



Industrial Applications  
...Concept to Completion

# HIGH PRESSURE CHALLENGES ARE OUR SPECIALTY

## HIGH PRESSURE TEST SYSTEMS AND PANELS

Optimation has designed, manufactured, and commissioned a variety of custom High-Pressure Test Systems (HPTS) operating at pressures up to **60,000 psi**. We have extensive experience in oil & gas, pharmaceutical, film & paper, automotive, commercial products, and undersea communications. As an example, a HPTS can simulate deep well conditions, allowing clients to verify their equipment can handle the harsh environment, therefore increasing the infield success rate, productivity, and profits.

## CONCEPT TO COMPLETION

Designing a HPTS based solely on your product's testing requirements is our specialty. We provide a full-service solution to your HPTS needs with a turnkey system or upgrades, enhancing your current process, thus freeing up your internal resources for other responsibilities.

## DATA ACQUISITION & DOCUMENTATION

Accurate data collection and design documentation are critical in high pressure applications. Our complete documentation package will follow your standards and design layout and format begins before the system is built. We design thorough and robust data acquisition systems that will create customized reports. Key pressure test curves are included in final documentation, providing valuable proof pressure accreditation for your products.

## THE RIGHT PEOPLE CREATE THE RIGHT SOLUTION

We have process mechanical, machine, electrical & controls engineering to design a HPTS, and the skilled trades personnel to build and install it. We use HP liquid or gas pumps, on-off & metering valves, pressure & temperature sensors, flow meters & leak detectors, and safety relief equipment. Whether your needs are for a wall plate for a test room or a fully automated system, not only can we build your system, but exceed your expectations.

- Engineering
  - Mechanical: component selection, P&ID's, 3-D models of HPTS, detail drawings.
  - Electrical: instrumentation selection, control panel design, detailed wiring diagrams.
  - Application software: functional requirements, system architecture, acceptance testing documentation, software modules, report generation.
- Professional fabrication
  - Millwrights, sheet metal fabricators, machine builders, welders, pipefitters, electricians, instrumentation technicians.
- Installation expertise
  - Legacy system demolition, site prep, equipment installation, on-site testing and commissioning.

