

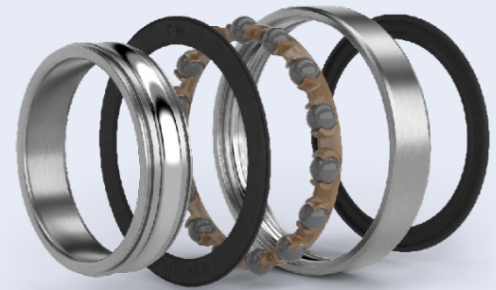


CW Bearing USA, Inc. is a global leader in precision bearing solutions, providing high-performance products tailored to diverse industries, since 1984. With a strong U.S. presence, we prioritize engineering excellence, innovation, and customer satisfaction.

Our production capacity exceeds 600 million ball bearings annually. From raw materials to final products, we maintain stringent quality control under ISO/TS 16949 and ISO 14001 certifications.

#### Core Capabilities:

- Custom and standard bearing solutions
- Advanced engineering support
- State-of-the-art manufacturing
- Global supply chain management
- Application-specific testing and validation

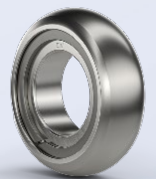


#### Materials and Components:

- **Rings and Balls:**
  - Chrome steel (SAE 52100), stainless steel (SUS 440C), ceramic hybrid options
  - Heat treatments for enhanced durability (150°C - 350°C)
    - Carbonitriding – improves wear resistance in harsh environments
- **Retainers:**
  - Pressed retainers (low carbon or stainless steel)
  - Solid retainers (glass fiber-reinforced polyamide, PEEK, Phenolic, others) for reduced friction and improved grease retention

#### Seals and Shields:

- Open bearings for enclosed systems with effective lubrication
- Capped bearings with integrated seals or shields for protection and lubricant retention
- **Shields (ZZ/Z):**
  - Lower friction, high-speed capability
  - Narrow gap (0.1 – 0.3 mm), made from low carbon or stainless steel



#### Lubrication:

- **Oil Lubrication:** Continuous supply reduces friction and wear; includes mineral, diester, silicone, and fluorinated oils
- **Grease Lubrication:** Long-term, maintenance-free options with various formulations based on operating conditions
- Pre-lubricated options for reliability under diverse conditions

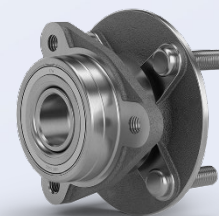


#### Size Range:

- **Metric:** 7mm OD to 110mm OD / 3mm ID to 80mm ID
- **Inch Equivalent:** 0.276" OD to 3.543" OD / 0.118" ID to 3.149" ID

#### Industries Served:

- **Medical Robotics** – Robotic-assisted surgery and diagnostics
- **Industrial Automation** – Robotics, conveyors, and automation
- **Automotive** – Steering & braking systems, EVs, transmissions, drivetrains
- **Home & Garden Appliances** – Washers, vacuums, forestry and lawncare
- **Office & Computer Equipment** – Printers, copiers, and PC fans
- **Cycling** – Electric bike powertrain & components
- **Recreational** – Off-road, on-road, snow, marine, fishing reels
- **Electrical Drives & Tools** – Alternators, motors, and power tools
- **Optical & Medical Instruments** – Projectors, medical & dental instruments
- **Machinery & Plant** – CNC machines and elevators
- **Encoders, Actuators, & Brushless Motors** – Advanced motion control solutions for robotics and automation

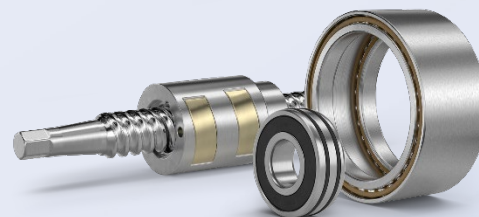


#### Product Range:

- **Ball Bearings:** Deep groove, angular contact, four-point contact, miniature, thin-walled, stainless steel
- **Roller Bearings:** Cylindrical, needle bearings, cross roller bearings
- **Custom Bearings:** Application-specific solutions designed for unique performance
- **Ball Screws:** Electric clutch, power steering, linear actuators, robotics & machinery
- **Worm Shafts:** Precision-engineered for steering applications
- **Mounted Bearings:** Wheel bearings

#### Competitive Advantages:

- Industry expertise and engineering support
- Customization options for specific performance needs
- ISO-certified quality assurance
- U.S.-based technical and sales support
- Scalable manufacturing for high-volume production
- Cost-effective solutions with uncompromised quality



**Your Requirements Are Our Standard** CW Bearing collaborates with customers to deliver precision, reliability, and innovation. Whether standard or custom-engineered, we are your trusted partner.

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