

HiPer™ Control System

Remotely controls Weatherford power tongs and positioning systems

Applications

- Control of mechanized tong-positioning systems such as the PowerFrame®, PowerScope® and PowerArm® tong positioning systems
- Control of mechanized casing, tubing, riser, and drillpipe tongs
- Control of optional equipment for the TorkWrench® drillpipe wrenching tongs (integral mud bucket, stabbing guide, and cleaning/doping device)

Features and Benefits

- The system incorporates a high-speed industrial computer that emulates a programmable logic controller (PLC) and features an open system configuration for versatility.
- Full remote capability from the driller's control cabin enables operation from a safe distance.
- Integration of rig safety and zone-management systems enhances safety and efficiency.
- Network TCP/IP connection provides off-site remote support capability, enabling quick response for troubleshooting, software installation, and upgrades.
- The portable version can be operated in explosive atmospheres; it is compliant with ATEX (atmospheric explosive) certification requirements.

Tool Description

The HiPer control system is used for the remote control of the Weatherford suite of mechanized power tongs and tong-positioning systems. The system consists of certified explosion-proof rig-floor components, the Weatherford universal remote-control system (URCS), and a main control cabinet that can be installed in a safe area.

The URCS is an intrinsically safe, portable control panel that provides a practical, user-friendly interface that enables remote operation from a safe distance. Using modern computer technology and data mapping, the HiPer control system integrates with all major drilling control systems and can be used to communicate with the rig's anti-collision system to avoid contact between Weatherford equipment and other rig-floor machinery. The HiPer control system is available in a portable version certified for use in hazardous areas.



Weatherford universal remote control system (URCS)



Portable HiPer control system



HiPer control cabinet for local electrical room

