



# Integrated down-the-hole drilling rig tutorial

What is a down the hole drilling rig?

Down the hole drilling rig is an impact rotary drilling rig. Its internal structure is different from that of a general rock drill.

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 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 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.

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.

The Integrated DTH drill rig ZEGA D435 can drill up to 28m deep with holes from 90 - 138mm. Ideal for various projects, it offers stable performance and is a reliable choice for DTH drilling.

Drill rig and air compressor are integrated on the same board reducing the energy losing and raising the work efficiency and mobility. Integrated control platform with wise layout bring about ...

Our KT15 integrated surface DTH drilling rig is designed by drawing inspiration from previous models. It can satisfy most needs of operators by providing a smooth experience of rig-drilling.



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KT12 Integrated Down the hole Drill Rig The KT12 integrated down the hole drill rig is driven by a Cummins China stage III diesel engine and the two-terminal output can drive the screw ...

The KT15C integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine,stonework blast holes and pre-splitting holes. It ...

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 ...

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?????? Integrated Down The Hole Drill Rigs ??,??Compact of bench blast size but ...

KT9C Integrated DTH Drilling Rig The KT9C integrated open-pit down-the-hole drilling rig is an advanced drilling equipment designed for blasting and pre ...

Integrated Down The Hole Drill Rigs D440+ compact size but powerful drilling capability. Applicable in surface quarry mining and varieties of bench blast ...

This integrated down the hole drill rig combines air compressor and drilling functions, perfect for DTH boring machine operations in mining.

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, ...

When it comes to drilling in demanding geological conditions, the integrated hydraulic DTH (Down-the-Hole) drilling rig stands out as an essential piece of equipment.

KS188 Integrated Down-the-hole Drill Rig Is Suitable for Open-pit Coal Mines, Metal Mines, Cement Mines, Etc. Drilling Diameter:90mm-150mm...more

Multifunctional Drilling Rig - High Power, High Efficiency, Maximum Versatility Multifunctional Drilling Rig is a high-performance, multi-purpose machine designed to meet demanding drilling ...



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Products Description The KT15 integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast holes and pre ...

Integrated Down The Hole Drill Rigs D440+ compact size but powerful drilling capability. Applicable in surface quarry mining and varieties of bench blast hole drilling for mid soft and ...

The KT8C integrated down the hole drill rig is an efficient, energy-saving advanced drilling device, oriented to the needs of medium and small open ...

The KT5C 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 ...

The KT9D integrated down the hole drill rig rock drilling rig The KT9D integrated down the hole drill rig for open use is an advanced drilling device integrating ...

The ZT10 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 ...

It combines the power of a DTH hammer with a fully integrated rig system, offering high penetration rates, accuracy, and operational flexibility. It is widely ...

A high air pressure screw rod with our intellectual property is mounted on the machine. KT5C Integrated Down the hole Drill Rig for Open Use The KT5C ...

The KT15C integrated down the hole drill rig for open use can drilling vertical, inclined and horizontal holes, mainly used for open-pit mine, stonework blast ...

Kaishan KT7D integrated open-pit down-the-hole drilling rig is an advanced drilling equipment that integrates the down-the-hole drilling system and the screw air compression system. It is mainly ...

The KT9D integrated down the hole drill rig for open use is an advanced drilling device integrating the hole drilling system and screw air compressor system. It ...

The integrated down the hole drill rig is a self-propelled rock drilling equipment that incorporates the power system (usually a diesel engine and an air ...

The split down-the-hole drill rig, with its split design, is convenient and fast to move, can quickly respond to drilling needs in different areas, and improve construction efficiency.

KT7D/KG5H Drilling Rig Automatic Rod Loading and Unloading Tutorial 3-3 Kaishan Drilling Rig 3.07K



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The D470A down-the-hole open pit drill rig, crafted for challenging conditions and strenuous tasks, is ideal for extensive rock drilling, excelling in everything from pre-split to ...

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