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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.



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*The Alternative Power*

**RKB**  
BEARING INDUSTRIES

MINES AND MINERALS

ENGINEERED IN SWITZERLAND  
TECHNOLOGICAL BEARINGS



Printed in Switzerland on environmentally friendly paper



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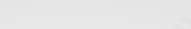




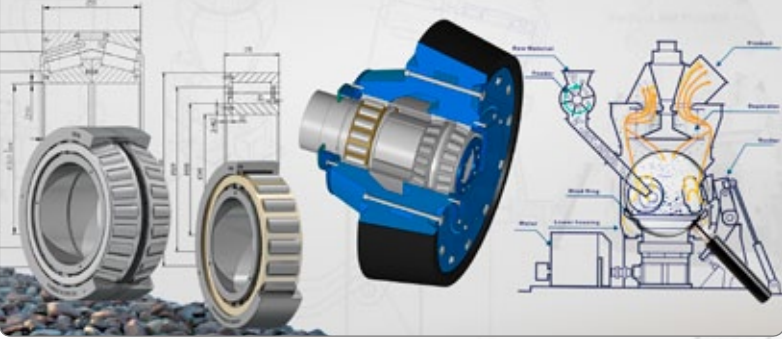


**TYRE ROLLS OF VERTICAL MILL**

- Technological cylindrical and taper roller bearings (DF configuration) for liftable grinding rolls of vertical mill
- Up to 440 mm inner diameter and 750 mm outer diameter
- Safety factor ( $S_o$ ) > 5 with high presence of grinding shocks
- Design life ( $L_{10mh}$ ) > 20000 h








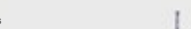
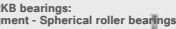



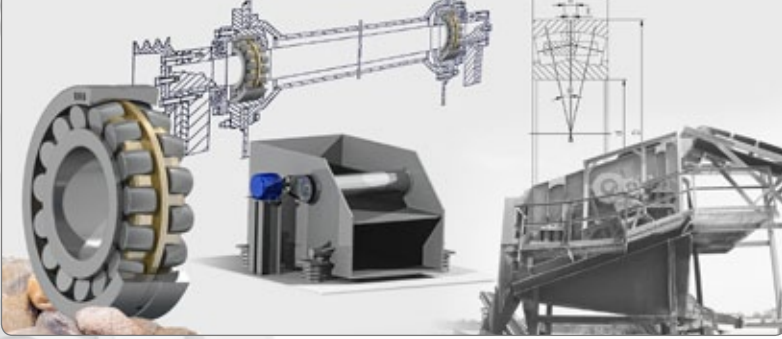




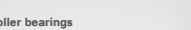
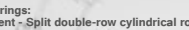

**VIBRATING SCREEN APPLICATIONS**

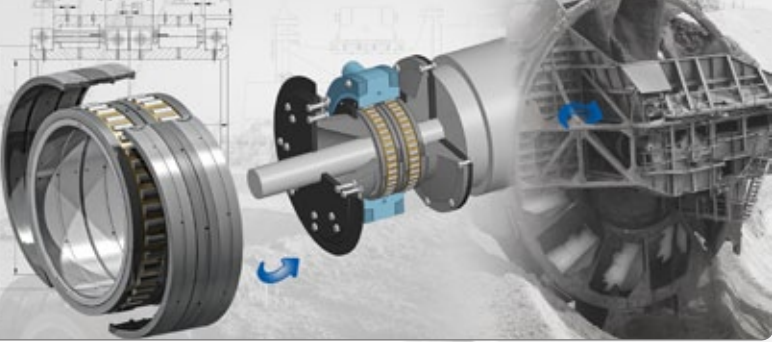
- Bainite and Stabilizing Treatments for rings (HB1+S1)
- Outer ring guided cage MA type with open-end design for better lubrication
- Controlled radial clearance in restricted range
- Higher precision class than standard 223 series











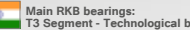



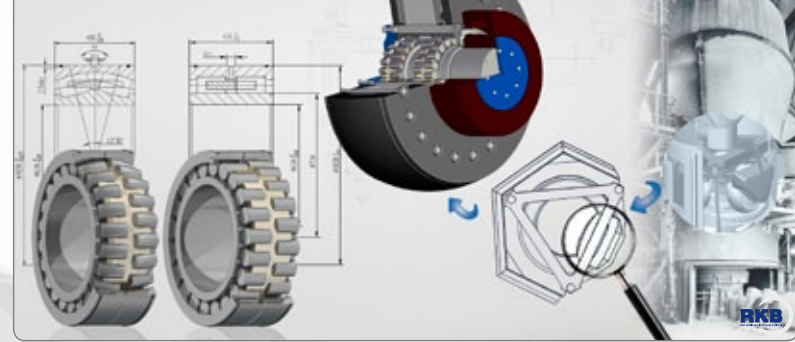


**BUCKET WHEEL EXCAVATOR MAIN SHAFT**

- Time saving in hard-to-reach positions
- Manufacturing technology and expertise for maximum reliability
- Engineered for modified ISO life ( $L_{10mh}$ ) > 20000 h
- Up to 780 mm outer diameter
- Safety factor ( $S_o$ ) > 3







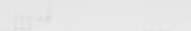




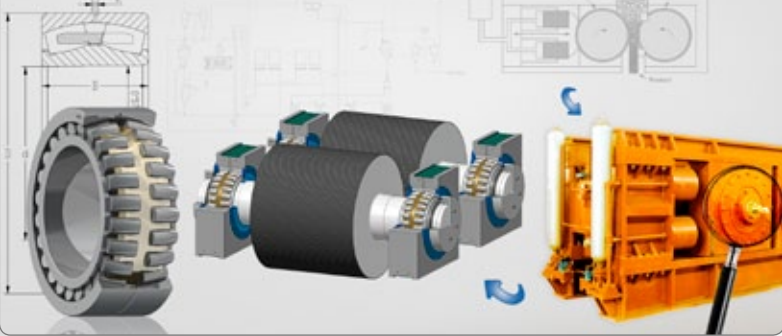
**VERTICAL MILL GRINDING ROLLS**

- MPS Series
- Up to 750 mm inner diameter
- Safety factor ( $S_o$ ) > 4 with high presence of shocks
- Harsh environmental conditions with suspended dust particles
- High working temperature up to 200-250 °C

**HORIZONTAL MILL PRESS ROLLS**




- Technological spherical roller bearings for floating and fixed rolls of high-locking presses
- Bearings engineered to withstand short skewing loads between rolls
- Optimized execution for high load carrying capacity at low rotational speeds
- Bearings and housings expressly designed for transmission of heavy forces by hydraulic presses


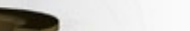

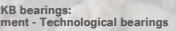



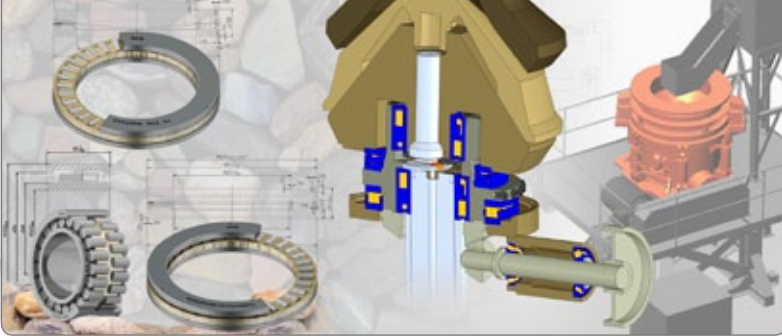


**CONE TYPE CRUSHER**

- Technological double-row cylindrical roller and thrust roller bearings
- Superior load capacities
- Optimized design of inner executions for improved lubrication and resistance to high vibrations/shocks









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**

