

Wahoo-50

Compact seabed CPT system



*World's first manufacturer
of CPT equipment*



The Wahoo-50 is Geomil's most compact seabed Cone Penetration Testing (CPT) system, purpose-built for applications such as cable routing, pipelines, trenching and mooring installations. Built around the renowned Continuous Drive System, it delivers a net thrust capacity of 50 kN achieving penetration depths of up to 8 m below the seabed. True to its name, based on the exceptionally fast wahoo saltwater fish, the Wahoo-50 will reach impressive retraction speeds of 100 mm/s.

Deployment is straightforward: the Wahoo-50 is lowered to the seabed using a single hoisting wire. The tube string design enables efficient operations while minimizing wear and tear.

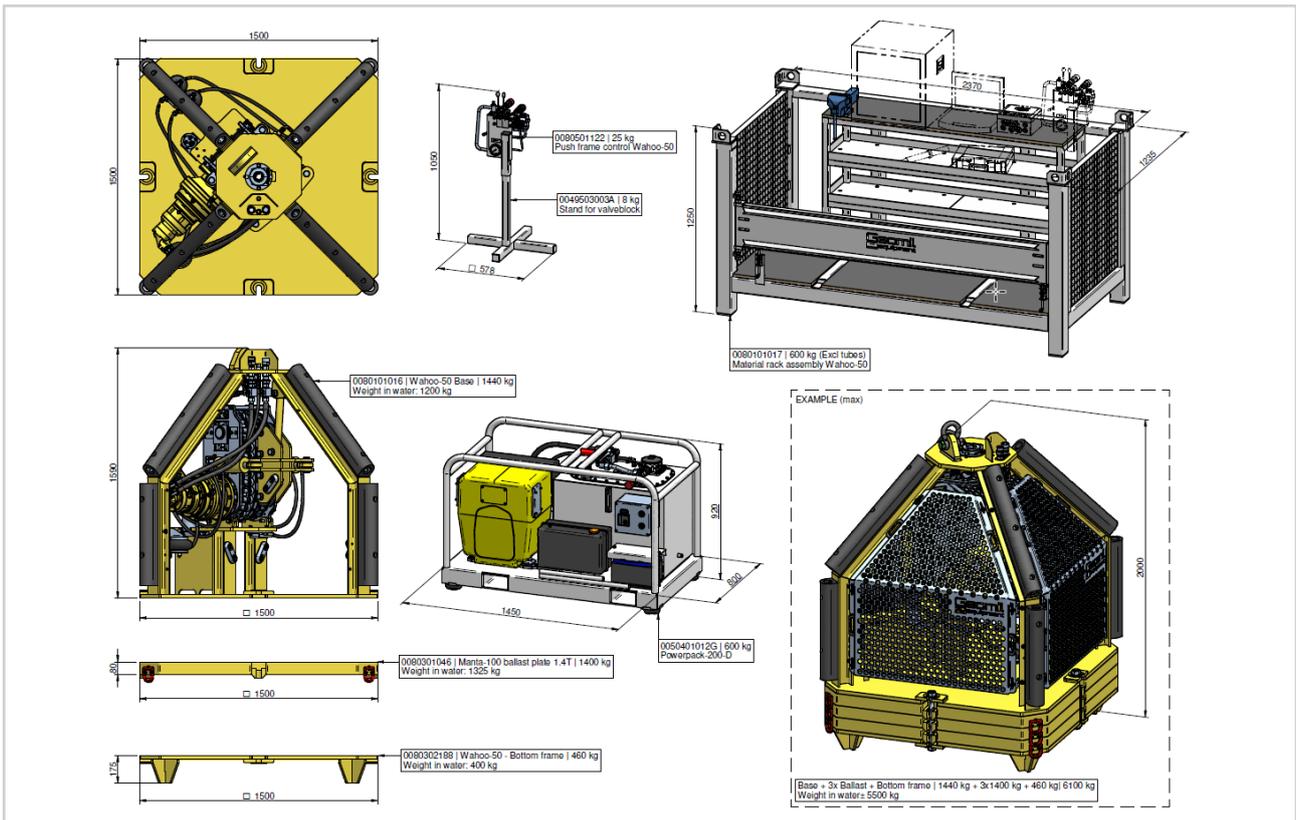
Electrical power supply and data transmission is handled via a manually operated floating umbilical, suitable for operations in water depths of up to 100 m.

The system has a base mass of 1900 kg, with the option to add three additional ballast plates of 1400 kg each. With a maximum height of 1.77 m and a footprint of just 1.5 x 1.5 m footprint, the Wahoo-50 is compatible with nearly any vessel and hoisting facility.



A separate power pack on deck, available in electric or diesel configuration, provides hydraulic power to the system. All the Wahoo components and accessories are easily transportable in a standard 20 ft container.

Compact, efficient, and easy to mobilize, the Wahoo-50 is the ideal seabed CPT solution for shallow testing, rapid deployment, and uncomplicated operations.



Main characteristics of the Wahoo-50

	Ballast plates			
	0	1	2	3
Mass dry (kg)	1900	3300	4700	6100
Mass submerged (kg)	1600	2925	4250	5575
Push capacity (kN)	15	27.5	40	50
Total height (mm)	1770	1850	1930	2010
Footprint L x W (mm)	1500 x 1500			
Maximum penetration depth below seabed	8 m			
Maximum water depth	100 m			
Continuous Drive System (CDS) allowing uninterrupted penetration				
Regulated CPT speed	20 mm/s			
Maximum retraction speed	100 mm/s			
Manual hydraulic operation				
Compatible with GME-700 or GME-800 Geotechnical Sensor Network (GSN) data acquisition system				
Pushing tube diameter	36 mm, thread type HVY			
Compatible with Geomil digital	5, 10 and 15 cm ² cone sizes			
Powerpack:				
Diesel	10 kW			
Electric	7.5 kW, 380-440 Vac, 3 ph, 50-60 Hz, 32 A			

The Wahoo-50 incorporates the following:

- Base frame with Continuous Drive System and fin
- Bottom frame with skirt
- Power pack (diesel or electric)
- Control and data acquisition unit
- Workbench with accessories, foldable tube rack

Supporting items:

- Ballast plates
- Umbilical for power and data transmission
- Cones, cables, tubes (1 or 2 m) with heavy thread

To minimize noise and improve accuracy, the latest digital cones feature integrated AD conversion and onboard memory. All standard cones measure cone resistance (q_c), sleeve friction (f_s), pore pressure (u), inclination and optionally temperature.

Additionally, Geomil supplies the Manta-100 and -200 seabed CPT systems with 100 and 200 kN push power capacity respectively, rated to maximum 1500 m water.

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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