

What is a down-the-hole drill?

A down-the-hole drill, usually called DTH by most professionals, is basically a jackhammer screwed on the bottom of a drill string. The fast hammer action breaks hard rock into small cuttings and dust that are evacuated by a fluid (air, water or drilling mud). The DTH hammer is one of the fastest ways to drill hard rock.

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 are the advantages of using down-the-hole drilling tools?

The advantages of using down-the-hole drilling tools are numerous. They offer faster penetration rates and lower energy consumption compared to other methods, making them ideal for large-scale projects. Additionally, DTH drills are versatile and can be used in a wide range of geological formations, from soft soil to hard rock.

Why is a drilling system not used on every drill hole?

The system is operated by a geophysical contractor and the procedure requires cooperation from the drill operators because some of the drilling equipment usually stays in the hole to keep it open. This adds to the expense of doing downhole surveys, which is why they are not typically used on every drill hole.

How can geophysical data be collected from a drill hole?

A string of different probes can be connected to collect more than one type of geophysical information. This data not only provides information about the rocks directly intersected by the drill but can shed light on the rocks up to a few hundred meters around the hole, potentially identifying ore zones that were narrowly missed by the drill hole.

What is a downhole geophysical survey?

Schematic drawing of a down-hole geophysical survey (Image: USGS) Downhole, or borehole, geophysical surveys measure the physical properties of rocks along a subsurface drill hole. Explorers use drill holes to collect core or rock chips, to 'map' the rock types down the hole and often send rock chip samples for geochemical analysis.

The main determinant of the DTH drill rod count is depth of drilling. For instance, the number of DTH drill rods needed could be minimal if your only demand is to dig a tens of ...

One of the most crucial components in the system is the down hole hammer. It operates seamlessly with the drill rig, channeling the air or fluid down through the drill string. The down ...



# Down-the-hole drill knowledge database

Technical features and operational concept of down the hole hammer drilling Hole hammer drilling works technically as pressurized air is sent from a pipeline to the bottom of the drill bit to drive ...

Do you really know DTH Drill Bit? How to Select the Right DTH Drill Bit? DTH drill bit, full name - down the hole bit, is a rock drilling tool that is ...

Containing Potentially Hazardous Materials Procedure 20 Standard Backups Of The Computerised Drill Hole Database 61 Mineral Exploration - Drilling, Sampling & Data ...

Figure 1 A drilling rig used for an oil well; note the drill pipe alongside the derrick. In order for a lease pumper to be able to identify and/or remedy a situation, they must have some ...

Drillhole Database Traditionally, downhole or drillhole data refers to data contained in four types of file: Collar, Survey, Event and Interval. These are the files commonly used by the Drillhole ...

Powerful and Reliable Down The Hole (DTH) Drilling Solutions Drill King specializes in manufacturing top-quality drilling equipments and drilling tools, ...

The first part of this internship was taking drill hole logs and making them into points in ArcGIS Pro that contain all relevant drill hole information for professional and ...

Types and Applications of Down-the-Hole (DTH) Drill Bits The energy produced by the impactor is transferred to the bit to break the rock, meaning the rock is subject to both ...

Discover the power of down the hole drilling technology featuring superior performance in hard rock, enhanced accuracy, and advanced automation capabilities for efficient and precise ...

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 ...

What Are the Key Applications of Low-Pressure DTH Drill Bits? Low-pressure DTH (Down-the-Hole) drill bits are essential tools across various industries including water well drilling, shallow ...

DTH hammer is used for drilling holes through a wide range of rock types, the variety of which continues to extend well beyond the original conception of early blast hole drilling. Down-the ...

Down-the-hole, or DTH drilling allows for reaching greater depths with the hammer located right behind the drill bit. Robit is a leader in DTH products.

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 drill knowledge database

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

The Collar file also contains the Hole ID, Total Depth, and optionally, the Azimuth and Inclination of the hole at the collar. If collar survey information is not provided in the Collar file or a Survey ...

The data contained in these files can be defined as part of a Drillhole Database (a database file with a .DHDB extension). The data contained in Collar/Survey (or Trench) files can be added ...

A Down-The-Hole (DTH) hammer is a versatile and powerful drilling tool used for drilling holes in hard rock formations. It operates on the principle of percussive drilling, where repeated ...

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 ...

Discover the advanced capabilities of down the hole drill technology, offering superior penetration rates, efficient debris removal, and versatile application range for optimal drilling performance ...

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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 ...

Understanding Down the Hole (DTH) Drilling DTH drilling involves a hammer drill that delivers powerful blows directly to the bit, allowing for efficient rock ...

For efficient Down-The-Hole (DTH) drilling, you need high performing drilling tools. Tools that increase your productivity and sustainability, while reducing your total operation cost and ...

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. During ...

Understanding Down the Hole (DTH) Drilling DTH drilling involves a hammer drill that delivers powerful blows directly to the bit, allowing for efficient rock penetration. This method is ...

A &quot;down the hole&quot; (DTH) drill is a piece of drilling equipment used in mining, construction, and exploration activities. It is specifically designed for drilling large-diameter holes in hard rock ...



## Down-the-hole drill knowledge database

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