

# Replacing the drill rod on a down-the-hole drill rig

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.

How to install a drill rod unloader?

Preparation stage: first, open the clamps above the rod unloader seat. Then, position the drill rod to be connected to the rod unloader, ensuring that the upper and lower drill rods and the swivel head main shaft are all aligned concentrically with the drill rod to be connected.

Which rigs use North Star DTH drill pipes?

Our DTH drill pipes are used worldwide with Sandvik, Atlas Copco, XCMG and many other popular brands of DTH drilling rig. For full specifications and a rig-by-rig guide to North Star DTH drill rods, please download the Mining & Construction brochure or click right away on the Specification Tables. Reliable and wear-resistant.

What is a down-the-hole drill?

In mining, tunneling, and geotechnical engineering, down-the-hole drills are core equipment, and their operating efficiency and stability are directly related to project progress and cost control.

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.

Why are rock drilling tools difficult to operate?

Fragile rock drilling tools: due to the manual operation's error of manual operation, the push speed is difficult to control accurately, which causes the thread of the rock drilling tools to be damaged due to the rigid transmission force. Inefficiency: complex operation steps and uncertainty of manual control affect the operation efficiency.

Drilling parts Powerco supplies drill rig OEM and After-market parts to the global quarries and mining industry. A wide range of drilling consumables for DTH or Drifter rigs such as: Button ...

?Install the drill rod and drill bit?: Insert the drill rod into the main shaft of the drilling rig to ensure a firm connection; install the drill bit on the front end of the drill rod and tighten the clamp.

Reverse Circulation drilling utilizes dual wall drill rods made up of an outer rod and an inner tube. The inner



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tube is designed to provide a continuous path for the drill cutting to pass from the bit ...

Down-the-hole drill DTH drill tool operated with drilling mud (Drillstar MUDHammer) A down-the-hole drill, usually called DTH by most professionals, is basically a jackhammer screwed on the ...

By Meta Drill August 07, 2025 Recover stuck drill rods with confidence using MetaDrill's advanced drilling rig tools and equipment. Built for performance in geotechnical and exploration drilling, ...

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

North Star manufactures a complete range of drill rod and drill pipes for DTH and Rotary drilling. Our DTH drill pipes are used worldwide with Sandvik, Atlas Copco, XCMG and many other ...

The DTH hammer is positioned at the end of the drill string, it is screwed to the drill rod which delivers a drilling fluid powering the hammer mechanism. The ...

Introduction General info The down-the-hole hammer is a percussion hammer drill. The hammer works down the hole at the end of the drill string, where the impact piston strikes the drill bit ...

Discover how the right down-the-hole (DTH) drill rig can boost your mining and construction efficiency. Learn about rig types, key features, and ...

In modern construction engineering, drilling is an indispensable work. The rotary drilling rig and the down-the-hole drill are the best perforating equipment. Rotary drilling rigs ...

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 eck out the range of DTH Drill Rods ...

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

What Is DTH Drilling Rig? The DTH drilling rig (down-the-hole drilling machine) is a kind of drilling machine, which is mainly used for drilling in rock formations. ...

&gt; 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 ...

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 ...



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Regular maintenance of an integrated down-the-hole drilling rig is crucial to ensure reliable and efficient operation. By following the step-by-step maintenance procedure outlined above, ...

Common mistakes such as mixing rods from different manufacturers and choosing the wrong drill rod should be put into consideration in order to reduce the cost of maintaining the tools. Fixing ...

The integrated down-the-hole drilling rig, also known as an all-in-one drilling rig, is a versatile and efficient piece of equipment used for drilling holes in various types of terrain. To ensure its ...

**Hazard & Potential Incident Checklist** The hazards listed below have been identified as having the potential to cause loss while this procedure is being performed.

**Application of this Standard Operating Procedure** This procedure is to be used when:- Removing and adding drill rod during RC drilling operations. od contained inside the large one. The high ...

The KT11 integrated down the hole drill rig is driven by a high power Cummins China stage III diesel engine with a two-terminal output that can drive the ...

Drill rod sizes for Down-The-Hole (DTH) drilling vary depending on the application, drilling depth, rock hardness, and the type of DTH hammer ...

**How to Remove Drill Rod From The DTH- HDD Drilling UBW Sections Pipe Rods- JGS TOM WORKSHOP** What are the four main types of drill rigs? Depending on the terrain, you can choose between different ...

In modern construction engineering, drilling is an indispensable work. The rotary drilling rig and the down-the-hole drill are the best perforating ...

The document provides technical specifications for the Leopard DI550 T4 surface down-the-hole drill. Key details include that it is a diesel powered, self ...

With percussion drilling, the bit is driven into the rock by either a top hammer, in which case the drill rods transmit the impact of a blow at the surface, or a "down the hole drill" in which the ...

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