

ENDLESS ROD[®] 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 (coal seam 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 it's 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 |