

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

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The Alternative Power



POWER TRANSMISSION

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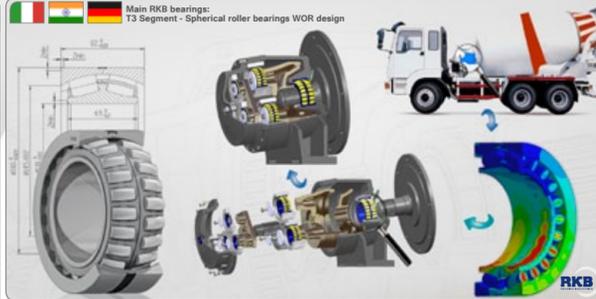
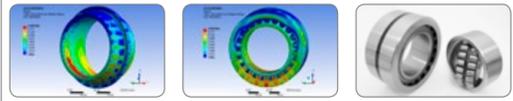
ENGINEERED IN SWITZERLAND
 TECHNOLOGICAL BEARINGS



REU-PT-YSS-A

CONCRETE MIXER GEARBOX

- Bearing internal geometry optimized through Finite Element Analysis to sustain additional loads and friction at low operating speeds (max 20 rpm)
- Increased permissible misalignment up to $\pm 6^\circ$ (Wider Outer Ring) in transit mixer concrete gearbox
- Premium steel class for higher reliability and extended service life
- Special heat treatments to decrease incidence of cracking
- Safety factor (S_n) > 2,5
- Design life (L_{10m}) > 2,6 million revolutions \approx 10 years service



FRONT AND REAR AXLES OF DUMP TRUCKS

- Single-row taper roller bearings for dumper transmission (wheel hubs of front and rear axles)
- Up to 300 mm inner diameter and 422 mm outer diameter
- E-Type design and execution for high load capacity, higher accuracy and shock resistance
- Rating life (L_{10}) > 100000 km of the vehicle



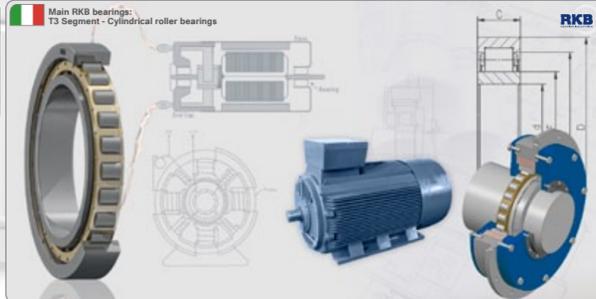
WIND MULTIPLICATORS

- Technological bearings for speed multipliers used in medium and high power wind turbines (over 850 kW)
- Maximum reliability required due to the application conditions
- Bearing optimization through RKB R&D activity



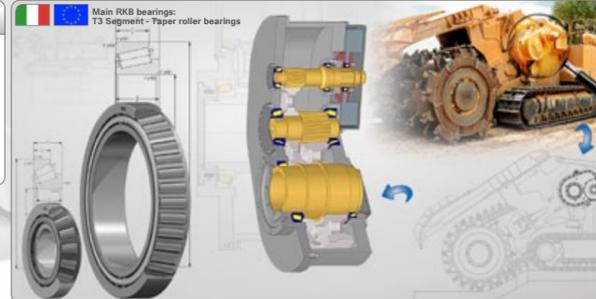
MOTION CONTROL DRIVERS AND MOTORS

- Cylindrical roller bearings and deep groove ball bearings for traction motors
- Up to 320 mm inner diameter



TRENCHER FLYWHEEL GEARBOX

- E-Type design taper roller bearings with optimized inner geometry for high load capacity and precise axial adjustment on shafting
- Low-speed shaft of 240 mm diameter with highly productive trenching requirements
- RKB Bainite Treatment (HB) to support heavy shock loads



GEARBOX FOR THE CITY BUS ON TYRES 'PHILEAS'

- Application optimized taper and cylindrical roller bearings
- Up to 280 mm inner diameter
- Required operating life (L_{10m}) > 1,8 million kilometers of the vehicle



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

