



SERVICE DATA SHEET

Rotary Drilling

Rotary drilling services can be deployed throughout the UK where there is a requirement to provide information on the solid stratigraphy. Drilling work can be undertaken in various diameters employing either open-holing, conventional or wireline (Geobore S) coring and Symmetrix techniques which can be used appropriately to characterise the solid geology, to highlight the presence of near-surface mineral workings in mining regions, and the adequacy of deep excavations like road cuttings and tunnel construction.

Drilling can be performed using different flushing media (water, air, mist, mud etc.) and coring bits (depending on the characteristics of the rock mass) with the recovered core either lined or unlined depending on preference. Our in-house rotary rigs are fully serviced and guarded in accordance with current UK health and safety legislation. Various carrier chassis ensure that site access can be achieved in difficult and soft ground surface situations with the minimum resulting damage.

Each driller is suitably trained to provide a basic rock or soil description when undertaking open-holing operations. A qualified engineer can also be deployed to log the flush returns in greater detail or provide a detailed account of the geology and discontinuity intersections in circumstances of core extraction.

Application and Sampling Methods

- ◆ Depending on rotary rig specification and prevailing ground conditions exploratory holes to a depth of up to 150m can be achieved.
- ◆ Various lined and unlined rotary coring diameters up to 'S' (145mm OD) (Category A & B - BS EN ISO 22475-1: 2006). Geobore 'S' Wireline drilling (Category A - BS EN ISO 22575-1: 2006) in stiff glacial soils and weak weathered rock deposits
- ◆ Down-the-hole Hammer (DTH) and Symmetrix drilling up to 200mm diameter.
- ◆ Facilitates various forms of in-situ procedure; borehole shear vane, permeability, standard penetration, pressuremeter and down-hole geophysics testing.
- ◆ Facilitates a wide range of post-boring instrumentation; groundwater and gas (various diameters) single, double, triple or multipoint piezometer/standpipes, vibrating wire, pneumatic, extensometer and inclinometer installations.



Summary

Multi-carrier deployment to site (tracked or wheeled) to facilitate access in a wide range of site surface conditions.

Various rigs types and drilling capacities available.

Dependent on the technique used, Class 1 samples of soil and rock can be recovered. Using air, mist, water, polymer and mud flushing mediums.

An investigation method for probing and characterisation of the solid stratigraphy.

Benefits

- Operated by fully trained NVQ Level 2 (Land Drilling) and BDA (British Drilling Associated) audited drilling professionals.
- Symmetrix drilling systems available for penetrating very dense made ground deposits (i.e. fused slag, building rubble etc.)
- 100mm to 300mm diameter openholed drilling diameter.
- Options available for obtaining Class 1 samples in stiff gravelly, matrix dominant glacial tills.
- Allowed a wide range of post-exploratory hole instrumentation e.g. vibrating wire piezometers, standpipes, extensometers etc.

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