

Landing Gear Solutions

Southwest Products/US Bearing Division

RBC® Bearings acquired both **US Bearing** and **Southwest Products**, which they then merged into the **Southwest Products/US Bearing Division of RBC Aerospace**. Since the acquisition there has been a substantial investment in new capital equipment and the division has relocated to a 31,000 sq. ft. facility in Baldwin Park, CA. RBC Aerospace continues to be well positioned to build on its proud legacy of meeting the needs of commercial and military applications with niche bearing solutions.

Served Market Segments:

- ✓ Commercial & Military Aircraft
- ✓ Ships & Submarines
- ✓ Space Launch Vehicles
- ✓ Tanks & Ground Vehicles
- ✓ Missiles
- ✓ Power Generation Plants

Product Families:

- ✓ Custom lined Sphericals, Rod Ends & Journals (up to 16")
- ✓ High Temperature Metal-on-Metal
- ✓ Split Ball Sphericals
- ✓ Solid & Welded Links
- ✓ Trunnions



Engineered Solutions Provider



SWP/USB has the capability to offer unique swaged bearing solutions, in addition to offering proprietary self-lubricating liners (Dyflon®, M889 & Kentlon®) and hard coating machining. This complements the precision machining (up to 30" OD), grinding, honing and lapping that have been the traditional core competencies.

Qualifications:

SWP/USB holds a substantial number of OEM approvals and is proud to serve the Aerospace, Naval, Defense, Space & Nuclear Markets. Our broad product offering is supported by a highly skilled and dedicated workforce with a continuing commitment to the highest levels of customer satisfaction.

Please consult your local Sales Engineer or contact us directly for a technical design consultation.



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"



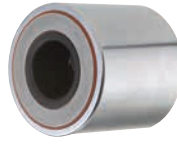
Hydraulic Actuators

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



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" 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



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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www.rbcbearings.com • SWPRFQ@rbcbearings.com • 626-358-0182

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