



FABRICATION EQUIPMENT LIST AND CAPABILITIES

Updated 8/23

Tube & Structural Processing

1- Mazak FabriGear 220 Fiber 4000 watt; ¾" thru 6" square, 8^{5/8}" round outside dimensions, lengths up to 26 ft.

CAPACITY:

- Material types include:
 - Tube, pipe, square, round, c-channel and angle
 - Mild steel: 1/2" wall
 - Stainless steel: 3/8" wall
 - 6 axis head for bevel and weld prep
 - 6 station automatic tapping up to ½-13 or M12
 - Automatic load and unload
- 1- Hydraulic tube bender up to 2-1/2" O.D.
1- Dual belt tube polisher up to 3-1/2" O.D.

Laser Cutting

1- Mitsubishi Fiber 6000 watt: 60" x 120" bed with automation tower

CAPACITY:

- Mild steel to 1" thick
- Aluminum to 1/2" thick
- Stainless to 5/8" thick with nitrogen clean cut

Plate Cutting

1- OMax 80X 60,000 PSI, 72" x 144" bed

CAPACITY:

- Up to 8" thick material

Rolling

- 1- Davi Max 3022
1- 3" diameter roller; capacity 16ga. x 50"
1- 6" diameter roller; capacity 1/4" thick x 2' long

Forming

- 4- Hydraulic press brakes with European style precision tooling, hydraulic clamping, CNC controlled w/3D capability; 5-axis back gauge; auto crowning
- 320-ton Bystronic Xpert x 13.4 ft; 29" of open height; dynamic sheet supports to assist lifting for large sheet and plate parts
 - 220-ton x 14' w/2' horn for conical forming
 - 150-ton Bystronic Xpert x 10.2 ft
 - 320-ton Bystronic Xpert x 14 ft x 33" open height
- 1- Electric Press Brake; Coastone C15 48 ton x 63"; 5-axis back gauge

Secondary Operations

- 2- Variable speed drill press
2- Bridgeport mill 24" x 12" x 8"
- 1- Marvel 380A-PC60 fully automatic vertical tilt-frame band saw with programmable NC control; Capacity: 15" x 20"
- 1- Marvel model S2GVP Spartan vertical band saw w/power feed
- 1- Flex Arm tapping station

Automated Welding

- 1- Orbimat 165 orbital welder ¼" thru 3" outside dimension
- 1- Weldine Automation seam welder 48" welding length, material thickness up to 7ga.
- 1- Steel Max straight line MIG welding automation

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Welding

- 5- IP6 Lightweld 1500
- 12- Miller Max Star 400
- 6- Miller Dynasty 400
- 5- Miller Syncrowave 350LX amp TIG welders
- 11- Miller 350P amp MIG pulse machines
- 4- Fronius Synergic Pulse Multi Control (PCM) Mig
- 2- Pro-weld stud welder
- 2- Stanco 30 KVA spot welders with Entron controls
- 1- Acme 50 KVA spot welding machine
- 40- Weld tables up to 6' x 18'

Stainless Steel Finishing/Polishing

- 12- Independent dust-controlled grinding & polishing booths, complete with dedicated pneumatic tools to provide polish up to #8 mirror finish
- 1- 25' x 40' glass bead room with dual automated reclaim system – virgin bead for stainless steel
- 1- Uni-hone glass bead unit
- 3- Apex 52" wide-belt sander
- 1- Ramco 36" wide-belt sander
- 1- Kuhlmeier 8' ZBS twin-belt: stroke polisher
- 1- 8' stroke polisher
- 1- Hammond Roto-finish, 7 cubic foot tumbler
- 3- Walter Surfox 202 Chem-Clean unit
- 1-Doucet Dual Belt 48"x 144" stroke sander

Material Handling

Automated material handling for tanks and cylindrical weldments up to 4000 LBS capacity

Cranes

- 60' x 250' High Bay with (2) 5Ton Bridge Cranes with (1) 5Ton hoist
- (1) 10Ton Bridge Crane with (2) 5Ton hoists & remote pendant
- (6) 2Ton Bridge Cranes with multiple 1 Ton hoists
- (5) 1Ton Bridge Cranes with multiple 1/2Ton hoists
- (3) 1/2Ton Monorails with multiple 1/2Ton hoists

Mechanical Assembly

A wide range of value-added services are available including:

- Kitting Services- the gathering of components and parts needed for the manufacture of a particular assembly or product, when used in a lean manufacturing environment, can reduce material handling and processing times and improve line side assembly.
- Subassembly
- Inventory Management

Inspection

Calipers
Pin Gauges
Thread Plug
Height Gauges
Keyence WM-Series Wide-Area CMM

Programming

ECI M1
SolidWorks
Driveworks
Solid Edge
Autodesk Inventor
Bystronics Bysoft
Sigmatek Sigmanest & Sigmatube



ACE METAL CRAFTS
c o m p a n y

MACHINING EQUIPMENT LIST AND CAPABILITIES

Mills

Lathes

- 1- DMG Mori NH4000 DCG CNC Horizontal Mill
22" x 22" x 24.8"
- 3- DMG Mori Dura Vertical 5100 CNC Vertical Mill
40" x 20" x 20"
- 1- Okuma GENOS M560-V CNC Vertical Mill
41" x 21" x 19"
- 1- Haas VF9-40 CNC Vertical Mill
84" x 40" x 30"
- 1- Mazak VTC 300 CNC Vertical Mill
66" x 30" x 26"
- 1- Mazak VCN 570 CNC Vertical Mill
41" x 20" x 23"
- 1- Mazak VCN 510 CNC Vertical Mill
41" x 20" x 23"
- 1- Okuma MILLAC 65V CNC Vertical Mill
78" x 25" x 22"
- 1- Okuma MILLAC 5VA CNC Vertical Mill
41" x 25" x 22"

- 1- DMG Mori ALX2000 CNC Lathe with Robotic Loading
10.2" x 3.9" x 81.7"
- 1- DMG Mori ALX2500 CNC Lathe with Robotic Loading and Bar Feeder System
10.2" x 3.9" x 81.7"
- 1- Mazak Quick Turn M350 MY CNC Lathe
15"-16.5" x 6" x 57"
- 1- Mazak Quick Turn 250 MY CNC Lathe
12" x 6" x 36"
- 1- Mazak Quick Turn Nexus 250 MSY-II CNC Lathe
12"-14" x 6" x 18"
- 1- Mazak Quick Turn 250 MY 60" CNC Lathe
12"-14" x 6" x 57"
- 2- Mazak Quick Turn 250 MY 40" CNC Lathe
9" x 4" x 43.13"
- 1- Mazak Quick Turn 250 II 20" CNC Lathe
8.75" No Y Axis x 20.25"
- 1- Mazak Quick Turn 100 CNC Lathe
7" No Y Axis x 6"

	Work Envelope
Lathe Work	Up to 16" Diameter 57" Working Length
Milling Work	Max length part 84" Max ~84" x 40" bed size
Material Capabilities	300 Series (303, 304, and 316) and 400 Series Stainless Steel 17-4 PH in A condition and 17-4 Heat Treated Aluminum 6061 with optional Anodizing Carbon steel Titanium
Volume Product Mix	Small and Medium runs with options for Blanket Orders
Other Capabilities	Welding, Polishing, Assembly, Plating

Updated 02/24