









Superior Fabrications for Custo

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









Represented by:

Prolific Heating International Co., Ltd

11/11 Moo 11, Soi Kingkaew 37, Rachatheva, Bangplee, Samutprakarn, Thailand - 10540

Phone : +66 2170 8171

email : prolific@phiheating.com

supportsales@phiheating.com

Website : www.phiheating.com

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

