

🔷 MULTISCALE GROUP

CUSTOM BEARINGS

High-Performance Bearings

Our vertically-integrated manufacturing services provide a one-stop shop for design and production of bespoke bearings.

- Expansive material choice, including superalloys.
- Fast and efficient wire-laser hybrid manufacturing process.
- Experienced manufacturers of bearings for extreme environments.
- No minimum order quantities.
- Designed and manufactured in the USA.

The Hybrid Production Process

Hybrid manufacturing is an advanced manufacturing method that combines additive and subtractive within the same system.

Our wire-laser metal deposition units are a fast and efficient method for producing precision components. Wire feedstock is melted by lasers, building the part layer by layer. CNC machining shapes and finishes, providing tight tolerances and high-quality surfaces in a streamlined, integrated process.

Bearings can be made with a variety of materials, including Inconel[®], Stellite[®], M2 steel, and stainless steel.

Specifications (typical ranges)

Bearing Type	Inner Dim. (IN)	Outer Dim. (IN)	Width (IN)	Static Load Capacity (LBF)	Operational Speed (RPM)	Operating Temp. (F)
Single Row Angular	0.5-6.375	2.0–11.875	0.25-1.125	1,500-0,000	200+	200–500
Double Row Angular	0.5-6.375	2.0-11.875	0.75-2.75	5,000-15,000	200+	200-500
Double Row Deep Groove	0.0-6.375	2.0-11.875	0.75-2.75	5,000- 5,000	200+	200–500
Needle Roller	0.2-6.375	0.5-3.875	0.50-3.875	15,000-50,000	200+	200-500
Cylindrical Roller	0.25-6.375	0.5–3.875	0.50-3.875	15,000-50,000	200+	200-500







Hybrid CNC Parts

508-461-9412 office@hybridcncparts.com hybridcncparts.com 49 Canterbury Street, #500 Worcester, MA 01610 A **Multiscale Group** Company multiscalegroup.com

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