



# AeroStructures™

Leaders in Precision Aerospace Hardware



Control Rods  
Push-Pull Rods  
Connecting Links  
Torque Tubes  
Rod Assemblies  
Struts  
Special Processes

*Innovation. Commitment. Quality.* \_\_\_\_\_

# AeroStructures™



## Building Partnerships

RBC AeroStructures is well known for producing tight tolerance, precision fabricated tubular and machined parts. We also provide Mil-Spec painting, plating and non-destructive testing to the most exacting customer standards in the industry.

Through our engineering assistance program we offer our customers the latest in computer-aided design and automation techniques, helping you fine tune your design to optimize for reliability and extended operational performance.

Our Business Systems help us control internal costs and permit us to offer market competitive pricing. We also have full EDI capabilities.

RBC Aerostructures holds a variety of aerospace certifications including:

- ISO9001:2015
- AS9100:2016
- Nadcap Aluminum Heat Treating
- Nadcap Chemical Processing
- Nadcap Welding
- Nadcap Non-Destructive Testing

RBC Aerostructures continues to investigate new methodologies for improving its manufacturing and quality processes. 100% of our manufacturing capability is dedicated to the aerospace industry.



Manufacturing Control Rods, Push-Pull Rods, Connecting Links, Torque Tubes, Rod Assemblies, Struts, Tie Downs and Special Processes for over 75 years.





## Maintaining Partnerships

Our long-term partnerships with key aerospace customers and their valued subcontractors reflect RBC AeroStructure's commitment to customer satisfaction and the trust that customers place in our capabilities.

## Manufacturing & Processing Capabilities

RBC Aerospace® is well known for producing tight tolerance, precision fabricated tubular and machined parts since 1948. Our product offering includes metallic rods, telescopic rods and bungees, which can be formed, swaged, machined, or flash welded. RBC has internal production capabilities to produce spherical & rod end bearings, clevises and other fully machined attachment points.

We enhance our product offering by providing special processes and capabilities to satisfy your application's stringent requirements. Our current process capabilities include:

- Aluminum Chemical Conversion Coating
- Aluminum Heat Treating
- Brush Cadmium Plating
- CAD/CAM Engineering
- CNC Machining
- Conventional Machining
- Flash Welding
- Fluorescent Penetrant Inspection
- Form Tapping
- Metal Forming
- Magnetic Particle Inspection
- Nickel Flash Processing
- Painting
- Passivation
- Statistical Process Control (SPC)
- Swaging
- Zinc Phosphate Processing
- TIG Welding



## Operating Partnerships

One of our most important partnerships and our greatest asset is our work force. RBC AeroStructures is dedicated to ensuring every part leaving our facility meets the most demanding standards of quality.

RBC AeroStructures is located in northwest South Carolina. We invite you to call with your inquiries, or better yet, visit and see first hand what we can offer.



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



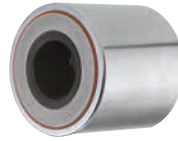
### Rod End Bearings

- 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



### 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



### 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



### 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



### Cam Followers

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



### 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



### Load Slot Bearings

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



### Ball Bearing Rod Ends

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



### 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



### 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



### Specialty Fasteners

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



### Ducting Solutions

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



### Hydraulic Actuators

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



### Machined Components

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



**Innovation. Commitment. Quality.**  
[www.rbcbearings.com](http://www.rbcbearings.com) 864-886-4607



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/](http://rbcbearings.com/patents/)