ASHLAND TECHNOLOGIES, INC.

CNC Machining | Fabrication | Welding | Design Engineering

Capability Summary

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☎ 570-682-0933
🌐 www.ash-tec.com

CNC Machining

- **CNC Integrated Turning/Milling**
  Size Range: 1/4"-2.5" dia. thru, 10" chuck
- **CNC Vertical Milling with CNC Rotary Tables**
  Size Range: 64" x 32"
- **CNC Horizontal Milling with Pallet Changers**
  Size Range: 20" x 20"
- **CNC Turning with Bar Feeders**
  Size Range: 3" dia thru, 16" dia x 30"L chuck
- **CNC Automated Precision Sawing**
- **Automated Robotic Loading/Unloading System**
- **Manual Turning**
  Size Range: 30"diameter x 60" Long
- **Manual Milling**
  Size Range: 60" x 120"
- **Material Types:** Stainless Steel, Carbon Steel, Aluminum, Brass, Bronze, Plastics, and some Specialty Materials

Fabrication

- **Laser Cutting**
  4000-Watt Fiber Laser (5' x 10' table) w/ Fully Automated Load/Unload System
  Materials and Thickness Capabilities
    Mild Steel (Up to 1")
    Stainless Steel (Up to 1/2")
    Aluminum (Up to 1/2")
- **CNC Press Brake** (Up to 250 ton x 12')
- **CNC Tube Plasma** (12" x 3/4" wall)
- **CNC Plasma Cutting** (5' x 10' x 1-1/4" max)
- **CNC Flame Cutting** (5' x 10' x 2" max)
- **CNC Shearing** (1/4" x 10')
- **CNC Pipe Rolling** (5.5" x 0.120" Tube, 4" Sch. 40 pipe)
- **CNC Angle Rolling** (4" x 4" x 1/2" Angle)
- **Pipe Bending** (Up to 2" Pipe)
- **Automated Precision Sawing**

Welding

- **Robotic Welding System**
  120" x 60" dual table with Integrated Rotary Positioners and Multiple Auxiliary Axes
- **24 Welding Machines -** MIG, TIG, SMAW
- **Certified Welding -** Comply with all applicable Domestic and International welding codes for structural fabrication.

Design Engineering

- **Concept to Full Production**
- **2D/3D Modeling Design -** SolidWorks, SolidCAM, Autodesk
- **Full Integration of Mechanical Components -** Motors, Electronics, Circuit Boards, Controls
- **Project Consultation & Management**
- **"Design-For-Manufacturing" Engineering Review**
- **3D Scanning and Reverse Engineering Available**

3D Printing

- **Printer Properties**
  - **Process** Fused Filament Fabrication, Continuous Filament Fabrication
  - **Build Volume** 330 x 270 x 200 mm (13 x 10.6 x 7.9 in)
  - **Print Bed** Kinematic coupling — flat to within 80 μm
  - **Laser** In-process inspection, active print calibration, bed leveling
  - **Extrusion System** Second-generation extruder, out-of-plastic and out-of-fiber detection
- **Materials**
  - **Plastics Available** Onyx, Onyx FR, Onyx ESD, Nylon White
  - **Fibers Available** Carbon fiber, fiberglass, Kevlar®, HSHT fiberglass
  - **Tensile Strength** 800 MPa (25.8x ABS, 2.6x 6061-T6 Aluminum
  - **Tensile Modulus** 60 GPa (26.9x ABS, 0.87x 6061-T6 Aluminum)
- **Part Properties**
  - **Layer Height** 100 μm default, 50 μm minimum, 250 μm maximum
  - **Infill** Closed cell infill: multiple geometries available

Finishing

- **Powder Coating** (25'L x 12'H x 10'W)
- **Sandblasting** (25'L x 12'H x 10'W)
- **Wet Spray Systems** (25'L x 12'H x 10'W)
- **Finishing (Consortium)**
  - Electropolish
  - Anodize
  - Heat Treating
  - Grinding
  - All Plating Types

With over 25 years of experience in the manufacturing industry, Ashland Technologies, Inc. has created a one stop shop model that is uniquely positioned to service the needs of many industries.

Offering multiple services all in house, our team can turn any idea into a finished product. We are one of the few companies that can oversee an entire project from prototype to production!

Assembly & Fullfilment

- **40,000sf Dedicated Assembly/Testing Facility**
- **Complete Fulfillment Logistics to End Users**
  - Direct Drop Shipment
  - Warehousing & Inventory Management
  - Customer Supplied Instructions/Manuals
  - Arranging Transportation Services
- **Scope of Assembly Services**
  - Electrical Wiring
  - Circuit Board Integration
  - Motors and Drives Install and Testing
  - Software Integration and Testing
  - UL Certification (3rd Party) Available
  - Hydraulic/Pneumatic Integration
  - Hardware Kits
  - Graphics Dev/Printing/Application
  - Lighting installation and testing
- **Custom Packaging Solutions**
  - Standard Packaging & Crating
  - Custom Retail Style Packaging
  - Unique Custom Labeling
  - UPC/Barcode labeling

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