



Power Distribution & Control

Uniquely positioned to provide control systems that allow for seamless integration and superior operation of all rig components.

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Automation on the rig floor is one of the toughest challenges in our industry. The modular structure of our control software, along with proprietary hardware, provide the critical platform to enable automation. This allows you to remove and add equipment to the rig without lengthy and costly upgrades.

Our experts work with you to create a design that maximizes space and operational efficiency. The advanced controls platform, combined with customized solutions, make Canrig the choice provider of control systems for today's drilling rig.



The Power House is designed with flexible PLC input/outputs, that can be expanded to accommodate any size rig and may be easily assigned and configured for varying equipment requirements. The main components, such as the generator controls, main switchboard and VFD units are field proven and driven by Canrig's firmware which ensure a perfectly matched and highly reliable system with no interfaces to third-party equipment.



The Driller's Cabin is custom-made and designed to optimize the available drill floor space. Three-dimensional modeling of the rig floor enables ideal positioning of the control chair, enhancing safety and operational efficiency. To decrease complexity, Canrig can locate rig floor MCCs and VFDs in the cabin and provide buildings for various area classifications based on requirements received.





SmartROS™ Controls platform is designed by drillers for drillers. The driller's chair provides clear visibility of ongoing activities above the drill floor and supports a variety of movements that allow the driller to operate controls from a seated or standing position. The ergonomic-friendly chair, combined with the SmartROS™ icon-driven user interface, allows for easy to use workflows. In addition, the modular design allows for easy expansion with additional rig equipment modules.

POWER HOUSE & DRILLER'S CABIN

Features	Benefits
Modular Design	Ability to meet any rig design requirements, configurable for either land or offshore operations
Air or Liquid Cooled VFDs	Allows for higher power density and compact size
Industry Exclusive Proprietary Firmware	Optimizes performance for increased drilling efficiency
Redundant PLC Controlled HVAC System	Precise control of specified conditions for VFDs in any weather environment with enhanced monitoring capabilities
Remote Access Capability	Allows for monitoring of all systems & operations off-site
Integrated EDR & PVT Systems	Allows the building to be placed in various locations on the rig
All Area Classifications Available	Decreases the time required to execute slight modifications to the drilling plan, increasing efficiency
Durable & Robust Design	All components are specially developed or selected for harsh drilling and environmental conditions

SmartROS™ CONTROLS

Features	Benefits	
Icon Based Operation System With Workflow Based HMIs	Optimizes the driller's ability to navigate between operations	<p>Standing Configuration</p>  <p>Seated Configuration</p> 
Integration Of Equipment & Services	Modular design allows for easy expansion of equipment footprint due to integrated code	
Ergonomically Designed Driller's Chair	Maximizes the efficiency of the driller and reduces fatigue	
Adjustable Sit-Down To Stand-Up Configuration	Allows the driller to operate controls from both positions with ease, upward and downward adjustment for varied operator heights	
Optional Two-Man Configuration	HMIs pivot to allow for two-position control, enabling two operators to perform simultaneous operations	
Device Level Ring (DLR)	Creates a fault tolerant network, decreasing non-productive time (NPT)	