



How to connect the connecting rod of down-the-hole drilling rig

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 rock drill work?

The front end is directly connected to the drill bit and the back end is connected to the drill rod. When rock drilling, the impactor dives into the hole, and the piston (hammer) in the impactor reciprocates to strike the shank through the gas distribution device (valve) so that the drill bit impacts the rock at the bottom of the hole.

What is a DTH drilling rig?

DTH drilling rig is a percussive rotary drilling rig. Its internal structure is different from general rock drilling rigs. Its gas distribution and piston reciprocating mechanism are independent. The front end is directly connected to the drill bit and the back end is connected to the drill rod.

What is rod connection & removal?

Rod connection and removal are crucial aspects of down-the-hole drill operations, directly impacting overall work efficiency and the service life of rock drilling tools.

How do you loosen a drill rod?

Loosening stage: after clamping the two drill rods, drive the unloading rod cylinder to rotate the upper and lower clamping cylinders relative to each other by a certain angle to loosen the threaded connection between the two drill rods.

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

We'll explain how drill pipes function, their various types and sizes, and their role in connecting the drilling rig to the drill bit. You'll get insights into ...

Connecting R25 drill rods safely and effectively is essential for successful drilling operations. By



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understanding the design, preparing adequately, following a step-by-step connection process, ...

Mastering the operation skills of down-the-hole drilling rigs can help everyone complete construction tasks more safely and efficiently.

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. ...

Modern down the hole drilling systems incorporate state-of-the-art automation and monitoring technologies that significantly enhance operational efficiency and safety. These advanced ...

Drilling pipe is trailing with screw thread for connecting the drilling rig located at the bottom of surface drilling equipment and mill equipment or bottom outlet device.

Explore the various types of drill rods and their key differences. This guide covers water well, mining, exploration, and directional drilling rods, ...

Maintaining the hydraulic system of a crawler down-the-hole drilling rig is essential for ensuring its proper operation and longevity. By following the tips outlined in this blog post, you can keep ...

Drill pipe threads and connectors are an important component of a drilling rig, they play a crucial role in transferring drilling torque to the drill bit. Here are a number of different ...

Tripping The Drilling Supervisor will be on the rig floor from start of the trip out of hole until the string is in cased hole. Prior to starting the trip (during circulating bottoms up) check the ...

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Down The Hole (DTH) Drill Rods available in various threads, lengths, and diameters. Speak to our drilling experts for the perfect DTH rods for your rig.

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It summarizes proven drilling techniques and technical data that will enable the drilling rig staff to drill a usable well at the lowest possible cost. It is designed in a size to allow it to be carried in ...

Unlike the connecting rod drilling of the rock drill, the energy loss of the down-the-hole drill increases with the increase of the drill rod joints. Because the drill rod of the down-the-hole ...



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> Down the Hole (DTH) Drill Rods & Drill Pipes Down the Hole (DTH) Drill Rods & Drill Pipes North Star manufactures a complete range of drill rod and drill pipes for DTH and Rotary ...

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 ...

When connections tighten on the threads, you can help stop leaking by wrapping the threads with plumber's tape. Garden hoses tighten ...

Triple H DTH This DTH unit has a unique rock drilling capability and is very popular in South Africa. This down-the-hole (DTH) drilling rig is designed for ...

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The Drawworks is one of the most important components of the drilling rig (types of drilling rigs). The unit supplies the hoisting power, the ...

Down the hole drilling rig is to make the impactor dive into the hole in the process of rock drilling to reduce the energy loss caused by the transmission of the ...

This handbook was prepared by Wellbore Integrity Solutions DRILCO engineers to help rig personnel with technical questions, provide recommendations and help the rig crew to ...

The down-the-hole drilling machine is suitable for large-diameter blast hole rock drilling operations in small and medium-sized mines, road construction, water ...

As the hole can cave in, the weight of the rig must not be loaded too near the mouth of the hole. Instead, it should be distributed to the sides of the hole (B).

Core drilling often grinds away materials when the hole is being drilled to get intact sample via rotary drilling by core drill rigs. Rotary drilling ...

The DTH drilling rig (down-the-hole drilling machine) is a kind of drilling machine, which is mainly used for drilling in rock formations. The down-the-hole drilling rig uses the impactor and the ...

List of components of oil drilling rigs This article lists the main components of a petroleum onshore drilling rig. Offshore drilling rigs have similar elements, but are configured with a number of ...



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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 ...

Once the rig crew is ready, the driller stops the rotary, picks up off bottom to expose a threaded connection below the kelly and turns the pumps off. The crew sets the slips to grip the ...

Connecting drill pipes correctly is crucial for the efficiency, safety, and success of DTH drilling operations. As a DTH drilling supplier, I have extensive experience in this field ...

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