

Embodiment 1 [0018] see figure 1 -- image 3, a drill arm device of a two-arm hydraulic rock bolt drilling rig, the drill arm device comprises a drill arm hinge seat 1, an outer cylinder of a ...

TECHNICAL SPECIFICATION The Sandvik DD311 is a single-boom electro-hydraulic jumbo, designed for fast and accurate drilling within drifting and tunneling of 40 m² cross-sections.

This automation option enables the use of digital drill plans (drill plan handling) on the rig. Productivity increasing benefits are less overbreak/underbreak, longer drill rounds and better ...

The double-boom rock drilling jumbo is a kind of digital underground tunnel drill rigs used for full construction method including multi-step synchronous, step ...

Balchanowski J, Szrek J, Wudarczyk S (2017) Kinematic aspects of the drilling ring boom design, *Mechanika*. In: Proceedings of the 22nd ...

Pneumatic percussion drill noise is a major contributor to noise-induced hearing impairment in South African mines. This is so because drilling and blasting is the primary method of rock ...

In this study, discrete element method (DEM) is applied to simulate the rock-breaking process by pneumatic rock drill, and the drilling parameters of the surrounding rocks ...

The invention discloses a hydraulic anchor rod drill carriage and a double-rock drill propulsion beam thereof, wherein the propulsion beam comprises a drilling rock drill, an anchor rod rock ...

The crank arm rock drilling rig is mainly composed of a chassis system, a hydraulic system, an electrical system, a water supply system, a gas supply system, a remote control operating ...

To address this issue, this paper proposes a method for extracting contour surfaces and planning drilling paths based on a vehicle-mounted 3D ...

The three-arm drilling jumbo is specialized equipment for hard rock tunnel construction using the drill-and-blast method. Its boom system is crucial for the extensive operational range of the ...

The hydraulic rock drill is an efficient rock-breaking tool widely used in mining, tunnel excavation, and construction engineering. Powered by a hydraulic system, it achieves rock fragmentation ...

TECHNICAL SPECIFICATION Sandvik DT821 is a two-boom electro hydraulic jumbo for fast and accurate



Rock drill boom propulsion method

drilling in tunneling and cavern excavation. The hydraulic controlled drilling system ...

A rock drilling arm support comprises a main arm hinged on an arm base, an auxiliary arm nested in the main arm and capable of stretching along the main arm, and a propelling beam ...

A technology of rock bolter and drilling arm, which is applied in the field of coal mine excavation equipment and drilling arm device, which can solve the ...

DWS Face Drilling Rig According to the actual requirement of underground bolting projects, Siton has specially researched and developed a ...

the rock drill rig 5is shown in more detail, wherein the rig includes a vehicle unit 6, wherein is enclosed one or more engines for propulsion of the rig as well as an engine-driven hydraulic ...

Underground Rock Drills Our range of surface rock drills is ready to tackle any job: horizontal or vertical, light or heavy. Our light pneumatic rock drill can drill ...

The interaction between drilling machinery and rock during the drilling process generates drilling parameters that encapsulate substantial data closely correlated with rock ...

The double-boom rock drilling jumbo is a kind of digital underground tunnel drill rigs used for full construction method including multi-step synchronous, step method, full-section and so on.

Abstract Intelligent drill boom hole-seeking is a promising technology for enhancing drilling efficiency, mitigating potential safety hazards, and relieving human operators. Most existing ...

Through mathematical modelling and simulation study show that fuzzy PID control method has its advantages as the fast response follow by target, high control precision, and ...

Explore Horizontal Directional Drilling (HDD) with our ultimate guide. Learn about this trenchless technology, its applications, benefits, and ...

The drilling-blasting method is widely used in tunnel construction, and a rock drilling jumbo with two to four booms as the main equipment is used to drill blasting holes for planting ...

TECHNICAL SPECIFICATION Sandvik DT1331i is a computer-controlled three boom electro-hydraulic jumbo for fast and accurate drilling in tunneling and cavern excavations. Drill rig has ...

The DL421 is mounted on a 4-wheel drive frame-steered and diesel-powered carrier. It is equipped with the HL1560ST hydraulic rock drill, LFRC1600 drilling module, ZR30 telescopic ...



Rock drill boom propulsion method

Abstract Rock drills are usually applied in petroleum engineering applications, tunnel excavation, and hard rock mining. The rock drills directly impacted the rock through the ...

The invention relates to a telescopic feed beam for a rock drill and to a method of measuring a travel length. The pressure surface of a piston (11b) in a feed cylinder (11) of the feed beam is ...

As a technological innovation of high-power hydraulic rock drill, double damping system has a very important effect on impact performance. The double damping system is a floating ...

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