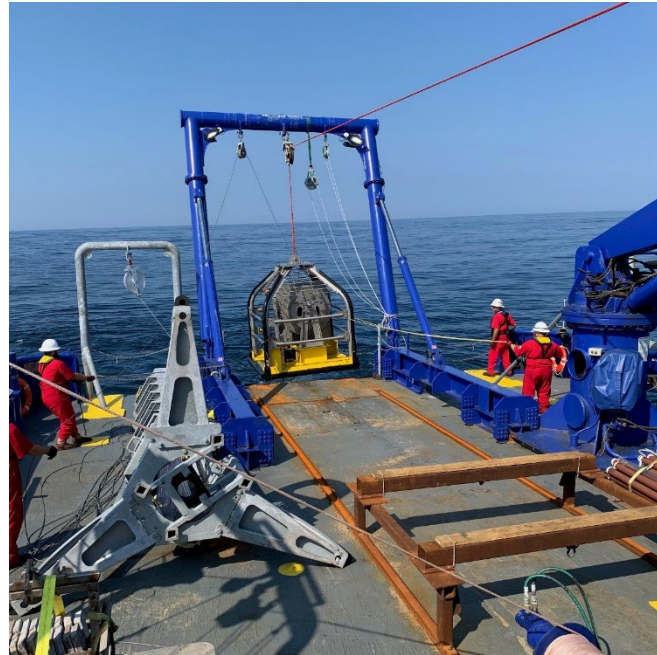


TDI-BROOKS NEPTUNE 3,000 CPT SYSTEM

The TDI-Brooks Datem Neptune 3000 Miniature Coiled Rod CPT System is a coiled rod Cone Penetration Test System featuring a 10kN Push capability. This lightweight coiled rod CPT system is for use in up to 3000 Meters of water and designed to withstand the harshest of sea environments.

A coiled tubing CPT system that is easy to mobilize, featured coiled rod system enables the Neptune 3000 to be self-contained and compact, therefore allowing the system to be deployed from the smallest of survey vessels where space is often of a premium. This CPT unit is commonly used for pipeline surveys for oil and gas operators and cable route surveys for offshore renewables.

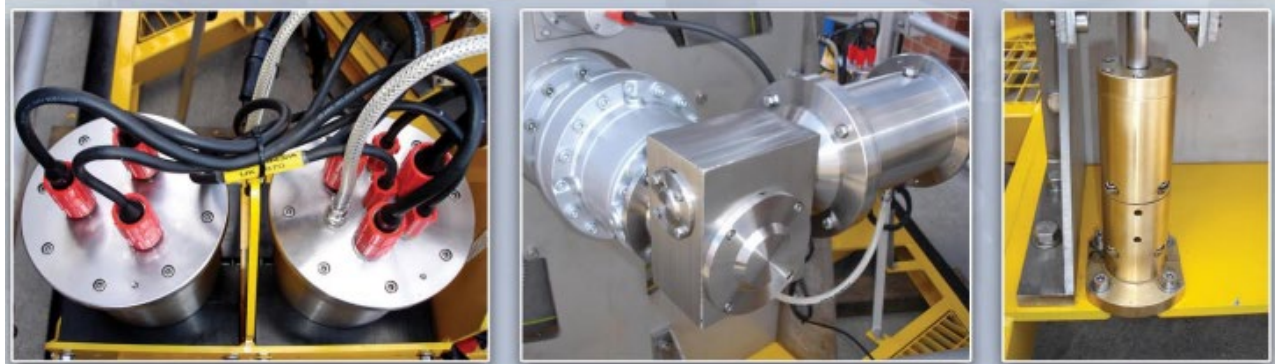


- 2cm² Detachable Cone, 5cm² Detachable Cone and T-Bar Detachable Cone
- 10kN Push Capability
- Up to 10m Penetration from Coiled Rod
- Compact and Easily Deployed Sub-Sea Frame
- Real Time Control and Display
- Single Coax Connection for Power and Data
- Automatic Safety Cut-Outs
- Low Maintenance, Low Consumable Use
- Data Comparable to 10cm² Systems
- Easy to Operate Windows™ based PC Control

The Neptune 3000 CPT enables its operators to perform an in-situ real-time test of the subsea soil structure therefore eliminating/reducing the requirement for time intensive soil sample extraction, storage and examination, thus reducing project duration and therefore cost.

The system uses Datem's digital 2cm cones, 5cm cones and T-Bar cones to suit all subsea soil conditions, providing axial load, sleeve friction, pore pressure, dual axis tilt and temperature data in real time (selectable up to 20hz) as they penetrate through the soil with data comparable to that of 10cm cones. With a push force of up to 10kN and a maximum push distance of 10Mtrs the Neptune 3000 is an industry renowned and hugely popular CPT system globally.

SPECIFICATIONS



Dimensions	1602mm(L) x 1602mm(W) x 1963mm(H), all ± 15 mm	Penetration Speed	2cm/sec $\pm 10\%$
Weight in Air	1500kg approx.	Retract Speed	5cm/sec approx.
Weight in Sea Water	1200kg approx.	Power Requirement	240Vac 1ph 50/60Hz, 2kw
Thrust Capacity	1000kg (approx. 10kN, 2cm ² , 50MPa, 5cm ² 20MPa)	Umbilical Voltage	650v
Max Penetration	10m	Telemetry Link	FSK
Depth Rating	3000m	Tip Accuracy	Better than 100kPa
Cone Type	Detachable, Digital Subtraction	Sleeve Accuracy	Better than 10kPa
Cone Sensors	Tip, Sleeve Friction & Inclination	Inclination Accuracy	Better than 1°
Optional Sensors	Piezo - Ranges to Suit	Cone Data Rate	20 Hz
Cone Tip Area	2cm ²	Frame Sensors	Altimeters & tilt
Cone Sleeve Area	30cm ²	Frame Sensor Data Rate	1Hz
		Operating System	Microsoft Windows™ XP, Vista and 7

Revised 08/23/2023