



# Tutorial on converting a small excavator into a down-the-hole drill

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 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.

How does DTH drilling work?

With DTH drilling, contractors can change the drill that they were using for the current directional bore to a rock drill when they encounter rock by connecting the drill with a compressor and a steerable hammer. Well drilling also needed changes to be made to rotary drilling when the well needed to take a turn.

How fast can you drill a well with DTH?

With DTH, it was now possible to turn 2-4 degree curves and drill the well's tangent up to 30 degrees or greater averaging 300 feet per hour, where rotary drilling would progress 30-40 feet per hour.

What is a DTH directional drill?

The DTH system is easy and quick to adapt to a directional drill and is considered one of the best and most effective methods to drill high-quality holes that are stable and straight. It can be done on both hard and soft rock and is extensively used in the construction, oil and gas, and water well industries.

How does a drill hammer work?

As the drill string rotates, the drilling hammer strikes down on the rock. The drill bit receives its striking power from a piston inside the hammer that is powered by compressed air. This action along with the rotational movement of the drill string crushes the rock efficiently.

1. Cost-Effective Solution: One of the main benefits of converting an excavator into a DTH drill is the significant cost savings. Instead of investing in a separate drilling rig, companies can ...

Our specialized tools and techniques such as down hole hammers, cluster drills, and reverse circulation keep your drill holes stable and efficient. Here's just a ...

A common question DIY-ers ask when it comes to excavators is how to get a mini excavator into a backyard. Mini excavators with treads are ...



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Converting an excavator to a down the hole drill rig, a mountain rock drill, a 360 degree rotary rot  
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Excavator converted to drilling down the hole drill, excavation converted to rock drill, photovoltaic  
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The Excavator is a 7x7 machine needed for the extraction of Bedrock Ore. To use the drill, you must first locate the Bedrock Ore of the desired material. you can then place the machine at ...

I personally prefer to keep my CO2 tank outside the kegerator and the best place to drill a 1? hole is through the top left corner to avoid hitting any coolant lines. Drill from the ...

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The drilling of power pole foundations is usually carried out with an auger in combination with an excavator, which can efficiently penetrate all types of so...

RH560 Down-the-hole hammers RH560 DTH hammer is a robust, reliable addition to surface mining and long-haul production drilling operations. It increases speed and lowers drilling cost ...

In this article, we teach you step-by-step how to operate an excavator safely and efficiently. By the end of this article, you will have a good ...

An excavator is a large piece of machinery used to dig dirt and debris out of construction sites. Using one on a construction site requires operator training and a state ...

In this article, we teach you step-by-step how to operate an excavator safely and efficiently. By the end of this article, you will have a good understanding of the track hoe's ...

I would start on one end of the &quot;trench&quot; and dig down 3-4" and make a bit of a ramp at one end into the &quot;trench&quot; so you can climb back out. With 8 feet of width you would be able ...

Drilling is about way more than making a hole--it's about precision, expertise, and creating the right solution for the job. Whether you need a short or ...

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 ...

The TEI Rock Drill Excavator Attachment is ideal for use in difficult low, high and confined environments. Its



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360°; swivel capabilities offer an extreme range of ...

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 ...

The LoDril is a high performance drilling attachment which will turn your excavator into one of the most versatile and profitable machines in your fleet.

An excavator modular drill rig is a combination of an excavator and a drilling system, designed to perform drilling tasks in a variety of terrains and conditions. It leverages the versatility of an ...

The next factor to consider when choosing a drill bit for asphalt is the size of hole you need to drilled. Asphalt bits come in a variety of sizes ranging from small pilot holes up to ...

What To Know Understanding the water table depth in your area is crucial to determine the feasibility of drilling a well. The well casing is a protective pipe that lines the ...

Excavator converted to down the hole drill, excavation converted to hydraulic rock drill, mining rock  
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These aren't your dad's Minecraft holes - there's never been a better way to dig straight down in Minecraft. This automatic digging machine, using the Minecraft Create Mod, will gather resources ...

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excavators into powerful drilling machines, companies can leverage existing equipment for more versatile and cost-effective operations. Here are the key characteristics that make excavator ...

Provide users with ideal downhole solutions Excavator turns into a drilling rig in seconds to expand mechanical applications: Through simple modification, a conventional ...



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