

SINGLE AND DOUBLE CORE BARRELS

FEEL THE SONIC VIBES !
Make your difficult works successful



Main applications :

» Geotechnical investigation and construction

Precise high quality drilling, in any geology at several depth, to have cost-efficient results for in and off-shore works. Also very adapted for construction works which require perfect straightness.

» Mineral exploration

Sounding without deviation and precise localization of samples. Highly productive sampling in mixed geology with accurate layer thickness analysis and sample composition.

» Environmental drilling

Accurate and fast localization of impermeable layers, Description of undisturbed soil profile and sub samples for physical and chemical analysis, also adapted to polluted soil investigation.

» Remediation drillings, well installations and cold-heat exchanging systems

In one run, fast sampling for profile description and well installation if required.

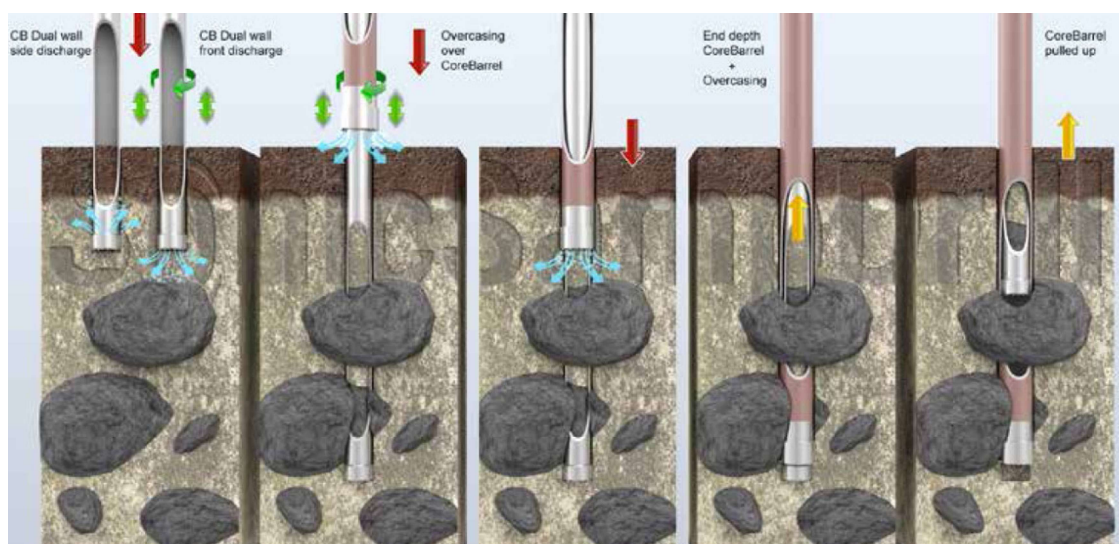
» Archaeological sampling

Fast sounding of a large area in a dense grid on archaeological remains.



How does it work :

Single core barrel with or without injection / Double core barrels with front and/or side injection



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Technical specifications

	Single core barrel		Double core barrel	
Core barrel	3"	4"	68	89
Sample diameter	76,2 mm	101 mm	65 mm	89 mm
Sample length	2 m	2 m	2 m	2 m
Casing size	5,5"	6,5/8"	5,5"	6,5/8"

Do you need ?



- High recovery rate with long and large samples ?
- High speed sample production ?
- Sampling some grounds impossible to core with conventional methods ?
- Less than 1% drilling deviation ?
- High quality samples of mixed geology, from soft to hard layers?
- Complete undisturbed samples, even from coarse sands or difficult types of rock?

The solution

Sonic core barrels represent the best method to core the most difficult grounds. Here vibration is combined with rotation to allow the tungstene carbide button bits to cut the harder formations.

Water or mud injection is limited and does not damage the sample with the double core barrel. Core barrels are available either with side and/or front discharge bits.

The sonic drilling method creates an extremely straight boreholes, making it an optimal technology especially for mining exploration (precise localization of sounding), installation of instrumentation and monitoring equipments, and construction (foundations strictly conformed).



REFERENCE PROJECT

Theo Berkhout, Boskalis, Surinam

« We purchased the CompactRotoSonic crawler, AquaLock system and Dualwall CoreBarrel. In combination with sonic drilling, the DualWall CoreBarrel offers us the possibility to sample in harder foundations like weathered rock. With a minimum of flushing agents, we get maximum recoveries at an unsurpassed drilling speed! »



PILOT PROJECT

In order to prove the efficiency of this method, a team can come on site to carry out a difficult and/or target work. For more information or personal advice, please contact us.