As a leader in sonic drilling, Boart Longyear delivers precise drilling and efficient operations with our advanced sonic rigs. Using these rigs, Boart Longyear’s highly-trained, experienced, and locally certified sonic drilling crews can reach depths over 700 feet (213 meters) with minimal environmental impact. Whether we are drilling for environmental water supply development, geo-construction, geotechnical, or mineral exploration, sonic drilling offers several distinct advantages over conventional drilling, including:

**Superior Information**
Sonic drilling provides a continuous, relatively undisturbed core sample of unparalleled quality and accuracy through any type of formation. When using the iso-flow groundwater profiling system, hydrogeological and geochemical data can be easily obtained.

**Waste Reduction**
Sonic drilling reduces waste by up to 80% relative to conventional drilling.

**Speed**
Sonic drilling can be up to two to three times faster than conventional overburden drilling methods.

**Risk Minimization**
Sonic frequencies match the resonant energy of the ground, allowing the core barrel to advance in unconsolidated and difficult overburden formations, greatly reducing the risk of project failure due to unknown or difficult subsurface conditions.

**Flexibility**
Common applications for sonic drilling include heap leach pad recovery, grade control sampling, and pre-collaring. Sonic drilling advances a temporary outer casing as the borehole is drilled, allowing more to be accomplished with a single borehole.

**Superior Well Construction**
Sonic drilling causes minimal disturbance to the surrounding borehole wall, resulting in more efficient well development and performance.
SONIC BOREHOLE ADVANCEMENT

Sonic drill rigs advance a casing as the borehole is drilled. While there are several ways to drill a borehole with the sonic drilling method (depending upon site-specific conditions and project objectives), the most common way involves advancing a core barrel, which is overridden by a larger diameter drill string that cases the open borehole and prevents collapse.

Sonic drilling offers:

- Core sizes of 3.75” through 8”
- Standard borehole sizes of 3” though 12”
- Drilling depth of up to 213 meters / 700 feet

To learn more, contact one of our sonic drilling experts today at info@boartlongyear.com or visit www.BoartLongyear.com/Sonic-Drilling