and bearing unit mass exceeding 2950 kg
- Optimized execution for heavy loads at low rotational speeds



HEAVY LIFT DOCKSIDE CRANE WINCHES

- TDONASW series special execution for heavy lift crane winches
- Hoist axis pull up to 400 tons
- Up to 200 mm inner diameter • $C_{0r} > 1000 \text{ kN}$











TUNNEL DRILLING MACHINES

- Thin section big size single-row taper roller bearings (design and execution for heavy load applications) • Up to 458 mm inner diameter
- B₁₀ life > 100000 h as per mining specifications

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**





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.

MULTILEVEL QUALITY CONTROLS











PREMIUM QUALITY ROLLING BEARINGS





RKB

SPECIAL PROJECTS













SERVICE AND ASSISTANCE









