



The Global GEO Rig

The Complete Solution for Environmental Soil Sampling and In-Situ Testing

The GEO is a highly mobile drive-sampling rig ideal for working inside and around the edges of buildings, low-headroom situations, slopes and embankments and sites where access is restricted.

It is designed for use by a single operator and drilling can begin within minutes of arrival on site. The light weight of each unit ensures that site disturbance is minimized, especially important on environmentally sensitive sites.

Applications:

- Environmental Sampling
- Small-scale geotechnical works
- Determination of piling depths
- Location of voids and buried obstructions
- Archaeological Surveys
- Continuous (Windowless) Soil Sampling
- Undisturbed Soil Sampling
- SPT and DP Testing
- Installation of Monitoring Wells



Main Features:

- ✓ Mechanically simple and easy to operate
- ✓ Sampling by percussive technique ensures minimal sample disturbance
- ✓ Blows per minute variable from 18 to 55, which allows complete control from rapid penetration to a modest rate for blow counting
- ✓ Optional rotary attachment for coring through concrete or other hard surfaces at ground level

Windowless Samplers up to 146 mm diameter

Superior to traditional sample tubes, the sampler is housed in a clear plastic liner and is removed from the sampler tube in seconds. The quality and presentation of samples is unequalled in the industry, and this sampling method is ideal for testing contaminants, with minimal cross-contamination between samples

Duplex Casing System – 116mm diameter

Unique system enables the hole to be cased and sampled at the same time as it is being sampled. Eliminates the problem of holes collapsing and debris getting trapped behind the sampler when extracting

Standard Penetration Testing

Fully adjustable SPT test to B.S. 1377 - part 9 and ASTM standards

Dynamic Probing

Fully adjustable Dynamic Probing DP & DPSH.

Special rods are used with rope threads that eliminate problematic weak pin to pin couplers

Concrete Coring

Concrete coring unit fits onto the bottom anvil giving the facility to core up to 127mm diameter holes

Enables hard surfaces to be cored prior to sampling - i.e. car parks, factories & hard standings. Eliminates the need for separate concrete coring apparatus or crew



GEO 3 TECHNICAL SPECIFICATIONS

Engine:

4-stroke diesel, 9 HP, electric start
Chalwyn valve and spark arrestor (optional)

Hydraulics:

Cylinder with 7 tonne pullback
Twin pump 20 - 40 l/min @ 3500rpm, 1500 psi

Drop Weight:

50 kg and 63.5 kg(interchangeable)

Drop Height:

500 mm and 760mm (interchangeable)

Sampling/Probing Depth:

5 - 15 metres depending on ground conditions

Max. Sampling Diameter:

Through slip bowl : 150 mm (6")

Gross wet weight (full tank):

703 kg with tool baskets
673 kg without tool baskets

Dimensions (mm) on tracked power carrier:

Transport mode: 2550 L x 600*/1220 W x 1420 H
Sampling mode: 2680 L x 600*/1220 W x 2400**- 3120 H
* width with tool baskets removed
** minimum working height sampling at 0.5m intervals

Alternative configurations



Mounted on Landrover 4x4



Mounted on All-Terrain Vehicle