



Rotosonic drill rig

What is a sonic drilling rig?

A sonic drilling rig is unique in contrast to a standard rotary drill due to the sonic head at the helm of the rig. Within this sonic head are two rotating counterweights that produce a large amount of vibratory force, which becomes the resonance energy needed for the sonic drill to penetrate subsurface materials.

How does sonic drilling work?

When the sonic drilling equipment has been laid out on site and prepared for use, the core barrel penetrates first with the sonic head attached to begin drilling into the subsurface material. Once you've reached the desired depth to retrieve a sample, the casing can then be inserted over the core barrel to capture the sample.

Is sonic drilling a new technology?

At the time, sonic drilling was still a relatively new technology, and many in the industry were skeptical of its potential. But Geoprobe® saw the possibilities and invested heavily in developing a sonic head that could deliver powerful, precise drilling across a range of geological conditions.

How accurate is sonic drilling?

Sonic provides the most accurate installations of multi-point (CMT-type) wells where precise-depth installations are critical. Diameters as large as 12 inches are possible, and depths in excess of 850 feet have been reached. **WHY CHOOSE SONIC DRILLING?**

What is a sonic drilled borehole?

It is a low-impact technology that is safer by minimizing crew tool handling. By rotating and vibrating the rod, core barrel, and casing at sonic frequencies a clean borehole is drilled, cored and cased at the same time. A great deal of fewer cuttings are generated, saving time and money.

Meet our wide range of drilling solutions Drill rigs Royal Eijkelpamp has a wide range of sonic drill rigs in different sizes, so you can choose the machine that ...

The Compact RotoSonic XL170 MAX DUO (CRS XL170 MAX DUO) is a compact and powerful drilling rig, designed for heavy-duty drilling. The CRS XL170 ...

Infrastructure: Sonic Rigs Sonic Rigs Boart Longyear's experience in sonic drilling and engineering and manufacturing means we're the trusted experts in the field of sonic drilling. ...

Enviroprobe Sonic Drilling Services utilize the Geoprobe 8140DT, which is equipped with Geoprobe's patented 30K sonic head. The 30K Roto ...

Its compact and powerful design, featuring the 30K rotary head, offers great flexibility for a range of drilling



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applications including mineral, ...

In our Drilling 201 webinar, we discussed sonic drilling methodologies and best practices. Our goal was to provide a working knowledge of this highly viable ...

The Dando SDC375 is a powerful, fully equipped roto-sonic drill rig. It is track mounted for superior site access and its 50K Sonicor drill head enables Enviroprobe to effectively achieve ...

Hawkston Drilling's cutting-edge sonic rigs deliver precise and efficient drilling operations. We offer Sonic Drilling Services in the Southeastern & Mid-Atlantic United States.

The PRS 70 (PowerRotoSonic 70) 22K True 150Hz sonic drilling rig excels in its ability to bundle sonic drills into a small and easily maneuverable size. Why use direct push, when 150Hz ...

Sonic drilling is used for environmental explorations because sonic drilling offers the benefit of significantly reduced drill cuttings, a major cost element, and reduced drill fluid use ...

Sonic drilling is a safe, clean and a low-impact environmental drilling technique. Roto Sonic Boreholes are drilled, cored and cased by rotating and vibrating ...

Whether you're facing consolidated materials, glacial till, or backfill rubble, quickly complete complex holes to greater depths using a Geoprobe®; sonic drill rig. ...

Dry Drilling Dry drilling is when the high-frequency vibrations of the sonic head are utilized to drill through the earth without the need for drilling fluid. This technique is commonly used in ...

Eastern offers premier Rotary Sonic Drilling Services for all clients. We regularly assist clients with geotechnical, environmental drilling, monitoring well ...

This rig is ideal for a variety of geotechnical and environmental drilling projects. The MS-75 features a compact, low impact design, powerful 160 HP Cummins diesel, rod handler, and a ...

The CompactRotoSonic XL140 DUO (CRS XL140 DUO) is a powerful sonic drilling rig that can be used in various working conditions. This drilling rig is ...

Meet our wide range of drilling solutions Drill rigs Royal Eijkelkamp has a wide range of sonic drill rigs in different sizes, so you can choose the machine that best suits your needs and ...

The CRS 140 True 150Hz sonic drilling rig is built to perform in the most challenging and diverse working conditions. The machine is easy to maneuver ...



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The SRS 120 34K True 150Hz sonic drilling rig is a small and easy to use machine with extreme sonic power. This small but powerful rig delivers faster ...

Infrastructure: Sonic Rigs Sonic Rigs Boart Longyear's experience in sonic drilling and engineering and manufacturing means we're the trusted experts in the ...

Sonic drill casings are foundation of our complete sonic systems, in a range of drill casing sizes. See full list of sonic casing sizes.

The drill rig operator can adjust the frequency of the sonic oscillator in order to maximize production rates in various formations including clays, sands, gravels, boulders, fill materials, ...

Our highly experienced sonic drilling teams are trained to accurately install multi-point wells or instrumentation where exact depths are critical. They can reach depths of over 750 feet with ...

Unmatched Versatility and Reliability The LS250 MiniSonic is the perfect rig for a wide variety of soft ground, shallow drilling projects including environmental, tunneling, water management, ...

The Geoprobe® model 8140LC is a Low Clearance Roto-Sonic Drill Rig. It boasts of full rotary capabilities combined with our patented GV4 sonic head.

How TSi Sonic Drilling Works TSi Sonic Drill Rigs feature a sonic head with oscillators that generate a range of frequencies. The vibrations generated by the oscillators transmit high ...

By rotating and vibrating the rod, core barrel, and casing at sonic frequencies a clean borehole is drilled, cored and cased at the same time. A great deal of ...

The CRS 140 DUO True 150Hz sonic drilling rig is a powerful sonic drilling rig with both sonic and conventional drillhead. The rig is equipped with a ...

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