



## THE GEOTECHNICAL "PIONEER" ROTARY RIG

The multi-purpose Pioneer drilling rig was developed by this company as a versatile, compact yet powerful machine to carry out a wide variety of ground investigations in many different situations.

We currently operate 14 Pioneer rigs, in 3 different versions. The rigs are mobilized to site on 'flat-bed' trucks, accompanied by a large van carrying all ancillary equipment and materials. Flush pumps are integral to the rigs.



Pioneer Rig dimensions & weights:

- Access width/height/length: 1.5m/2.2m/4.6m
- Operating: 1.5m/4.6m/4m
- Working area: 7m by 2.5m min.
- Weight: 2.75 or 3.5 tonnes

In the right ground conditions, the 'original Pioneer' is capable of:

- Dynamic sampling of soils to 20m deep to obtain near-undisturbed continuous samples up to 112mm diameter retained in a plastic liner, forming boreholes of up to 143mm diameter.
- Rotary core drilling to 50m deep to obtain continuous rock cores of up to 112mm diameter, using a range of drilling flushes.
- Working in restricted areas, and forming boreholes (and sampling) at any angle.

The 'Pioneer 2' is capable of:

- Dynamic sampling (see above)
- Rotary core drilling to 80m deep.
- Hollow stem flight auger boring to 20m, forming boreholes of up to 300mm diameter and allowing installation of up to 150mm diameter standpipes.

The 'Pioneer HT' is capable of:

- Dynamic sampling (see above)
- Hollow stem flight auger boring.

All versions are capable of:

- Concrete coring.
- Standard penetration testing (SPT's) to BS EN ISO22476-3.
- Undisturbed soil sampling of 100mm and 70mm diameter.
- Forming boreholes for a variety of ground remediation techniques.
- Installing standpipes, monitoring wells, biaxial inclinometer tubing, and various other instruments.

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