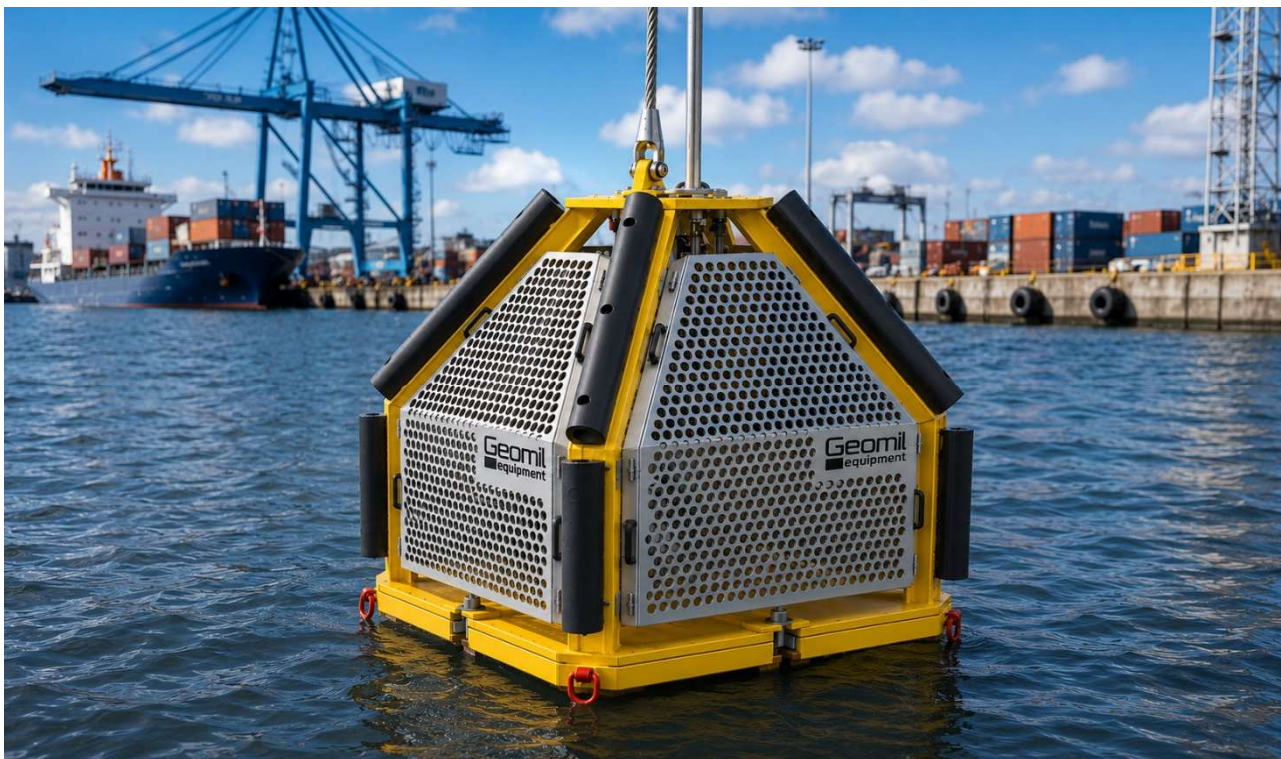


# Wahoo-50

Compact inshore submersible CPT system



*World's first manufacturer  
of CPT equipment*



The Wahoo-50 is Geomil's compact Cone Penetration Testing (CPT) system for inshore testing. Built around the renowned Continuous Drive System, it delivers a net thrust capacity of 50 kN achieving substantial penetration depths. True to its name, based on the extremely fast wahoo fish, the Wahoo-50 can reach retraction speeds of 100 mm/s.

The inshore version of the Wahoo is targeted at a wide variety of projects, such as port developments, quay walls, cable routing and dike monitoring.

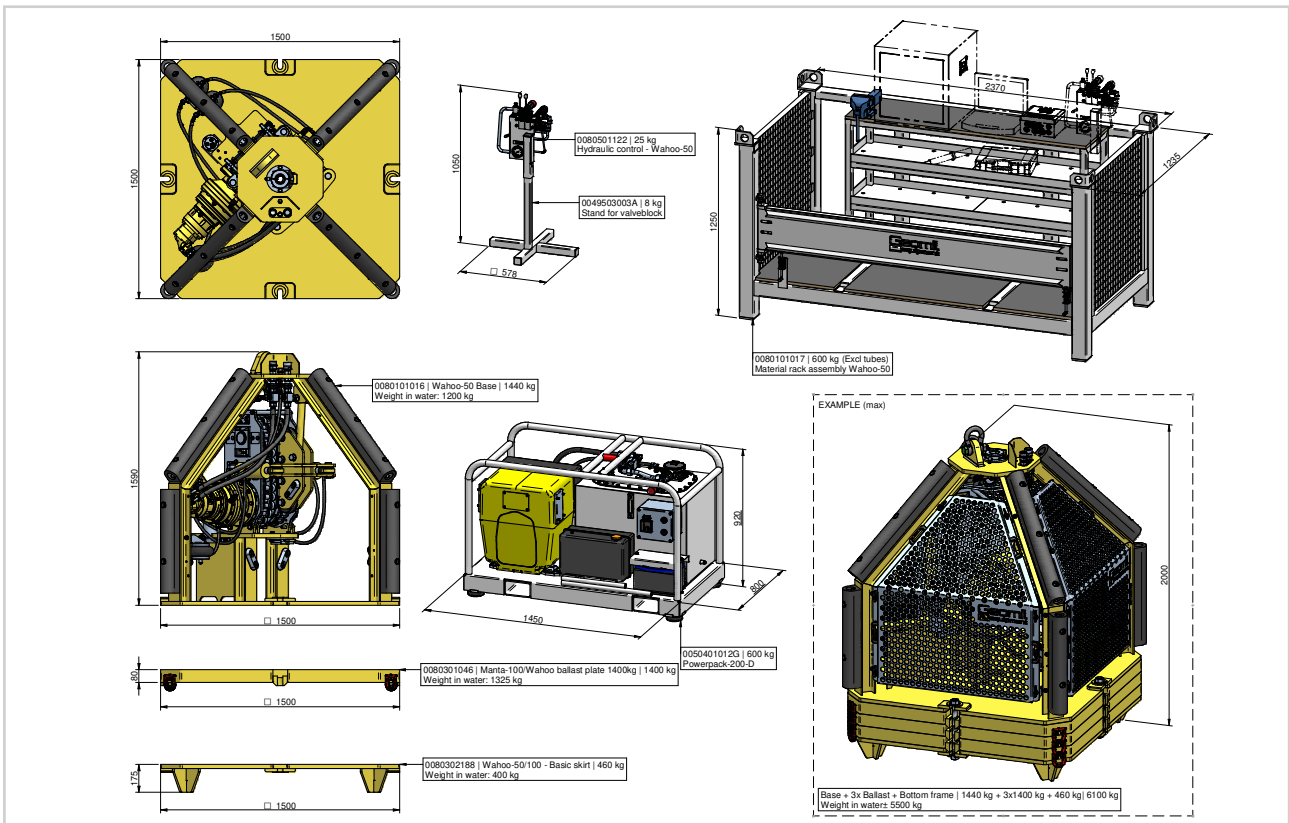
Deployment is straightforward: the Wahoo-50 is lowered using a single hoisting wire. The tube string design enables efficient operations while minimizing wear and tear. Hydraulic supply and data transmission are handled via a manually operated floating umbilical, suitable for operations in water depths 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 base operational height of 1.77 m and a footprint of just 1.5 x 1.5 m, the Wahoo-50 is compatible with nearly any floater and hoisting facility.



A separate power pack 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
Weight in water (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			
Typical maximum penetration depth 10 m				
Typical 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 <sup>2</sup> 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 skirt
- Power pack (diesel or electric)
- Control and data acquisition unit
- Workbench with accessories, foldable tube rack

Supporting items:

- Ballast plates
- 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.

Geomil offers a full portfolio of onshore and offshore equipment, supported by dedicated after-sales and service teams.

The range of inshore solutions is completed by the Shark and Fox series.

Learn more about these options at [www.geomil.com](http://www.geomil.com).



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