



SOCOTEC

PLANT INFORMATION – OVERWATER CPT UNIT

Cone Penetration Tests (CPT) are carried out using twenty tonne capacity hydraulic penetrometer equipment mounted on ballasted vehicles. SOCOTEC UK is accredited by the United Kingdom Accreditation Service (UKAS) to undertake electric friction and piezocone testing as detailed in its UKAS schedule, Laboratory No 1157.

All CPT vehicles are fitted with a computerised logging system which displays a continuous graphical record of the measured data against depth. Data plots can be produced and supplied to the Client in the field upon completion of the testing.



TRAILER MOUNTED CPT PENETROMETER

Self-contained CPT unit, mounted on a purpose built towable trailer. The unit is equipped with a 20 tonne capacity penetrometer operated by a dedicated Hatz diesel driven hydraulic powerpack.

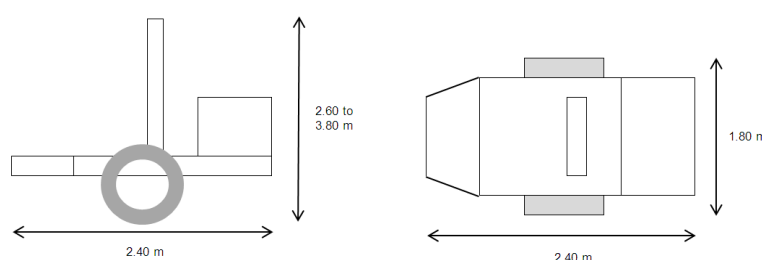
The unit can be easily mobilised and transported. It is especially useful for testing where access is not feasible for larger CPT units, and for mounting on other plant such as jack-up platforms and spud-leg barges.

Testing can be carried out using all SOCOTEC UK cone options, including: electric friction cone, piezocone, seismic cone and magnetometer. The unit can also be used for Mostap sampling and penetration vane testing.

Due to the weight of the trailer unit compared to the much heavier truck and crawler CPT rig options, the maximum depth of penetration is dependent upon ground conditions relative to the reaction force that can be mobilised. Where conditions allow, this can be increased using tie-down bolts or ground anchors. Up to 20 m penetration in a single push may be achievable, with production rates of between 50 and 100 m per day, depending on the complexity of set-ups.

DIMENSIONS

- Length: 2.40m
(excluding towing frame)
- Width: 1.80m
- Height: 2.60m
- Extended Height: 3.80m
- Weight (approx.): 1250 kg



Date Revised: October 2017