



# Sealmaster<sup>®</sup> Spherical Roller Bearing

## USRB Series

Power Transmission Solutions, a business unit of Regal Beloit Corporation, is continuing a tradition of innovation, with the Sealmaster **Unitized Spherical Roller Bearing** (USRB). This performance series builds on the rich heritage of past Sealmaster bearings and brings several new design improvements.

Our engineers have optimized the geometries of a double-row spherical roller bearing to provide improved load capacity, misalignment and speed capabilities. The Sealmaster performance mounted roller bearing is an advanced spherical roller bearing design that combines traditional Sealmaster features and built-in benefits with even more performance and value.

The Sealmaster Unitized Spherical Roller Bearing (USRB) is available in two distinct locking systems: collar mount with bore sizes from 1 1/8" to 7"; and adapter mount with bore sizes from 1 1/8" to 8". Its race-mounted seals accommodate +/-2° misalignment. For easy installation and maintenance the pillow blocks from 5 7/16" to 8" are shaft ready with replaceable cartridge inserts that mount more quickly than competitive versions. Just as important, the Sealmaster performance mounted roller bearing brings you the time-tested reliability of the Sealmaster brand, a unique advantage that helps maximize uptime and minimize overall operating costs.



A Regal Brand

**REGAL**

# Sealmaster® Spherical Roller Bearing

## USRB Series

### FEATURES AND BENEFITS



#### **Double Row Spherical Roller Bearing**

Sealmaster's optimized double-row spherical design is found no where else. Load capacity is higher, speed optimized, and a wide race allows for more misalignment -up to +/- 2.



#### **Multiple Housing Configurations**

One Piece Cast Iron and Ductile Iron Housings  
Durable one piece cast iron (USRB5000 series) and ductile iron (USRBE5000 series) housings provide load support. Two and four bolt pillow block housings have elongated bolt holes for easy interchangeability.



#### Split Housings

Durable split housings (USRB5500 series) designed to the industry standard SAF footprint and replaceable cartridge inserts from 1 3/8" - 8" are shaft ready for easy installation.



#### **Replaceable Cartridge Insert**

The Sealmaster performance mounted roller bearings have a replaceable cartridge insert that consists of a double-row spherical roller bearing with race-mounted seals. These integrally sealed, one-piece cartridge inserts can also be used for mounting in cylindrical-bore housings for an even wider range of applications.



#### **Multiple Locking Methods**

##### Collar Mount System

Sealmaster performance mounted roller bearings feature locking collars with setscrews at 120°, providing balanced three-point shaft contact.



##### Adapter Mount System

The Sealmaster performance mounted roller bearings grip the shaft with an advanced adapter mount system, for fast installation and removal. The advanced integral locking system incorporates axial cap screws that allow mount and dismount of the bearing from one side. The result: this highly engineered locking system requires less installation torque. Sealmaster adapter mount spherical roller bearings are also shaft ready and require only a hex key and torque wrench to install; no special tools or feeler gauges are required.



#### **Multiple Sealing Options**

##### Felt Seal

The legendary Sealmaster felt seal keeps the contaminants out longer. Unique race-mounting allows the seal to maintain contact through a full +/-2 of misalignment. The outer member spins with the inner race, acting as a flinger. A thick felt seal sits between the metal elements, acting as an effective labyrinth filter while keeping friction low for higher speed ratings.



##### Contact Seal

The unique Sealmaster double-lip contact seal keeps the contaminants out longer in wet environments. Unique race-mounting allows the seal to maintain contact through a full +/-2 of misalignment. The outer member spins with the inner race, acting as a flinger. A Nomex double-lip seal sits between the metal elements, maintaining contact to keep foreign material out of the bearing.



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Learn more with your phone...Snap the QR code with your mobile phone, and watch a video demonstrating the ease of installation and removal of the Sealmaster Unitized Spherical Bearing. New-model phones come with QR readers. If yours doesn't, go to the app store and search QR Reader.

#### 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 its affiliates 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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