



CURRENT
POWER SOLUTIONS

ABOUT CURRENT POWER SOLUTIONS

Current Power Solutions builds electrical and automation equipment for Drilling Rigs. The drives, switchgear, controls, and other equipment are specifically designed for drilling applications. They are built for reliability, ease of maintenance, and small space requirements.

For offshore rigs, the design, manufacturing, and testing can meet the requirements of all major offshore classification entities including ABS, DNV, LR, BV, and USCG. We can also supply equipment built to IEC standards with CE marking, when required.

For land rigs, Current Power Solutions packages drives, switchgear, and motor control centers in portable power houses with plug panel connections.



Drilling capabilities:

- Automated Drilling Controls
- VFD - AC Drives
- VFD Houses & Driller's Cabins
- Switchboards & MCCs
- Generator Controls
- Engineering Studies



AUTOMATED DRILLING CONTROLS

Our Drilling Controls use standard PLCs, I/O modules, and HMI touch-screens. The drilling systems can be supplied with redundant processors and communication links. These systems are designed to be operated from either stand-up consoles or drilling chairs with HMI touchscreens that are simple and intuitive to use.

Typical automation functions include:

- Auto-drilling
- Power management systems
- Automatic starting and interlocking of auxiliary motors
- Machinery and auxiliary system alarms
- Alarm, data, and event logging



VFD - AC DRIVES

Current Power Solutions manufactures high-power motor drives that are designed for reliability and maintainability. Air-cooled and water-cooled Variable Frequency Drives are available with ratings up to 4.5 MW (6000HP).

The power bridges are modular for ease of serviceability.

The drives are supplied with digital controllers that are programmed to suit specific applications including mud pumps, drawworks, and top drives.



VFD HOUSES AND DRILLER'S CABINS

Custom design houses and cabins built for on and offshore specifications. Our facility has two (30) ton bridge cranes.



If you need more information about Current Power Solutions, simply give us a call or visit our website.

SWITCHGEAR & MOTOR CONTROL CENTERS

Our switchboards and motor control centers are built to customer specifications and application requirements. Offshore switchboards are fabricated to meet the requirements of the environment, marine classification societies, and a variety of electrical standards (e.g. IEC, CSA, ANSI, IEEE). The switchboards are available with the following ratings.

- Voltages up to 13.8kV
- Current ratings up to 8,000A
- Fault current ratings up to 100kA.
- Supply frequencies of 50Hz and 60Hz



GENERATOR CONTROLS

Current Power Solutions manufactures generator controls for all of the major engine and generator manufacturers. Typical controls include those required for synchronizing parallel generators, load sharing, and power management.



ENGINEERING STUDIES

Engineering studies include short circuit analysis, load flow studies, protective device coordination, bus bracing, arch flash studies and harmonic analysis.

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