

# Operation of the driver who converted the excavator to a down-the-hole drill

Why is drilling a pilot hole important?

Drilling the pilot hole is one of the most critical aspects of the HDD process. During pilot hole operations the risk of hydraulic fracture and inadvertent returns (frac outs) is highest because of the small annulus between the drill pipe and hole wall.

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.

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 does a pilot hole work?

In general terms, the pilot hole is advanced with a Bottom Hole Assembly (BHA) consisting of a drill bit attached to either a jetting assembly (soil) or a mud motor (rock). The jetting assembly or mud motor is attached to a non-magnetic drill collar (monel) that houses the downhole steering probe.

What causes a failed drill?

Poor drilling fluid properties can in some cases lead to a failed drill. Where HDD profiles pass through high plasticity clay soils, the soil cuttings can tend to stick together forming large particles that continue to grow until they eventually plug the hole and cause drilling fluid returns to cease.

How does a jack hammer drill work?

It describes the working principles of jack hammer drills, which use compressed air to power a hammer that rapidly pounds a drill bit into rock. It also discusses down-the-hole drilling where the hammer is located directly behind the drill bit to allow for deeper percussion drilling without energy loss through joints.

Down-the-hole (DTH) drilling is a method used to drill boreholes in hard rock formations for various applications such as mining, construction, and quarrying. This technique involves a ...

Is training necessary to operate an excavator? Yes, to ensure safety while operating an excavator, proper training is important. What should be done to the excavator once the ...

Close-up to the driver's extremely risky excavator down screen #tractortruck #haivanpass



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#truckchallenge...more Lowering the bulldozer from the tractor: One mistake is paying a high ...

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Here we explore how-to guides on operating an excavator safely, efficiently, and with a touch of on-site experience. Below is a series of guides ...

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

We're professional down the hole hammer drill rigs for mining (mines) manufacturers and suppliers in China, specialized in providing high quality products and service. We warmly ...

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

Down-the-hole drilling (DTH) essentially involves a drilling hammer at the bottom of a drill string. It relies on three elements for drilling holes: bit loading ...

The World's Leading Manufacturer of Deep Foundation Construction Equipment American Piledriving Equipment (APE) is the world's leader in research and development, production ...

An auger is a drilling tool excavator attachment designed to drill a hole into the ground. Since drilling accurate holes is often critical, augers are ...

Typically, you'll see an excavator use a bucket to dig a hole and remove dirt, but other attachments can be used to accomplish additional tasks. For example, ...

A "down the hole" (DTH) drill is a drilling equipment used in mining, construction, and exploration activities. It is specifically designed for drilling large-diameter ...

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 ...

This Excavator Operation Guide is meant to provide you with important information and suggestions necessary for using the machine safely and efficiently. Please be sure to read ...

I've got a job that's about 1/4 mile down the street from one I just finished. Due to the distance to get to the machine the lowboy wants \$250.00 to move it. I think I'm just going ...



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Bay Shore LoDril®; Drilling Attachment The LoDril®; is a high performance drilling attachment which will turn your excavator into one of the most versatile and ...

We've all gone near a construction site, but have you ever stopped to watch what are they actually doing? Today, we put you in the shoes of an excellent exca...

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 ...

Specific operation method: whenever drilling begins, the operator must swing the drilling tools gradually to the bottom of the hole. When the ...

The scope of this exercise is to identify all tasks that have to be executed during a drilling operation, to break these tasks into procedures and to evaluate all hazards related to these ...

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Introduction The term "Foundation Drill Rig" covers several differing types of machines for use in the deep foundation construction industry. This guide is intended to cover those drill rigs used ...

The Carter 320D excavator is converted into a down-the-hole drill, and the modular quick-change device is used to switch the operating mode within 10 minutes. Equipped with a Cummins ...

For efficient Down-The-Hole (DTH) drilling, you need high performing drilling tools. Tools that increase your productivity and sustainability, while reducing your total operation cost and ...

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 ...

Air-flushed drilling with top hammers began in the mining industry in Sweden in 1873, while down-the-hole (DTH) drills, again with air flush (and activation) became operational in 1950. During ...



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