

# Manta-100

Seabed CPT system

**Geomil**  
equipment

*World's first manufacturer  
of CPT equipment*



Geotechnical surveys are moving towards deep and 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 4,000m 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.

The Manta-100 is available in three different configurations, targeted at various water depths and thus suitable for almost any project:

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

Main characteristics of the Manta-100:

- Power and communication via umbilical.
- Single umbilical hoisting (optional).
- Modular dry weight 3.5 - 12 tons.
- Variable penetration speed 0 - 80 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:

- Base frame with Continuous Drive System (CDS).
- Submersible power pack with PTO function.
- Standard skirt.
- Hoisting frame.
- Control and data acquisition unit.

The Manta-100 is 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).
- Hoisting frames in various designs.
- Skirts in various designs.
- Leveling frame XY-20.

For more technical information or a quotation based on your specific requirements, please contact [sales@geomil.com](mailto:sales@geomil.com) or call us at +31 172 427 800.



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