



Ankang Tunnel Rock Drill

Our extensive range of drilling equipment, including advanced DTH drilling tools, ensures you have the right tools for every project. Our diverse selection of drilling bits types caters to ...

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 ...

The TD-45T rock drill, specially tuned in tunnel drilling applications, is equipped with water flushing system and provides optimum impact power and rotation ...

Learn how to conquer rocky terrains with the ultimate guide on drilling through rock formations. Discover the secrets to selecting the perfect equipment, mastering drill bit ...

On February 25, the Ankang Tunnel, a key and difficult project of the Xikang High-speed Railway, was successfully completed. This is the 14th tunnel that runs through the entire Xikang High ...

Learn how to choose the right rock drilling tools for tunnel excavation in underground mines. Optimize efficiency, safety, and cost ...

Unlock success in drilling underground tunnels. Learn how to choose the optimal drill bits and rods for your project, ensuring efficiency, safety, and breakthrough performance in ...

In the world of underground construction, the excavation of hard rock tunnels poses significant engineering challenges. Engineers and project ...

Two parameters are often calculated from a blast design: the "powder factor" or specific charge (kg of explosives per m³ of blasted rock) and the drill factor (total length of drill ...

The Huajiashan Tunnel of the Xikang High speed Railway is located in the hinterland of the Qinling Mountains (within Ankang), with a total length of 13153 meters and a burial depth of ...

The Kaishan KM311 hydraulic rock bolting rig is engineered for pipe seam rock bolt construction, capable of traversing tunnels as narrow as 2.5m wide × 2.2m high.

Learn how Self-Drilling Anchors improve tunneling stability and efficiency by providing reliable ground reinforcement in challenging conditions. Explore key benefits, uses, ...

Based on the application status of rock-drilling jumbo, in order to solve the problem of large average linear



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overbreak amount when drilling and blasting with rock-drilling jumbo, the ...

Explore drilling techniques for tunnels and bridge support systems, ensuring stability, safety, and durability for infrastructure projects.

Conclusion Rock drilling tools are at the core of successful tunnel construction, driving efficiency, ensuring safety, and maximizing cost-effectiveness.

The tunnel of drift face can be roughly divided into four sections (FIGURE6.2.-1. Drilling pattern design in tunneling and drifting is based on the following factors: - Tunnel dimensions - Tunnel ...

Kaishan KM311 tunnel anchoring machine designed for rock bolt in the pipe seam, capable of passing the section 2.5 meters wide and 2.2 meters high.

1. Tunnel Boring Machines (TBMs) TBMs are the most advanced and widely used tools for large-scale tunnel projects. These massive, cylindrical machines excavate soil or rock ...

The conventional destructive methods generally obtain geological information through advanced borehole drilling prior to the commencement of tunnel excavation. ...

This paper takes the Ankang Tunnel as an example to conduct research on the mechanical characteristics of swelling and shrinkage deformation of expansive soil, such as ...

It is mainly used for excavation and construction in tunnels and tunnels in mining, hydropower, railway, and highway fields. The drill car adopts advanced full hydraulic rock drilling system, ...

When encountering water, it will cause the volume of the surrounding rock to expand, and when constrained by the tunnel lining, it will generate swelling pressure, leading to diseases in the ...

One of the boring machines used for the Channel Tunnel between France and the United Kingdom A tunnel boring machine (TBM), also known as a "mole" or a ...

The tool consists of four separate modules: iSURE® Tunnel for drill and blast design, drilling pattern design, longhole pattern, tunnel line and project files; iSURE® Report for drilling ...

Discover the benefits, features, and advancements of self-drilling anchor bolts in tunnel support, ensuring rock stability, cost-efficiency, and ...

Software is used in various parts of a tunnel construction and the workshop covers the current state of the art in this important and growing area. The workshop describes tools such as ...



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The ATD100 Air Track Drill is a self-propelled pneumatic crawler drill that can be used for both DTH and drifter drilling. It maintains a simple and lightweight ...

This research presents a hybrid approach to conduct the prediction and optimization of tunnel boring machine (TBM) performance, such as cutter wear an...

A well-known example is the construction of the Gotthard Base Tunnel in Switzerland, the longest railway tunnel in the world, which utilized advanced drilling ...

Drill jumbos: Precision drilling in hard rock Drill jumbos are specialists in accuracy. Equipped with multiple booms, they drill precise patterns into hard rock, often for explosives or ...

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Sandvik DT922i is equipped with Sandvik Intelligent Control System Architecture (SICA) that is a well-proven and commonly used control system technology across a wide range of Sandvik ...

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