

# RBC Aerospace Bearings

## LIFT™ Bearings

### INTRODUCING LIFT™ BEARINGS

by Heim® Bearings



Low friction LIFT™ bearings beat the competition.

### Background

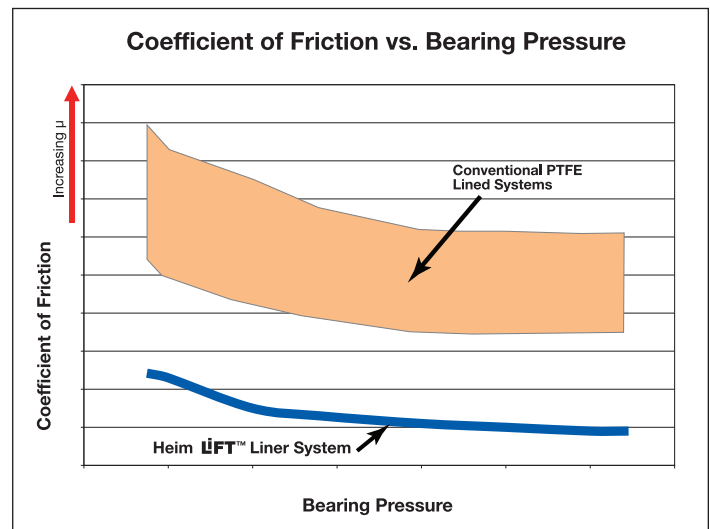
Heim® Bearings has created a breakthrough PTFE self-lubricating bearing that achieves the lowest possible friction and torque levels in a sliding bearing, while having the lowest rates of wear in high and low load applications.

### A Performance Solution

LIFT™ bearings provide trouble free operation in systems that require low, consistent torque levels.

### Typical Applications

- Flight control stick/throttle linkages
- Un-boosted flight control systems
- Lightly loaded mechanisms
- Mechanical fuel controls
- Low temperature applications
  - Aircraft — flight controls
  - Spacecraft/satellites — mechanisms and actuators
- Rocket and missile systems



### Qualifications

Heim LIFT™ bearings are qualified to SAE AS81934 and AS81820 specifications for use in military and commercial aircraft applications.

### Metric and Inch Availability

LIFT™ bearings are available in standard inch and metric sizes. Custom designs are also available.



ISO 9001:2000  
AS9100:2000

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# RBC Aerospace Bearing Products

## Innovation. Commitment. Quality.

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



### Ball Bearing Rod Ends

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



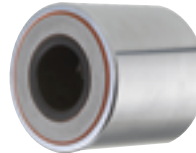
### Rod End Bearings

- 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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AS9100:2000

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