

1500HP Land Drilling Rig

This 1500HP land drilling rig is designed for drilling to depths of 25,000 feet and is equipped with a 160-foot derrick. It features a modular design for fast moving and utilizes automated tools for efficient operations.



ADDITIONAL IMAGES



Overview

1500HP Beyond Rig Overview

The 1500HP Beyond Rig is a highly mobile and automated land drilling solution designed for efficient petroleum prospecting and cluster drilling. It features a modular design that allows for quick rig-up and fast transportation, with the entire rig requiring no more than 25 modules. Equipped with advanced hydraulic systems and automated pipe handling tools, it significantly reduces manual labor while enhancing operational safety and precision.

Performance Metrics

Drilling Capacity

5000 m

Nominal Depth

16400 ft

Nominal Depth

1500 HP

Drawworks Power

Load & Structural Specs

Maximum Hook Load	764350 lb
Max Drill String Weight	404660 lb
Drill Floor Height	29.5 ft
Drill Floor Area	34.8 x 30 ft (10.6 x 9.16 m)

Power & Mechanical

Total Rig Power	1,475x3 + 429 HP (1,100x3 + 320 kW)
Max Winch Input Power	1850 HP
Drill Pump Configuration	2 units x 1,600 HP (1,193 kW)
Rotary Table Opening	37.5 in

Mobility & Rig-up

Mobility Features

- 8-direction marching type walking device (horizontal, vertical, $\pm 45^\circ$)
- Mast and substructure raised by hydraulic cylinders
- Derrick transportable by tractor-trailer
- Modular components for self-loading truck transport
- Maximum of 25 transportation modules for the entire rig

Automation

Automated Drilling Tools	Hydraulic Catwalk, Drill Floor Stabilizer Manipulator, Pipe Racking Device, Iron Roughneck, Top Drive System
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Technical Details

Technical Parameters

Description		Main Technical Parameters
Nom. Depth	m	5,000
	ft	16,400
Max. Hook Load	kN	3,400
	lb	764,350
Max. Drill String Weight	kN	1,800
	lb	404,660
Wire Reaving System		6x7 straight
Dia. of drilling line wire rope	mm	φ 32
	in	φ 1.26
Max. Input Power of Winch	KW	1,380
	HP	1,850
Opening Diameter of Rotary Table	mm	φ 952.5
	in	37 1/2
Rated Power / Quantity of Drill Pump	kW	1,193/2
	HP	1,600/2
Total Rig Power	KW	1,100x3+320
	HP	1,475x3+429
Height of Drill Floor	m	29.5
	ft	7.757
The Clear Height From Rotary Table Beams Underside To The Ground	m	25.5
	ft	10.6x9.16
Drill Floor Area	m	34.8x30
	ft	

Comprehensive technical specifications including depth ratings, load capacities, and power requirements for the 1500HP drilling system.

Wire Reaving System	6x7 straight
Drilling Line Diameter	1.26 in