



GROUND TECHNOLOGY



Rotary Boreholes

Using our in-house rotary drilling capability, we are able to offer a variety of highly versatile drilling solutions for a wide range of applications. This enables us to employ a variety of techniques in the same borehole, eliminating the need for mobilising different rigs to investigate sites with soils overlying rock strata. All of our rotary drilling staff have an NVQ in land drilling for rotary techniques and are BDA accredited.

Rotary drilling is ideal for any application, ranging from simply forming boreholes (in which to install monitoring instrumentation) to very high quality coring using a variety of core bits, flush media and barrel configurations to suit ground conditions. Most of our rotary work makes use of our Beretta T41 drilling rig, which is compact yet very powerful. Our rotary capabilities include:

Hollow Stem Auguring up to 20m depth. Simultaneous sampling is available if required. Up to 200mm diameter.

- Rotary Open Hole Drilling up to 80m depth. Up to 200mm diameter.
- Down the Hole Hammer (DTH) up to 80m depth. Up to 200mm diameter.
- Rotary Core Drilling up to 60m depth. Up to 100mm diameter.

- Dynamic Sampling (window sampling) up to 20m depth. Up to 113mm sampling in 143mm diameter cased hole.
- Simultaneous casing while drilling using 150mm Symmetrix system. 150mm casing installation up to 15m depth.

Flush Capabilities including:

Air	Air-mist
Water	Foam
Polymer	

Insitu testing capabilities including:

Standard Penetration Testing
Undisturbed Sampling (Thin and Thick Wall)
Packer Permeability Testing
Variable and Constant Head Permeability Testing
Borehole Vane testing

We are also able to hire a variety of drilling rigs enabling us to undertake a variety of deeper and larger diameter boreholes, including water well and geothermal drilling applications.