

RBC Aerospace Bearings

Western Precision Aero • Reliable • Flexible • Engineering

Western Precision Aero, a Division of RBC Bearings Inc., is a world-class manufacturer of geared and splined product supporting commercial aerospace and defense applications.

Western Precision has been reinvented since being acquired by RBC in 2013. While still focusing on highly engineered, precision-cut gearing and splines, WPA has expanded capabilities into multi-component assemblies and high strength, structural elements. With a management team consisting of experienced RBC managers and engineers, WPA now offers benefits beyond industry norms; including stocking positions on contracted product as well as engineering and product synergy from the breadth of RBC Bearings' product offerings.

Capabilities

Western Precision's expertise with Spur Gears, Helical Gears, and Planetary Gear Sets has been expanded to include next-level assembly offerings on pistons, cylinders, manifolds, and various mechanical assemblies.

WPA's custom machining and assembly capabilities include vertical and horizontal milling, CNC gear and spline cutting, as well as CNC gear grinding and hobbing.

Understanding that the market continues to push for reduced costs, WPA has an established Continuous Improvement team to streamline the manufacturing process and works with other RBC divisions to remain current on emerging manufacturing technologies.

Approvals

AS9100, ISO9001, and
BOEING BQMS D-82479 approved.



Contact us!

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RBC Aerospace Bearing Products

Product Line Card



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



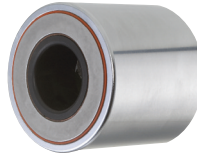
Rod End Bearings

- 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 inches
- 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
- Lined track rollers 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 and 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



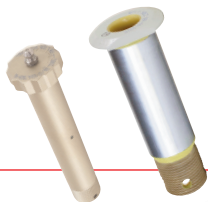
Rings and Seals

- 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" dia
- 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

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