RBC Bearings

HVOF Special Process Capability

High Velocity Oxygen Fuel (HVOF) coatings extend component life

RBC Bearings offers the capability to provide Thermal Spray coatings and finishing to complex machined parts and sub-assemblies produced inhouse. HVOF coatings are used in a variety of industrial applications such as oil & gas and construction equipment.

Fully machined components and sub-assemblies can be processed with the HVOF coating to meet the specific needs of your application.

Size range capabilities: Up to 8" OD x 32" Length Final Product: Machining, Grinding, Polishing, Coating & Finishing

Coatings: Tungsten Carbide & Metal Alloys Materials: Inconel, 17-4, Custom 465, others

HVOF Features & Benefits:
Improved Impact & Fatigue Resistance
Better Corrosion Resistance (than conventional hardchrome plating)
Improved Seal Life (2X)
Eliminates Hazardous Waste







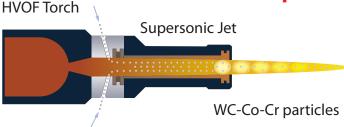








REACH Compliant



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



Inquiries:

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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:



Tapered Roller Thrust Bearings

Case-hardened tapered roller thrust bearings for oilfield top drives and swivels. Available in full complement, maximum capacity versions.



Thin Section Ball Bearings

Standard cross sections to one inch. Bore sizes to 40 inches. Stainless steel and other materials are available. Seals are available on all sizes and standard cross sections. Super duplex configurations.



Cam Followers

Standard stud, heavy stud, yoke type, caged roller followers. Patented RBC Roller® cylindrical roller cam followers, HexLube® universal cam followers, airframe track rollers.



Cylindrical Roller Bearings

Cylindrical roller bearings designed for mud pump pinion and eccentric positions. Fully interchangeable to industry standards.



Needle Roller Bearings

Pitchlign® caged heavy duty needle roller bearings ideal for cross head bearings applications. These double row bearings are available in single row and Tandem Roller® versions.



Commercial Rod Ends

Commercial and industrial, precision, Mil-Spec series, selflubricating, and aircraft. Sold under the Heim®, Unibal®, and Spherco® names. Available in inch and metric sizes.



Spherical Plain Bearings

Radial, angular contact, extended inner ring, high misalignment. QuadLube®, ImpactTuff®, SpreadLock® Seal, CrossLube®, DuraLube™, and self-lubricating bearings. Available in inch and metric sizes.



Tapered Roller Bearings

Single, double, & multi row versions available for main bearing positions in mud pumps, gear boxes, etc. Bearings are constructed of case hardened steel washers and rollers with bore size of 11" or greater.



TP Series Bearings

RBC Bearings® TP Series cylindrical roller thrust bearings ideal for crane hooks, oil well swivels, winch systems, and gear boxes. Fully interchangeable with industry standard offering.



Keyless Locking **Devices**

Mechanical bushings used to connect power transmission components onto rotating shafts. Without the use of keyways, KLDs eliminate the problems associated with backlash including fretting, corroding, and wallowing.



Lubron™Bearings

Lubron™self-lubricating bearings designed and custom manufactured in most any size, material and bearing configuration. Applications include hydro power and water control, nuclear power generation, infrastructure, architecture, offshore marine, industrial, machinery and heavy equipment.



Shaft Collars

Used to position or locate a component on a shaft. Made from mild steel, type 303 or 316 stainless steel, aluminum, or acetal. Available in inch and metric sizes.



Self-Lubricating Bearings

Ball Bearings

Radial, thrust, rod ends, spherical bearings, high temperature, high loads. Available in inch and metric sizes. Fiberglide® self-lubricating bearings.

Precision ground, semiground,

unground. High loads, long life,

smooth operation. Nice® branded

products are offered in caged and

full complement configurations.



Shaft couplings serve as components to time, join, or align especially when zero backlash is desired. Made from mild steel with a black oxide finish type 303 stainless steel, or aluminum.



Specials

RBC Bearings® manufactures many specialty bearings for the aerospace, oil and energy, semiconductor equipment, packaging, transportation, and other industries.



Rigid Couplings

shafts at lower speeds and torque, Available in inch and metric sizes.



PIC Design®

Complete line of precision gears. precision hardware, timing belts, pulleys, and linear motion systems. Industries served include industrial, aerospace, defense, medical, robotics and automation, material handling, and assembly. Custom design support for unique applications.















Smoother. Faster. Longer. Because That's How We Roll. www.rbcbearings.com 800.356.6584

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