

Abstract Rock drilling is widely used in various types of rock engineering. Rock boring is often used in tunneling, underground mining, and nuclear waste depository. This ...

The support has supporting surfaces, which may be set close to outer surfaces of the tool. The support has a supporting position and an idle position between which positions the support ...

An apparatus, a method for positioning a rock drilling, and a rock drilling rig is provided. The rock drilling rig includes a mobile drilling platform and a drilling mast connected to the drilling ...

The invention also relates to a rock drilling configuration comprising said positioning device (21, 31) and said drilling arrangement (7) and a computer program product comprising program ...

Explore essential techniques and considerations for effective rock drilling! ? Learn about tools, methods, safety tips, and various applications. ?

With the rapid advancement of modern engineering technology, large hydraulic rock drilling robots have found widespread applications in ...

An apparatus and method for positioning a rock drilling, and a rock drilling rig. The rock drilling rig (1) comprises a mobile drilling platform (2) and a drilling mast (3) connected to the drilling ...

Article Open access Published: 25 April 2025 Simulation and experimental research on drilling and rock breaking mechanisms of anchor drill rigs with analysis of drilling ...

With the rapid advancement of modern engineering technology, large hydraulic rock drilling robots have found widespread applications in various fields, including mining, ...

When the drill and blast technique is used to excavate a roadway in underground coal mines, the relationship between the carriage and roadway space affects the automated ...

Explore rock tunneling methods: drill & blast, TBM, roadheaders. Learn about geological factors, excavation techniques, and method selection.

Drilled piers are a reliable foundation solution for heavy structures like buildings, bridges, and retaining walls. Their construction involves precise engineering and meticulous ...

Introduction Drilling into rock is a fundamental operation across multiple industries, but not all rock types--or



# Rock drill support positioning method

drilling challenges--are created equal. Choosing the right drilling ...

The high-strength hard rock rotary drilling hole-forming pile foundation comprises a high-strength hard rock rotary drilling hole-forming drill bit system, a positioning platform reinforcement cage ...

The support element is inside a suction housing of a rock drilling unit at least during drilling. The support is located at a front end portion of a feed beam and is used to support the...

Rock bolting is a commonly used method for stabilizing the surrounding rock in coal-mine roadways. It involves installing rock bolts after ...

Rock support is the term widely used to describe the procedures and materials used to improve the stability and maintain the load bearing capacity of rock near to the boundaries of an ...

**PROBLEM TO BE SOLVED:** To provide a supporting instrument for a rock drill, which can be used even in a steeply slanting mountain or in a woody place, can be easily installed and ...

the positioning control system of the present invention is less complicated and more compatible with the power medium used elsewhere on the rock drill apparatus than prior art electro ...

This work describes an automatic hole positioning and alignment system developed for drill rigs. The novelty of the solution is in the surface drilling application and the versatility of a typical ...

The present invention relates to a drilling positioning control method and the like in a rock drill mounted carriage capable of having a drilling positioning control mechanism very easily with ...

Learn the art of drilling through rocks successfully with our guide! Discover how to select the right tools, understand rock properties, drill safely, and clean up post-drilling. From ...

Explore the working principles and anchoring methods of self-drilling hollow anchor rods in slope, foundation pit, tunnel, and prestressed ...



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