

Precision Machining Solutions

Machining Capabilities

3-axis mills Mill-turns
 5-axis mills Lathes
 Swiss

*Call for information about
 available hours*

Machining Envelope

Maximum size for milled parts

41.34" x 22.05" x 18.11" (1,050 x 560 x 460 mm)

- 3-axis vertical milling: 22"x30"
- 4-axis horizontal milling: 22"x22"
- 5-axis milling: 12" cube

Maximum size for lathe parts

Diameter: 26.62" (600 mm)

Length: 29.53" (750 mm)

5-axis mill-turn: \varnothing 6.0

Technology

Automated manufacturing
 Tool life cycle management
 Live tooling
 Bar feeders
 CAM automation

Tolerances

Distance Dimensions

For features of size and location: $\pm 0.005"$.

Orientation and form dimensions

0-12" $\pm 0.005"$, Angularity 1/2 degree

Precision Tolerances

Hirsh can hold tight tolerances, including sub $\pm 0.001"$ tolerances, per drawing specifications and GD&T callouts. Anything below ± 0.001 requires review prior to quoting.

Shaft Diameters (for lathe parts)

$\pm 0.00016"$ (± 0.004 mm) for metals, PEEK, and ULTEM

$\pm 0.002"$ (± 0.05 mm) for other plastics

Materials

Metals

Aluminum
 Brass
 Bronze
 Copper
 Inconel
 Monel
 Stainless Steel
 Steel
 Titanium

Plastics

ABS Polycarbonate
 Acetal PPSU
 Acrylic PSU
 HDPE PTFE
 Noryl PVC
 Nylon PVDF
 PCTFE UHMW
 PEEK Ultem
 PET

Vendor Network Capabilities

Fabrication: welding, injection molding, castings, engraving, sheets, plates, tubes, rods, pipes, 3D printing

Post-Machining Processes: coating, anodizing, passivating, etching, honing, plating, powder coating, grinding, tempering, annealing, carburizing, brazing, cutting, polishing, heat treating, laser welding, cutting, engraving, and marking

Get in Touch

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