

Waterjet Cutting

We are your waterjet cutting specialist. Our equipment is industry leading, and maintained for maximum throughput and optimal tolerance control. Water jets are highly effective 2D shape cutting tools for nearly any material. Waterjets do well with materials that lasers and plasma cutters just can't cut. We cut Aluminum, Brass & Bronze, Copper, Carbon Fiber, Exotic Alloys, Fiberglass, Foam, Glass, Granite, Graphite, Hardened Steel, Marble, Mild Steel, Phenolic, Plastic, Rubber, Stainless Steel, Titanium and Wood to name a few.

- Cutting thickness capability of 8" or more
- Cutting envelope of 80" x 168"
- Material handling of 10,000 lbs
- Zero taper parts with tolerances of +/- .002"
- Quantities from 1 to 10,000 or more

Design

We offer engineering and graphic design services. We can help with:

- 3D CAD Modeling and Rendering
- Product and Machine Design
- Sheet Metal Flat Pattern Development
- Raster to Vector Conversion

Metals Fabrication

We have in house fabrication capabilities for most materials. We are experienced fabricators of Stainless Steel, Aluminum, Copper-Nickel Alloy, Structural Steel and more. We also have partners in industry to round out our offerings. Look to AyersTech for:

- Metal Braking and Rolling
- TIG, MIG and Spot Welding
- Laser and Plasma Cutting

Machining

With our in-house capabilities coupled with our industry partners, we can offer value added secondary operations with CNC and manual machining of most materials. We offer 3 axis CNC milling, drilling & tapping, engraving, serializing and turning.

Finishing

We work with dozens of vendors so that we can take your project to finish, if needed. We have great resources for powder coating, deburring, media blasting, electropolishing, anodizing, plating and much more.

WATERJET EQUIPMENT

2010 OMAX 80X

- 80" x 168" XY table, 7" Z height
- Tilt-A-Jet – Taper compensation
- 40 HP direct drive, 55,000 psi pump
- Dual cutting head capable

2007 OMAX FABRICATOR

- 80" x 168" XY table size 8" Z height
- Tilt-A-Jet – Taper compensation
- 40 HP direct drive, 55,000 psi pump
- Precision Optical Locator
- Terrain Follower – Z height following

2000 FLOW IFB

- 50" x 100" XY table size with 8" Z height
- 50 HP Intensifier, 55,000 psi pump

FACILITIES AND IN-HOUSE SUPPORT EQUIPMENT

MATERIAL HANDLING

- Bridge Crane – 10,000 lb
- Plate Lifts – to 10,000 lb
- Magnet lifts:
220 lb – 4,400 lb
- Vacuum lifts:
450 lb – 1,500 lb
- Fork Trucks – to 6,000 lb

SOFTWARE

- OMAX and Flow Applications
- SolidWorks – Latest Revision
- AutoCAD – Latest Revision
- BobCAD-CAM – V23
- Vector Magic
- Adobe Software Design Suite

FABRICATION

- Press Brake – 25 ton x 48"
- Apron Brake – 14 ga x 120"
- MIG Welder – 450 amp
- TIG Welder – 450 amp
- Plasma Torch – 80 amp

MACHINING

- CNC Knee Mill – 10" x 50"
- Engine Lathe – 18" x 60"
- Tapping Station
- Drill Presses

FACILITY

- 7,000 sf with 25' ceiling
- Shop air, 55 CFM, Dry

