

ROLLING BEARINGS FOR VIBRATING APPLICATION

RKB
BEARING INDUSTRIES
SWITZERLAND



RKB: the Swiss Premium-Class Bearing Manufacturer

The RKB Bearing Industries Group, a Swiss-based manufacturing organization, has been a key player in the bearing industry since 1936.

Leveraging decades of experience, RKB possesses the specialized knowledge and skills required to design and produce industrial bearings from 1 mm bore diameter to over 2.000 mm outer diameter.

With a global distribution footprint reaching over 70 countries, RKB provides value-driven solutions characterized by impressive operational adaptability, top-tier services, huge stock reserves, quick shipping times, and the hallmark quality expected of a premium bearing provider.



Type **RKB 22330 CCJA2**

RKB Bearings for vibrating application

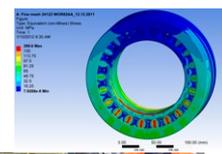
RKB bearings designed for vibrating applications are engineered to withstand the intense forces and dynamic stresses generated by oscillations and vibrations.

These specialized bearings feature a hardened cage, specifically designed to reduce wear when lubrication conditions are not optimal. They are highly durable and resistant to wear, ensuring reliable performance even under extreme operating conditions. Ideal for machinery like vibrating screens, these bearings offer reduced maintenance needs and enhanced service life.



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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Types available

- CCHJA/VA405, CCJA1/VA405, CCJA2/VA405, CCJA3/VA405
- ISO 223 series available regularly with cylindrical bore
- "K" tapered bore available on request
- Other ISO series on request (233, 222 ...)

Dimensional range

- Inne ring bore dia.: $40 \text{ mm} < d < 200 \text{ mm}$

Main industries and applications

- Cement (vibrating screen with 2 bearings arrangement, free movement, or 4 bearings arrangement, circular motion)
- The VA405 series has replaced the ROVSX series, offering significant advantages in terms of reduced cage weight and improved grease retention design. Additionally, it performs better in high-temperature environments and under challenging lubrication conditions.

Tolerance and radial internal clearance

- Stricter tolerance values "d" and "D" than standard of reference. VA405 radial internal clearance according to ISO C4, (if not differently specified in the bearing part number)"

Technical notes and warnings

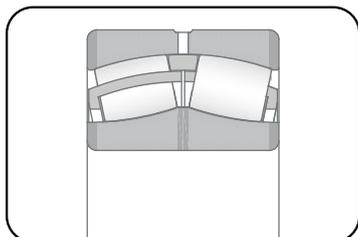
The eccentric shaft of the vibrating screen generates high rotating accelerations to the screen frame. The accelerations are also transmitted to the bearings and to the rolling elements.

To reduce the heavy wear damage induced by the inertial forces exchanged between the rolling elements and the afferent cage pockets, the pressed steel cage and the outer slinger are hardened reinforced, JA suffix. The increase of hardness helps on reducing the wear between sliding parts, increasing bearing service life.

Vibrating screens bearings can be lubricated with grease or with oil. Grease lubrication is the most critical one. Due to high acceleration, $g > 1,5$ it's required an increased grease hardness, NLGI grade, to avoid starving conditions in rolling areas. In these cases, grease with NLGI grade 2 or 3 is recommended. Nevertheless, when acceleration is above $3g$, please contact RKB TTU.

Special designs and variants

Type **CCJA/VA405**



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