



**Sonic Drilling Ltd. pioneered the introduction of the sonic drill, adapting it to fit numerous applications over the years. Today, the company remains the industry leader in the development and use of this patented state-of-the-art technology and equipment.**





■ The modern sonic drill head can handle a variety of drilling applications.



■ Typical sonic drill bit.



■ Horizontal continuous core drilling, with reverse circulation, for tunnel pre-boring assessment.



■ Preparation for large diameter multi-cased deep environmental exploration in artesian conditions.



■ Injecting grout in old mine workings to prevent subsidence of above ground structures.



■ Installing piezometers to monitor seepage from a drinking water reservoir.

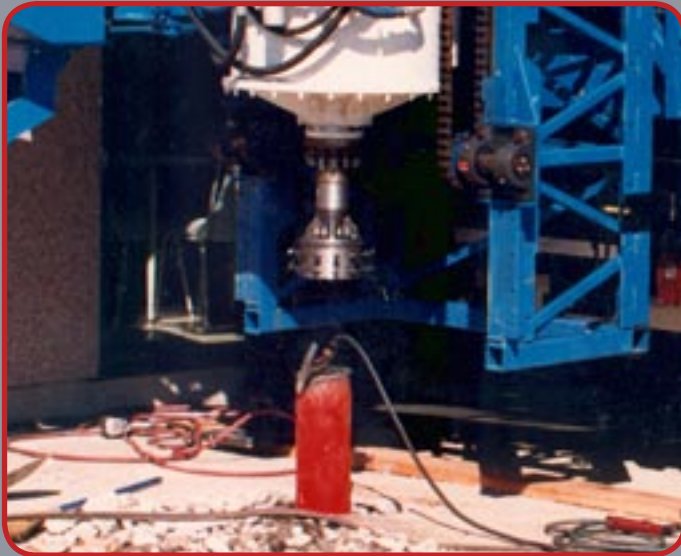




■ Drilling for the installation of a large diameter dewatering well.



■ Injecting grout for soil stability improvement project.



■ Installing open-ended steel pilings in a noise sensitive area.



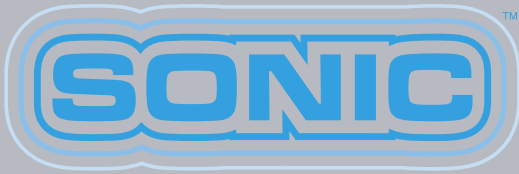
■ Installing anchors for landslide prevention.



■ Angle drilling for the installation of cathodic protection anodes under a liquid natural gas steel storage tank.



■ Drilling for the placement of seismic explosives for oil and gas exploration.

**SONIC DRILLING APPLICATIONS**

- Air rotary drilling
- Aggregate exploration
- Anchors, earth and rock
- Angle drilling
- Anode installations
- Aquifer exploration
- Blast hole drilling
- Boulder clay drilling
- Cast-in-place concrete piles
- Compaction grouting
- Construction drilling
- Continuous coring
- De-watering projects
- Earth dam investigations
- Earthquake studies
- Environmental investigations
- Explosives placement
- Extraction wells
- Freeze pipe installations
- Geo-construction drilling
- Geological explorations
- Geo-technical investigations
- Geothermal drilling
- Glacial drift explorations
- Global warming studies
- Groundwater sampling
- Horizontal drilling
- Hydro-fraction drilling
- Hydro tower tie backs
- Injection wells
- Irrigation wells
- Jet grouting
- Landfill gas extraction wells
- Landfill site investigations
- Landslide prevention
- Mine rehabilitation and infilling
- Mine tailings investigations
- Mineral exploration
- Micro piles
- Monitoring wells
- Multi-cased wells
- Multi-level wells
- Mud rotary drilling
- Offshore soil sampling
- Overburden drilling
- Percussion drilling
- Permafrost drilling and coring
- Piezometer installations
- Pile driving
- Pile extraction
- Placer gold exploration
- Quaternary stratigraphic studies
- Railway right-of-way investigation
- Recovery wells
- Retaining wall construction
- Reverse circulation drilling
- Rock coring
- Rock drilling
- Sand and gravel exploration
- Seismic shot hole drilling
- Sparging wells
- Soil sampling
- Soil improvement
- Soil vapor extraction wells
- Steam injection wells
- Tar sand exploration
- Tie-back installations
- Tunnel pre-drilling
- Underpinning
- Undisturbed sampling
- Water profiling
- Water wells