WOUND BEARINGS

RKB BEARING INDUSTRIES
The Alternative Power

RKB: the Swiss Premium-Class Bearing Manufacturer

The RKB Bearing Industries Group is the Swiss manufacturing organization which has been operating in the bearing industry since 1936, with 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 manufacture of technological industrial bearings up to 1925 mm outer diameter.
RKB offers reliable cost-effective solutions, with extreme operational flexibility, leading-edge service, huge stock availability, short delivery time and the typical quality 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.

RKB Bearings for the Metals Industry

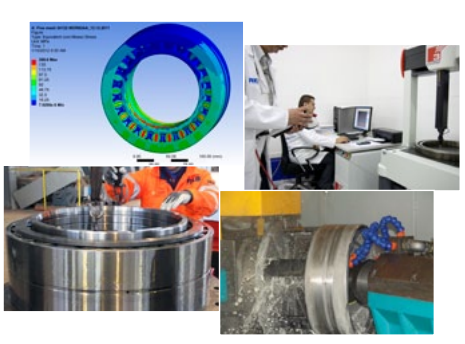
Wound or spring bearings are the ancestors of toroidal roller bearings (SKF CARB or RKB/FAG TORB).

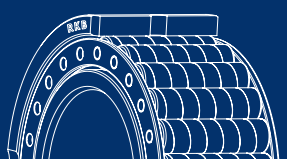
In the past, GPZ (URSS) was one of the main producers. Now, EICH (Germany) is the market leader.

They are mainly used by MRO customers, since OEM customers typically prefer toroidal roller bearings (SKF CARB and RKB/FAG TORB).

Engineering and Manufacturing Solutions at Your Service!

- Technical consultancy
- Application analysis and feasibility study
- Engineering and design
- Advanced calculations
- FEM and semi-analytical simulations
- Project co-engineering
- Product customization and optimization
- Advanced and flexible manufacturing technology
- Qualified on-field assistance





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ENGINEERED IN SWITZERLAND
TECHNOLOGICAL BEARINGS

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Types available

- BR: spring rings and solid cylindrical rollers (90% market share)
- B: solid rings and spring cylindrical rollers (10% market share)

Dimensional range

- > 40 ID and < 200 OD (mainly metrical bearings)

Main industries and applications

- Metals (continuous casting strands where temperatures and shocks are extremely high)

Price

- Wound bearings are technological bearings, so more expensive than standard bearings
- If covers are present the price will increase by 10/15%

Technical notes and warnings

They are customized bearings that need the following parameters to be properly identified:

- d/D x T/B
- presence and type of covers (if any, sketch or sample is needed)

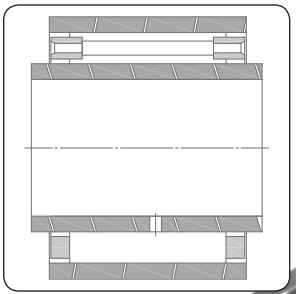
Static load rating (C_0) is approximately 30% lower than that of corresponding solid cylindrical roller bearing

Dynamic load rating (C) is not a vital parameter since they are mainly statically roller bearings

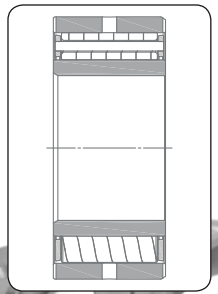
Their special design permits to absorb and neutralize thermal expansion caused by extremely high operating temperatures (over 200°C) and to secure accurate seating on the shaft. In this way, they also don't seize up.

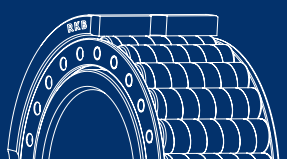
Special designs and variants

Type BR Spiral inner and outer ring



Type B Spiral rollers





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