

on; and, iv) Productivity index. The case study side was an open pit coal mine located in the North-West of Spain. In this paper, the performance of six drilling rig equipment has been ...

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This article aims to provide an overview of research trends and state-of-the-art technologies in face exploration and drilling operations in order ...

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Given its importance as a cost element, increasing bench drilling efficiency and performance in open-pit mines has the potential to generate considerable savings.

Low commodity prices have forced many mining companies to explore new strategies to minimize operating costs. One cost-saving strategy is to increase drilling ...

4. Selection of Drilling Rig Drilling rigs are a piece of equipment that is easily overlooked because perforation costs account for a small proportion ...

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# Open pit mine drilling rig engineering

hole rigs for efficient surface and ...

Abstract Problem statement: Increasing efficiency and performance of bench drilling in open-pit mines has the potential to generate considerable ...

New design DTH drilling rig Using :Before the coal mining, coal mines drilled gas drainage (discharge) holes, grouting fire prevention holes, coal seam water injection holes, anti-burst ...

The findings of this study aim to provide a theoretical foundation for calculating rock-breaking energy consumption and evaluating the rock-breaking efficiency of engineering ...

1. MWYX-425 separated DTH drilling rig is widely used in various open pit mines, quarries and engineering construction sites. Aperture range 110-138mm. The ...

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Introduce stricter supervision to ensure that the suction pipes are always connected to the shroud. Give drill rig operators more advanced training to ensure more effective drilling in order to ...

Abstract and Figures Drilling and blasting are the two most significant operations in open pit mines that play a crucial role in downstream ...

Current control of blasting and drilling in open-pit mines should be based on a two- stage process: first, technical calculations are performed on the parameters of the massive explosion based ...

Give drill rig operators more advanced training to ensure more effective drilling in order to reduce dust levels. Key words: Dust suppression, open pit mining, drilling.

Determining the energy consumption of rock breaking using cone bits (CBs) during open-pit mining is crucial for evaluating drilling efficiency. This study investigates the energy ...

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Central to this process is open pit blasting, a technique that uses carefully calculated explosive charges to fragment and loosen rock. Open-pit ...



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Blasting performance is influenced by mechanical and structural properties of the rock, on one side, and blast design parameters on the other. ...

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Drilling and blasting are the two most significant operations in open pit mines that play a crucial role in downstream stages. While previous research...

A case study is presented for an open-pit lignite mine in Northern Greece, where substantial geotechnical intervention during the operation ...

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