CAD Control Systems

INDUSTRIAL DIVISION

United States - Singapore - Dubai

+1(337) 369 - 3737

www.cadoil.com
CAD Control Systems, headquartered in Broussard, Louisiana, is the industry leader in the design and manufacture of control systems. For 30 years CAD Control Systems has provided services to both the industrial and energy sectors. CAD Control Systems incorporates the highest quality components, sound and proven engineering practices, and the latest technological advances to produce equipment that is reliable, durable, and built to meet our customer’s specifications.

CAD Control Systems provides equipment to the world’s leading energy and industrial companies and our global reach extends to over 30 countries world-wide. CAD Control Systems also offers manufacturing services for equipment your company has designed. From design to delivery, CAD Control Systems can meet all of your control system needs.

Our customers can be assured that CAD equipment meets the most rigid industry standards. Our products are designed and manufactured in accordance with globally recognized quality management system requirements.
CAD CONTROL SYSTEMS has an unsurpassed commitment to providing our customers the highest quality equipment in the industry. Our quality management system ensures that every engineered product meets industry standards and exceeds our customers’ expectations.

CAD Control Systems dedication to quality extends throughout the organization and every facet of operations. Our certifications include:

› **PRESAFE PRODUCTION QUALITY ASSURANCE NOTIFICATION**
  PRODUCTION QUALITY ASSURANCE NOTIFICATION
  EQUIPMENT OR PROTECTED SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES Directive 94/9/EC

› **AMERICAN PETROLEUM INSTITUTE (API) QUALITY REGISTRAR**
  ISO 9001:2008 - QUALITY MANAGEMENT SYSTEM INTERNATIONAL STANDARD

› **AMERICAN PETROLEUM INSTITUTE (API) QUALITY REGISTRAR**
  API SPECIFICATION Q1 – QUALITY MANAGEMENT SYSTEM STANDARD

> **AMERICAN PETROLEUM INSTITUTE (API)**
  CERTIFICATE OF AUTHORITY TO USE THE OFFICIAL API MONOGRAM

› **UL 508A PANEL SHOP LISTED**

> **APPROVED SYSTEMS INCLUDE:**
  > API MONOGRAM
  > ABS - CDS
  > CE MARKED WITH ATEX/IECEx
Established in 1983, CAD Control Systems has long been recognized as a leader in the design and manufacture of PLC based and hydraulic control systems for the petroleum and natural gas industry. Headquartered in Broussard, Louisiana, CAD has offices located in Houston, Singapore and Dubai (UAE). CAD equipment is utilized by customers throughout North and South America, Europe, the Middle East and Far East. Each piece of CAD Control Systems equipment is designed by our in-house engineering staff and manufactured at our 35,000 square foot production facility.

CAD specializes in:
- Hydraulic Power Systems
- High Pressure Test Systems
- Fluid Filtration Systems
- Fluid Mixing Systems
- SCADA Systems
- Custom Manufactured Equipment
- Installation & Commissioning
- Training (On-site or In-House)

In addition to manufacturing quality equipment, CAD Control Systems provides qualified technicians to perform installation and commissioning worldwide. We also provide comprehensive training at CAD Control Systems’ headquarters or at your location. Our service department is available 24/7, 365 days a year. We are confident that we can meet and exceed your expectations.

Please contact us for more information or to schedule a tour of our facility.

CAD Control Systems
1017 Freeman Rd
Broussard, LA 70518
Phone: 337.369.3737
Email: sales@cadoil.com
CAD Control Systems has a wide range of standard Hydraulic Power Units. We also have the capability to design, customize and build to your specifications. (Including: Electric Motor Driven Units, Multiple Circuit Power Units, Alternative Fuel Power Units and Stand-alone Diesel Pump Packages for remote applications where utility power is not available)

**BENEFITS:**

- Operability in versatile environments (Including offshore & remote desert sites)
- Configured Diesel Control Systems to start/stop the pump off a series of level and/or pressure switches
- Reduced downtime by sending diagnostic messages to protect engines and other critical components
- Ease of transportation via oversized trailers with power units to transport additional hoses and tools
CAD Control Systems has over three decades of design and engineering experience with high pressure test systems.

We manufacture Test Systems for:

- Compressors
- Pressure & burst
- Positive displacement engines & pumps
- Dynamic testing cylinders (Hydraulic & Electric)
- Cylinders
- Tube Testing
- Bunker style safe BOP Testing System

These Test Systems may also include:

- Multiple Data Acquisition Methods
- Freestanding/Skid/Trailer Mounted w/easy access controls and integrated reservoir tanks

**Electric Powered Test Units**

- Provides reduced test times (up to 80% compared to pneumatic test systems)

**Pneumatic Powered Test Units**

- Small footprint
- An economical solution for hydrostatic testing requirements

**Diesel Powered Test Units**

- A perfect solution when an alternative power supply is not available
SCADA SYSTEMS

CAD’s line of SCADA panels provide the flexibility and proven reliability to monitor and operate your control systems, efficiently and safely. To minimize the possibility of accidental operation of the control system, which significantly increases safety.

Our panels provide a clean, user friendly layout that reflects the operators unique requirements. We can provide systems to meet any environmental demands including hazardous atmospheric requirements.

FEATURES:

- Customized view of data
- Multiple databases supported
- Multiple communication protocols supported
- Customized data analysis according to system operator needs
- Redundant data storage with RAID hard drive configurations
- Redundant data servers with constant synchronization between servers can be provided
- Multiple configurations available including rack mount, wall mount, control arms and free standing

Whatever your SCADA needs, CAD Control Systems has a solution or can customize one for you.
CAD Control Systems Continues Improvement...

**CAD Controls now offers the latest in PLC Technology with the new Siemens S7-1500 series PLCs.**

In 2012 and 2013, CAD Control Systems had the opportunity to partner with Siemens in BETA testing their latest PLC offerings, the S7-1500 series PLCs. Once testing was completed, CAD was one of the first to utilize the technology in Automation Control Systems.

The S7-1500 series PLC offers the following advantages over the S7-300 series:

- Faster processing of program for seamless controls
- More memory storage for larger and more complex automation systems
- More detailed diagnostics, making troubleshooting faster and easier
- Hot swappable I/O cards to minimize down time
- Triple rated for Hazardous Areas (UL, ATEX, IECEx) enabling use in almost any location
- Smaller footprint for space constraints
**Fluid Filtration Systems**

Fluid contamination is one of the major causes of failure and reduction in the operational life of fluid power systems. CAD Control Systems offers flexible, scalable, and cost effective fluid filtration solutions to meet a variety of fluid filtration requirements. We also offer self contained filtration systems, for high and low pressure applications, designed to meet your exact specifications for a variety of fluid types. We can also add filtration systems to existing fluid management equipment. A quality fluid filtration/management system is critical in decreasing the expense associated with maintenance, downtime, and/or failure associated with contaminated fluid, as well as, effectively addressing environmental concerns.

CAD Control Systems filtration systems can be used in a multitude of industries including:

- Agriculture
- Construction
- Marine Applications
- Petroleum and Natural Gas  
  (Drilling, Completion, Production)
- Mining
- Paper and Steel Mills

Maximize productivity and minimize cost. Let CAD Control Systems design and manufacture a fluid filtration solution to meet your needs!
FLUID MIXING SYSTEMS

In order to meet your fluid management needs, CAD offers a line of versatile and customizable fluid mixing systems designed by our in-house engineering team. We work closely with you to design systems based on your unique requirements: capacity and pressure, remote capabilities (manual, PLC, HMI), footprint, alarm requirements, data acquisition and the overall operating environment (hazardous/nonhazardous). All of our equipment is manufactured in accordance with ISO and API quality management systems.

CAD offers two types of systems:

1. Hydraulic Power Systems (HPU)
   - Continuous mixing/circulation of fluids stored in reservoir
   - Ability to create/store hydraulic fluid pressure up to 7500 PSI
   - Can be safely operated manually and remotely

2. Fluid Reservoir Mixing Systems
   - For use in hazardous and non-hazardous environments
   - Single or multiple tank designs
   - Can be safely operated manually and remotely for a variety of fluid types
Our team of qualified engineers, who have decades of combined experience, has assembled an impressive portfolio of success stories over the years involving some revolutionary projects. CAD Control Systems offers expertise in engineered systems such as Hydraulic Systems, Power Units, PC and PLC Control Systems, Control Panels and SCADA Systems.

**BENEFITS:**

Through extensive consultation with our Engineering Team, CAD Control Systems can help with the following:

- Obtaining a conforming tender from a reputable source
- Providing expert advice to maximize your hydraulic system
- Providing accurately defined project scopes
- Customized solutions for your company’s needs

**Past Projects Include:**

- Turnkey Hydraulic Projects
- Hydraulic Circuit Design
- Hydraulic System Upgrades & Refurbishments
- Full Repair Facilities
- Custom Hydraulic Power Units
- Custom Motion Control Systems
- Electric Sensors
- Hydraulic Drives
- System Design & Components
CAD Control Systems has a large team of experienced welders. We offer fabrication services for high capacity production using stainless steel, carbon steel and specialty steel components. Our commitment is to provide quality workmanship regardless of the design or final destination of your equipment.

FEATURES:

- **Stainless Steel Shop**
  - Lift Capacity (5 Tons)
  - Underhook Height (12.5 ft)
  - 2 - 1/2 ton jib cranes
- **Carbon Steel Shop**
  - Lift Capacity (20 tons)
  - Underhook Height (19 ft)
  - 5 - 1/2 ton jib cranes

Our experience in metal fabrication includes production of:

<table>
<thead>
<tr>
<th><strong>METAL COMPONENTS</strong></th>
<th><strong>INDUSTRIAL APPLICATIONS</strong></th>
<th><strong>OIL &amp; GAS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Trailer frames and skids</td>
<td>• Base frames for motors</td>
<td>• Pump skids</td>
</tr>
<tr>
<td>• Shell plates</td>
<td>• Conveyor systems</td>
<td>• Frac tanks</td>
</tr>
<tr>
<td>• Elliptical and oval beveled holes</td>
<td>• Catwalks</td>
<td>• Specialty trailers</td>
</tr>
<tr>
<td>• Heat exchangers</td>
<td>• Water chillers</td>
<td>• Pump jacks</td>
</tr>
<tr>
<td>• Frames and skids</td>
<td>• Enclosures</td>
<td>• Indirect and logistical racking &amp; equipment</td>
</tr>
<tr>
<td>• Enclosures for generators &amp; turbines</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
WORLDWIDE SERVICE SUPPORT

CAD Control Systems started as a field service company in 1983 providing 24 hour service, performing on location repairs of BOP control systems (land and offshore). Customer service and satisfaction has always been the foundation of our business.

Over the last three decades, field services has grown from immediate repairs to complete system installations and commissioning of new capital equipment as well as performing upgrades and modifications to existing equipment. CAD Control Systems also offers training to its customers employees.

With continued growth, CAD Control Systems has diversified into other industrial markets. CAD Control Systems offers high quality and affordable infield solutions to a wide range of industries such as HVAC, municipal, chemical processing, automotive, power generation, mill applications and assembly line applications. Our world class products are backed by a staff of highly trained and qualified service representatives ready and capable of providing service at virtually any location throughout the world. Technicians can be globally dispatched 24 hours a day.

<table>
<thead>
<tr>
<th>SERVICES INCLUDE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment Troubleshooting &amp; Repair</td>
</tr>
<tr>
<td>Instrumentation Calibration</td>
</tr>
<tr>
<td>System Inspection</td>
</tr>
<tr>
<td>Site &amp; Equipment Evaluations</td>
</tr>
<tr>
<td>Single Unit or Fleet Evaluations</td>
</tr>
<tr>
<td>Fabrication</td>
</tr>
</tbody>
</table>

CAD CONTROL SYSTEMS

SERVICE - BROUSSARD, LA
Phone: 337.369.3737
Fax: 337.369.3724
www.cadoil.com
service@cadoil.com

SERVICE - ODESSA, TX
Phone: 337.369.3737
www.cadoil.com
tfike@cadoil.com

SERVICE - DUBAI, UAE
Phone: 011-971-505598392
Fax: 011-971-48138001
www.cadoil.com
mbrupbacher@cadoil.com
CAD Control Systems offers an extensive selection of the highest quality new and re-manufactured OEM replacement components. We deal directly with all major component manufacturers, keeping our prices extremely competitive with quicker delivery times. We can supply replacement parts for a single facility or a complete rig fleet. We also have hard to find components readily available and the ability to locate those we do not have in stock.

**Replacement parts include:**

- Accumulators
- Bladders and Accessories
- Air and Electric Pressure Switches
- High Pressure Ball Valves
- Air Supply Components
- Chart Recorders and Accessories
- Check Valves
- Electronic Components
- Gauges
- Needle Valves and Fittings
- Pneumatic Actuated Ball Valves
- Relief Valves
- Remote Hoses and Accessories
- and much more

Obtaining a quote for replacement parts is easy. Browse through our parts catalog on our website, www.cadoil.com, simply find your component, select the quantities, and submit your request directly to our inside sales staff. Please visit www.cadoil.com for more information or to request a quote or call our sales department directly at 337.369.3737.
With over 30 years of experience in the industry, CAD Control Systems is continually developing customer training programs. These programs are designed to help our customers save money and improve sustainability of their equipment and systems. Our programs have saved our customers tens of thousands of dollars on a case by case basis.

Training programs are developed around industry standards, sound engineering practices, in addition to decades of experience. Our classes are in-house and offered to engineers, operations and maintenance personnel. Held in a classroom setting with a lesson plan customized to your equipment, the classes are informative and interactive, offering a “hands on” approach to learning and can use actual specified equipment and personnel in charge. We will work with you on the basics and move toward advanced techniques to help identify and solve severe and recurring problems. We then follow up with on-site training and the creation of an operations manual. These materials will give your staff the tools they need to maintain your equipment and identify when your equipment is not functioning properly before it turns into a major repair.

For more information or to schedule a training class, please contact:
337.369.3737 or 337.369.3724 (Fax)
jbullock@cadoil.com
Headquartered in Broussard, Louisiana, we have service centers and authorized agents ready to serve you throughout the world. Please see the list below to contact the CAD representative nearest you.

<table>
<thead>
<tr>
<th><strong>CAD CONTROL SYSTEMS</strong></th>
<th><strong>WOODHOUSE INTERNATIONAL</strong></th>
<th><strong>CAD CONTROL SYSTEMS (ASIA) PTE LTD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORPORATE HEADQUARTERS</strong></td>
<td><strong>DUBAI - UNITED ARAB EMIRATES</strong></td>
<td><strong>SINGAPORE</strong></td>
</tr>
<tr>
<td>1017 Freeman Rd</td>
<td>Woodhouse International LLC</td>
<td>Loyang Offshore Base</td>
</tr>
<tr>
<td>Broussard, LA 70518</td>
<td>PO Box 23724</td>
<td>Box 5026</td>
</tr>
<tr>
<td>337.369.3737</td>
<td>Jebel Ali Free Zone (South) Dubai, UAE</td>
<td>Loyang Crescent, Singapore</td>
</tr>
<tr>
<td>337.369.3724 Fax</td>
<td>Tel: (04) 8138000, Fax: (04) 8138001</td>
<td>Telephone: 65.6543.1808 Phone</td>
</tr>
<tr>
<td><a href="http://www.cadoil.com">www.cadoil.com</a></td>
<td>Email: <a href="mailto:woodhous@emirates.net.ae">woodhous@emirates.net.ae</a></td>
<td>65.6543.1851 Phone</td>
</tr>
<tr>
<td>Email: <a href="mailto:sales@cadoil.com">sales@cadoil.com</a></td>
<td></td>
<td>65.6543.1938 Fax</td>
</tr>
</tbody>
</table>

Email: william.ho@cadoil.com