



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 (AeroS) is well known for producing tight tolerance, precision fabricated tubular and machined parts. We also provide Mil-Spec painting, plating and nondestructive testing to the most exacting customer standards in the industry. These standards are enforced by a conscientious work force with each teammate dedicated to quality at every juncture.

As a partner with AeroS, you will reap the benefits of our corporate and group experience since 1948. 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 take advantage of material and manufacturing savings.

Our Business Systems help us control internal costs and permit us to offer competitive pricing on every job. We purchase material for tubular and machined parts in the most economic quantities and sizes applicable and pass the savings on to you—our partner. We also have full EDI capabilities.

AeroS holds a variety of aerospace certifications including:

- ISO 9001 and AS 9100
- Nadcap Aluminum Heat Treating
- Nadcap Chemical Processing
- Nadcap Welding
- Nadcap Non-Destructive Testing

AeroS 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. Some typical applications for fixed-wing and rotary-wing aircraft include: Control Rods, Push-pull Rods, Connecting Links, Torque Tubes, Rod Assemblies, and Struts.



Manufacturing & Processing Capabilities

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
- Cadmium Plating
- CAD/CAM Engineering, Programming & Drafting
- CNC Machining
- Conventional Machining
- Flash Welding
- Fluorescent Penetrant Inspection
- Form Tapping
- Magnetic Particle Inspection
- 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 comprised of well trained, reliable teammates, who average over 10 years of employment with AeroS and over 20 years of total experience in metal fabrication and assembly. AeroS teammates are dedicated to ensuring every part leaving our facility meets demanding standards of quality and every shipment gets their stamp of approval!

AeroS is located in northwest South Carolina. We are within short driving distances of Atlanta, GA, Greenville, SC and Asheville, NC. 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



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), Customized Machined Parts & Nuts
- Hot Headed, Thread Rolled, HVOF Coated
- Large Diameter over 3/4"



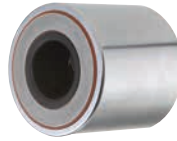
Hydraulic Actuators

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



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



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



Cam Followers

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



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" dia
- 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



Machined Components

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



AeroStructures™

Industrial Tectonics Bearings

SPECLINE

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Innovation. Commitment. Quality.

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