

Process • Piping • Mechanical



Our Process, Piping and Mechanical department has years of experience designing chemical process, mechanical and utility projects of all types. From retrofit projects to new facilities, this group provides dependable, cost effective designs.

Our engineers and designers are experts in piping and equipment design as well as specialized software to deliver the engineering service that you need. You can rely on Perigon to make your project a success with experience you can count on! See below for more detailed list of our capabilities.

Process

- Process Development Specializing in Pharmaceuticals, Chemicals, Polymers & Films, Utilities, Hot Oil
- Feasibility Studies
- Process Selection
- Process Safety Management, HAZOP
- Material and Energy Balances
- Process Flow Diagrams (PFDs)
- Piping & Instrument Diagrams (P&IDs)
- Utilities Allocation and Debottlenecking
- Process Equipment Data Sheets & Specs
- Equipment Sizing and Selection
- Relief Device Selection and Sizing
- Operating Instructions / Procedures
- Process Emissions Diagrams
- Hydraulic and Pneumatic Network Analysis

Mechanical & Piping

- Vessel Design & Analysis
- Mechanical Equipment Specification
- Machine Design•Materials Selection
- HVAC Studies / Design & Specification
- Fire Protection Specification
- Finite Element Analysis
- Cost Estimation•Construction & Startup Assistance
- Material Takeoffs / Bill of Materials
- Equipment Arrangement & Layouts
- Piping Specifications
- Piping Layout – Plans, Sections, Isometrics, 3-D
- Piping Spool Sheets / Shop Fabrication Drawings
- Pipe Stress Analysis & Pipe Support Design
- “As Built” Surveys

Software: AutoCAD 2004, Microstation, V8, Cadpipe, Caesar II (Piping Stress Analysis), Compress (Vessel Analysis), AFT Fathom (Hydraulic Network Analysis), AFT Arrow (Pneumatic Network Analysis), Stardyne (Finite Element Analysis), Autoplant (Smart P&ID Software), Visual Solid (Solid Modeling), Elite (HVAC Load Analysis)