



SEALMASTER® RPB SERIES MOUNTED ROLLER BEARINGS

The Sealmaster® RPB series bearing is a mounted tapered roller bearing with unique features that help it withstand industry's toughest application conditions.

The Sealmaster RPB bearing's field proven features start with a rugged, split cast-iron housing and cartridge inserts. The inserts are field replaceable, simplifying mounting and saving time and money when replacement is required. The outer race has a spherical shaped outer diameter, enabling the rollers and race to maintain line contact when the shaft is misaligned. This feature also allows the bearing to compensate for +/- 3 degrees of static misalignment, a significant advantage versus conventional mounted tapered roller bearings.

The race-mounted, felt lined seals act as a filter, and the rotating flinger helps repel contamination build-up. The seals also move with the races, therefore improving sealing effectiveness. While the seals help prevent contaminants from entering the bearing, the positive lubrication system allows direct grease flow into the bearing. This brings fresh grease to the area than needs it the most - the rolling elements - while additional ports direct a small amount of grease to the insert-housing interface.

Heavy shock loads, shaft misalignment, abrasive particles and water – Sealmaster RPB bearing's features work in concert to address these types of application conditions and increase equipment uptime.



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Heavy-Duty Tapered Roller Bearings

- Allow for combined radial and thrust loads

One-Piece, Self-Aligning Cartridge

- Self-aligning insert compensates for up to +/- 3° of static misalignment
- Innovative design helps maintain proper rolling element contact with the races when misaligned

Durable Cast-Iron Split Housings

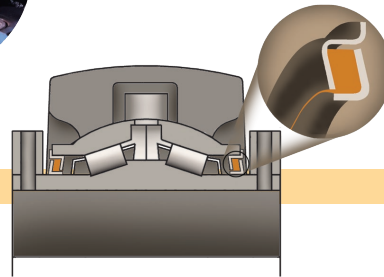
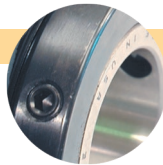
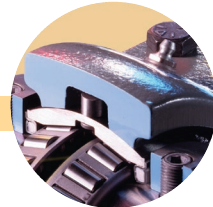
- Housing base remains fixed and aligned with the shaft – quick insert replacement
- Standard RPB units are interchangeable with industry Type E mounting dimensions
- RPBXT bearings are interchangeable with SAF style four-bolt pillow block and are shaft ready for easier and faster installation

Direct Lubrication System

- Extra lubrication port helps prevent seal damage by venting pressure from over greasing
- Bearing grease flow has a shorter path than competitive spherical roller bearing units

Additional Features and Benefits:

- Alignment pin helps prevent outer race rotation – a common problem in vibratory applications
- Select from two- and four-bolt pillow blocks in bore sizes from 1 3/16" to 5", flange units from 1 3/16" to 4 1/2" and piloted flanges from 1 3/16" to 5"
- Replaceable cartridge inserts from 1 3/16" to 5"
- Exclusive diamond faceted setscrews contribute to improved clamping and resistance to back out



Race-mounted Felt Lined Flinger Seal

- Filters out contaminants in dry, dusty, dirty conditions
- Mounted between the races – not subject to misalignment distortion
- Contact seal available for wet, moist conditions

SEALMASTER®

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APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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