

**Diverse Fabricator  
Specializing In High-Temperature  
and Corrosion-Resistant Alloys**



440.243.6800 • [alloyengineering.com](http://alloyengineering.com)



# Superior Fabrications for Custom

Alloy Engineering is a diverse fabricator specializing in high-temperature and corrosion-resistant alloys. Our high quality fabrications provide the performance and reliability our customers require for their precise specifications. New Equipment or Aftermarket Repair – we provide you with the best solution for every project.

## Aftermarket

We can replace and improve your OEM equipment. Our aftermarket services include:

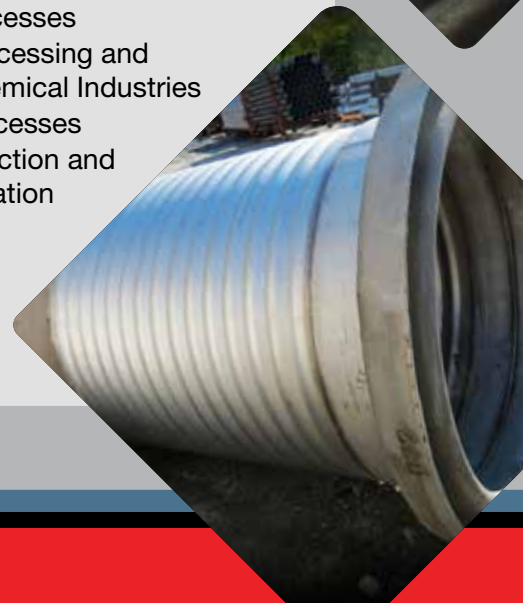
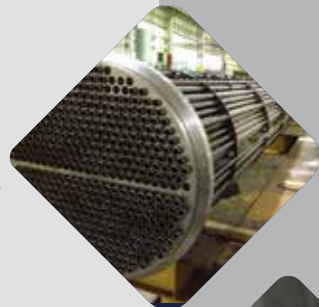
- Muffle Replacement/Repair and Design Improvements
- Retort Repairs/Replacements
- Fan rebuilds/repairs/rebalancing
- Air Cooled Heat Exchanger Rebundling/Retubing
- Shell & Tube Replacement Bundles/Channel Resurfacing
- Pressure Vessel Repair – R-Stamp work
- Blasting and Painting Services
- Non-Destructive Testing
- Project Management
- Recuperator Tube Bundle Repair and Optimization

## Products

- Furnace Muffles
- High-Temperature Fans
- Pickling Hooks
- Power Generation Products
- Radiant Tubes
- Recuperator Tube Bundles
- Rotary Retorts
- Rolled and Welded Cylinders
- ASME Heat Exchangers
- ASME Pressure Vessels
- Batch Annealing Equipment
- Catalyst Baskets
- Cladding and Machining
- CO and SCR Catalyst Walls

## Industries

- Catalytic Processes
- Chemical Processing and Specialty Chemical Industries
- Industrial Processes
- Energy Production and Power Generation Industries
- Primary Metals
- Heat Treating Industries





# mers and Industries of All Types

## Alloy Engineering

- Extensive experience in all stainless and high nickel alloys
- Custom fabrications
- Welded to ASME/AWS procedures
- Testing to verify quality including dye-penetrant, pressure testing, x-ray and UT.
- Our ASME-CE's will provide recommendations for longer product life

## Quality & Certifications

- ASME Section I S-Stamp
- ASME Section VIII, Div. I U-Stamp
- NBIC R-Stamp
- AWS-CWI and AWS-SCWI Welding Inspectors
- Level II & ASNT TC-1A Certified NDE Inspectors
- In-House Visual, He Leak Test, PT, MT, PMI, and Phased Array UT
- RT, UT, Ferrite by Certified Vendors
- Fan Vibration Testing, Balancing & Shaft Run-out

## Engineering & Design

- PV Elite (ASME Code Calculations)
- Finite Element Analysis (FEA)
- Fan Design
- Solidworks 3D
- HTRI for Thermally Rating Heat Exchangers

## Welding

- Welders Qualified to ASME Section IX & AWS D1.1
- SAW
- GTAW
- GMAW
- FCAW
- PAW
- Manipulators
- Robotic Manipulator-SAW, GMAW
- Strip Cladding Weld Overlays



## Fabrication & Prep

- Forming & Corrugation Tooling
- Edge Prep Beveler
- Plasma Table
- Ironworker Hole Puncher
- Bentech 15T Tube/Pipe/Rod Bender
- Shear - 10' Capacity
- Press Brakes to 1,000T/24' Bed/180" Throat
- Plate Rolls - 10 ft. Width/ 1" Thickness (Larger Capacity Available)
- Fan Balancing Machine
- Fan Vibration Testing & Analysis
- Blasting & Painting In-House to Specification



## Machining

- CNC Horizontal Boring Mill 168" Capacity
- Large Turning 84" Ø x 37' OAL
- CNC Lathe 80" Ø x 14' OAL
- Vertical Turning Lathes up to 110" Capacity x 66" H
- Milling Machines, Drill Presses, Grinders
- Saws
- Pipe End Machining

## Lifting Capacity

- 50,000 LBS in House
- 20' Under Hook
- 20' Shipping Doors



**Alloy Engineering Company**  
**844 Thacker Street**  
**Berea, OH 44017**



**Alloy Engineering is a Diverse Fabricator Specializing  
in High-Temperature and Corrosion-Resistant Alloys**

- Product Engineering & Fabrication
- Process Mechanical & Thermal Engineering
- Outstanding Workmanship

**Process Uptime at the Lowest Cost Per Hour**



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