



SEALMASTER

**Rod Ends and
Spherical
Bearings**



the power of
EPT


EMERSON
Industrial Automation

EMERSON. CONSIDER IT SOLVED.

Engineering Innovation

The name Sealmaster has been synonymous with industry leading product innovation and application-focused solutions. The redesigned three-piece rod end is another example of ingenuity and product advancement made possible by our engineers from the world-famous Sealmaster® brand bearings. The product was developed using Finite Element Analysis (FEA) to optimize our design and to maximize the strength while maintaining standard industry dimensions. The result is the highest quality, most dependable rod ends and spherical bearings available... worthy of carrying the Sealmaster name.



Engineering and Technical Support

Emerson Power Transmission Bearing Application Engineers and Technical Customer Service are available to assist you with your rod end and spherical bearing applications. The application engineers have vast knowledge of application requirements and can help you to select the product that meets your needs. The Emerson Power Transmission Bearing Technical Customer Service Group can assist with broad-based technical inquiries ranging from product nomenclature and interchanges to product specifications. Emerson Power Transmission (www.emerson-ept.com) also offers a variety of e-commerce solutions to improve business efficiencies and productivity. Some of these include: product selection tools, electronic product catalogs, product interchange guides, 2D and 3D CAD downloadable templates, and an extensive electronic media library with product presentations, instruction sheets etc. – "information available 24/7".



Rod End and Spherical Bearing Product Features...

Machined Steel Housing

- Higher average tensile strength vs. the competition.
- Higher fatigue life vs. the competition.
- Large wrench flat to facilitate assembly and installation.
- Full catalog thread depth for maximum thread engagement.



One-piece Race

- Improved spherical ball-race conformity for even load distribution.
- Precision ball-race fit for improved performance .
- Reduced "pound out" in applications with high frequency oscillation, vibration or shock loading.
- Less wear than rod ends with two-piece race design.
- Manufactured in steel, aluminum bronze and self lubricating Delrin*.



Ball

- Alloy steel, heat treated and chrome plated material.
- Better wear resistance properties than competitive carbon steel tin-nickel plated balls.



Dimensional data available at
www.emerson-ept.com
and in the Sealmaster BP-97 catalog

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Rod End and Spherical Bearing Offering

Rod Ends				
Part	Series	Design	Capacity	Race
TR/TRE	Precision Series	3 PC	Standard	Steel
AR/ARE/ARE-20			Extra	Steel
CFF-T/CFM-T		2 PC	Standard	Teflon* Lined
TF/TM	Commercial Series	3 PC	Standard	Bronze
CTFD/CTMD			Standard	Delrin*
CFF/CFM		2 PC	Standard	

Spherical Bearings				
Part	Series	Design	Capacity	Race
SBG	Precision Series	2 PC	Standard	Bronze
SBG-S/SBG-SA			Extra	Alloy Steel
SBG-SS/COR			Stand/Extra	Stainless Steel
BH-LS/BTS-LS		Heavy Duty	Carbon Steel	
FLBG		4 PC	Standard	Bronze
COM	Commercial Series	2 PC	Standard	Steel

BTS-LS Sealed Spherical Bearings

- Unique sealed design available from Sealmaster brand bearings for difficult applications where the bearing is exposed to dust, dirt, moisture and contaminants.
- Assists in keeping the bearings lubricated.
- Available in 3/4", 1", 1 1/4" and 1 1/2" bore sizes .
- Materials include:
 - Carbon steel race with protective coating for corrosion resistance.
 - Alloy steel, heat-treated chrome plated ball.
 - Integral synthetic rubber "bellows type" seals that misalign with the bearing .



Standard Options

Rod ends and spherical bearings from Sealmaster brand bearings can be modified to fit your application requirements.

Below is a list of options available. Consult Emerson Power Transmission Bearing Application Engineering at (219) 465-2211 or sealmaster.engineering@emerson-ept.com for more information.

- Y studs – to help facilitate right angle assemblies in a variety of linkage applications .
- Zerk type grease fittings applicable where field re-lubrication is desirable.
- Teflon* lined rod ends.
- Variety of material combinations.
- Left and right hand threads for turnbuckle configurations.
- Cross-drilled oil hole in ball and race, and groove in ball ID on spherical bearings.

Custom Modifications

- Reduced clearance for applications where precision linkage control is needed.
- Specified torque for Teflon* rod ends.
- Custom marking and part number identification for OEMs.
- Special dimensions (i.e. length to ball-center, thread sizes, etc.).
- Linkage assemblies.
- Flush (drive type) grease fittings.
- Magnetic particle inspection.
- Stainless steel rod ends .



Industries and Applications

Sealmaster brand rod ends and spherical bearings are used in a variety of industrial applications where a transfer of motion is necessary. Applications include:

- Food processing
- Material handling
- Process control
- Cylinder / Actuator
- Printing
- Off highway and transportation
- Automation and robotic
- HVAC
- Car wash
- Packaging machinery
- Exercise and medical

SEALMASTER®

PERFORMANCE WITHOUT COMPROMISE™

Rod ends and spherical bearings from Sealmaster brand bearings offer:

- Machined steel housings
- One-piece races
- Chrome plated steel balls
- Sealed and corrosion resistant spherical bearings
- Custom capabilities



www.emerson-ept.com
Connect Here To Be Part of Something Bigger

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For additional information contact:

Sealmaster Application Engineering and Mounted Bearing Technical Services - (219) 465-2211

Emerson Power Transmission Customer Service - (800) 626-2120

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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