High Performance Corer - HPC™

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Alluvial Mining has developed a High Performance Corer™ to cope with the demand for longer sample recovery in dense granular and stiff cohesive materials.

The HPC™ utilises innovative electric motor technology and sample barrel design. The new motor technology allows an optimisation of excitation frequency and vibration amplitude to suit any particular soil conditions. At it's most powerful settings the HPC™ can apply more than twice the power and five times the vibration amplitude of a standard vibrocorer. All of this translates into much longer sample recovery.

The HPC™ may also be used with a newly developed low area ratio sample barrel which minimises the sampling disturbance in clay soils.

Special Features

- Maximum working water depths of 450 m
- Umbilical spooler for deep water projects
- Easily transported by road, sea or air
- Real time penetration and base tilt registration

Applications

- Pre-dredge surveys
- Environmental investigations
- Mineral/Aggregate prospecting
- Inshore civil engineering site investigations
- Offshore oil and gas pipeline geotechnical investigations

Specification

- 415V, minimum 45 kVA power supply
- 3m to 6m core barrel (8m optional)
- Mild steel barrels 101.6 mm o.d. 93.6 mm i.d.
- PVC liners 88.9 mm o.d. 84.14 mm i.d.

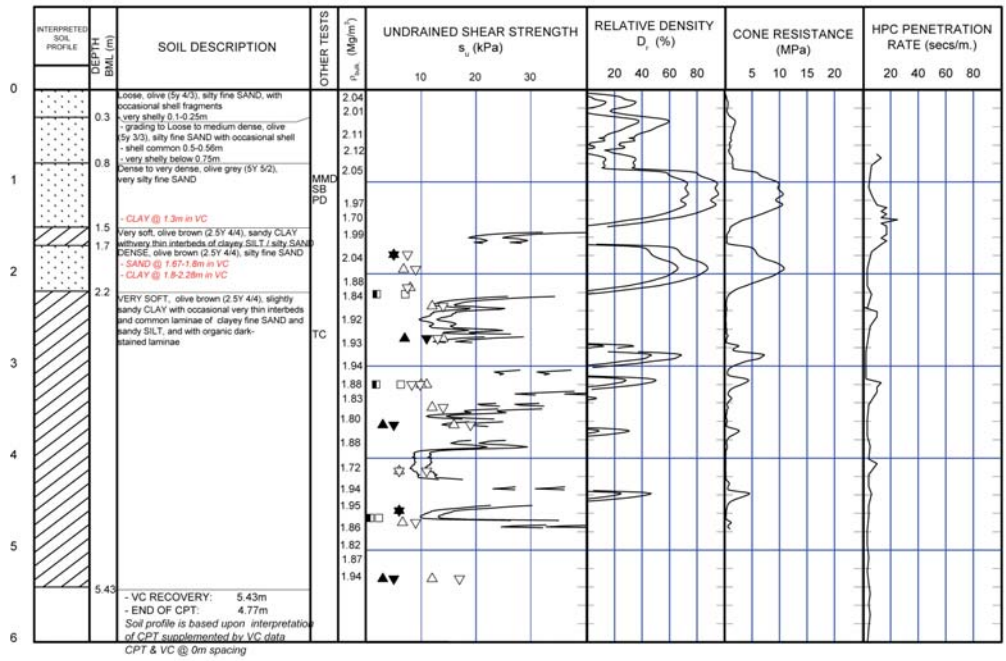
Optional sample sizes available

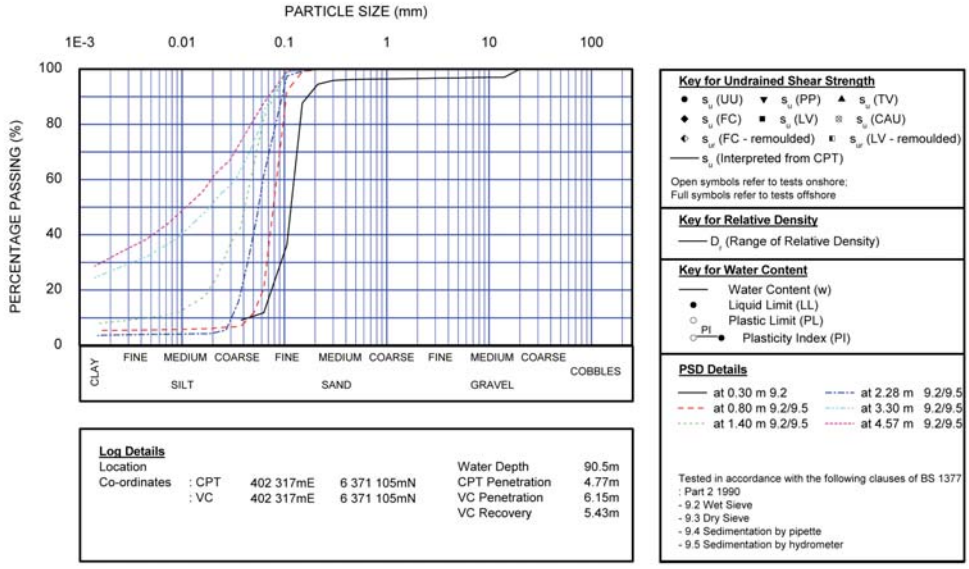
Dimensions

CORE BARREL(m)	HIGHT(m)	BASE(m)	WEIGHT(kg)
6.0	8.1	2.8 x 2.4	3160

The HPCTM penetration and soils data may be used in combination with CPT data to further refine stratigraphic and soils parameter logging along pipelines or in discrete location seabed soil engineering projects.

Example of HPC™ data set:





VIBROCORE / CPT LOG

The specification of the equipment in this data sheet may be subject to modifications without prior notice

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