



Yuncheng Tunnel Rock Drill Recruitment Network

What are the evaluation indexes for a tunnel project?

The determination coefficient (R^2), ACC, and standard deviation of prediction error (STD) are selected as the evaluation indexes for the task's performance. 4. Dataset construction This section introduces a tunnel project involving the collection of multi-source data during construction.

How is rock quality assessed during geological investigation for tunnel engineering?

During the geological investigation for tunnel engineering, the surrounding rock quality is assessed by core drill evaluations conducted along the tunnel alignment. The number of cores drilled in mountain tunnel projects is generally fewer than those in urban tunnels due to cost and surface environmental constraints.

What data is collected during tunnel construction?

During tunnel construction, multi-source data are collected, such as tunnel geotechnical investigation data, construction logs, MWD data, tunnel face photographs, and rock strength test data (Fig. 9 (a)). In large-span tunnels, the tunnel face often exhibits heterogeneity in rock mass classification, necessitating portion-specific evaluation.

How can advanced geological prediction technology be used in tunnel excavation?

Therefore, advanced geological prediction technologies, including advanced borehole drilling, ground penetrating radar, and tunnel seismic prediction technology, have been developed to provide early warnings for geological risks during tunnel excavation.

How long is the yangjiawopu tunnel?

4.1. Project overview Field investigations and testing were conducted at the Yangjiawopu twin-tube highway tunnel in Xinglong City, Hebei Province, China. The tunnel has a total length of 5.1 km, with a cross-sectional width of 15.93 m and a height of 11.84 m (Fig. 8 (a)).

Underground drilling in hard rock environments presents unique challenges, demanding specialized tools that can withstand immense ...

The factory of Shandong Rock Drilling Tools Co., Ltd. was founded in 1993 and the company was established in 2012. Our business scope consists of ...

Tunnel boring machines carve through solid rock. Conveyor systems move heavy materials with ease. Shotcrete machinery strengthens tunnel walls, and Rockwheel ...

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



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Stoppers, benchers and jacklegs; mini excavator mounted drill attachments, up drills and HOR drills all have a specific purpose in tunnel applications. We ...

Drill-and-Blast Tunneling At Frontier-Kemper, we are skilled at conventional drill-and-blast tunnel excavation. The drill-and-blast method is performed by drilling blast holes on a prescribed ...

YT24 Air Leg Rock Drills Maxdrill's YT24 air leg rock drills are particularly designed for hole blasting in small or medium-sized mines and wet drilling horizontally or at a tilting angle. The ...

Download scientific diagram | Mudstone tunnel at a buried depth of 960 m in Yuncheng coal mine and a sketch of excavation damage zone from ...

The use of self drilling rock bolts in tunnel and mining projects is a proven method for enhancing safety and structural support. By simplifying installation and improving ...

Self-drilling rock bolts are a type of reinforcement used in tunnel construction to stabilise rock formations. Unlike traditional rock bolts, which...

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 ...

Our highly experienced and dedicated drilling team specialise in the provision of Core Drill Crew as well as the subsidiary Marine, Engineering and ...

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

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 ...

Tunnelgruppen is a company specialized in underground projects. A comprehensive contractor within rock excavation, rock works, reinforcement, grouting and technical direction in planning ...

Yuncheng Anjie Fan Electrical Co., Ltd is China manufacturer & supplier who mainly produces mine fan, tunnel fan, Local Ventilation Axial Fan with years of ...

Application Prospects of Rock Drilling Rig in Tunnel Construction Based on the current main excavation methods of tunnel construction, based ...



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Abstract: Aiming at the problem that the measured signals from the borehole seismic source of tunnel rock drilling rigs are characterized by data clutter, serious noise interference and ...

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Why Choose Jupiter Rock Drills for Tunneling? By selecting Jupiter Rock Drills, tunneling companies invest in reliable, high-performance drilling equipment designed to meet the unique ...

Specializes in drill and blast works together with tunnelling works in soft ground or rock. ATC's goal is to provide special services to our clients safe and within schedule while maintaining our ...

Intelligent Identification Method of Surrounding Rock Grades of Tunnel Face Based on Drilling Parameters (1. Guizhou Road & Bridge Group Co., Ltd., Guiyang 550000; 2. School of Civil ...

The quality of rock mass is a critical factor in evaluating the stability of surrounding rock and determining excavation and support strategies during tunnel construction. This paper presents ...

Real-Time Tunnel Risk Forecasting Based on Rock Drill Signals During Construction Xingang Zhang, Li-ping Li, Shuai Cheng, Jiquan Zi, Yanhao Chen, Chao Jia, Qinliang Sun

Equipped with a powerful four-wheel drive articulated chassis, the drill rig can flexibly shuttle in narrow roadways and dig in quickly. The high-frequency impact rock drill independently ...

The drilling and blasting method remains widely adopted in tunnel engineering due to its cost-effectiveness, excavation flexibility, and reliable stability control under varying geological ...

6 days ago· Proposed an attention-guided cascade model to predict multiple rock mass quality indicators from tunnel data. Integrated MWD data and construction records to improve ...

Most Chinese rock-tool manufacturers (and those of underground drill rigs) cite links and access to the research and development facilities of leading Chinese Universities that also supply ...



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Web: <https://kwa-andries.co.za>