

# Down-the-hole drill rig unloading drill rod operation video

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 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.

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 are the disadvantages of a DTH drilling rig?

Conventional drilling rigs have cumbersome groundwork in bedrock drilling, frequent lifting and lowering of the drill, large labor consumption, slow speed, and comprehensive calculation of capital consumption, and these disadvantages are difficult to change. DTH drilling rigs mainly use compressed air.

How do drill rigs work?

Conventional drilling rigs use the power of an electric motor or a diesel engine, which is transmitted to the turntable through the operating system to drive the drill bit connected to the drill rod to grind and cut the rock to achieve the purpose of drilling. This kind of drill first solves the ground power.

How to drill a hole with a drill bit?

Specific operation method: whenever drilling begins, the operator must swing the drilling tools gradually to the bottom of the hole. When the frequency down the hole reaches 700~900 times/min and the pressure of the drilling tool on the drill bit reaches about 3kN, it can be the best impact speed.

The operation mode of connecting and unloading rods directly affects the overall work efficiency and the service life of rock drilling tools.

The KT25 Integrated down the hole drill rig for open use is a new drilling device developed by Kaishan Group after years of development and production of down the hole drill rig to meet the ...

Connecting and unloading rod is one of the important processes in the drilling process of submerged-hole drilling rig. The unloading rod device ...



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DTH rig machine, down-the-hole drilling rig, is a powerhouse drilling tool designed for deep, accurate, and efficient boring in demanding environments. Ideal for mining exploration, quarry ...

The drilling rig can use compressed air reverse circulation down-the-hole drilling in various strata. The drilling rig's drilling rig lifting, drilling rig compensation, drill rod unloading, rotation and ...

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 ...

DFQ series Pneumatic DTh Drilling Rig -unloading drill rods100m-400m Down-the-Hole water well drilling rig for your choice.Zhengzhou Defy Mechanical& Electric...

The ZT10 integrated down the hole drill rig for open use is an advanced piece of drilling equipment developed by Kaishan Group to meet the needs of large ...

In all systems it is necessary that the drill rig and rod handling system have the ability to make-up and break-out connections between ...

Automatic rod changer device of split hydraulic surface down-the-hole drilling rig The drill rod storage device can accommodate five drill rods, which can ...

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. ...

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

The KT20S Integrated Dual-power Down the hole Drill Rig for Open Use is a large drilling machine suitable for heavy duty operations.

Safe Drill Pipe Handling Guide To load: Inspect threads for damage, align pipe with rig floor, use tongs to secure. Lift slowly, engage threads smoothly, torque to specs. To unload: Reverse ...

The hydraulic mechanism is used to dismount the drilling rod, the floating joint protects the thread of the drilling rod, and the automatic unloading rod device to relieve labor intensity. The air ...



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The down-the-hole drilling rig uses the impactor and the DTH drill bits submerged into the bottom of the hole to impact and crush the rock. Therefore, it is called ...

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Rotary Percussive The drill bit (carbide insert, cross or button) is both percussed and rotated. In general, the percussive energy determines the penetration rate. With a top ...

How Borewell Machine DTH (Down The Hole Drilling) Rigs Works - 3D Animation today's modern borewell dth ( down the hole) drilling rig machines can drill up to 2500 meters and their compressor ...

The KT20 integrated down the hole drill rig for open use is a new drilling device developed by our company after years of development and production of ...

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

The drilling rig is equipped with automatic rod loading and unloading system and drill pipe lubrication module, which can realize single-person operation and ...

The KT15 integrated down the hole drill rig for open use is a new drilling device developed by our company after years of development and production of ...

The HFKT7D integrated down the hole drill rig for open use is an advanced drilling device integrating the down the hole drilling system and screw air compressor system, It is capable of ...

The DTH drilling rig is a semi-hydraulic vehicle and the basic functions are controlled by the hydraulic system. Therefore, the operation of the DTH drilling rig plays a ...

Currently, traditional large-diameter deep-hole drilling rigs have thick and heavy drill rods and a large number of connecting rods, making it difficult to achieve mechanized loading and ...

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 ...

ZEGA TOP-HAMMER AND DOWN-THE-HOLE DRILL RIGS Introducing the ZEGA Drill Rig, the pinnacle of efficiency and precision in drilling technology. ...

With the rapid development of social economy, the demand for mineral resources has increased year by year,



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so mining facilities have also received widespread ...

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. Blast hole drilling equipment ...

When drilling, the hole is first drilled with impact energy, thrust and low speed to facilitate drill bit positioning. Drilling about 10 cm affects the entire throttle and appropriately increases ...

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