



Video tutorial of excavator with down-the-hole drill

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 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 does DTH drilling work?

With DTH drilling, contractors can change the drill that they were using for the current directional bore to a rock drill when they encounter rock by connecting the drill with a compressor and a steerable hammer. Well drilling also needed changes to be made to rotary drilling when the well needed to take a turn.

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 long did it take to drill a 12,000 ft hole?

The original estimate for completion of a 12,000-foot hole was 30 days using the conventional rotary technique, which was reduced to 13 days using the DTH method. Before DTH was used, drillers would typically case the vertical portion of the well and convert to rotary drilling to drill at a tangent.

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 ...

Step 1 - Creating the Pilot Hole The horizontal directional drill punctures a small diameter hole to create an underground cavity utilizing a drill bit and pipe. Drilling fluid is run through the drill ...

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

We have seen down-the-hole products being used in different applications all over the world. We can assist, not only with the complete drill string, but also with ...

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Once Drill is attached to excavator, to use drill Use UP or Down Arrows on Keyboard to enable drill movement and on Right hand side of drill shows Depth an...

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Rockmore International manufactures the finest and most efficient Down-the-Hole (DTH) hammers and bits for the mining, construction & water well industries.

Step 1 - Creating the Pilot Hole The horizontal directional drill punctures a small diameter hole to create an underground cavity utilizing a drill bit and pipe. ...

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REV Drill Model 30HDT Mounted on a Doosan 255 with a Down Hole Hammer Package.
#DownHoleHammer #REVDrill #REVDrillModel30HDT #Revolutionary #Economical #Versatile

CENTER ROCK products boast a formidable range of down-the-hole (DTH) hammers, presenting a suite of drills and downhole bits spanning 3.5" - 48" ...



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The down-the-hole hammer drilling process begins with the hammer being located behind the drill bit, which is then connected to the end of the drill ...

A Down-the-Hole (DTH) hammer is a specialized drilling tool renowned for its exceptional efficiency and precision in rock drilling operations. It function on a ...

When it comes to drilling techniques, down the hole drilling has been gaining popularity for its efficiency and precision. This method involves using a ...

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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 ...

A Down-the-Hole (DTH) hammer is a drilling tool that operates at the bottom of a drill string, using compressed air to power a piston and deliver high-impact energy, enabling ...

The MR-5 ID is a hydraulic drilling unit for using 2? or 3? down-the-hole hammer, or rock drill weighing 58 kg with separate right and left rotation, provided with a hydraulic power pack ...

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Looking to dig a hole with a drill? Check out our ultimate guide that provides step-by-step instructions on how to dig a hole using a drill. Learn ...

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