



Core drilling rig videos

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.

What do you learn in a Core Drill Course?

You'll learn about core bits, reaming shells, core barrels, inner tubes, drill rods, casing, how they all fit together and what their purpose is. The video does an excellent job of describing how core drilling works visually, with clear animation.

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 is core drilling?

Core drilling refers to the system of drilling and collecting a cylindrical core sample in its original state, in-situ. This process is typically carried out using a 'wireline coring' method, which involves the use of a diamond impregnated (hollow) core bit that cuts until the core barrel is full.

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.

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.

Learn how to use the Hilti DD 200 diamond coring tool for rig-based drilling on wet concrete. Learn more: tool can also be used wit...

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This latest video in our series reviews the three parts of the core drilling process: drilling, retrieving the core



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sample and resuming the drilling. Together they make a round trip and with each one, ...

Videos are a great way to share information with people who are more visual and who prefer to watch a demonstration than to read about it. This latest video in our series investigates the ...

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Video Overview: Our demonstration video showcases the full hydraulic wireline core drilling rig in action, highlighting its ease of use, precision, and efficiency.

This video shows core drilling rig in action at rugged outdoor site. Drill rod rotates with steady force, boring deep into earth while muddy slurry of water ...

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The core drilling rig is a multifunctional drilling equipment, mainly used for the survey and exploration of metal and non-metallic solid minerals, water well drilling, and can also be used ...

Core drilling rigs play a crucial role in a wide range of industries--from mining and geology to construction and infrastructure development. But what exactly is a core drilling rig, ...

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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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XY-1 Spindle core drill rig makes use of rotary action of drill bit to cut and crush rocks. It is particularly suitable for engineering geological investigation for construction of railways, ...

You'll learn about core bits, reaming shells, core barrels, inner tubes, drill rods, casing, how they all fit together and what their purpose is. ...

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 shows core drilling rig in action at rugged outdoor site. Drill rod rotates with steady force, boring deep into earth while muddy slurry of water and rock fragments gushes out ...

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