

Top Drifter Anchor Drilling Rig

This top drive drilling rig excels in complex formations. Its top drifter delivers high power vibration, enabling drilling in hard rock without a compressor or DTH hammer within a 30-meter depth.



ADDITIONAL IMAGES



Overview

HDL-180D1 Top Drive Drilling Rig

The HDL-180D1 is a high-performance top drive drilling rig engineered specifically for complex geological formations. Featuring a high-power vibration top drifter, it excels in hard rock drilling without the need for a compressor or DTH hammer within a 30-meter depth. This advanced design offers a 10%-30% reduction in drilling time, significantly enhancing operational efficiency for foundation pit protection, slope support, and tunnel pipe shed construction.

Technical Specifications

Hole Diameter	Æ100~Æ250
Hole Depth	150~180 m
Hole Angle	-12~90 °
Compatible Rod Diameters	Æ73, Æ89, Æ102, Æ114, Æ146, Æ168, Æ219

Performance Metrics

Drilling Performance

14000 N.m
Max Torque

70 r/min
Max Rotary Speed

Key Features

Operational Advantages

- High-power top drive rotary head for stable performance
- Imported control valve system for reliability and easy maintenance
- Extended stroke length allows for 4-meter drilling rod combinations
- High penetration rate in unstable layers like sand, gravel, and rock
- Reduced drilling tool wastage due to stable structural design