JDL Series Mechanical Top Drive Core Drilling Rig: Mechanical Top Drive



Алматы, Казахстан

I. Introduction to JDL Series Mechanical Top Drive Core Drilling Rig
The JDL series mechanical top drive core drilling rig is an innovative drilling equipment that breaks through traditional limitations by integrating mud drilling and air drilling technologies, serving as an all-around solution in geotechnical engineering. In conventional operations, air DTH hammers often face difficulties in soil layers, while mud drilling shows low efficiency in hard rock, gravel, and pebble layers. This rig overcomes these industry challenges with its mechanical top drive system, enabling high-efficiency operations across all strata. It also features energy-saving advantages, significantly reducing comprehensive costs for users.
II. Core Features of JDL Series Mechanical Top Drive Core Drilling Rig
1. Dual-Mode Drilling Technology
The rig enables seamless switching between mud drilling and air drilling, allowing flexible adjustment of operation modes according to stratum characteristics. Whether in loose soil layers or hard rock formations, it maintains stable and efficient drilling, remarkably enhancing project adaptability.
2. Expandable Hydraulic Control System
The hydraulic control system of the rig is equipped with reserved multi-functional interfaces, supporting customized expansion. Users can quickly connect auxiliary equipment or upgrade functional modules based on specific construction requirements, meeting diverse engineering scenarios.
3. High-Efficiency Mechanical Drive Spindle
Adopting a pure mechanical drive spindle design, the rig achieves a 100% increase in transmission efficiency compared to traditional methods, significantly reducing energy consumption. Its stable power transmission during operation minimizes failure risks and extends equipment service life.
4. Intelligent Power Head and Stroke Design
The mechanical top drive power head is paired with a long-stroke dual-speed mechanism to optimize the drilling rhythm.

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