



FABRICATION SERVICES

Precision Sheet Metal and Welding Subcontracting Solutions

Re:Build Optimization was founded with a deep passion for manufacturing and a commitment to delivering tailored solutions for industrial clients. Whether you need simple upgrades, maintenance, or comprehensive turnkey solutions, we offer expertise in mechanical and process engineering, automation and systems integration, skilled trades fabrication, and maintenance services across various industries.





Sheet Metal Services

- Materials - Carbon Steel, Aluminum, Plastics, Stainless, Mesh, Extruded Aluminum Structures
- Citric Acid Passivation
- Fabrication (Brackets, Guarding, etc.)
 - Precision and non-precision
 - Custom-built to client specifications
 - Field design, measurement, and build
 - Prototype, production, and repair
 - Low and high volume quantities
 - Installation services
 - On-site repairs
- Machine Safety Guarding
 - Assessments, design, fabrication, and install per OSHA guidelines
- Custom Ductwork - Build to Specification, Field Measure, or Build
 - Supply and exhaust duct (low to high pressure, room air, and chemical exhaust)
 - Chutes
 - Exhaust hoods
 - Hoppers
 - Duct fittings
 - Miscellaneous general widgets
 - Installation services
 - On-site repairs

Welding Services

- Materials - Carbon Steel, Aluminum, Stainless Steel, Cast Iron
- Exotic Metals - Monel, Titanium, AL6XN, Hastelloy
- Certified AMSE Welding Processes for Gas Metal Arc, Gas Tungsten Arc, Stick, Wire Feed
- Prototype, Production, and Repair
- Low- and High-Volume Quantities
- Pressure Vessels
- Process Pipe Welding with X-Ray Verification
- Sanitary Process Piping
- Vessel - Fabrication (U Stamp Cert.) and Repair (R Stamp Cert.)
- Plastic Welding - Fabrication and Repair
- Silver Soldering Processes
- Tool Welding Repair (Most Metals)

INDUSTRIES SERVED:

- Hydrogen & Alternative Fuels
- Specialty Chemicals
- Decarbonization Technologies
- Food & Beverage
- Web Handling
- Healthcare

LOCATIONS:

- 📍 50 High Tech Drive
Rush, NY 14543
- 📍 1600 Lexington Avenue
Suite 104
Rochester, NY 14606

CONTACT:

info@rebuildmanufacturing.com
585.321.2300



PRESSURE VESSEL SYSTEMS

Code and Non-Code Pressure Vessel Design and Fabrication

Re:Build Optimization offers complete engineering, fabrication, and integration solutions for pressure vessel system projects. Our ASME U & R Stamp Certified shop and engineering team brings decades of experience to designing, fabricating, and repairing pressure vessels. Typical use cases include storage tanks, process reactors, and heat exchangers. Our commitment to safety, quality, and efficiency, paired with our experience and certified processes, provides assurance that we can solve your pressure vessel challenges.

LOCATIONS:

- 50 High Tech Drive
Rush, NY 14543
- 1600 Lexington Avenue
Suite 104
Rochester, NY 14606

CONTACT:

info@rebuildmanufacturing.com
585.321.2300





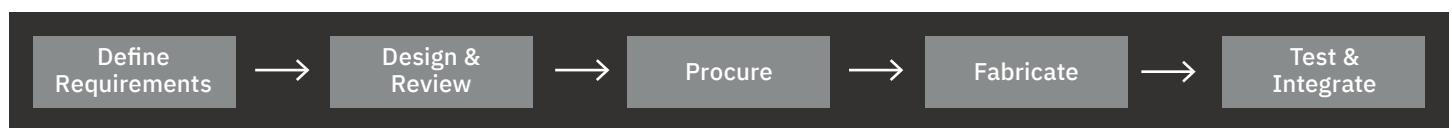
Capabilities

- **Material Types**
 - Steels: carbon, carbon alloy, stainless, duplex stainless (P1-P16)
 - Nickel Alloys: Inconel, Hastelloy, etc. (P41-P47)
- **Physical Size and Wall Thickness**
 - Maximum size: 6' diameter, 12' long
 - Maximum wall thickness: 1.5"
- **Operating Pressure and Temperature**
 - Typical maximum pressure: 3,000PSIG
 - Ability for >3,000PSIG with code exceptions
 - Minimum design temperature: -320F°
- **Typical Fluids**
 - Nitrogen, helium, hydrogen, oxygen, carbon dioxide, methane, methanol, water, compressed air, chemical waste
- **Standards and Testing**
 - ASME BPVC Section VIII, Div I
 - Local, city, and/or state codes and standards
 - Hydrostatic and pneumatic testing, penetrant dye testing, helium leak detection

INDUSTRIES SERVED:

- Hydrogen & Alternative Fuels
- Industrial Chemicals
- Agrochemicals
- Pharmaceutical & Biotechnology
- Food & Beverage
- Industrial Products

Our Process



Key Differentiators

Recognized Expertise

- ASME U1 & R Stamps
- Internal NDT & Local DT/NDT Partners
- Integration of pressure vessels into new and existing process systems
- Customized installation of internal components for batch/process reactors

Safety Focused

- Engineers specializing in hazardous area classification, material selection, and conformity with local codes
- Industry leading safety record

Rapid Delivery

- Leverage local material partners and dedicated internal resources for quick delivery
- On-site installation
- Rapid response repairs