

Engineering Services



Hydraulic Systems
Automation
Controls & Programming

Hydraulic & Automation Systems

- **Custom power unit fabrication** including stainless steel constructions, sound and vibration reduction, and ASME / API enclosures for corrosion- and explosion-proof environments.
- **Turn-key hydraulic power units** from 1 HP units to 1000 gallon multi-pump systems.
- **Hydraulic installation troubleshooting** as part of an independent review.
- **Perform energy audits** to determine eligibility for power company rebates.

- **Mobile/ Marine power take off systems** and J1939 system integration.
- **Fewer welds and flares** via the Parker Seal-Lok© and A-Lok© fitting systems to reduce leaks while reducing manufacturing times.
- **Filtration monitoring** and testing integrated into your PLC and/or control panels.
- **Machine Automation**
- **Pneumatic Panel Assemblies**
- **Valve and Tube Assemblies**
- **AutoCAD Inventor (3D)** - Equipment design, field installation, piping runs, etc.

Electrical Controls & Programming



- **Custom, UL508A certifiable designs** with full documentation and implementation packages, including AutoCAD drawings and schematics, panel and assembly layouts, and complete bills of material.
- **Multiple PLC platforms**, including but not limited to:
 - Allen Bradley RS Logix 500 and RS Logix 5000
 - GE Cimplicity ME
 - Automation Direct
 - Unitronix
- **PLC control and software design**, closed loop motion profiles and fully annotated programming designed and tested in-house.
- **HMI Programming** including, but not limited to:
 - Allen Bradley Factory Talk View, Panel View Component, and Panel Builder 32
 - GE Cimplicity HMI
 - Maple-Systems
- **On-site commissioning** of control system
- **Power Generation Control Systems**
- **Radio remote controls** that provide precision and accuracy at a safe distance.
- **Servo and Stepper Motion Control**



As a high end systems provider, The Hope Group enjoys the highest Parker Hannifin status as a Hydraulic Technology Center (HTC). This designation allows our customers to utilize other HTC's across the country to support equipment that ends up outside of New England. For example, if a system in California requires service, The Hope Group will utilize a local HTC to provide immediate support. Since they are a Parker partner, they represent The Hope Group on site, and the end customer can be assured of receiving effective and timely service.

Why The Hope Group?

Highly Skilled and Cross Trained Engineering Staff

Each project engineer is cross trained in mechanical, hydraulic design, pneumatics, automation, industrial controls, PLC programming, and HMI development. Also, each engineer can provide field support and start up services. This allows THG to support projects in the field because it is able to dispatch an engineer who is knowledgeable about all aspects of a project.

Specialized Technical Sales Team

In concert with its mission statement, THG staffs its sales team with highly technical product specialists (and often degreed engineers) with an average of 15+ years of experience. This allows The Hope Group to provide true technical support and project collaboration to its customer.

Process and Specification Driven

The Hope Group has positioned itself to serve a wide range of customers and industries by ensuring a strong business management system is in place and by being able to accommodate many industry standards. The Hope Group is:

- ISO 9001 Certified
- A licensed UL 508A shop
- ITAR Registered
- A provider of UL698A certified hazardous environment panels, CE and CSA equipment.

In addition, The Hope Group's engineering staff has extensive experience with contract and military specification driven projects.



thehopegroup.com

508.393.7660

People, Product, and Solutions when Expertise Counts

What is The Hope Group Advantage?

It's a group of highly trained associates, backed by industry leading systems and decades of product and application knowledge working for you. As a national distributor with a local presence, **The Hope Group** fills a unique position as a full-service resource for you our customer. We provide system-wide solutions for your toughest applications, bringing together products, technical knowledge, and service and support. From assistance in the design phase, through start-up and operation, ongoing maintenance and post-sales support, and now component service and repair, The Hope Group is your partner and your competitive advantage.

The **Hope Group Advantage** is now stronger and better than ever! Our people, systems and capabilities make the difference and will get you the **Right Product** to the **Right Place** at the **Right Time** and at the **Right Price** to keep you running efficiently and trouble-free!



Training

The Hope Group provides in-house training and education in the design and application of hydraulic and electro-hydraulic components and systems.

 **The Hope Group**
A SunSource Company