

Video tutorial of down-the-hole drilling rig excavation slope

What is a down-the-hole drilling method?

The video shows the down-the-hole drilling method for very hard soil or rock. A rotary drilling rig, type LB 20, working with down-the-hole hammer inside a casing. A flushing current conveys the loosened drill cuttings upwards and exits at the upper end of the casing.

How does a down-the-hole drill work?

In down-the-hole drilling a drill rod is fitted with a hammer at its lower end. The hammer, which is mounted on the drill bit, is activated through the addition of compressed air and driven into the ground - simultaneously rotating and impacting. A flushing current collects the loosened drill cuttings and conveys them upwards.

What is a DTH drill rig?

A down-the-hole drill, usually called DTH Drilling Rig, is basically a mini jackhammer screwed on the bottom of a drill string. The speedy hammer activity breaks hard stone into little flakes and dust and can be dismissed evident by the air exhaust in the DTH hammer.

How do drill rigs work?

Conventional drilling rigs use the power of an electric motor or a diesel engine, which is transmitted to the turntable through the operating system to drive the drill bit connected to the drill rod to grind and cut the rock to achieve the purpose of drilling. This kind of drill first solves the ground power.

What is down-the-hole (DTH) drilling?

Down-the-hole (DTH) drilling has made it easier for contractors to drill wells faster and more efficiently, and to transition from dirt boring to rock boring just by adding a compressor and hammer to the drill bit.

How to drill a hole with a drill bit?

Specific operation method: whenever drilling begins, the operator must swing the drilling tools gradually to the bottom of the hole. When the frequency down the hole reaches 700~900 times/min and the pressure of the drilling tool on the drill bit reaches about 3kN, it can be the best impact speed.

Canyon Equipment specializes in rock drilling equipment for all forms of civil construction, quarries, open pit mining and underground exploration. We supply equipment to perform ...

A borehole is a vertical hole that's drilled into the ground for mineral extraction, to install monitoring equipment, and for other purposes. For boreholes to be ...

The down the hole drilling rig stands out with its efficient rock drilling capability, which not only easily handles various rock types and complex working conditions, but also has lower energy ...



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Learn how to install a Self-Drilling Anchor (SDA) system with our guide. Explore its innovative design, key installation steps, and benefits for geotechnical, tunneling, and slope ...

Mastering the operation skills of down-the-hole drilling rigs can help everyone complete construction tasks more safely and efficiently.

Converting an excavator to a down the hole drill rig, a mountain rock drill, a 360 degree rotary rot
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Down The Hole Hammer Drill Rigs for Mining, the ZEGA D470A's diesel-powered, down-the-hole (DTH) drill has excellent mobility, a smaller footprint and the ability to serve multiple sites. It is ...

In down-the-hole drilling a drill rod is fitted with a hammer at its lower end. The hammer, which is mounted on the drill bit, is activated through the addition of ...

Educational video showing step by step, the processes of well drilling, well construction and equipment installation needed to provide a safe home water supply.

Multi Functional Tunnel Down The Hole Drilling Rig Featuring a flexible steering design, it easily adapts to various complex working conditions. The precise positioning system ensures ...

An excavator modular drill rig is a combination of an excavator and a drilling system, designed to perform drilling tasks in a variety of terrains and conditions. It leverages the versatility of an ...

The flushing drill fluid rises inside the drill rod and brings the drill cuttings to the surface. This technique can be used for soil or rock drilling. Down-the-Hole ...

The modified down-the-hole drilling rig is a new type of highly integrated down-the-hole drilling rig. This equipment uses the power of the original excavato...

This technique utilizes a pneumatic or hydraulic-powered drill hammer to drive the drill bit into the material, combining rotational motion with impact force for fast and efficient ...

What Is The Working Principle Of the DTH Drill Equipment? Everyone should know about the down-the-hole drill carriage and even have used it. DTH ...

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Yugong Separated DTH drill rig drilling rig is used for open pit, mine, quarry, construction etc. And this mine drilling rig is with good integrity, environmental protection and energy saving,high ...

DTH drilling, also known as Down-the-Hole drilling, is a method used to drill boreholes into the earth's surface. This technique involves a hammer that is ...

Down-the-hole drilling (DTH) essentially involves a drilling hammer at the bottom of a drill string. It relies on three elements for drilling holes: bit loading ...

Discover the impact of Down the Hole Hammers (DTH hammers) in urban redevelopment projects. Learn how these specialized tools enable ...

Leopard(TM) DI550 diesel-powered, down-the-hole (DTH) drill has enhanced mobility, a smaller footprint and can serve multiple sites. Designed for DTH ...

This high-energy video, immersive at the construction site, showcases a hydraulic down-the-hole drill rig accurately positioning holes and installing anchor bolts during slope anchoring operations ...

The down the hole drilling rig stands out with its efficient rock drilling capability, which not only easily handles various rock types and complex working conditions, but also has ...

Among all the drilling method, Down The Hole(DTH) drilling is being used more and more widely and has very high efficiency for some cases. Here, we will introduce the ...

TAIYE 's DTH rig machine has high reliability, adaptability, and safety for extreme working environments. They are suitable for blasting perforation of soft rocks, medium-hard rocks and ...

Down-the-hole (DTH) drilling is a method used to drill boreholes in hard rock formations for various applications such as mining, construction, and quarrying. This technique involves a ...

Dig a Perimeter Trench: Dig a shallow trench around the perimeter of the excavation site. This trench will collect excess soil and water, preventing them from entering ...

Down-the-Hole (DTH) drilling is a technique used to create deep, precise holes in hard rock and challenging ground conditions. In this method, ...

This is one of the best drilling 101 videos showing you drilling process from the beginning phase to plug and abandonment phase. Not only do you learn about drilling, this video briefly shows the overall field development phase. This video tends to focus on unconventional well. ...



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