



Down-the-hole drilling rig construction video tutorial

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 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.

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.

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 you drill a rock with a DTH hammer?

This method is mainly applied for hard to very hard rock and/or for penetrating large boulders. 1. Setting the DTH hammer with drill rod and casing on the drilling point. 2. Rotary and percussive drilling of the drill string under compressed air supply. 3. After reaching the final depth, unlocking of the drill rod with DTH hammer and pilot bit.

How does a DTH drill work?

DTH equipment consists of a drilling hammer and a piston-powered by compressed air. As the drill string rotates, the drilling hammer strikes down on the rock. The drill bit receives its striking power from a piston inside the hammer that is powered by compressed air.

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Our specialized tools and techniques such as down hole hammers, cluster drills, and reverse circulation keep



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your drill holes stable and efficient. Here's just a ...

The down the hole drilling rig has extraordinary power and is driven by a high torque cycloidal motor, making it easy to drill through various hard rocks. Paired with advanced hydraulic systems ...

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DTH rig machine, down-the-hole drilling rig, is a powerhouse drilling tool designed for deep, accurate, and efficient boring in demanding environments. Ideal for mining exploration, quarry ...

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...

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This animation presented by CGisDS.Animation was created as a part of educational program for teaching staff of 'Rosneft'; Software: Autodesk 3ds max, Vray, Ad...

Our down-the-hole drilling rig features a compact design and lightweight build, making it highly portable and easy to maneuver across various complex construction sites.

The down the hole drilling rig has extraordinary power and is driven by a high torque cycloidal motor, making it easy to drill through various hard rocks. Paired with advanced hydraulic ...

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

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 ...

DTH drilling rig, down the hole drilling machine, for a wide range of applications including mining, construction, and water well drilling

The specialty geotechnical construction processes of grouting, anchoring, micropiling, soil nailing and ground freezing all require the drilling of ...

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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Are you still worried about the high energy consumption and loud noise of the down the hole drilling rig? The electric down the hole drill is more energy-saving and silent with electric drive, ...

The reason customer want to drill the hole is that drill and blast is the most efficient and economic way to break rock instead of excavating it. ...

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DTH drilling is often used in the mining industry (blast hole drilling), on construction sites, drilling water wells, and in the oil and gas industry.

How Borewell Machine DTH (Down The Hole Drilling) Rigs Works - 3D Animation today's modern borewell dth (down the hole) drilling rig machines can drill up to 2500 meters and their compressor ...

When you need depth, power, and durability, our Hydraulic DTH (Down-The-Hole) Drill Rig delivers. Built for hard rock formations, it combines advanced hydraulics with a heavy-duty hammer system to ...

RC, or reverse circulation, drilling is a tried and true drilling method in certain circumstances. Drillers usually use it on large-diameter holes ...

We provide high-quality educational videos in engineering, science and technology. Dive in with us as we explain how things work and discover ...



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