



ACE METAL CRAFTS
company

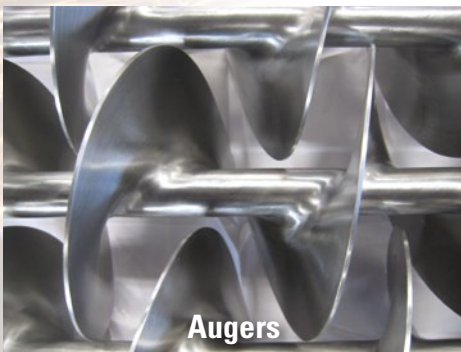
WHERE YOUR DESIGNS TAKE SHAPE

WE KNOW STAINLESS STEEL

ACE METAL CRAFTS COMPANY provides fabrication, machining and value engineering of stainless steel components to industry-leading OEMs in food and pharmaceutical processing, packaging and environmental.

In our modern 82,000 sq. ft. plant we operate as an extension of YOUR manufacturing capabilities, exhibiting our expertise in a wide variety of stainless steel fabrication applications.

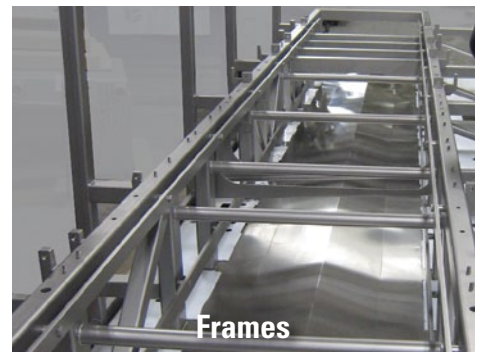
From simple parts, requiring stainless steel laser cutting to the most complex stainless steel fabrications, we apply the same expertise, quality standards and processes to every project.



Augers



Enclosures



Frames



Tanks & Hoppers

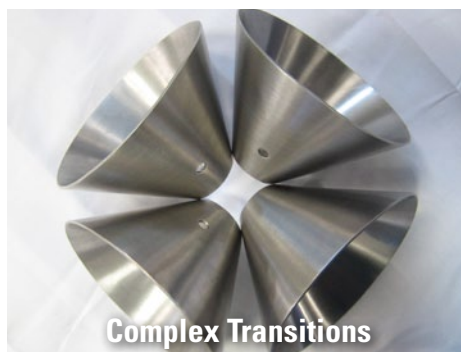
**THESE ARE A SAMPLING
OF THE MANY PROJECTS
WE PRODUCE**



Machining



Small Fabrications



Complex Transitions



Weldments



VALUE ENGINEERING A COLLABORATIVE INVESTMENT IN YOUR SUCCESS.

From production on the shop floor to our team of value stream leaders and engineers - ACE's value engineering and process planning have one goal - to support you.

Our staff of engineers will work together with you to understand what it takes to fabricate your project:

- Our commitment to continuous improvement allows us to always be improving our processes and thinking.
- Our goal is to reduce material and labor costs and improve lead times.
- Collaboration always delivers the best results.

DESIGN FOR MANUFACTURING [DFM] MUST FOCUS ON YOUR PRIORITIES.

Successful DFM must focus on the characteristics of a project that are most important from your point of view:

- We understand and care about your pricing challenges.
- We work to provide the most economical processes - to reduce your total cost of ownership.
- From tolerances to finishing requirements, we consider every aspect of your project.



WHY WORK WITH ACE METAL CRAFTS COMPANY?

We've been delivering exceptional results in stainless steel for nearly 60 years.

In 1960, sixteen sheet metal workers launched ACE METAL CRAFTS COMPANY, **inventing techniques that are now standards in sanitary stainless steel fabrication.**

Today, our in-depth fabrication knowledge resides in our processes and people, many with 30+ years of experience, working alongside the next generation of engineers, welders, finishers/polishers and fabricators to make ACE one of the BEST fabricators of stainless steel components.

EQUIPMENT AND CAPABILITY LIST

Tube & Pipe Processing

1 - Mazak FabriGear 150 4000 watt; ¾" 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 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

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

INVESTING IN TECHNOLOGY FOR GROWTH.

Our M1 ERP platform is win-win: providing outstanding value to customers with greater efficiencies to ACE:

- Accepts XML data transfer, providing a real-time exchange between ACE and our customers' systems.
- Supports fully-integrated nesting software - loads parts for programming, which reduces engineering time.
- Reports accurate, real-time metrics.
- Provides TRUE lead times, promise dates and expediting information with capacity-based job scheduling.
- Enables "Just In Time" sequencing - synching jobs so all parts are completed at the same time

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

THE ACE TEAM EXCELS AT FABRICATING STAINLESS STEEL FOR YOUR INDUSTRY.



FOOD PROCESSING AND PACKAGING

Now, more than ever, the safety of our food supply is of greatest importance. At ACE, our team of engineers, welders and polishers are experts at efficiently producing stainless steel components with a wide variety of hygienic finish requirements, including the exacting 3A Sanitary Standards required for the dairy industry.

ACE has in-depth experience working with the many types of stainless steel, offering a variety of tradeoffs in corrosion resistance, magnetism and machinability. Our team of engineers understand and apply the FDA's many regulations regarding the materials used in all machine surfaces that contact food - as well as the lesser standards for non-contact surfaces.



PHARMACEUTICAL PROCESSING AND PACKAGING

In the pharmaceutical industry, all materials used throughout the production and packaging processes must meet strict industry quality standards and sanitation requirements.

Stainless steel is most commonly used throughout the production process, due to its hygienic properties, corrosion-resistance and easily-cleaned surfaces, whether processing dry powders or liquids.

Whether your application requires highly polished stainless steel in product contact processes or you're looking to provide enhanced aesthetics for non-sanitary processes after capping, the ACE team is committed to helping improve your design for manufacturing, ensuring your products realize the beneficial properties of stainless steel components that offer ease of maintenance for cleaning, sanitizing and resistance to corrosion.

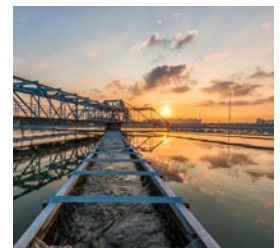


ENVIRONMENTAL

Stainless steel has become the standard material of construction for many environmental applications, including municipal waste water treatment and management.

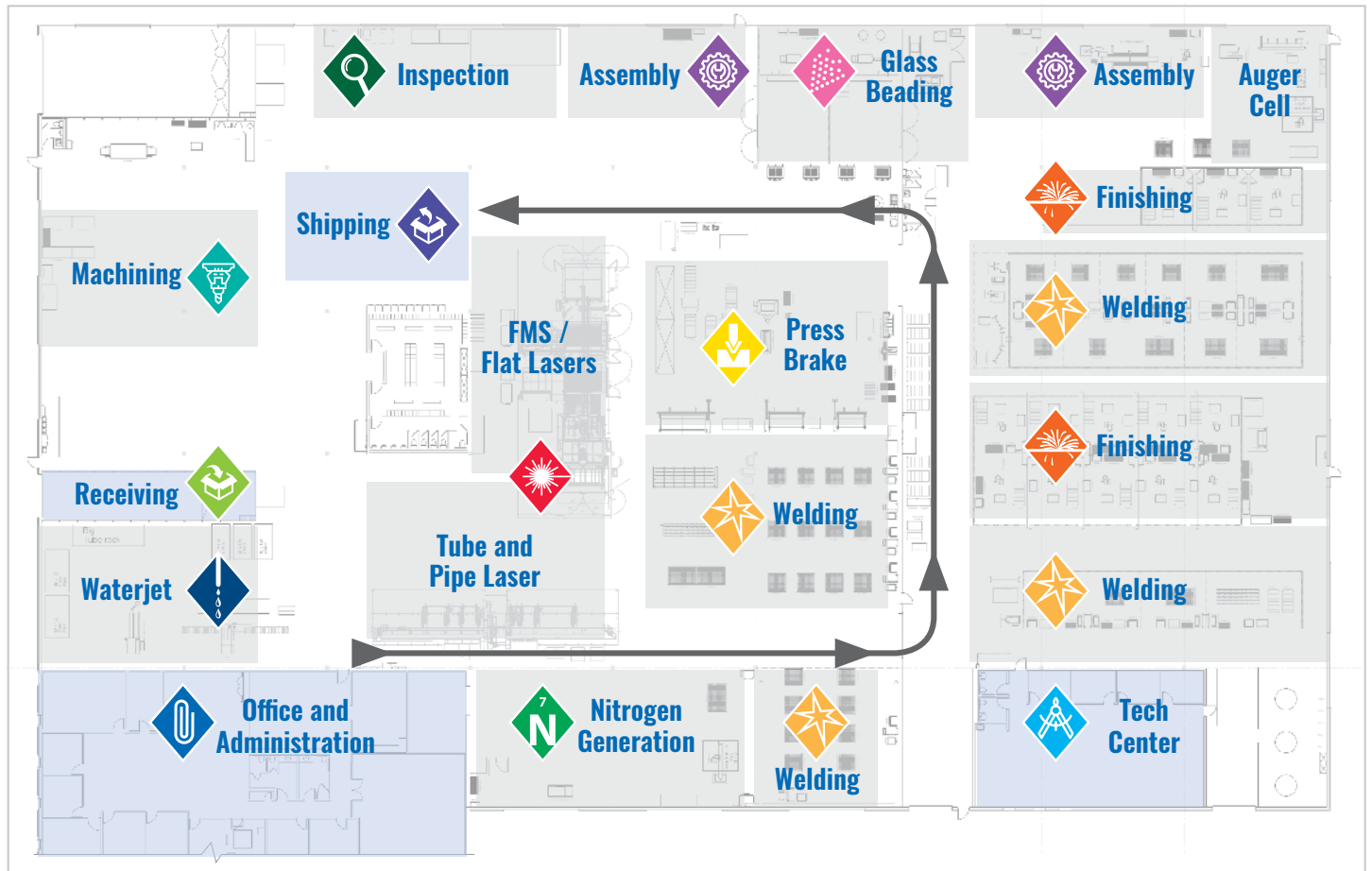
Stainless steel piping is used for aeration, transfer, and gas disposal and in the construction of grates, valves, tanks, screens and other equipment provides a much more durable and longer lasting solution when compared to galvanized or painted carbon steel.

Stainless steel's versatility as a high-strength, durable material which provides ease in forming and welding is of great benefit during equipment assembly, installation, maintenance and repair.



SEEING IS BELIEVING.

Our plant is designed and built to deliver the best possible outcomes: quality product on time and on budget.



TOTAL FLOOR SPACE

82,715 square feet

Optimal set-up of equipment as jobs flow, from receiving raw materials to laser cutting, to forming, to welding, to finishing, and finally to shipping, which can translate into shorter lead times and faster delivery.

CLEAR HEIGHT

18-28 feet

OFFICE & ADMINISTRATION

Production support spaces are designed for greater efficiency.

SHIPPING AND RECEIVING

Three internal loading docks.

10-ton crane high bay capacity.

Can take raw materials from receiving directly to the machinery for processing – can move stainless sheets from the receiving dock directly to the automated material handling of the flat laser, which can result in shorter set-up time.

TECH CENTER

Purchasing and Engineering are close to the shop floor area.

Collaboration between Engineering and Production.

FMS/FLAT LASERS

Two Mazak flat lasers cut material up to 1/2"; clean-cut stainless to tolerances of +/- .005" to ensure repeatability. Lasers are directly linked to production CAD systems to provide a seamless flow, from design to production.

GLASS BEADING

Finishing area can be used either as two separate smaller rooms or as a single room that can handle larger parts. Blasting area is strategically located to ensure minimal travel time between processes.

NITROGEN GENERATION

Pressure Swing Absorption (PSA) Nitrogen Generating System.

Self-sufficient for generating nitrogen, which is very important to laser cutting of stainless steel.

Supports three lasers.

PRESS BRAKE

Three-dimensional geometry to exacting specifications. With Windows®-based 3-D software and controllers for exceptional flexibility and accuracy. Capacity from 40 to 350 tons.

TUBE AND PIPE LASER

Complex structural designs and frames require one operation and one set-up, with integrated tapping tools.

Handles up to 6" round or square pipe in shapes such as I-beam, L-shaped, C-shaped, angles and custom shapes; up to 1/2" mild steel and 3/8" stainless steel; up to 26' long stainless steel, aluminum or mild steel.

Automatically loads, feeds, laser cuts and unloads parts.

WELDING AND FINISHING

MIG, TIG, Pulse MIG, orbital, seam and spot welding stations.

MACHINING

Mazak technology helps deliver more lean value!

CNC vertical mill with 30 tool magazine, plus CNC lathe with 12 station live tooling.

Ace offers the latest machining services – with live tooling to reduce set-up and shorten project lead time.

WE KNOW STAINLESS STEEL

Technology and training can only get you so far. To excel you need a team of people with the manufacturing skills and experience, combined with the desire to walk and talk our team values on a daily basis. ACE's commitment to our conscious culture - **growing as individuals - winning as a team** - serves to benefit our customers by unleashing everyone's potential.

