



RBC Precision Products

Dowel Pins, Loose Needle Rollers, Shafts



- Precision Ground Steel and Stainless Steel Pins, Rollers, and Shafts
- Knurls, Grooves, Trunnions, Undercuts, Plating, and Coatings
- End Types – Spherical, Flat with Corner Break, Ground, Chamfer



ISO 9001:2000

www.rbcbearings.com
574.546.4455









Small and Standard Loose Needle Rollers and Precision Rollers



- Diameter: .031 to 1.250 inch
.787 to 31.750 mm
- Length: .125 to 8.000 inch
3.17 to 203.20 mm
- Available in inch and metric sizes
- Superior roundness and finish
- Typical materials: 52100, 8620, 440C, M50
- Other materials available

Typical Applications

			
Bearings	Planetary Gear Sets	Overrunning Clutches	Engine Tappet Rollers



Flat Ends with Corner Break

Spherical Ends

Precision Ground Ends





Motor Shafts, Rails, and Machined Components



Sub-Fractional Horsepower Motor Shafts



Rails and Large Shafts



Machined, Knurled, and Ground Shafts

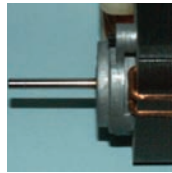
Typical Applications



Gearmotor Pins



Casing Pins

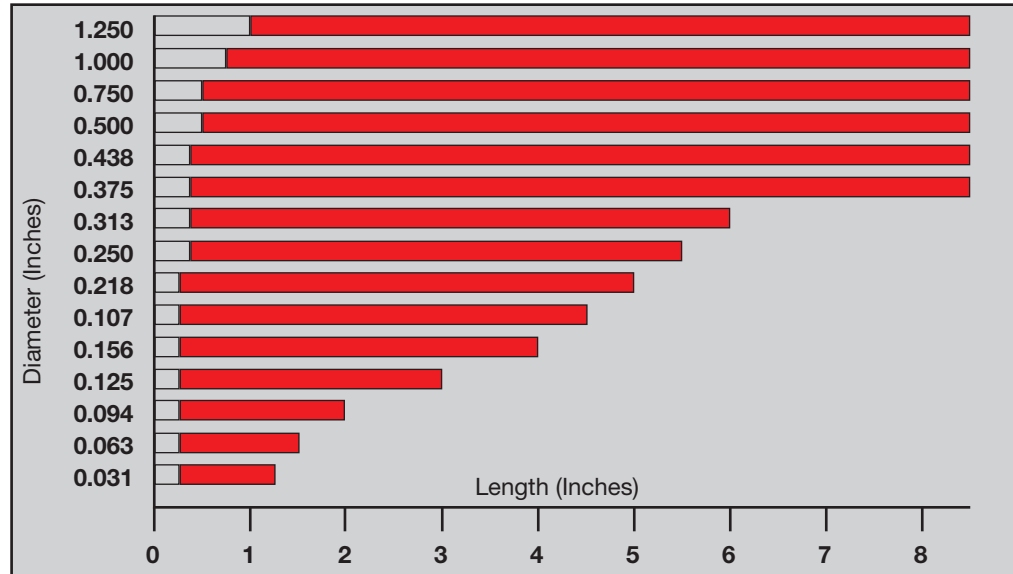


Motor Shafts

- Materials: 52100, 8620, 4140 Stainless Low Carbon and other alloys
- Diameter: Up to 1.2500 inch
- Length: Up to 8.0000 inch

Diameter to Length Capability

Shortest to longest length for a given diameter





Gear Pins, Dowels, Locating Pins, and Precision Swiss Components

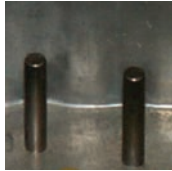


Typical Materials

- 52100 Low Carbon Steel
- Stainless 302/303/304
316, 416, 420, 440C



Typical Applications



Gear Boxes

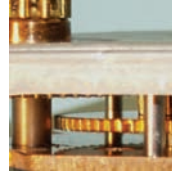


Plate
Spacers



Motor Pins



- Diameter: .031 to 1.250 inch
- Length: .156 to 8.000 inch
- Available in inch and metric sizes
- Coatings and plating available

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Large Rollers, Wrist & Planet Pins, Plated/Coated Pins & Rollers



Typical Applications




Roller Shafts Alignment Pins Crank Pins

- Materials: 52100, 8620, 4140 Stainless
- Diameter: Up to 1.250 inch
- Length: Up to 8.000 inch



Typical Coatings

- Black Oxide
- Zinc Dichromate
- Oil
- Manganese Phosphate
- Electroless Nickel
- Others as Required



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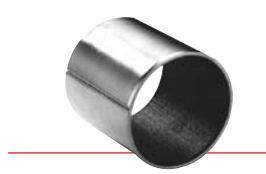
Innovation. Commitment. Quality.

RBC has been producing bearings in the USA since 1919. In addition to unique custom bearings, RBC offers a full line of standard industrial and aerospace bearings, including:



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.



Self-Lubricating Bearings

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



Thin Section Ball Bearings

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



Airframe Control Bearings

Ball bearing types, self-lubricating types, needle roller track rollers.



Tapered Roller Bearings

Tyson® case-hardened and through-hardened tapered roller bearings. Available in many sizes. Used in Class 8 heavy truck and trailer wheel bearings, gearboxes, and final drive transmissions.



Dowel Pins, Loose Needle Rollers, Shafts

Precision Products dowel pins, loose needle rollers, and shafts.



Tapered Roller Thrust Bearings

Case-hardened. Sealed and unsealed for truck, tractor, and construction equipment steer axles, and Class 8 trailer landing gear.



Commercial Rod Ends

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



Integrated Assemblies

For robots and other process tool applications. Engineering design assistance. Production volume capacity.



Large Ball and Cylindrical Roller Bearings

Ball and cylindrical roller bearings up to 60 in. (1.5 m) O.D. Tapered roller and tapered roller thrust bearings up to 36 in. (9.1 m) O.D. Slewing rings up to 169 in. (4.3 m) O.D.



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.



Ball Bearings

Precision ground, semiground, unground. High loads, long life, smooth operation. **Nice**® branded products are offered in caged and full complement configurations.



Needle Roller Bearings

Pitchlign® caged heavy duty needle roller bearings, inner rings, **TJ TandemRoller**® bearings for long life.



Specials

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



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