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
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

RBC Bearings
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

Length (Inches)

0 1 2 3 4 5 6 7 8

ISO 9001:2000
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

www.rbcbearings.com
574.546.4455
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

ISO 9001:2000
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574.546.4455
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.

**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.

**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.

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

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

**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.

**Needle Roller Bearings**
Pitchlin® caged heavy duty needle roller bearings, inner rings, TJ TandemRoller® bearings for long life.

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

**Airframe Control Bearings**
Ball bearing types, self-lubricating types, needle roller track rollers.

**Dowel Pins, Loose Needle Rollers, Shafts**

**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.

**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.

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

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