

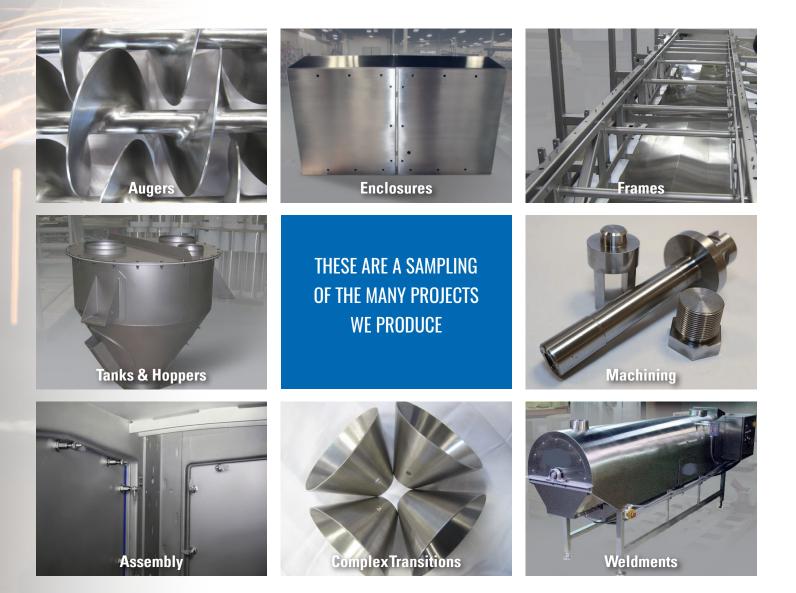
## **STAINLESS STEEL FABRICATION & MACHINING**

# **WE KNOW STAINLESS STEEL**

ACE METAL CRAFTS COMPANY provides fabrication, machining and value engineering of stainless steel components to industryleading 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.





## 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 MANUFACTURABILITY MUST FOCUS ONYOUR PRIORITIES.**

Successful Design for Manufacturability 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 & Structural Processing**

1- Mazak FabriGear 220 Fiber 4000 watt; <sup>3</sup>/<sub>4</sub>" thru
6" square, 8<sup>5</sup>/<sub>8</sub>" 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 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

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
- 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 tiltframe 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

# **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

- 5- IP6 Lightweld 1500
- 12 Miller Max Star 400
- 6- Miller Dynasty 400
- 5- Miller Syncrowave 350LX ampTIG 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- Kuhlmeyer 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) 2 Ton Bridge Cranes with multiple 1 Ton hoists
- (5) 1 Ton Bridge Cranes with multiple 1/2 Ton hoists
- (3) 1/2 Ton Monorails with multiple 1/2 Ton hoists

## **Mechanical Assembly**

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

- Kitting Services the gathering of components and parts needed for the manufact ure 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

# 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 it's hygienic properties, corrosion-resistance and easilycleaned 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.

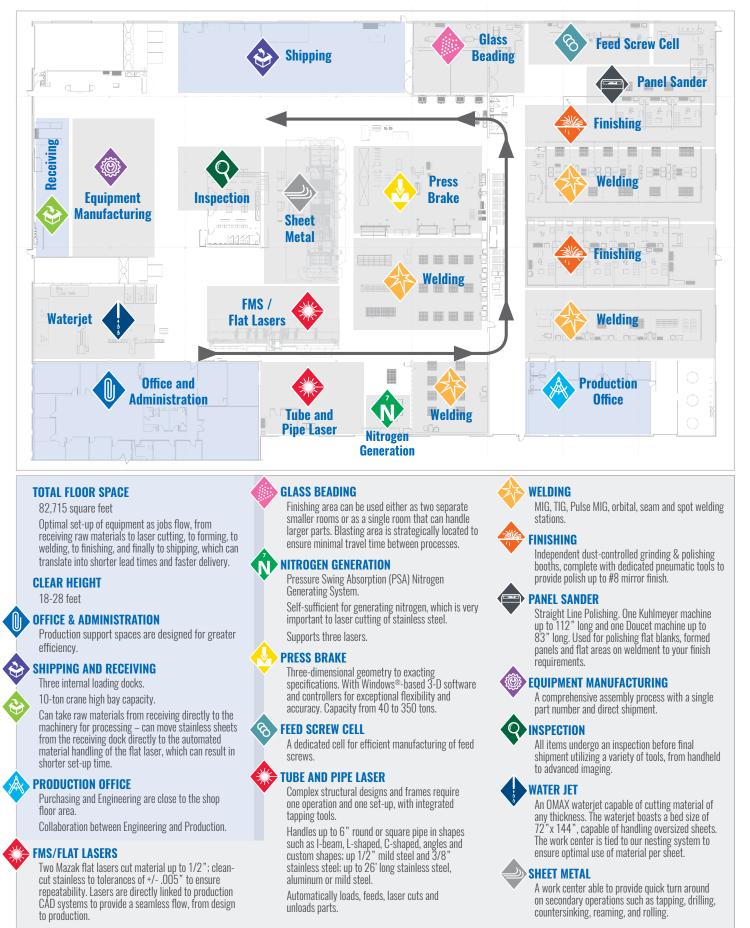
Stainless steel piping is used for aeration, transfer, and gas disposal and in the construction of grates, valves, tanks, screens and other equipment provides a much more durable and longer lasting solution when compared to galvanized or painted carbon steel.

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.



## 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.



