

ENDLESS RODTM UNIT

REALIZE LOWER WELL INTERVENTION COSTS

The Lifting Solutions Endless Rod Unit (ERU) is a fully self-sufficient unit designed to perform well interventions such as pump changes (pulling out and running in) and parted rod jobs. The ERU features a hydraulically operated continuous rod gripper for safe, cost-efficient servicing of continuous rod and conventional sucker rods. This unit is compatible with vertical or slant wellhead configurations for oil, gas, and coalbed methane (coalseam gas) wells and is equipped with lighting for working in the dark.

The Endless Rod Unit is fast and efficient, especially within highly concentrated well sites: the gripper trips rod at a rate of up to 100 ft/min (30 m/min), the unit can be rigged-in and rigged-out exceptionally quick, and its automated design minimizes human intervention. All ERU on-board systems are fully integrated and feature world-class safety components including a blowout preventer (BOP), an emergency clamp system, and a full array of safety equipment.



BENEFITS

- Truck mounted for quick deployment and movement to the well site
- Ergonomic and practical design minimizes pinch points and reduces the risk of injury
- Mast-mounted auxiliary winch boom-arm provides a greater range of light hoisting over and around the well
- Automatic load-line system eliminates climbing, installing, and removing load-line pins
- Hydraulic tank heaters warm fluids while driving to the wellsite or during operation, enabling cold temperature start-up and operations
- Cab is mounted on a twin steer, tandem axle chassis
- Two mast-mounted utility winches



APPLICATIONS

Continuous rod and conventional sucker rod interventions:

- Pulling, running, and fishing rod strings
- Fishing slickline, wireline, or other light tools
- Changing insert pumps
- Changing plungers (RRL)
- Progressing Cavity Pump rotor replacement
- Changing rotors (PCP)
- Shifting sliding sleeves
- Setting gas-lift mandrels
- Running many nonelectric wireline tools (e.g., setting plugs, memory logs)

Light well interventions:

- Changing wellhead valves
- Changing polish rods
- Removing and replacing driveheads and stuffing boxes
- Changing wellhead valves and rod BOPs
- Spacing and respacing rod strings



SPECIFICATIONS

MAST	
Height	58 ft 17.7 m
Maximum capacity	50,000 lb 22,680 kg
Maximum slant capacity with anti-skid beam	42,000 lb 19,090 kg
CONTINUOUS ROD GRIPPER	
Maximum capacity	50,000 lb 22,680 kg
Rod trip rate	100 ft/min. 35 m/min.
HYDRAULIC DRAW WORKS (MAIN WINCH)	
Maximum capacity	50,000 lb 22,680 kg
MISCELLANEOUS	
BOP rating, optional 3-in. rod	1,500 psi 10.3 MPa
Rig-in/rig-out time	15-30 min.
Crew Vehicle	Equipped w/ small crane and ability to load and transport service reels