

Empowering Your Business with

Modular Mechanical Systems



POWERING CONNECTIONS



Prefabricated Mechanical Systems for Efficient Deployment

✓ Design and Fabrication of Modular Mechanical Skids: Engineering, 3D modeling, and fabrication of pre-assembled, skid-mounted mechanical systems, including pumping stations, filtration units, heat exchange modules, and process skids, for rapid deployment in oil & gas, water treatment, and industrial process applications.

✓ Rapid Deployment and Reduced Site Work: Factory-built and fully tested modular units minimize on-site construction, welding, and piping work, significantly reducing project schedules, labor costs, and associated risks, leading to faster commissioning and operational readiness.

✓ Optimized for Specific Process Requirements: Custom design and integration of mechanical components (pumps, valves, heat exchangers, filters, instrumentation) to meet precise flow rates, pressures, temperatures, and material compatibility requirements for specific client processes.

✓ Comprehensive Testing and Quality Assurance: Rigorous Factory Acceptance Testing (FAT) including hydrostatic testing, functional testing of pumps and valves, and instrument calibration, performed in a controlled environment to ensure high performance, reliability, and compliance with design specifications before shipment.

Technical Specifications

Features

- ✓ System Type
- ✓ Applications
- ✓ Materials of Construction
- ✓ Design Standards
- ✓ Integrated Equipment
- ✓ Instrumentation
- ✓ Integration
- ✓ Testing
- ✓ Documentation
- ✓ Enclosure

Specifications

- ✓ Modular Mechanical Skid/Package (e.g., Pumping Skid, Dosing Skid, Filtration Skid, Heat Exchanger Skid)
- ✓ Oil & Gas (Chemical Injection, Wellhead Control), Water Treatment (Dosing, Filtration, RO Pre-treatment), HVAC (Chiller/Boiler Skids), Process Industries
- ✓ Stainless Steel (304, 316L), Carbon Steel (ASTM A36, A53), Engineered Plastics (PVC, CPVC, HDPE) for piping and structural components
- ✓ ASME B31.1/B31.3 (Process Piping), API 610 (Pumps), TEMA (Heat Exchangers), AWS D1.1 (Welding), EN 13445 (Pressure Vessels)
- ✓ Centrifugal/Positive Displacement Pumps, Control Valves, Manual Valves, Heat Exchangers (Shell & Tube, Plate) Filters (Cartridge, Bag, Media), Pressure Vessels, Tanks, Mixers
- ✓ Pressure Transmitters, Temperature Transmitters, Flow Meters, Level Transmitters, Analyzers, Control Panels (PLC/HMI)
- ✓ Piping (Flanged, Welded, Threaded), Electrical Wiring, Instrumentation Tubing, Control System Integration
- ✓ Factory Acceptance Test (FAT), Hydrostatic Testing, Pneumatic Testing, Functional Performance Test, Non-Destructive Testing (NDT)
- ✓ P&IDs, GA Drawings, Fabrication Drawings, Material Certificates, Test Reports, O&M Manuals
- ✓ Open Skid, Partial Enclosure, Fully Containerized (Insulated, HVAC, Lighting)

Why Choose Us?

01. Accelerated Project Delivery and Cost Efficiency: Our modular mechanical systems are factory-built and tested, drastically cutting down on-site installation time and labor, leading to significantly faster project completion and substantial cost savings compared to traditional stick-built construction.
02. Superior Quality and Reliability: Fabricated in a controlled environment under stringent quality control, our modular skids undergo comprehensive testing, ensuring high performance, exceptional reliability, and precise adherence to design specifications from day one.
03. Custom-Engineered for Your Process: Each modular system is meticulously designed and integrated with specific components to meet your exact flow rates, pressures, and material compatibility needs, providing an optimized and efficient solution for your unique operational requirements.

GET IN TOUCH WITH US

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