



Manta 200 Seabed CPT

Delivering exceptional versatility and operational flexibility



acteon.com

Compact design. Powerful performance.

The UTEC Manta 200 kN Seabed Cone Penetration Testing (CPT) system is a new-generation, continuous drive system that was designed with a clear focus on resilience and efficiency. Its adjustable ballast system and modular design deliver exceptional versatility and operational flexibility.

The Manta 200 CPT is:

Compact

Can be containerised in 3x20 ft containers

Soil versatile

From soft soils like clay to very dense and gravelly sands

Adaptable

Shallow water (up to 150 m) and deep water (up to 1,500 m) settings

Reliable

Uninterrupted penetration for rapid, dependable results

Effortless

Quick setup and deployment. Deployment options include a vessel crane, an A-Frame, or through vessel moon pool

Efficient

Reduced manpower requirements

Streamlined

Simplified maintenance with onshore servicing

Specifications

The Manta 200 CPT consists of essential base equipment, completed with optional ballasts or constant tension winches, depending on the site investigation requirements.

During CPT operations, the Manta 200 CPT is controlled from the vessel by the control box. Data is visualised in real time by the CPT operators. Data, communication and power are received through the umbilical.

Manta 200 CPT specifications	
Maximum thrust capacity	200 kN
Maximum push length	>40 m depending on seabed conditions
Casing tube diameter	55 mm
Water depth rating	150 m (shallow) / 1,500 m (deep)
Power requirement	3 Phase, 380 – 440 V, 50 / 60 Hz, 32 A
Power take off	One PTO section included, pressure controlled 0 – 250 Bar, flow controlled 0 – 40 l / min
CPT cone compatibility	10 cm ² / 15 cm ²
Maximum push / retraction speed	8 cm/s
Dimensions (full de-ballast)	200 cm (L) x 200 cm (W) x 297 cm (H)
Dimensions (full ballast)	297 cm (L) x 297 cm (W) x 327 cm (H)
Weight	6.7 – 28 T
Seismic	Dual Array
Additional winch options	Constant Tension Winch (requires 125 A)
Deployment options	Crane, A-Frame or Moonpool

Components

Base equipment

- Base frame and continuous drive system
- Submersible power pack with hydraulic power take-off function
- Standard mudskirt
- Hoisting frame and 32 mm hoisting wire
- Control and data acquisition unit

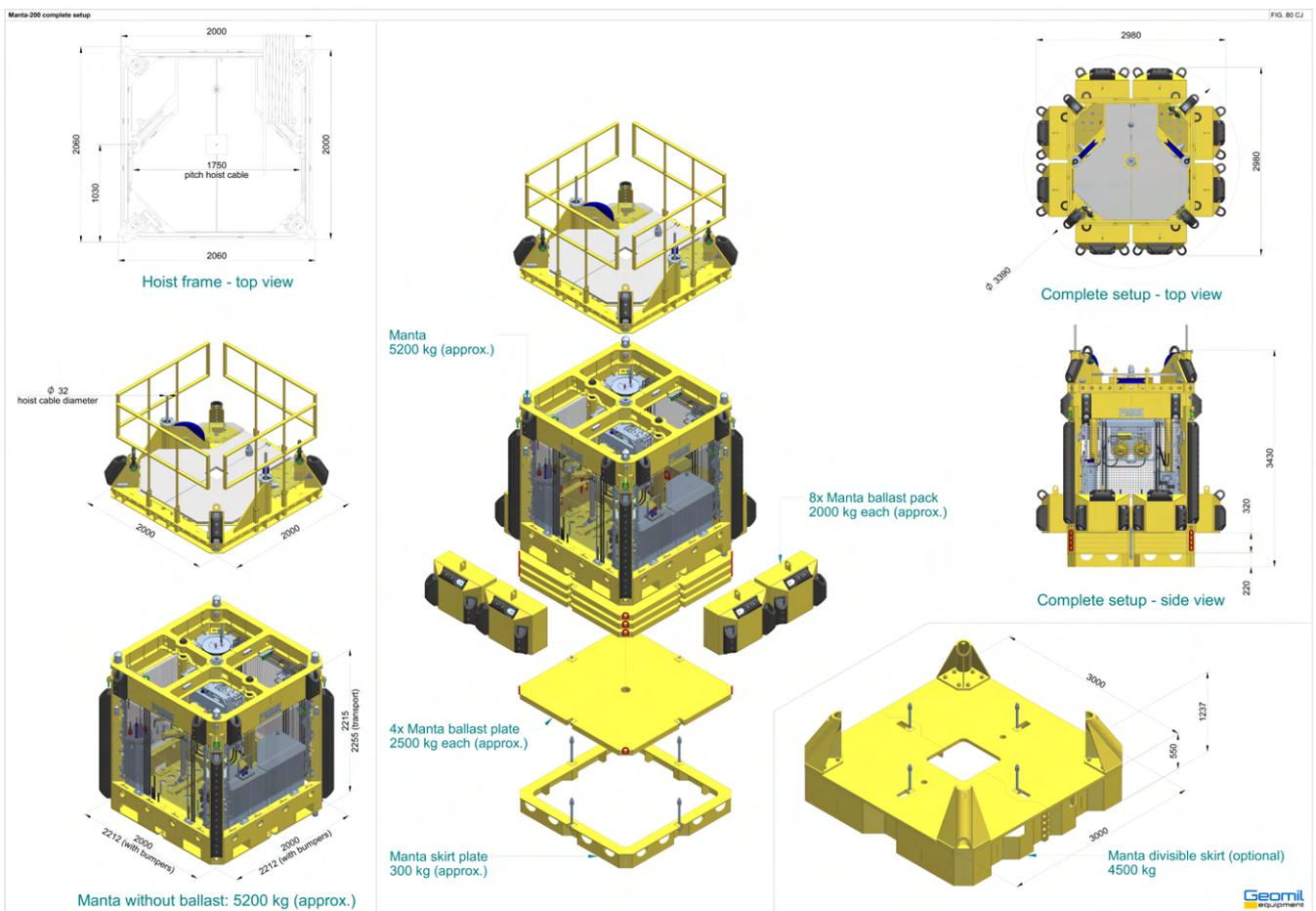
Testing equipment

- 10 cm² / 15 cm² compression and subtraction digital CPT cones
- Digital cables in standard length
- 55 mm casing tubes
- The Geotechnical Sensor Network with its digital data acquisition system GME-700 and supporting software CPTtest and CPTask

Additional equipment

- Constant tension winch (for CPT rods)
- Umbilical winches
- Alternative mudskirts
- Ballast packs and plates

Manta 200 CPT setup



We act across the project lifecycle

Acteon business lines

Intermoor
Mooring and Anchors

Menck
Marine Foundations

UTEC
Geo-services

Solutions

	Site investigation and characterisation	Offshore construction	Asset integrity management	Life extension and decommissioning
	<p>Geophysical and geotechnical surveys</p> <p>Geospatial surveys</p>	<p>Positioning and construction support</p> <p>Integrated marine foundation installation services</p> <p>Mooring solutions</p>	<p>Offshore inspection</p> <p>Monitoring and digital solutions</p> <p>Mooring inspection, maintenance, repair and replacement</p>	<p>Decommissioning engineering</p> <p>Removal and disposal services</p> <p>Asset life extension</p>
Why Acteon	<ul style="list-style-type: none"> • Comprehensive data collection • Well-organised data orchestration • Insightful interpretation • Enhanced asset value 	<ul style="list-style-type: none"> • Robust experience in the most challenging environments • Advanced equipment • Intelligent approach 	<ul style="list-style-type: none"> • Extensive data-gathering • Insightful analysis • Highly efficient maintenance, repair and replacement 	<ul style="list-style-type: none"> • Tailored decommissioning and life extension plans early in the project lifecycle • Efficient offshore execution
What we deliver	<ul style="list-style-type: none"> • Mitigating risks • Optimising design, construction and maintenance 	<ul style="list-style-type: none"> • Ensuring safety • Reducing total cost of installation • Accelerating schedule 	<ul style="list-style-type: none"> • Ensuring compliance • Realising maximum asset lifetime value • Reducing total cost of operations 	<ul style="list-style-type: none"> • Maximising asset value • Limiting decommissioning costs • Minimising environmental risks 

2H Underpinned by agile engineering consultancy that enhances project-critical decisions, optimises economic viability and minimises risk throughout the energy project lifecycle.