

manufacturing capabilities



1. CNC Fiber Laser Cutting Machine

- Will cut up to 5' x 10' sheets of material
- **Will cut mild steel** (up to .1875" thick with nitrogen or 1" thick with oxygen), **stainless steel** (up to .375" thick), **copper** (up to .1875" thick), and **brass** (up to .250" thick)
- **Capabilities to laser etch** with air or nitrogen
- Capabilities to cut vinyl coated or non-coated material
- Capabilities to etch vinyl for cutout areas

2. Two 20-Ton Turret Punch Presses

- Will cut up to 4' x 4' sheets of material
- **Will cut mild steel** (up to .078" thick), **stainless steel** (up to .075" thick), **aluminum** (up to .250" thick), and **polycarbonate** (up to .125" thick)
- Can add form features in with punches such as louvers, dimples, and etc.

3. CNC Press Brakes

- Will form up to 10' long with a thickness of .075"
- **Ability to form mild steel, stainless steel, aluminum, copper, and polycarbonate**
- **Can do a wide variety of angles and radii**

4. Deburring

- Can deburr/finish utilizing pedestal grinder, belt sander, dynafile, and re-graining wheel

5. GTAW (Tig Welding)

- Can weld mild steel, stainless steel, and aluminum

6. RSW (Resistance Spot Welding)

- Can weld mild steel, stainless steel, and galvanized steel

7. CD Studding (Capacitor Discharge Welding)

- Can weld mild steel, stainless steel, and galvanized steel

8. PEM Press

- **Can press in PEM studs of various types and into various materials**

9. Horizontal Saw

- Can cut up to 9" in diameter and cut various materials with coolant or dry cutting

10. Media Burnishing

- Can deburr light burrs and improve surface finish on stainless steel and aluminum

11. Sand Blasting

- Can sand blast using glass bead media
- Can sand blast up to 24" long x 12" wide parts

12. Four CNC Vertical Machining Mills

- **Can cut steel, stainless steel, aluminum, plastics, and other non-ferrous materials**
- Our largest machine is a Haas VF4 that has a table in the "X" axis of 50", "Y" axis of 20", and "Z" axis of 25" (less clearance when tool is added)
- Can cut parts with coolant or dry

13. Horizontal Machining Mills

- **Can cut steel, stainless steel, aluminum, plastics, and other non-ferrous materials**
- Can use as a secondary operation to cut multiple slots into parts with a single pass utilizing a milling arbor

14. Production "Gang" Drill Presses

- **Can do secondary operations such as drilling and tapping**
- Can cut parts with coolant or dry
- **Can cut steel, stainless steel, aluminum, plastics, and other non-ferrous materials**

15. Vertical Machining Mill

- Can cut steel, stainless steel, aluminum, plastics, and other non-ferrous materials
- Can cut parts with coolant or dry
- Table travel in the "X" axis of 36", "Y" axis of 12", and "Z" axis clearance of 16" (will vary with tool length)

16. Turret Lathe

- **Can cut steel, stainless steel, aluminum, plastics, and other non-ferrous materials**
- Can cut parts with coolant or dry
- Swing 15.375", bar capacity 1.5", and distance between centers 24"

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