THE GEOTECHNICAL “PIONEER” ROTARY RIG

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

We currently operate 16 Pioneer rigs, in 3 different versions with integral mono pumps. The rigs are transported to site on flat-bed trucks, accompanied by support vans carrying ancillary equipment and materials.

Pioneer rig dimensions & weights:
- Access width/height/length: 1.5m/2.2m/4.6m
- Operating: 1.6m/4.6m/4m
- Working area: 7m by 2.5m minimum
- Weight: 3.5 tonnes

The Pioneer High Torque (Technodrill) is capable of:
- Dynamic sampling (see above)
- Hollow stem flight auger boring to 20m, forming boreholes of up to 300mm diameter
- Allowing installation of up to 150mm diameter Standpipes

Both versions are capable of:
- Concrete coring
- Forming boreholes for a variety of ground remediation techniques
- Installing standpipes, monitoring wells, biaxial inclinometer tubing, and installation of various other instruments.

The Pioneer Rig is capable of:
- Working in restricted areas, and forming boreholes (and sampling) at any angle.
- 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.
- Hollow stem flight auger boring to 20m, forming boreholes of up to 250mm diameter and allowing installation of up to 125mm diameter standpipes.
- Standard penetration testing (SPT) BS EN ISO 22476-3.
- Undisturbed soil sampling of 100mm and 70mm diameter
- Rotary core drilling to 80m deep to obtain continuous rock cores of up to 112mm diameter, using a range of drilling flushes.

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