



## Drilling rig core video

What is a diamond core drill rig?

Think of core drilling rigs as big mechanical apple core removers. Master Drilling shares the basics of diamond core drilling. A cylindrical shaft and rotating drill bit is used to drill into a section of solid earth, rock or concrete. This forms a section of 'core' within the cylindrical pipe that can be extracted and examined.

How does a core drilling rig work?

Depending on the size of the hole, most situations require the drilling rig to be attached to the ground or surface with an anchor, bolt, or vacuum seal to keep the rig stabilized. Because core drilling requires substantial speed and force to get through concrete, a lot of heat is generated during the drilling process.

How deep do rotary core drilling rigs drill?

The drilling rigs generally drill 50mm to 200mm diameter boreholes through rock to depths of up to 100m, carrying out Cone Penetration Tests (CPTs) where necessary. Cable Percussive Boreholes are often drilled to the depth of rock, with Rotary Core Drilling following on for economical reasons, particularly when significant gravel layers are present

What types of drilling rigs are available?

The drilling videos featured here on our website showcase the capabilities of various types of drilling rigs, including water well drilling, auger drilling, core drilling, and more.

How do I set up a drilling rig?

Position the drilling rig, assemble the rig components and begin drilling. After the geological location for the well has been selected, the surface site for the rig must be acquired and prepared. Rig site preparation will vary for

What are the different types of drilling rigs offered by Simco?

With a focus on the specific processes involved in geothermal drilling, geotechnical drilling, and water well drilling, these drilling videos enable you to see the differences between the various drilling rigs offered by SIMCO. A variety of geothermal drilling videos allow you to view Air Rotary DTH Hammer and Mud Rotary drilling.

The coring bit is hollow, allowing it to collect a cylindrical sample of the formation, called a core. The core is removed from the borehole, and oil and natural gas signs are checked.

An introduction to how Reverse Circulation drill rigs work and why we use them. The first in a series of practical skills videos for graduate geologists in t...

The video shows how to put together and use the Hilti DD 160 diamond coring machine for rig-based wet



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drilling in concrete. Learn more:

The wireline core barrel is one of the most important pieces of diamond drilling equipment - it's what you use to recover core. We've written ...

Tips for successful concrete cutting from Jack Tuckner at Esch Construction Supply. Set up your core drill, stand, and workspace to maximize your core drilli...

Our demonstration video showcases the full hydraulic wireline core drilling rig in action, highlighting its ease of use, precision, and efficiency. With clear instructions and real ...

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The video shows how to put together and use the Hilti DD 160 diamond coring machine for rig-based wet drilling in concrete. Learn more: ...

The next in of our series of videos about the diamond drilling industry is all about the components of core drilling. These videos are ideal for newcomers to the industry, and for workers looking ...

This video helps explain the drill core drilling process by describing the components and in particular, the drill string. You'll learn about core bits, reaming shells, core barrels, inner tubes, ...

Use the Hilti DD 150 coring machine for rig-based wet drilling in concrete for pipe penetrations, cable trays and ducts and for installing railings and barriers.

Drilling BIG HOLES IN WALLS? Then you need to know hot to core bit drill with out ULTIMATE guide!?  
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Welcome to our comprehensive video showcasing a powerful and compact core drilling rig! This high-precision machine is designed to offer top-tier performance while maintaining a compact ...

Join the crew of the Maersk Viking, the pinnacle of deep-sea drilling innovation, as we spearhead one of the most promising American drilling expeditions in the Gulf of Mexico.

In this guide, we'll break down everything you need to know about core drilling rigs--what they are, how they work, and their key applications. What is a Core Drilling Rig? A ...

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The DBE 201 is industry's most powerful, compact, and lightweight core drill rig. At 34 lbs., this diamond core drill rig's lightweight and streamlined design ...

Learn more about what is core drilling at Rig Source. We offer reliable, high-quality core drill rigs and other drilling equipment for all your ...

A mobile geological drilling rig is used to investigate a huge landslide that was triggered by the 2016 Kaikoura Earthquake near Waiiau, New Zealand. James Chapman of CW Drill explains how the PQ ...

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This is a quick video of DeepRock HD-55 Pro Series drills a 200 ft well with 6 inch borehole and has the Blasthole 6 inch FULL Carbide drill bit and Easy Gri...

Corporate greed meets strategic planet-mining in Drill Core! Drill to the heart of planets while managing workers, researching cutting-edge tech, and fortifying against alien attacks. Will you prioritize ...

A quick introduction to how diamond drill core is logged and the types of data collected. The video is part of my online course FieldCraft for Geologists.

This Defining Series article sets out the methods of acquiring cores--using drill pipe and wireline--and their analysis and role in the industry. The Oilfield Review Defining Series ...

Core drilling often grinds away materials when the hole is being drilled to get intact sample via rotary drilling by core drill rigs. Rotary drilling has a rotary action combine with the ...

At a mining area's 800-meter core drilling site, an all-hydraulic core drilling rig is operating efficiently. This equipment sets a benchmark for performance reliability, with its core components ...

Unleashing Precision & Power: The Hilti DD 250-CA Core Drill. Witness unmatched speed, safety, and versatility as we explore this game-changing construction ...



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