# eWinch™ Integrated Plug-and-Perf Winch Solution

# ALL-ELECTRIC SYSTEM THAT CAN BE REMOTELY OPERATED FOR SAFETY AND EFFICIENCY

### **OVERVIEW**

The electric-powered Halliburton eWinch<sup>™</sup> sets the standard in latest generation perforating technology. Controlled from a winch panel located inside our all-electric Tech Command Center frac van, eWinch<sup>™</sup> is the safest winch system in the industry and offers the smallest perforating footprint available when it comes to wireline. Unlike standard wireline units, this trailer-mounted winch is not powered by a diesel engine – thus eliminating the need for an expensive logging truck and avoiding possible non-productive time (NPT) associated with conventional equipment failures.

During critical rig-up/rig-down operations, this innovative winch system can be operated with a remote control, enabling personnel to conduct operations safely and more efficiently in full-view of the wireline surface equipment. Multiple highdefinition cameras provide real-time views of the ground crew, crane operator, winch drum and operation, allowing operators to remotely zoom and view discrete equipment across the wellsite. This electrically powered conveyance system, which uses a direct-drive motor, also eliminates the need for failure-prone and hazardous chain drives and gearboxes.



For ease of operation, eWinch<sup>™</sup> provides automatic wire spooling, instead of traditional manual wire spooling, which improves safety and conveyance reliability. In contrast to traditional maintenance-heavy and exposed legacy systems, eWinch<sup>™</sup> has a closed-loop system that reduces downtime related to surface equipment failures. Additionally, this state-of-the-art wireline system enables streaming and real-time visualization of the perforating operation from anywhere.

## **FEATURES**

- » All-electric winch system
- » Handheld remote operation
- » Multiple high-definition cameras
- » Automatic wire spooling
- » Maintenance-free system
- » More reliable and responsive motor

### BENEFITS

- » Offers smallest footprint available in industry
- » Eliminates need for logging trucks
- » Provides efficient, safe, and cost-saving performance
- » Mitigates downtime due to system reliability
- » Enables real-time visualization of operations

HALLIBURTON | Wireline & Perforating

#### All-Electric Technology Reduces Fuels, Costs, and Emissions

From the pump to the wireline unit, Halliburton's all-electric fracturing spread eliminates the need for diesel engines and transmissions, as well as the associated NPT. By powering an electric location through the grid, operators can also significantly reduce overall emissions by up to 45 percent when compared to other fracturing operations.

The Halliburton integrated well completions (IWC) unit and eWinch™ are an essential part of our all-electric frac fleet. The remotely operated IWC unit is the only all-electric solution that combines frac and wireline systems under one roof.

The 480V eWinch<sup>™</sup> can be powered off a local power grid, on-site low-emission electric turbines, or traditional electric generators if required. Halliburton has been successfully utilizing grid power since 2019, which allows operators to reduce their diesel fuel cost to zero and minimizes traffic associated with diesel trucks running to and from location. Grid power offers greater efficiency by eliminating the need to move power-generation equipment from pad to pad.

Halliburton eWinch™	Standard Wireline Unit	Benefits of eWinch™ Solution
Trailer mounted, electrically powered winch	Emission-controlled, diesel-engine-powered logging truck	<ul> <li>» Eliminates logging truck and dependence on a diesel engine to supply electric and hydraulic horsepower</li> <li>» Reduces environmental impacts from noise and spills, and provides a smaller on-site footprint</li> <li>» Eliminates NPT associated with diesel engine failures</li> </ul>
Innovative drive-mechanism	Hydraulic or chain-driven winch	<ul> <li>» Eliminates need for failure-prone and hazardous chain drives and gearboxes that can cause downtime related to surface equipment failures</li> </ul>
Winch panel located inside TCC	Winch panel located inside logging truck	<ul> <li>Requires only a single completions crew</li> <li>Enables direct communications with frac personnel and operator to improve overall frac operation, reduce risks, and increase efficiency</li> </ul>
Ability to operate remote- ly with handheld remote device	No remote operation capa- bility, resulting in limited view of operations, reliance on hand signals and radios.	» Allows operators to run the winch remotely during critical rig-up/rig-down processes in full view of operations for greater efficiency and safety
Closed-loop system	Maintenance-heavy, exposed legacy system	<ul> <li>Eliminates downtime related to surface equipment failures and hydraulic fluid leaks</li> </ul>
Automated wire spooling	Manual wire spooling	» Improves conveyance reliability and safety
High-definition, fiber-optic cameras	No cameras	<ul> <li>Provides real-time view of winch drum and operation</li> <li>Enables flexibility to remotely zoom and view discrete equipment across the wellsite, resulting in enhanced capabilities and reduced HSE exposure</li> </ul>
Real-time visualization of depth and speed	Limited data access outside wireline unit	» Enables streaming and real-time visualization of the perforating operation from anywhere

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

H014027 07/21 © 2021 Halliburton. All Rights Reserved.

