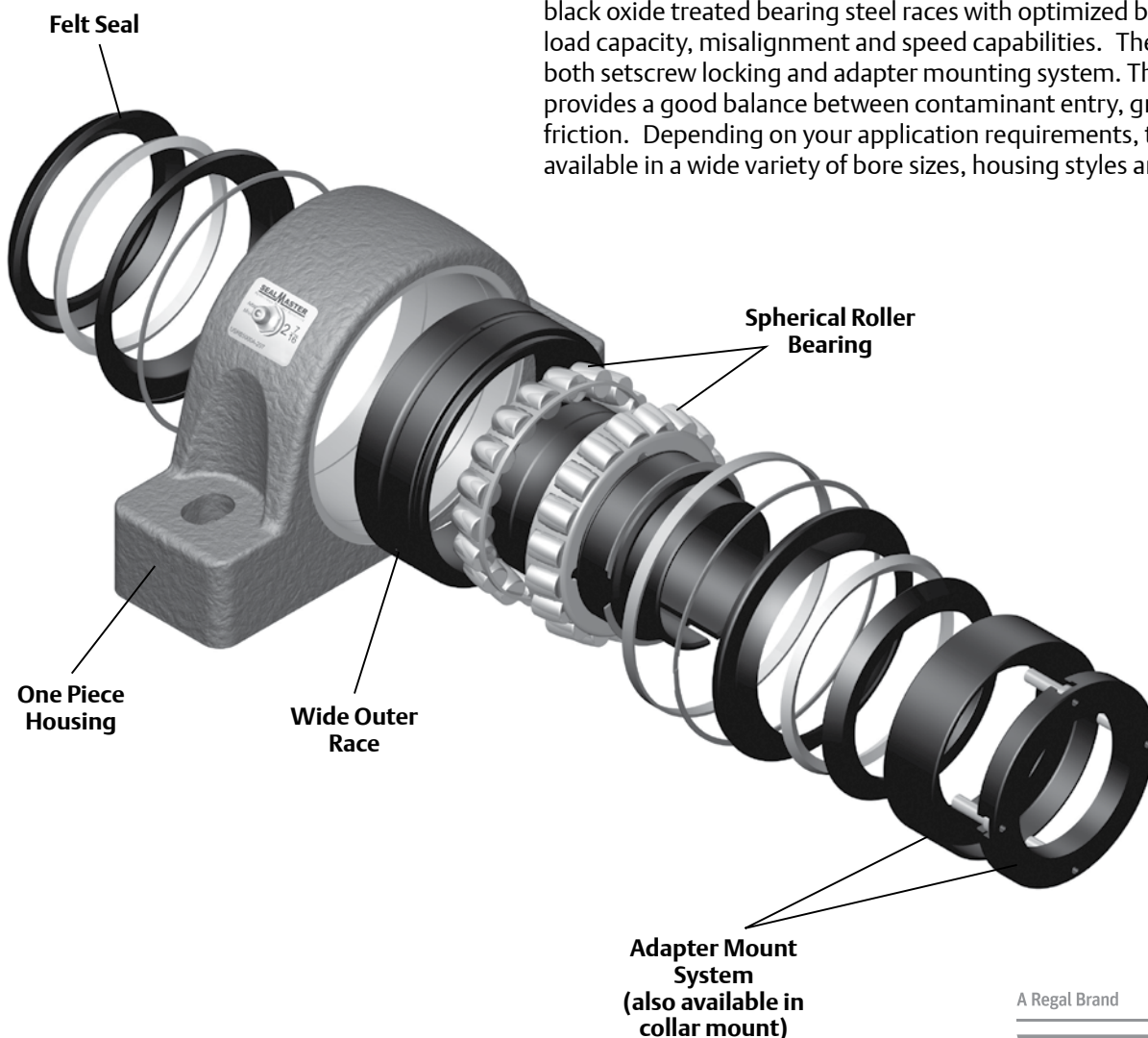


Sealmaster® USRB Performance Mounted Spherical Roller Bearing

Sealmaster USRB performance mounted spherical roller bearings feature black oxide treated bearing steel races with optimized bearing geometry for load capacity, misalignment and speed capabilities. The USRB is available in both setscrew locking and adapter mounting system. The felt seal with flinger provides a good balance between contaminant entry, grease retention and friction. Depending on your application requirements, these bearings are available in a wide variety of bore sizes, housing styles and sealing options.



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Features and Benefits



Double Row Spherical Roller Bearing

New geometries developed and manufactured by Sealmaster® engineers result in an innovative double-row spherical roller bearing with optimal load capacity, misalignment and speed capability.



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 interchangeability with competitive units.



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.



Collar Mount System

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



Adapter Mount System

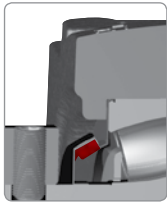
The Sealmaster performance mounted roller bearings grip the shaft with an advanced adapter mount system, for fast installation and removal. The advanced integral locking system incorporates axial cap screws that allow mount and dismount of the bearing from one side. The result: this highly engineered 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.



End Caps

Metal end caps push in USRB housings to cover rotating shafts, allowing users to conform to OSHA requirements for personal protection from rotating shafts.

Multiple Sealing Options



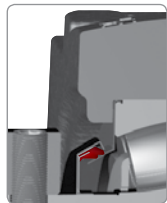
Felt Seal

The Sealmaster felt seal with flinger, mounted between races, can accommodate $\pm 2^\circ$ of misalignment. The outer member rotates with the inner race, to help direct contamination away from the seal. Due to the unique spherical geometric design of the seal contact areas, sealing effectiveness is maintained throughout the entire specified range of misalignment. The design provides a tight labyrinth seal, which acts as a filter to help exclude foreign material and has low friction.



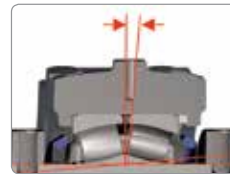
Wide Outer Race

The wide outer race, coupled with innovative rolling-element geometries, provides increased load capacity. The wide outer race also allows for race mounted seals and creates a large internal grease chamber, for more grease capacity.



Contact Seal

The Sealmaster double-lip contact seal, mounted between races, also can accommodate $\pm 2^\circ$ of misalignment. The outer member rotates with the inner race, to help direct contamination away from the seal. Due to the unique spherical geometric design of the seal contact areas, sealing effectiveness is maintained throughout the entire specified range of misalignment. The rotating double-lip seal design allows for exceptional limiting speed.



Misalignment

The arrangement of rolling elements and races in Sealmaster Mounted Spherical Roller Bearings can accommodate $\pm 2^\circ$ of misalignment – up to twice an SAF – while maintaining catalog load ratings and sealing effectiveness. The spherical bearing design can accommodate both static and dynamic misalignment which may exist due to structure mounting irregularities, shaft deflection, or other application conditions.



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