



e-Wildcat

AC Drawworks Electronic Autodrilling System

Simplify your interface process with AC drawworks controls

NOV's e-Wildcat™ AC drawworks electronic autodrilling system, with RigSense™ rigsite information service, interfaces with the rig AC drawworks controls to send set points for the payout to generate a higher quality wellbore and optimize drilling parameters. A seamless electronic interface with the AC drawworks controls provides the benefits of our proven e-Wildcat autodriller without the need for peripheral components.

The e-Wildcat AC system offers the same look and feel of our conventional e-Wildcat autodrilling system, but with AC drawworks control features that give an operator the distinct advantage of using our Differential Pressure control mode. By providing an interface accompanied with specific changes and requirements to install the AC drawworks control system, you can achieve superior performance, including improved bit wear, improved safety, enhanced rig efficiency, and a higher quality wellbore.

The e-Wildcat AC system interfaces with the rig system and eliminates the need for the drum crawler and the standard e-Wildcat variable frequency drive. The system uses a modified DAQ file and junction box to seamlessly connect to the rig-owned control system—built-in safety features allow the driller to maintain control of the drawworks through the joystick.

In addition to the Delta-P technology and proven reliability, the e-Wildcat AC system expands control parameters to include ROP, WOB, and torque. The “Time Drill” feature allows drilling at a specific rate, addressing specialized requirements of casing sidewall milling and sidetrack operations within multilateral openhole wellbores.

To learn how our e-Wildcat AC system can improve your efficiency and increase ROP on your rigs with AC drawworks, contact your local representative.

Features and Benefits

Multiparameter control includes WOB, ROP, differential pressure, and torque loops for rigs with AC drawworks

- Allows user to select desired mode of control
- Interacts different modes simultaneously for tuning of the control

Connects to the drawworks control for universal application

- Provides easy integration into rig control systems
- Minimizes footprint at the wellsite—eliminates the need for autodriller motors and lift units

Drill stop point

- Saves kelly bushings and adds operational convenience

Hydraulic cutout

- Stops drilling if pump pressure is lost; will not drill dry

“Bit protect” feature

- Manages initial weight transfer of bit to the formation and reduces wear on bits