

# Sorensen Integrated Systems

## PRODUCTS

- Design/Build
- Directional Control Valves
- Equipment Procurement
- Lubrication Systems
- Machine Fabrication
- Pneumatic Filtration
- Project Management
- Power Station Automation
- Proportional Control Valves
- Sound Attenuation Enclosures
- Tubing Assemblies
- Turbine-Governor Integration

### Sorensen Systems

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## Hydraulic, Pneumatic and Electrical Control Systems for Industry

Sorensen Systems is a premier designer and manufacturer of hydraulic, pneumatic and electrical control systems for the water, waste-water, power generation, industrial motion control, and process control industries. It has built its reputation on successfully designing and building CE & CSA compliant hydraulic power units, pneumatic panels, equipment sound attenuation enclosures, lubrication systems, hydraulic and pneumatic filtration systems, proportional and directional control valves, hose and tubing assemblies.



*A major manufacturer had a requirement for an integrated control system that required the design and assembly of a structural aluminum machine frame, pneumatic and automation assemblies, hose and stainless steel fittings and a PLC driven control system.*

All completed systems are fully tested at its 60,000 square foot manufacturing facility in Massachusetts and provided with complete documentation packages at time of shipment. Use of non-proprietary equipment from leading manufacturers assures world-wide support for warranty and support services. When working with clients on an integrated system design, our commitment extends from initial concept through commissioning and extended in-the-field follow-up services.

## Integrated Solution Keeps the Oil Flowing in Egypt

An interesting challenge requiring an integrated design solution was a requirement to build four skid-based oil pumping stations for a crude oil field in Cairo, Egypt. Part of the solution was the integration of multiple pumps on a single 40-foot skid-based platform.

Two pumps were required to meet the boost requirement, while the third in the series served as a back-up during



*The compact design of the skid accommodated three pump/motor combinations working in parallel, each pump drawing oil from a common supply and discharge header, and each pump/motor has its own electrical controls and protective devices.*

routine maintenance and any unexpected downtime. The use of multiple pump/motor combinations provided an economical means of transferring the crude oil between various locations. Each pump was of a compact design allowing for reduced horse power electric motors. Each skid contained motorized screw pumps, lubrication systems, large diameter piping, electronic control cabinets and complete instrumentation.