



Tension Reel Bearings

USRB5000A-308 and USTA5000A-308 Unitized Spherical Roller Bearings

APPLICATION

Steel Mill

SOLUTION TYPE

Maintenance Cost Savings
Downtime Reduction

DESCRIPTION OF PROBLEM

The steel mill was experiencing difficulty with bearings on a tension reel on the galvanizing line. During replacement the competitor's bearing had to be cut off the shaft because access to the backside of the bearing frame was impossible after the bearings were put into service.

SEALMASTER® SOLUTION

Suggested the customer try a Sealmaster USRB5000A-308 adapter lock pillow block to help with removal after the bearing had been in operation for a while. During the mill shutdown in January 2011 they purchased and installed the Sealmaster USRB. During a follow-up visit the customer stated the bearing had already been running twice as long as the competitor's bearing. The customer placed an order in October 2012 and is going to convert the entire mill to Sealmaster USRB adapter lock pillow blocks and take-ups.

KEY CUSTOMER NEED(S) AND BENEFITS FROM SEALMASTER® PRODUCTS

The Sealmaster USRB bearing has been in operation since January 2011 providing more than double the life of the competitor's bearing. In addition, the customer likes the Sealmaster USRB adapter feature that allows mount and dismount of the bearing from the same side.



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FEATURES AND BENEFITS



Double Row Spherical Roller Bearing

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



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 interchangeability with competitive units.



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.



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. This design provides a tight labyrinth seal, which acts as a filter to help exclude foreign material and has low friction.



Multiple Locking Methods

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.



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.



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.

SEALMASTER®

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APPLICATION CONSIDERATIONS

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