

Mankind is using hammer and chisel for rock-destruction since the stone age until today. This article shows which ideas and inventions were made in the past to put the hammering into an ...

In order to access the precious material laying hidden underground, miners would drill and blast rock faces to get behind it. The Hutchings Museum has a large ...

The use of diesel engines in underground hard-rock mines dates back to the late 1940s. For the first several years, they were used only occasionally, being limited to a few metal mines that ...

Introduced in Bisbee during the late 1950's these quickly became the dominant machine in use underground. Several different versions were used, Ingersoll Rand JR38A Thor 390, Gardner ...

The jackleg drill is one of the pieces of machinery that allowed miners to increase productivity by an unheard of amount during the industrial revolution. It changed the way that mining ...

Tunneling through solid rock may be performed either with a tunneling machine or by use of conventional drilling and blasting. Machine tunneling is comparatively new, having come into ...

Discover what underground drilling rigs are, how they work, key types, and their applications in mining, tunneling, and construction projects.

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Exceptional flexibility and innovation in a common platform Designed for flexibility and productivity, the ZJ21 is a jumbo drill on a common-carrier platform that makes operator training and ...

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 ...

Drill-and-blast excavation for tunneling projects depends on the precise drilling of a collection of holes into



# Underground rock drill in the 1950s

the face and the precise detonation ...

PDF | A presentation given to the U3A Geology Group - Malvern. It provides a history of borehole drilling leading up to the development of ...

By sinking small holes deep into the ground and recovering a cross-section core of the rock that they passed through, these devices provided opportunities for geologists and mining ...

SUPPORT IN UNDERGROUND HARD ROCK MINES Evert Hoek, NSERC Industrial Research Professor, Department of Civil Engineering, University of Toronto, Toronto, Canada.

Air-flushed drilling with top hammers began in the mining industry in Sweden in 1873, while down-the-hole (DTH) drills, again with air flush (and activation) became operational in 1950.

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 ...

Our drilling rigs offer a variety of feed lengths, positioning configurations, rock drills, and optional automated features for underground production drilling and ...

Drilling water wells looks a bit different today. Sophisticated pieces of heavy machinery, such as cable tool drilling machines and rotary drilling ...

In its new application, the Scoot-Crete concept was a simple and effective solution. During the remainder of the 1950s, Getman Brothers developed ...

1. HISTORICAL PERSPECTIVE ON PERCUSSIVE DRILLING METHODS Air-flushed drilling with top hammers began in the mining industry in Sweden in 1873, while down-the-hole (DTH) ...

Multi-boom rigs, like this early example from the 1950s, allowed a tunneling worker to operate several rock drills at the same time. This rig's drills ...

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



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