

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.

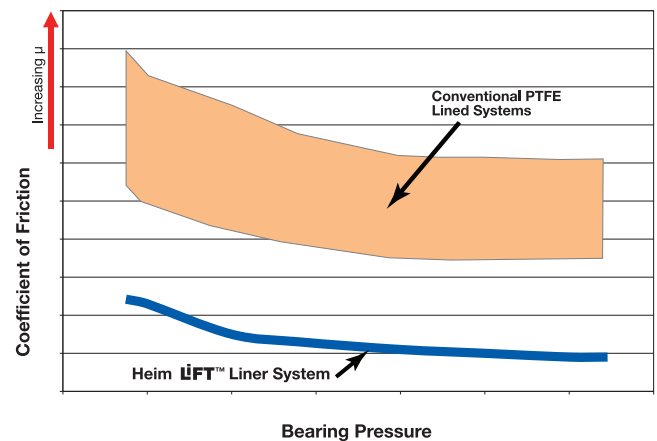
A Performance Solution

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

Typical Applications

- 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

Coefficient of Friction vs. Bearing Pressure



Qualifications

Heim LIFT™ bearings are qualified to SAE AS81934, AS81820 and AS81935 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 9001:2008
AS 9100

www.rbcbearings.com
866.RBC.AERO (US)
(866.722.2376)
+41.32.421.1300 (Int'l)

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



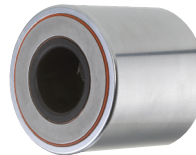
Rod End Bearings

- 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



ISO 9001:2008
AS 9100

www.rbcbearings.com
866.RBC.AERO (US)
(866.722.2376)
+41.32.421.1300 (Int'l)

This document contains a general overview of the products and features described herein. It is solely for informational purposes, does not represent a warranty of the information contained herein, and is not to be construed as an offer to sell or a solicitation to buy. Contact RBC Bearings for detailed information suitable to your specific applications. RBC Bearings reserves the right to modify its products and related product information at any time without prior notice. Some of the products listed herein may be covered by one or more issued and pending U.S. or foreign patents. Contact RBC Bearings for product specific information.

© 2009, 2015 RBC Bearings Incorporated. All rights reserved.

Rev. RBC 5/15