



SKID-BASED AND MODULAR PROCESS SYSTEMS

Custom Plug-and-Play Process Systems Offer Improved Flexibility, Reproducibility, Schedule, and Cost

Re:Build Optimization specializes in the development of custom skid-based and modular process systems. We have decades of experience supporting clients across a variety of applications including hydrogen production equipment, fuel cell test stands, methane pyrolysis reactor skids, clean-in-place systems, and utility delivery skids. Our concept to completion process was developed out of this experience offering a framework that we utilize every day to deliver the highest quality systems.

LOCATIONS:

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Re:Build Optimization Offers Skid and Modular Process Systems Tailored to Your Specifications

Our concept to completion approach to skid and modular process system design, development, fabrication, testing, installation, and commissioning is bolstered by decades of experience assisting clients define and achieve their specific process system needs. We offer turnkey solutions, typically delivered through a phased, stage-gated approach, along with engineering and design consultation, build-to-print fabrication and assembly, field installation, and commissioning to support your project team.

INDUSTRIES SERVED:

- Hydrogen & Alternative Fuels
- Specialty Chemicals
- Decarbonization Technologies
- Food & Beverage

Our Process



Key Differentiators

Discovery

- Experienced client transitions from lab-scale to pilot-scale and from pilot-scale to commercial-scale operations

Engineer, Design, and Procure

- “Inside” and “Outside” the Skid Engineering and Design Experience
- Established vendor network and expertise in component selection

Fabrication, Assembly, and Testing

- NYS Certified Welding, Pipefitting, and Sheet Metal Fabrication Shops
- UL Panel Shop
- Capability to perform FAT in-house

Install and Commission

- Construction managers and tradesmen proficient in global installation and commissioning

Re:Build Optimization’s Framework for Skid and Modular Process Systems Produces Quality, Reproducible, and Compliant Systems

Capabilities

- System Engineering and Design
- Electrical Area Classification and Safety
- Control System Architecture, Strategy, and Design
- Utility Connection, Strategy, and Design
- Process Analysis and Improvement
- Permitting and Stamped Drawings
- Instrumentation and Sensing, Strategy, and Design
- Environmental Discharge Management
- Equipment and Materials of Construction Selection
- Air and Heat Management
- Hazardous Gas and Dust Management
- Structural and Seismic Requirements Strategy

FORM FACTORS

Benchtop
Backplate / Wall Mount
Cart-Based Portable
Standard & Custom Shipping Container
Custom Steel & Aluminum Frame or Enclosure
Trailer Mount