

RBC Aerospace Bearings

HVOF Special Process Capability

High Velocity Oxygen Fuel (HVOF) coatings extend component life

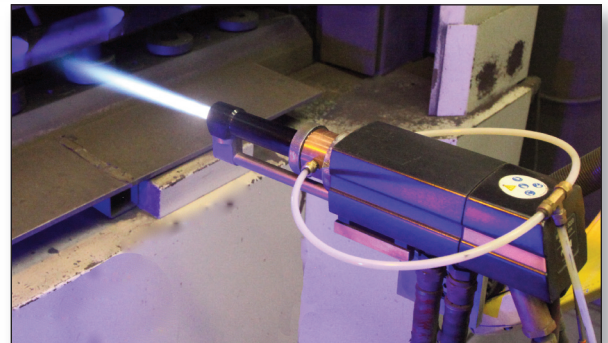
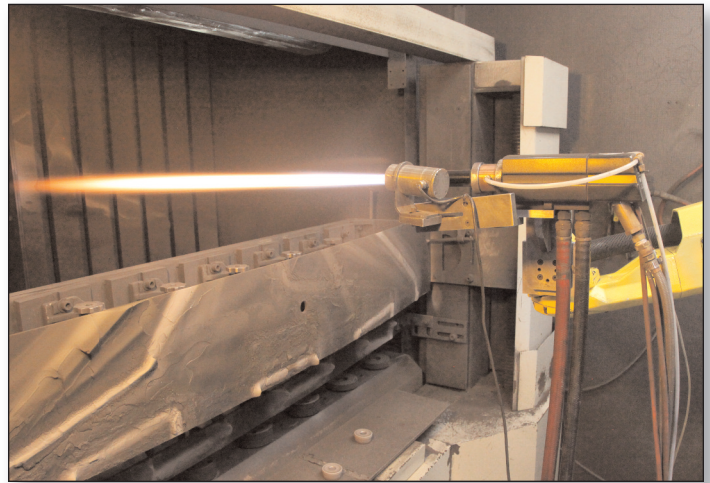
As the "World Leader in Fuse Pin Technology™" RBC Sonic Industries offers the capability to provide HVOF coatings to complex machined parts and the Sonic core offering of specialty fasteners. HVOF tungsten carbide coatings are used in a variety of commercial engine and airframe components (like flap tracks, landing gear and engine components). This coating provides improved wear (4X), impact and & fatigue resistance, and equal or better corrosion resistance than conventional hard chrome plating. The HVOF coating is ground to meet the dimensional and surface finish desired.

Size range capabilities: Up to 8" OD x 32" Length
Full coating and finishing (Grind & Polish) capabilities

Coatings: Tungsten Carbide/BAC 5851/AMS 2448
HVOF applied to AMS 2448 specification

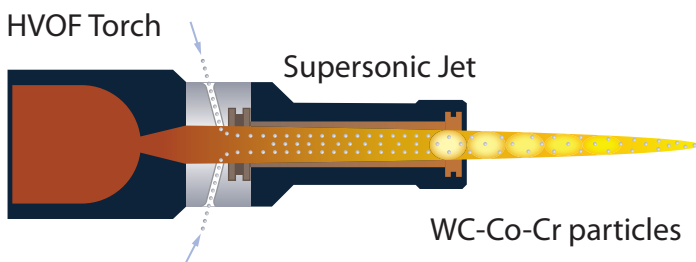
Materials: Titanium, Inconel, 15-5PH, others

Approvals: Boeing D1-4426, SAFRAN PCS 2560



REACH Compliant

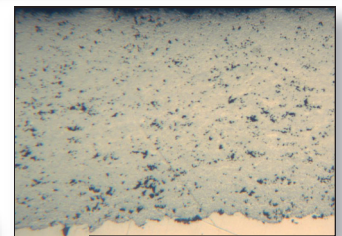
NADCAP approved



HVOF Coating Properties

- Material (most popular): 86% WC- 10% Co -4% Cr
- Porosity: <1% (Very dense coatings)
- Hardness: > 1100 HVN (>70 Rc)
- Bond Strength: >10,000 psi

HVOF Microstructure at 200X



Finish ground



"Exceptional alternative to traditional Hard Chrome Plating"



Inquiries:
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RBC Aerospace Bearing Products

Innovation. Commitment. Quality.

RBC Bearings has been producing bearings in the USA since 1919. RBC offers a full line of aerospace bearings, including unique custom configurations.



Spherical Bearings

- MS approved to AS81820 (formerly MIL-B-81820)
- Boeing and Airbus approved
- 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)
- Boeing and Airbus approved
- 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



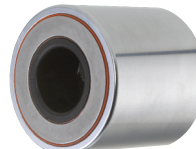
Cargo Roller Bearings

- Boeing approved
- Features precision ground, semi-ground, and unground ball bearings
- Offered in caged and full complement configurations



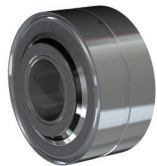
Journal Bearings

- MS approved to AS81934 (formerly MIL-B-81934)
- Boeing and Airbus approved
- Plain and flanged • Self-lubricating
- High temperature • High loads
- Available in inch and metric sizes



Track Rollers

- MS approved to AS39901 (formerly MIL-B-3990)
- Boeing and Airbus approved
- 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



Double Row Hourglass Bearings

- Boeing approved
- High Radial and Axial Load Ratings
- Low Torque
- Integral Swage Grooves Available
- Pyrowear®, Cronidur30®, 52100, 9310 or 440C



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)
- Boeing and Airbus approved
- Single and double row
- Radial, self-aligning, and pulley series
- 52100 Cad plated and 440C stainless



Load Slot Bearings

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



Ball Bearing Rod Ends

- MS approved to AS6039 (formerly MIL-B-6039)
- Boeing approved
- 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



Inquiries:

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