



Current Services and Capabilities

12/17/2017

Profile Cutting

Laser: Bystronic 4400 Watt 5x10 Bed

- Can Cut:
 - 1 Inch Steel
 - 0.5 Inch Aluminum
 - 3/8 Inch Stainless

Combo Punch Laser: Strippit 2000 Watt

- 22 Ton Punch
- 36 Station Turret

Punch Press: Nisshinbo Hydraulic

- 16 Station Turret Press
- 30 Ton

Shear

Cold Saw Cutting

Machining

Double Column Machining Center: Toyoda SB316

- Advanced FANUC 31i controller with RENISSHAW RMP-60 PROBE
- Five Face Machining vertical and horizontal reach
- Large Envelope Travel: X-120" Y-90.5" Z-31.5"
- Milling, drilling, contours, keyways, porting, threading, deep hole boring
- Extremely tight tolerancing
- One of the most advanced machines on the market

Vertical 4 Axis Machining Center: Sharnoa SD900

Automatic Bar Feed Lathe: Johnford 5 Axis Lathe

- Renishaw Probe System for extremely tight tolerances
- Live tooling

Automatic Bar Feed Lathe: Amara-Seiki CNC

- Live tooling

Forming

Press Brake: Piranha CNC 250 ton

- 12 foot bed length
- 8 inch stroke

CNC Brake Press: Bettenbender 50 ton & Amada 100 ton

12 Foot Press Brake: Wysong CNC 175 ton

Stamping

- 200 ton punch press with Coil feed capabilities
- 250 ton punch press
- 125 ton punch press
- Roselle 40 & 60 ton punch presses

In-House Tool & Die Expert

- Can custom design tools

Welding

Robot Welder

- FANUC ArcMate 120iB - 10L with FANUC RJ3iB controller
- Touch Sensing Capability
- Seam tracking

Pulse & Spot Welding

GMAW, TIG & MIG

Large Range of Material

- Aluminum, stainless steel, carbon steel, galvanized
- Sheet metal to unlimited thickness

Specifications & Certifications

- Follow all weld code books that apply
- In-House Certified Weld Inspector through American Welding Society
- All welders certified to materials and specific weld job
- Qualify welds through testing

Painting

- Powder Coat Paint Line capable of Wet Spray and Electrostatic
- 23 foot (7 meters) heated dry off oven
- 64 foot (19.5 meters) prime and top coat booth with down draft ventilation
- 180 foot (54.9 meters) bake oven capable of 480°F/249°C
- 70 foot (21.3 meters) 6-stage pressure washer
- 670 foot (204.2 meters) conveyor with variable speeds from 0-26 feet per minute (0-8 meters per minute)
- Individual or bulk part processing
- Masking/Plugging per drawing specifications
- Blasting Phosphate (nano-ceramic TT-C-490 Type IV) Painting
- Testing: MEK cure, Mil thickness (dry and wet) adhesion (100 square etc) salt spray, gloss and chemical resistant

Quality

ISO 9001:2015

- First company in Southeast Iowa
- No corrective actions in 12 years
- Certified Auditor in-house

Government Contracts

- Specialize in government contracts that are paperwork intensive and require traceability

Inspection:

- HandyPROBE Optical portable CMM
- DEA Gamma gantry CMM