



# Video explanation of large hole drilling with down-the-hole drill

What is a down the hole drill?

A "down the hole" (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 formations.

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.

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.

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.

The DCRL130 - Environmentally friendly and compliant down-the-hole (DTH) rock drill with market-specific emission regulations. These drills have been ...

Hearn Machine is the leader in Heavy Duty portable drilling solutions for steel fabricators. Hearn Machine drilling machines that can drill holes from 1/2" up to 2 5/8". Hearn can also provide ...

Drill Bit Types for Drilling Large Holes in Wood As a newbie in woodworking, you will find it a no-brainer when choosing drill bits for drilling various types of small holes. But ...



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Drilling large diameter holes requires specialized tools and techniques that go beyond standard drill bits. Whether you're working with wood, metal, or other materials, creating large holes ...

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Well drilling is an indispensable process for tapping into subterranean water and resources. Regarding the type of drilling methods ...

**ABSTRACT** Since their first production application in Sweden in 1995, water-powered, down-the-hole hammers (WDTH) have been used throughout the world in many different drilling ...

**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" ...

Drilling large holes in wood can seem daunting, but with the right tools and techniques, it becomes a manageable task. Whether you're creating a mortise for a joint, ...

The purpose of a down-the-hole drill rig is to drill large-diameter holes downwards, consisting of a jackhammer screwed to the bottom of a drill string. Like other drill rigs, the DTH breaks up the ...

Watch this step-by-step DHD video full of tips on proper drilling techniques, best practices for deep hole drilling speeds and feeds, and other valuable safety guidelines for your machine shop.

You must repeat this process until you reach a suitable depth for the foundation. The type of deep foundation drilling method you choose depends on the ...

Learn how to efficiently drill large holes in concrete with this comprehensive DIY guide! From selecting the right tools to safety precautions, drilling techniques, depth, and ...

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 ...

**Video Transcript** The differences between the air rotary system and this drilling system are primarily the cutting action and the resulting cuttings, as shown. The down- the-hole hammer ...

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In this article we will discuss about the types of drilling methods used in mining. The types are: 1. Percussive Drilling 2. Rotary Drilling. Method # 1. Percussive Drilling: In this method which is ...

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 ...

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

Most experienced woodworkers will tell you that drilling perfectly vertical holes will be challenging, especially if you don't have the right equipment.

What is Drilling? The process of drilling involves creating cylindrical holes on a workpiece with a predetermined diameter and depth. It is ...

This detailed 3D animation by Industrial3D visualizes the inner workings of a typical downhole drilling or oilfield drilling operation, from surface equipment...

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 ...

But what exactly is DTH drilling? How does it differ from rotary drilling? And what are the unique features of down the hole hammers and bits? In this article, ...

Discover the benefits of large-diameter DTH hammer drilling technology. Achieve efficient, precise, and sustainable deep hole drilling for ...

Learn the essential tips for drilling big holes with precision and safety in mind. Discover the right drill, bit, and techniques to master the art of creating large holes effortlessly. ...

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 ...

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. ...

The purpose of this brochure is to assist our customers in selecting the most suitable Rock Drilling Tools for their specific demand. Most of the equipment displayed in this brochure will work for ...



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Ever found yourself in a DIY project, only to realize you need to drill and thread a hole, but you're not quite sure how to go about it? Imagine the satisfaction of effortlessly ...

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

DTH is short for "down-the-hole". Since the DTH method was originally developed to drill large-diameter holes downwards in surface-drilling applications, its name originated from the fact ...

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