

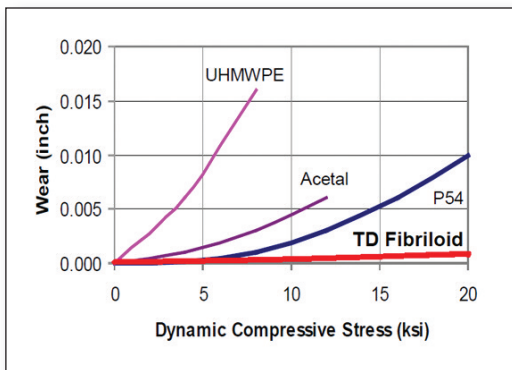
RBC Aerospace Bearings

Transport Dynamics Offers Fretting Buffer Solutions

As the **World Leader in self-lubricating liner systems™**, the Transport Dynamics Division of RBC Aerospace offers a full range of proprietary maintenance free liner systems. These liner systems have been the preferred option for critical aerospace applications since they were originally developed by Transport Dynamics in 1957.

We have vigorously tested and validated the use of these liners (commonly referred to as wear strips) in applications that are intended to provide a fretting buffer. This effort has led to the introduction of the **X-GuardSL™** liner which includes a Peel and Stick option for ease of installation.

The RBC Fibriloid® liner, which is widely recognized as the most versatile and best performing liner in the industry, was tested against our competitor's liner options with far superior results.



Test (Performance) Results:

- Improved wear resistance
- Reduced coefficient of friction
- Excellent bond integrity
- Meets AS81820 requirements
- Temperature range (°F): -320 to +450

These **X-GuardSL™** liner systems can be custom cut to size or bonded to most surfaces to provide the same operational benefits as part of our **Bond Only** offering.



Range of Applications

- Engine Blade Root (High Temperature)
- Helicopter (Vibratory Loading)
- Aircraft— Nacelles (Reduce Friction)
- Custom Bond Only (Extended Life)

The use of a Transport Dynamics liner in a spherical, link, journal or rod end has proven to be the cost effective solution for most applications requiring reliability and a long operational life without needing intervening maintenance.

The **X-GuardSL™** self-lubricating liner system can serve to minimize wear and reduce fretting in your application.



◀ Spherical bearing with fretting corrosion on the OD

Please consult your local Sales Engineer or contact us directly to get a technical design consultation.



Call: 714.546.3131
Email: XGuardSL@rbcbearings.com
www.rbcbearings.com

RBC Aerospace Bearing Products

Product Line Card



Spherical Bearings

- MS approved to AS81820 (formerly MIL-B-81820)
- Self-lubricating • Metal-to-Metal
- Loader slots • High temperature
- Low coefficient of friction
- Special configurations and materials



Thin Section Ball Bearings

- Standard cross sections to one inch
- Stainless steel and other materials are available • Sizes to 40 inches
- Seals available on all sizes and standard cross sections
- Super duplex configurations



Journal Bearings

- MS approved to AS81934 (formerly MIL-B-81934)
- Plain and flanged • Self-lubricating
- High temperature • High loads
- Available in inch and metric sizes



Airframe Control Ball Bearings

- MS approved to AS7949 (formerly MIL-B-7949)
- Single and double row
- Radial, self-aligning, and pulley series
- 52100 Cad plated and 440C stainless
- Zinc Nickel plated



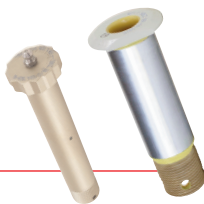
Ball Bearing Rod Ends

- MS approved to AS6039 (formerly MIL-B-6039)
- Various shank configurations
- Low coefficient of friction
- Advanced AeroCres® materials available



Rings and Seals

- Solutions for any pneumatic and hydraulic applications
- Seals from .5" to 55" diameter
- Cast Iron to Rene 41
- Precision machined & wire rings to tight tolerances



Specialty Fasteners

- Hollow Bolts, Fuse Pins, Solid Bolts (Standards), Custom Machined Parts & Nuts
- Hot Headed, Thread Rolled, HVOF Coated
- Large Diameter over 3/4"



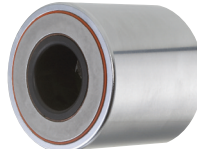
Hydraulic Actuators

- 2-Position Fluid Hydraulic
- Auto or Manual Mechanical Locking
- Lock Sensing/Position Sensing
- Flow/Directional Control Valves; Solenoid/Manual



Rod End Bearings

- MS approved to AS81935 (formerly MIL-B-81935)
- Self-lubricating • Metal-to-Metal
- Loader slots • High temperature
- Low coefficient of friction
- Special configurations and materials



Track Rollers

- MS approved to AS39901 (formerly MIL-B-3990)
- ATF single row and ATL double row
- Sealed with lube holes and grooves
- Heavy duty cross sections
- Advanced AeroCres® materials available
- Lined track rollers available



Cam Followers

- MS approved to AS39901 (formerly MIL-B-3990)
- Advanced AeroCres® materials available
- Maximum corrosion resistance
- Superior lubricants and seals to reduce maintenance



Load Slot Bearings

- Spherical and rod end designs
- Superior ball-to-race conformity
- Reduced maintenance cost
- Variety of race materials available



Specials

- Many specialty bearings, custom-designed and configured for diverse aerospace applications
- Capability for advanced aerospace specialty corrosion resistant and high temperature materials



Control Rods

- Swaging up to 14' length and 4" dia
- Nadcap and customer special process approvals including NDT
- Surface treatments, CNC Machining, Flash Welding, Aluminum Heat Treat
- Design and build to print



Ducting Solutions

- Solutions for pneumatic ducting
- Patented couplings
- Temperatures 450° to 1,500°F
- Engines, Aircraft, APUs



Machined Components

- Exotic materials
- 3, 3.5, 4 and 5 Axis
- Horizontal and Vertical Milling
- Lathes, Hot Head, Gearing, Heat Treat, Special Processes

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