

PRECISE™

OMRON AUTOMATED DRILLING SYSTEM



EXPERIENCE THE DIFFERENCE
Safer. Faster. Better.

PRECISE™ ADVANTAGES

- › Many standard drilling functions can be controlled entirely through the joystick.
- › VFD drives are fully configured automatically from the control system. No user interaction is needed. This includes an automatic drive model and type detection.
- › For efficiency, engineering and technical support staff can remotely connect to a rig to troubleshoot, correct, or update software. This includes access to the HMI's to assist on-site personnel.
- › Our AC packages include a data historian, which provides local and remote personnel access to live, historical data. It also assists in process improvement and troubleshooting.
- › We have tested libraries ready for implementation to control a large variety of tools from multiple vendors.
- › Our standard AC system ships with an advanced set of Ethernet hardware to provide robust communication and security. Third party integration is further expanded by offering a variety of industrial protocols and Ethernet connectivity into the control system, thus providing remote access to third party hardware if required.
- › Both the driller's cabin and the power house are equipped with wireless connectivity using secure wireless access-points. Omron personnel can troubleshoot without wires due to easy access to the control system to assist with technical support and commissioning.
- › All of our HMI nodes operate independently of each other. This means that the entire rig could be operated from one HMI, if any other HMI fails.
- › Our HMI software can be adjusted to display selected units of measure.

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◀ **Take Control™** ▶

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For the drilling contractor in search of a cost-effective, intelligent, and consolidated control system, the new *PRECISE™* system is the solution.

PRECISE™, Omron's groundbreaking Automated Drilling System, is engineered to help you drill wells safer and faster, all from one control and monitoring system. With less downtime and a lower operating cost, this technologically advanced system will satisfy even the most meticulous drilling contractor.

PRECISE™ FEATURES:



1 Automated Control System

The automated control system features a capacitive technology touch screen with vivid colors, sharp graphics and high speed updates all displayed on the newest monitor designs. This allows the operator to control all drilling functions from one system.

Distributed control via multiple PLC's dedicated to specific rig functions. The *PRECISE™* System interfaces with the rig tools using remote I/O installed on the drawworks, top drive, mud pumps and drill floor. The *PRECISE™* System communicates over fiber optics for optimal process speed with no noise or interference.

2 Ergonomic Cyber Chair

An ergonomic cyber chair design to improve throttle, monitor and other critical control positions for operator comfort and ease of use. It also allows for easy access to components and wiring, simplifying maintenance and troubleshooting.

3 Consolidated Control Cabinet

The consolidated control cabinet houses all control components, PLC's, data historian, communications hardware, software interface functionality, and network devices to monitor and control the rig equipment.

4 Camera System

Our highly advanced process and surveillance camera system provides a comprehensive overview of the rig location to enable the operator to quickly detect and react to failures and problems.

5 Talk-Back System

The *PRECISE™* System has a talk back system integrated into the cyber chair to provide reliable, simple two way voice communications and to enhance safety on a drilling rig.



6 Third-Party Integration

We can provide you with our standard third party options or interface with any of your third party preferences.

Such As:

Configurable to any number of HMI's. Our standard system is 3, but we can work with 2, 4, or 5.

The CCTV system can be mounted to the cyber chair.

Per customer specifications the side panels can be customized with up to 9 configurable chair operators.

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OMRON OILFIELD & MARINE, INC.

877.992.8464

713.849.1700

PRECISE@OMRON.COM
OILFIELD.OMRON.COM