



Hydrogeology Drill

The Hydrogeology Drill is a small portable battery powered drill designed, developed and utilized extensively by Deltion Innovations Ltd. It uses dry drilling techniques to obtain a subsurface sample that is undisturbed and uncontaminated by fluids used in a regular drilling process. The samples can be used in hydrogeology studies in terrestrial environments such as beneath transformer stations.

The drilling process is automated. Rod handling and sample capture and removal are manual.

The Hydrogeology drill can be utilized as a test bed for development of sample acquisition and removal techniques in the lab or in the field under extreme cold.

It was utilized in frozen field testing during the development of the Deep Drill and the EBRC for NASA's RESOLVE project.

