

RBC Space Products

Engineered Solutions Provider



HVOF Spray, Dry Film Lubrication, NDT, Heat Treating, Cadmium & Zinc Nickel & Copper Plating, Aluminum Pigment, Hard Chrome Anodize, Passivation

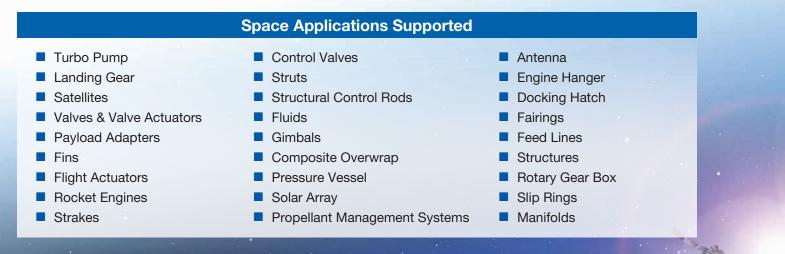
Innovation. Commitment. Quality.

RBC Aerospace is the Global Leader in Advance

RBC Bearings[®] has 31 manufacturing facilities who have been actively supporting critical flight safety Rocket and Satellite applications, which includes technical development and testing.

- ✓ Launch Platforms
 ✓ Launch Vehicles
- ✓ Guidance Systems✓ Rocket Engines
- ✓ Advanced Engineering✓ In-House Testing

RBC has one of the broadest offerings of bearing products in the Aerospace industry which is backed up by extensive in-house special processing capabilities such as HVOF (High Velocity Oxygen Fuel), Dry Film Lubrication, Passivation, Heat Treating, Cadmium & Zinc Nickel and Copper Plating, Aluminum Pigment, Hard Chrome Anodize, and proprietary self-lubricating PTFE liners. Lightweight material options include: titanium, stainless steel, aluminum, and elastomerics complemented by a full range of other aerospace grade materials.



We have a design solution for your application, please give us the opportunity to put our technical and manufacturing resources to work for you.



ed Engineered Solutions for Space Applications





Innovation. Commitment. Quality.

RBC Bearings® has been producing bearings in the USA since 1919. In addition to unique custom bearings, RBC Bearings[®] offers a full line of standard industrial and aerospace bearings, including:



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'
- · 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









- 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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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 - or see rbcbearings.com/patents/





- 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

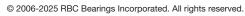
Control Rods

- Swaging up to 14' length and 4" diameter
- 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

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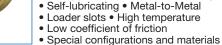












Rod End Bearings

Track Rollers

• MS approved to AS81935 (formerly MIL-B-81935)

• MS approved to AS39901 (formerly MIL-B-3990)

Superior lubricants & seals to reduce maintenance

• ATF single row and ATL double row

Sealed with lube holes and grooves

Advanced AeroCres[®] materials available

· Heavy duty cross sections