ROSON SEABED CONE PENETROMETER
CPT1

Our Roson Seabed Penetrometer system is capable of undertaking a rapid evaluation of in situ soil properties in a large variety of soil types in water depths of up to 500 metres. Test results are used to assess strength parameters, pore water pressure and relative soil density, as well as to provide a detailed stratigraphic profile.

Special Features

Continuous penetration into the seabed at the standard rate of 2.0 cm per second is achieved through a friction-wheel system clamped onto the CPT rods. Variable thrust from 4 - 16 tonnes. The required ballast is obtained from weights incorporated into the CPT frame.

Cones Available

- Piezocones
- Friction cones
- Electrical Conductivity Cones
- Low Capacity cones (for very soft cohesive soils)
- T Bar
- In situ Vane

Optional Features

- Penetration in excess of 15 metres is possible depending on the soil conditions and deployment arrangement.

Applications

- Offshore pipeline route and subsea structure geotechnical surveys
- Pre-dredging geotechnical investigations
- Marine inshore geotechnics
- Site investigations for marine reclamation projects
- Marine aggregate surveys

Technical Data/Dimensions

UNIT	BASE (m)	WEIGHT (tonnes)	MAX THRUST (kN)
2 modules	2.2 x 3.2	5 - 10	40 - 80
4 modules	2.2 x 3.2	10 - 20	100 - 160

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