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

Typical Coatings
• Black Oxide
• Manganese Phosphate
• Zinc Dichromate
• Electroless Nickel
• Oil
• Others as Required

Typical Applications
• Roller Shafts
• Alignment Pins
• Crank Pins

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, thrust, roller, ball, and self-lubricating bearings. Available in ball and metric sizes.

Thin Section Ball Bearings
• Thin section, high precision, ultra high precision, high speed, high load, high misalignment.

Tapered Roller Bearings
• Cone, single, double, hubless, extended inner ring, high misalignment, thrust, and self-lubricating bearings.

Tapered Roller Thrust Bearings
• Thin section, high precision, ultra high precision, high speed, high load, high misalignment.

Integrated Assemblies
• Integrated and other precision components for automotive, heavy industry, and other applications.

Cam Followers
• Standard and custom precision hardened and ground cam followers. Patented RBC Roller® cylindrical roller cam followers, HexLube® universal cam followers, and more.

Needle Roller Bearings
• Multiple options including standard, heavy duty, extreme load, high speed, high precision, and self-lubricating bearings, inner rings, TF Spheroclin™ bearings for long life.

Self-Lubricating Bearings
• Needle, thrust, roller, spherical, thrust, and other precision bearings with integral lubrication. Flywheel® self lubricating bearings.

Airframe Control Bearings
• Ball bearing types, self-lubricating types, needle roller track rolls.

Dowel Pins, Needle Rollers, Shafts
• Precision products include dowel pins, loose needle rollers, and shafts.

Commercial Rod Ends
• Commercial and industrial, precision, Mil-Spec series, self-lubricating, and aircraft. Sold under the Heim®, Unibal®, and Spherco® names.

Large Ball and Cylindrical Roller Bearings
• Ball and cylindrical roller bearings up to 54 in (1.37 m) O.D. Tapered roller and spherical bearings are available in a wide range of sizes.

Ball Bearings
• Precision grief, turning, air, and special applications. needle, ball, and roller bearings available in a variety of sizes and configurations.

Specials
• Custom applications range from military and aerospace to industrial and general applications. We offer a wide variety of packaging, transportation, and other solutions.

Typical Applications
• Materials: 52100, 8620, 4140 Stainless
• Diameter: Up to 1.250 inch
• Length: Up to 8.000 inch

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

RBC Precision Products

Dowel Pins, Loose Needle Rollers, Shafts

Large Ball and Cylindrical Roller Bearings

Ball Bearings

Specials

• 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

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®, 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 sizes.

- **Tapered Roller Bearings**
  - Case-hardened and through-hardened. Available in 30 to 3,600 inch O.D. Tapered roller and tapered roller thrust bearings. Available in inch and metric sizes.

- **Airframe Control Bearings**
  - Ball bearing types, self-lubricating types, needle roller track rollers. Available in inch and metric sizes.

- **Dowel Pins, Loose Needle Rollers, Shafts**
  - Precision Products brand pins, loose needle rollers, and shafts. Available in inch and metric sizes.

- **Commercial Rod Ends**
  - Instrumentation and replacement high precision, aircraft, ball joints for Heim®, Unibal®, and Spherco® names. Available in inch and metric sizes.

- **Large Ball and Cylindrical Roller Bearings**
  - Roll and cylindrical roller bearings up to 60 in. (1.5 m) O.D. Tapered roller and tapered roller thrust bearings up to 36 in. (0.9 m) O.D. Slewing rings up to 169 in. (4.3 m) O.D.

- **Ball Bearings**
  - Precision ground, bi-directional, airfoil, high load, mini, thin, and high temperature. Available in inch and metric sizes.

- **Specials**
  - Precision ground steel and stainless steel pins, rollers, and shafts.
  - Knurled, Grooves, Trunnions, Undercuts, Plating, and Coatings.
  - End Types — Spherical, Flat with Corner Break, Ground, Chamfer

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### Typical Coatings

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

### Typical Applications

- Roller Shafts
- Alignment Pins
- Crank Pins

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**ISO/TS 16949:2009**
**ISO 9001:2008**
**www.rbcbearings.com**
**574.546.4455**
**Typical Materials**

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

**Dimensions**

- Diameter: .031 to 1.250 inch
- Length: .156 to 8.000 inch

**Available in**

- inch and metric sizes
- Coatings and plating available

**Applications**

- Bearings, Planetary Gear Sets, Overrunning Clutches, Engine Tappet Rollers

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**Small and Standard Loose Needle Rollers and Precision Rollers**

- Diameter: .031 to 1.250 inch
- Length: .125 to 8.000 inch

**Available in**

- inch and metric sizes
- Superior roundness and finish
- Typical materials: 52100, 8620, 440C, M50

**Other materials available**

**Applications**

- Gearmotor, Casing Pins, Motor Shafts

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**Motor Shafts, Rails, and Machined Components**

- Diameter: Up to 1.2500 inch
- Length: Up to 8.0000 inch

**Applications**

- Sub-Fractional Horsepower Motor Shafts
- Rails and Large Shafts
- Machined, Knurled, and Ground Shafts

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

- Diameter: .031 to 1.250 inch
- Length: .156 to 8.000 inch

**Available in**

- inch and metric sizes
- Coatings and plating available

**Applications**

- Gear Boxes, Pin Spacers, Motor Pins

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**Typical Applications**

- Gearboxes
- Motor Shafts
- Casing Pins
- Pins
- Plates

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**ISO/TS 16949:2009**

**ISO 9001:2008**

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**574.546.4455**
Typical Materials

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

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

Flat Ends with Corner Break
Precision Ground Ends
Spherical Ends

Bearings  Planetary Gear Sets  Overrunning Clutches  Engine Tappet Rollers

Sub-Fractional Horsepower Motor Shafts
Rails and Large Shafts
Machined, Knurled, and Ground Shafts

Diameter to Length Capability
Shortest to longest length for a given diameter

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

Small and Standard Loose Needle Rollers and Precision Rollers
Motor Shafts, Rails, and Machined Components
Gear Pins, Dowels, and Locating Pin, Precision Swiss Components

Typical Applications

ISO/TS 16949:2009
ISO 9001:2008

www.rbcbearings.com
574.546.4455
Typical Materials
- 52100 Low Carbon Steel
- Stainless 302/303/304 316, 416, 420, 440C

Diameter: .031 to 1.250 inch
Length: .125 to 8.000 inch
Available in inch and metric sizes

Coatings and plating available

Flat Ends with Corner Break
Precision Ground Ends

Bearing Planetary Gear Sets
Overrunning Clutches
Engine Tappet Rollers

Typical Applications
Bearings
Planetary Gear Sets
Overrunning Clutches
Engine Tappet Rollers

Soft and Standard Loose Needle Rollers and Precision Rollers
Motor Shafts, Rails, and Machined Components
Gear Pins, Dowels, and Locating Pin, Precision Swiss Components

Diameter: .031 to 1.250 inch
Length: .156 to 8.000 inch
Available in inch and metric sizes

Spherical Ends

Typical Applications

Sub-Fractional Horsepower Motor Shafts
Rails and Large Shafts
Machined, Knurled, and Ground Shafts

Diameter to Length Capability
Shortest to longest length for a given diameter

Motor Shaft
Casing Pin
Gas Motor

Typical Applications
Gas Motor
Casing Pin
Motor Shaft

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

Small and Standard Loose Needle Rollers and Precision Rollers
Motor Shafts, Rails, and Machined Components
Gear Pins, Dowels, and Locating Pin, Precision Swiss Components

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Typical Applications

Flexible Spaces
Motor Pins

Typical Applications

Flexible Spaces
Motor Pins

Small and Standard Loose Needle Rollers and Precision Rollers
Motor Shafts, Rails, and Machined Components
Gear Pins, Dowels, and Locating Pin, Precision Swiss Components

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

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

- Tapered Roller Bearings
- Case-hardened and through-hardened. Available in Inch and Metric. Designed for high-speed, heavy-duty service.

- Tapered Roller Thrust Bearings
- Double and triple skewed for wide, high-speed, and low-friction applications. Available in Inch and Metric.

- Cam Followers
- Standard, heavy-duty, high-speed, and cam followers. Emitter integrated cam followers. Illustrated catalog available.

- Needle Roller Bearings
- Multiple options from thin cross section roller bearings, inner rings, to NeedleRoll™ bearing for long life.

- Self-Lubricating Bearings
- Needle, thrust, roll, slide, spherical, and other applications. Available in Inch and Metric._available.

- Airframe Control Bearings

- Dowel Pins, Needle Needles, Shafts
- Precision Products. Dowel pins, loose needle rollers, and shafts.

- Commercial Rod Ends
- Precision and non-precision commercial rod ends. Available in Inch and Metric. Suitable for aerospace applications.

- Large Ball and Cylindrical Roller Bearings
- Ball and cylindrical roller bearings up to 60 in. (1.5 m) O.D. Tapered roller and 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, grease-and-shielded, air-hardened, high-speed, and other specialty bearings. Available in Inch and Metric.

- Specials
- High-performance races, specialty bearings, and other applications. Suitable for aerospace, military, and automation applications.

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

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

- Typical Applications
  - Roller Shafts
  - Alignment Pins
  - Crank Pins

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

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