



# TECH SHEET

## ROVcone SBF (US)

The ROVcone allows operators to deploy a lightweight system but still deliver 1000 kg push force. The system can be paired with any work class ROV, trenching machine or similar subsea equipment. The ROVcone can be used for CPT and T-Bar *in situ* testing to around 5.0 m and push sampling to around 1.0 m in uncemented soils. A unique feature of the system is the wirefree (acoustic) real-time communications between the penetrometer and the ROV which eliminates cabling, reduces snag hazards, and speeds up installation and removal to/ from the ROV. The ROVcone SBF Push Sampler utilises the same drive motor, seabed frame, and launch/recovery arrangements as the

CPT system of the same name but provides an intact sample up to 1 m below seabed. Class 1 sample in suitable material.

### Applications

The unit is ideal for route survey, subsea developments, drill cuttings survey. ROVcone can also be deployed from ROV, crawler and trencher systems. For locations which may be problematic for non-ROV conveyed systems to access or which require a high degree of precision or visual reference to access.



### Technical Specifications

#### Penetrometer System Drive Unit Specifications

- Maximum thrust force app. 10kN.
- Electro Hydraulic drive
- Unit Size 1.2 x 1.2 x 1.8 m
- Unit Mass 1500kg
- Push rods 25/ 36 mm dia. (25mm standard)
- Maximum water depth 2000 m

#### In Situ Test Specifications

- CPT cone 10 cm<sup>2</sup> projected tip area, 60° apex cone
- Tip resistance, sleeve friction (compression sensor), and pore water pressure
- T-Bar 50/ 100/ 250 cm<sup>2</sup> options.
- Push speed 2 cm/s +/- 25%
- Selection of CPT cones available with sensor ranges to suite project water depth and application class of test (Class 1 to Class 3)

#### Sampler Test Specifications

- Projected size and type of the sampler (76 mm diameter push samples)
- 3" / 4" Liner Push Sampler, 1.2 m long
- 3" / 4" Shelby Tube Sampler 1.2 m long

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