



ACE METAL CRAFTS company

WHERE YOUR DESIGNS TAKE SHAPE

EQUIPMENT AND CAPABILITY LIST

Updated 6/17

Tube & Pipe Processing

1 - Mazak FabriGear 150 4000 watt; 3/4" thru 6" outside dimension, 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 1/2-13 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

2 - Mazak Hyper Turbo-X 4000 watt; 60" x 120" bed with FMS automation tower

CAPACITY:

- Mild steel to 5/8" thick
- Aluminum to 3/16" thick
- Stainless to 1/2" thick with nitrogen clean cut

Plate Cutting

1 - Flow Mach – 3 – Dynamic Cutting Head 60,000 PSI, 72" x 144" bed

CAPACITY:

- Up to 8" thick material

Forming

- 3 - Hydraulic press brakes with European style precision tooling, hydraulic clamping, CNC controlled w/3D capability; 5-axis back gauge; auto crowning
 - 350-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
- 1 - Electric Press Brake; Coastone C15 48 ton x 63"; 5-axis back gauge

Rolling

- 1 - Bertsch hydraulic 4-roll NC machine, 6" dia. rolls; capacity - 7ga. x 72"
- 1 - 3" diameter roller; capacity 16ga. x 50"

Secondary Operations

- 2 - Variable speed drill press
- 1 - 6-spindle variable speed drill press
- 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

EQUIPMENT AND CAPABILITY LIST

Welding

- 6 - Miller Syncrowave 350LX amp TIG welders
- 6 - Miller Max Star 200 TIG inverter
- 5 - Lincoln Precision TIG 275 amp
- 1 - Miller Max Star 150 portable TIG inverter welder
- 11 - Miller 350P amp MIG pulse machines
- 1 - Miller Acu-pulse MIG 400 amp
- 3 - Fronius Mig welder
- 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'

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

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
- 2 - Steelmaster wide-belt sander w/digital readout, 53" capacity
- 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
- 2 - Walter Surfox 202 Chem-Clean unit
- 1 - Deburring Machine. Apex 19" automated deburr finishing

Machining

- 1- Mazak VTC 300 3 axis CNC Mill with 48 tool magazine with Renishaw probe
 - 66.35" x 30" x 26"
- 1- Mazak VCN 510 3 axis CNC Mill with 30 tool magazine with Renishaw probe
 - 41.34" x 20" x 23"
- 1- Mazak QTN 250MY CNC Lathe with 12 station live tooling and Y Axis
 - 3.58" dia x 14.75"
- 1- Mazak QTN 250 CNC Lathe with 12 station tooling
 - 3" dia x 15"
- 1- Mazak QTN 100 CNC Lathe with 12 station tooling
 - 2" dia x 12.125"

Material Handling

60' x 250' High Bay with (2) 5 ton and (1) 10 ton gantry cranes

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

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