



Application **SOLUTIONS** for Mining & Aggregate

SEALMASTER®

Transfer Conveyor

Application

Transfer Conveyors for “Wet fines” Material

Solution Type

Maintenance Cost Savings

Description of Problem

Due to continuous bearing failure related to contamination, the end user has installed three (3) sets of the competitors’ 22517 bearings in this application over the past 4 months.

Sealmaster® Solution

Sealmaster RPB bearing with Contact Seal

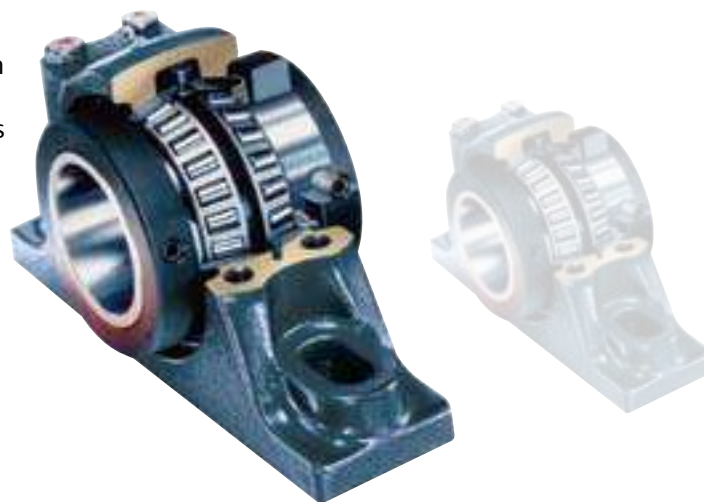
Product/Part Description

Sealmaster Bearing / RPB 207-C2

Key Customer Need(s) and Benefits from Sealmaster Product:

Reduced downtime due to failed bearings.

The average bearing life was three weeks. RPB contact seal was able to significantly outperform the competitors mechanical seal in the application. RPB has been on the equipment for five weeks with no sign of issues




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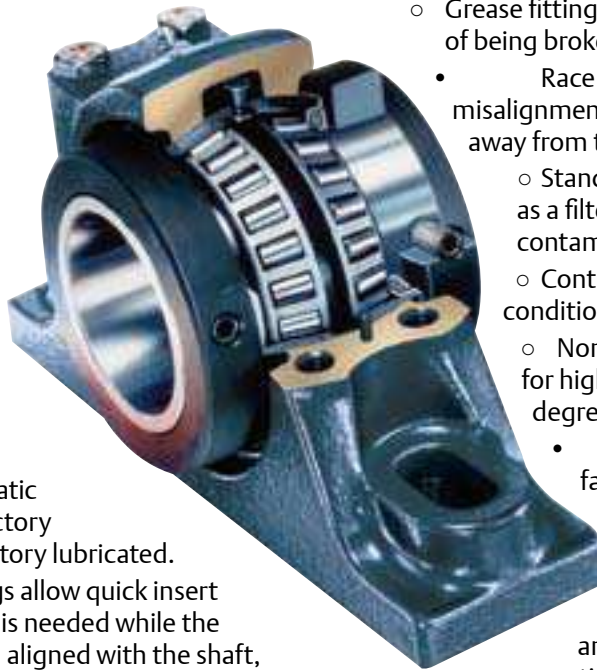
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Features and Benefits

Sealmaster® Bearing / RPB

- Sealmaster RPB series heavy duty tapered roller bearing designed for radial, thrust and combination loading are available with a wide variety of features:
 - Inch and metric bore size from 1 3/16" to 5" bore and 35 to 125 mm
 - Multiple housing styles
 - 2 and 4 bolt pillow block (RPB)
 - 4 bolt flange (RFB)
 - Piloted flange (RFP)
 - Multiple locking styles
 - Double lock collar as standard
 - Single lock collar specify a -A style
 - Multiple sealing options
 - Non-expansion and expansion
- Unitized, replaceable cartridge insert allowing +/- 3 degrees static misalignment capability has factory controlled clearances and is factory lubricated.
- Durable, cast iron, split housings allow quick insert replacement when change-out is needed while the housing base remains fixed and aligned with the shaft, reducing downtime and maintenance costs.
- Black oxide standard on outer rings, lock collars and seal components inhibits corrosion.
- Anti-rotation pin helps prevent the bearing OD from creep/rotation due to vibration over time.
- Direct lube and venting system:
 - Provides a direct lubrication path into the bearing
 - Secondary internal relief port helps prevent seal damage by venting pressure from over greasing
 - Grease fitting position at 30° resulting in less chance of being broken off.
- Race mounted seals are not subject to misalignment distortion and direct contaminant away from the sealing surface available as:
 - Standard felt lined flinger seal, which acts as a filter to help exclude dry, dusty and dirty contaminants.
 - Contact seal available for wet, moist conditions (-C).
 - Nomex* lined flinger seals are available for high temperature applications up to 400 degrees F(-N).
- Lock collars with two, diamond faceted point setscrews at 120 degrees for balanced, three point contact.
- Expansion roller bearing pillow blocks available for use when significant temperature differentials are expected between shafts and mounting structures or shaft is unusually long - specify ERPB.
- Permanent metal nameplate allows for easy identification after years of operation.



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Corporate Headquarters
859 342 7900

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 Emerson Power Transmission Corporation and its divisions with respect to the use of products and components is given in good faith and without charge, and Emerson 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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