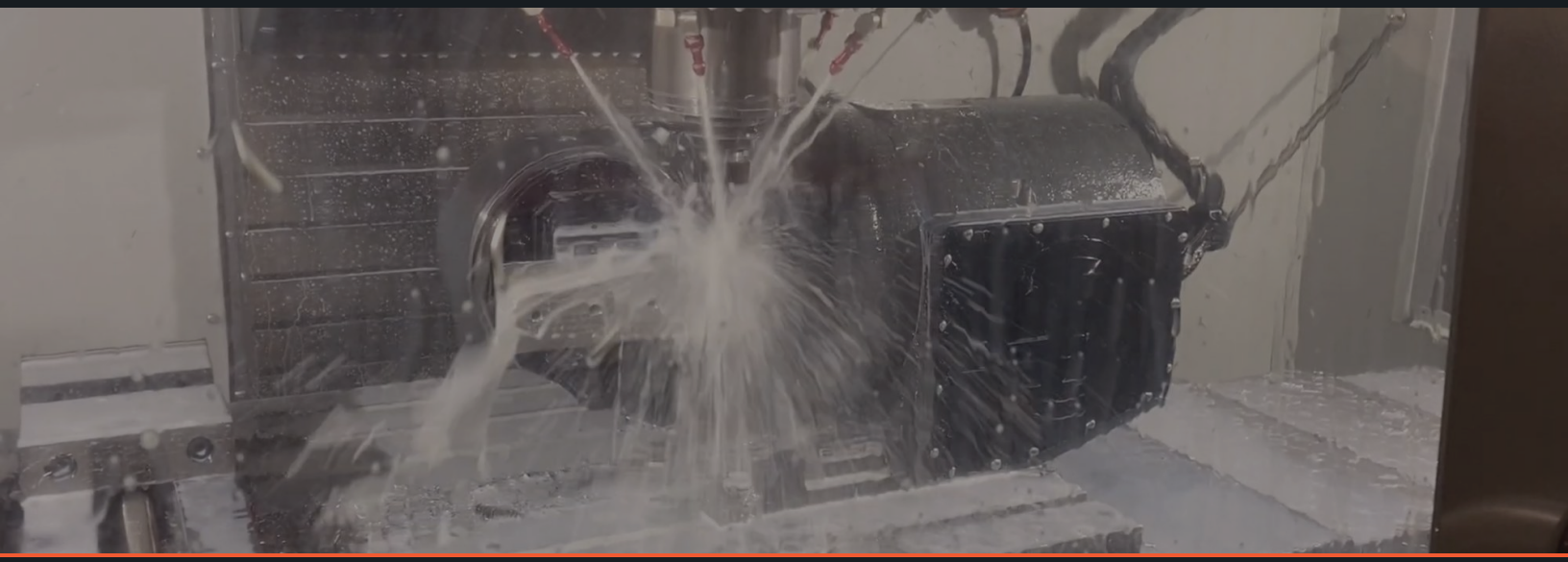


CNC Equipment & Machining Capabilities

Multi-axis milling and turning for aerospace, defense, prototype, and production work.

Milling

Machine (qty.)	Configuration	Machine travel
Haas VF-2 (1)	3-axis VMC	30 × 16 × 20 in.
Haas VF-3SSYT (1)	5-axis with removable trunnion; 3+2 or simultaneous	40 × 26 × 25 in.
Haas VF-4SS (2)	3-axis VMC	50 × 20 × 25 in.
Mazak VC-Ez 20X (2)	Integrated trunnion-style 5-axis; 3+2 or simultaneous	31.5 × 20 × 20 in.

Turning & Mill-Turn

Machine (qty.)	Configuration	Key capacity
Mazak Quick Turn 250MY (1)	C-axis, live tooling, Y-axis milling	14.75 in. max dia.; approx. 24 in. max length; approx. 3.25 in. bar capacity
Haas SL-10 (1)	2-axis CNC turning center	11 in. max diameter; 14 in. max length; 1.75 in. bar capacity



Materials, Inspection & Job Fit

Inspection and quality support for prototype, high-mix, and recurring production work.

Materials

Aluminum: 6061, 7075, 2024, MIC-6, and cast tooling plate. Stainless: 304, 316, 17-4 PH, and 15-5 PH. Also carbon, alloy, tool, and pre-hardened steels; titanium, copper, brass, bronze; and engineering plastics including Delrin, UHMW, nylon, polycarbonate, and PEEK.

Inspection & Quality

Dimensional inspection includes a portable Romer CMM, surface plate, height gauges, micrometers, bore gauges, indicators, pin and thread gauges, and calibrated hand tools. Renishaw probing is used on most CNC machines for in-process verification. AS9100D- and ISO 9001:2015-certified quality management system; first-article inspection, AS9102 support, documented final inspection, and traceability when required.

Typical Tolerance Guidance

Feature	Guidance
General machining	±0.005 in., typical
Routine precision	±0.001 in.
Selected bores, diameters & features	±0.0005 in.
Under controlled conditions	Approx. ±0.0002 to ±0.0003 in.

Angular and true-position requirements are reviewed against datum structure, feature size, and inspection access.

Program Fit

One-off prototypes, development hardware, rapid iterations, low-volume/high-mix work, bridge production, and recurring programs. A Bridgeport mill and manual lathe support preparation, modification, repair, and secondary operations.