

Manta-100

Seabed CPT system

Geomil
equipment

*World's first manufacturer
of CPT equipment*



Geotechnical surveys are moving towards very deep waters. To provide operators with the best possible Cone Penetration Testing (CPT) equipment for these unique challenges, Geomil Equipment have developed the Manta-100 series.

These new groundbreaking seabed CPT systems are available in various configurations with the top-of-the-range Manta-100 UDW being suitable for up to 4,000 m water depths. At such depths, the reliability of the equipment is paramount and this has been the prime focus in the design and the realization of all the models on offer.

With 4 configurations to select from, the Manta-100 is suitable for almost any project:

- Shallow Water (SW), up to 150 m water depth
- Medium Deep Water (MDW), up to 500 m
- Deep Water (DW), up to 1,500 m
- Ultra Deep Water (UDW), up to 4,000 m

Main characteristics of the Manta-100:

- operated with a single umbilical for hoisting, power transmission and communication
- modular system weight 3,5 - 12 tons
- variable penetration speed 0 - 45 mm/s
- variable retraction speed 0 - 80 mm/s
- thrust capacity 0 - 100 kN
- real-time CPT data at surface
- basic setup transportable in a 20 ft sea container

The standard turn-key Manta-100 package consists of the following components:

- seabed base frame with Continuous Drive System (CDS)
- submersible power pack with PTO function
- standard skirt
- surface control and data acquisition unit

The Manta-100 is also by far the most compact system in its class, measuring just 1,500 x 1,500 x 1,600 mm (L x W x H) when being transported.

Optional supporting items:

- main hoisting winch (constant tension)
- classic hoisting frame
- line tensioner
- various (leveling) skirt sizes and models
- echo sounder
- seismic source extension
- seabed sampling
- seabed plate load test (SPLT)
- lights and camera

For more technical information or a quotation based on your specific requirements please contact sales@geomil.com or call us at +31 172 427 800.



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