

CUSTOM BEARINGS

Custom Performance Bearings

Hybrid CNC Part creates custom bearings for critical systems and demanding operating conditions, including those with extreme temperatures, corrosive environments, excessive abrasion and wear, and complex loading profiles.

Whether a one-off proof of concept or a short-run production, our vertically-integrated facility in Massachusetts supports a smooth transition from development through scaled manufacturing. We reliably deliver high-complexity components with controlled tolerances, advanced materials, and full in-house inspection.

Advanced Hybrid Manufacturing

Our advanced hybrid manufacturing process combines laser welding and CNC machining to produce near-net preforms that are refined and finished in a single setup. The result is high quality, precision parts with faster procurement cycles and shorter lead times.

Hybrid manufacturing enables:

- Rapid prototyping and material validation
- Solid-body, void-free preforms
- Readily-available feedstock, including superalloys
- Multi-material and functionally-graded parts
- Complex geometries
- Simplified tooling and fixtures
- Minimal material waste and post-processing



Bearing Types

Ball	Single / Double / Deep Groove / Angular Contact
Roller	Cylindrical / Needle

Alloy	Example Brand Names and Grades
Nickel	Inconel®, Monel®, Hastelloy®
Cobalt	Stellite®, Haynes®, Ultimet®, Polymet®
Titanium	Grade 2, Grade 5
Stainless Steel	304, 316L, 316H, 440C, 17-4PH
Carbon Steel	1018, 1045, A36
Tool Steel	H11, H13, M2, M50, T1, D2



Visit our website for more on custom options, machine-ready preforms, and made-to-order bearings: hybridcncparts.com/bearings

