



# How to hoist a down-the-hole drill rig

What is a hoisting system on a drilling rig?

The hoisting system on a drilling rig does the heavy lifting on the rig. It is used to raise, lower, and suspend the drill string and lift casing and tubing for installation into the well. In the detailed rig schematic (Figure 9.02b) the hoisting system is comprised of:

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 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.

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 rotary drilling rig work?

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. If you have any further questions, please contact our local sales or service team.

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 located behind the drill bit and is ...

PDF | On Oct 21, 2023, Dzevad Hadzihafizovic published Drilling Rig components (Illustrated Glossary).pdf | Find, read and cite all the research you need on ResearchGate

The DM45/50 rotary blasthole drill rig along with their big brother, the DML, are some of the most popular



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drills in the world for good reason. All three models have proven themselves in almost ...

Down-the-hole D470D drill rig: drills 138-165mm holes up to 30m deep, with a Cummins engine, heavy-duty boom, and 21m<sup>3</sup>/min compressor. 2000-hour/1 ...

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2000m Diamond Core Drilling Rig Introduction: Hardrock GC2000 core drilling rig is for deep hole diamond drilling machine. It can drill for 2000m with BQ ...

## HAMMERS

With the RH-series of DTH hammers, we offer one of the world's most complete down-the-hole drilling solutions. The offering covers hammer sizes from 3 to 8 inches; ...

The DML rotary blasthole drill rig is a crawler-mounted, hydraulic tophead-drive rig that's suitable for a variety of multi-pass rotary and DTH drilling applications. It's designed specifically for ...

When choosing a down-the-hole (DTH) drilling rig, you need to consider various factors. This article will guide you on how to choose the right down-the-hole (DTH) drill from three important ...

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

Meet the Rotating & Pipehandling System Drilling wells requires the drilling rig to handle long, heavy strings of pipe and sophisticated electronic tools. It's quite common for the hoisting ...

Down-the-Hole (DTH) drilling rigs are a type of drilling equipment used in various industries, including mining, construction, water well drilling, and exploration.

Onshore, day rates are generally determined by the rated horsepower of a rig, which also dictates how deep the rig can drill. Depth also translates into rig ...

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The essence of down the hole (DTH) drilling machine is to make the impactor dive into the hole during the rock drilling process to reduce the energy loss caused by the impact ...

Introduction Drilling structures are a very important part of the drilling rig; however, these structures are often overlooked because of their static nature. Many activities take place on ...

Floorhands often hoist and move drill pipe and other tools with a small-diameter wire rope on the rig's air hoist. Offshore, crewmembers rig wire-rope slings and lifting lines to cranes, which ...

Understanding the equipment and tools used in drilling rigs is essential for petroleum engineers and drilling engineers alike. These ...

A chain-type hoist pull down system for a large blast hole drilling rig is provided which includes an auxiliary tensioning mechanism to increase the tension of the pull down chain during selected ...

This is the Varco power-sub drilling system, designed to rotate the drill string by means of an electric motor and gear drive, suspended in the derrick, the power-sub drilling ...

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After spudding in, use the following steps to finish the operation: Step 1. Makeup the bit on a drill collar. Suspend the collar and bit in the ...

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



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