**Low friction **LIFF™ **bearings beat the competition.**

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**Background**
Heim® Bearings has created a breakthrough PTFE self-lubricating bearing that achieves the lowest possible friction and torque levels in a sliding bearing, while having the lowest rates of wear in high and low load applications.

**A Performance Solution**
LIFF™ bearings provide trouble free operation in systems that require low, consistent torque levels.

**Typical Applications**
- Mechanical and Fly-by-wire control systems
- Un-boosted flight control systems
- Lightly loaded mechanisms
- Mechanical fuel controls
- Low temperature applications
  - Aircraft — flight controls
  - Spacecraft/satellites mechanical actuators
- Rocket and missile systems

**Qualifications**
Heim LIFF™ bearings are qualified to SAE AS81934, AS81820 and AS81935 specifications for use in military and commercial aircraft applications.

**Metric and Inch Availability**
LIFF™ bearings are available in standard inch and metric sizes. Custom designs are also available.
RBC Bearings has been producing bearings in the USA since 1919. RBC offers a full line of aerospace bearings, including unique custom configurations.

### Spherical Bearings
- MS approved to AS81820 (formerly MIL-B-81820)
- Boeing and Airbus approved
- 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)
- Boeing and Airbus approved
- 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)
- Boeing and Airbus approved
- Single and double row
- Radial, self-aligning, and pulley series
- 52100 Cad plated and 440C stainless

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

### Cargo Roller Bearings
- Boeing approved
- Features precision ground, semi-ground, and unground ball bearings
- Offered in caged and full complement configurations

### Track Rollers
- MS approved to AS39901 (formerly MIL-B-3990)
- Boeing and Airbus approved
- ATF single row and ATL double row
- Sealed with lube holes and grooves
- Heavy duty cross sections
- Advanced AeroCres® materials 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
- Boeing approved

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

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ISO 9001:2008  
AS 9100

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