

Diesel-Powered Mechanical Drilling Rig

This mechanical rig is driven by a diesel engine, which transmits power to the drawworks, rotary table, and mud pump through a compound gearbox. The drawworks features hydraulic disc brakes and an auxiliary AC motor for mast rig up and emergency operations.



Overview

High-Performance Diesel-Powered Drilling Rigs

This series of diesel-powered mechanical drilling rigs is engineered for efficient and robust performance in oil and gas exploration and production. Designed to operate across diverse geological conditions, these units feature advanced hoisting systems, powerful drawworks, and high-capacity pump configurations. With a focus on safety and reliability, this equipment provides the necessary static hook load and power to support deep-well drilling operations ranging from 3,000 to 7,000 meters.

Technical Specifications

Model Comparison Table

Model	Nominal Depth	Drawworks Power	Max Static Hook Load
ZJ30L	3,000m	550KW	180mt
ZJ40L	4,000m	745KW	225mt
ZJ50L	5,000m	1,100KW	315mt
ZJ70L	7,000m	1,490KW	450mt

Pump Power Configurations

- ZJ30L: 2x597KW / 2x810KW
- ZJ40L: 2x969KW / 3x810KW
- ZJ50L: 2x1,193KW / 3x810KW
- ZJ70L: 3x1,193KW / 4x810KW

Key Metrics

Maximum Drilling Depth

7000 m

Max Depth (ZJ70L)

3000 m

Min Depth (ZJ30L)