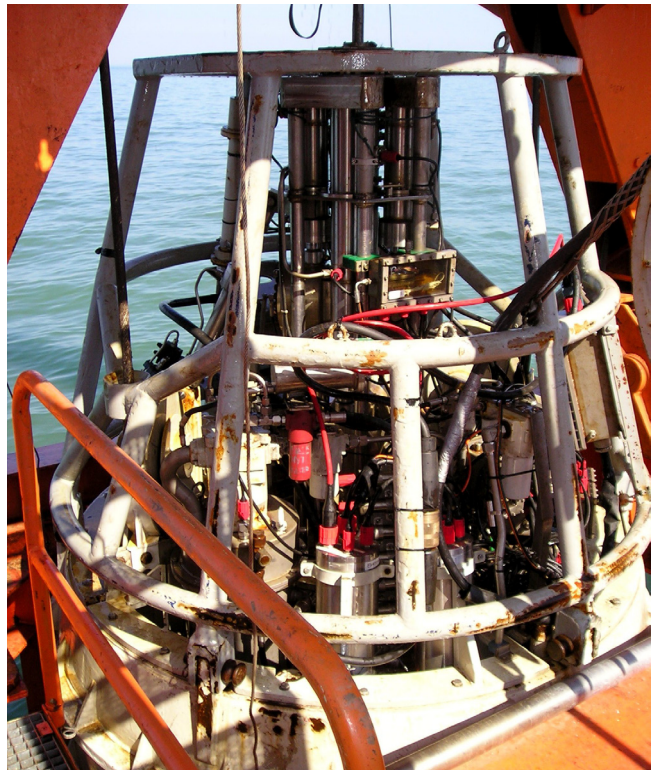


GEOscope



Heavy seabed rig for CPT
 GEO's heavy seabed rig, GEOscope, is a cost-effective and fast operating system for CPT-testing (Cone Penetration Test) in offshore site investigations for wind farms, jack-up rig installations, platforms and subsea structures, bridge and construction works.

Description:
 GEOscope is one of the heaviest seabed rigs on the market and well suited for hard sediments. It has penetrated up to 45 m at sites in the North Sea area.

Despite its weight, GEOscope is flexible and has an easy setup. It operates from both platforms and vessels through either a moon pool or "over the side".

It is a reliable, thoroughly tested system and highly efficient as it conducts up to one test per hour, depending on the composition of the seabed and the weather conditions.

Main features:
 Continuous push/pull thrust machine using a dual hydraulic clamp system.

Modular system configuration allowing 80-200 kN effective thrust.

Up to 10° inclination adjustment of thrust module, this allows work on a steep and sloping seabed.

Current operational limit 270 m water depths.

Continuous registration of all rig and cone parameters combined with fast auto stop functions.

Operated with GEO's "over the side" and moon pool launch and recovery set-up, which ensures safe and controlled operations.



Data for GEOscope:

Manufacture	GEO
Dimensions (Diameter/Height m)	2.40/3.40
Weight in air (kg)	13,000 - 30,000
Weight in water (kg)	9,000 - 25,000
Thrust system	Dual hydraulic clamps for 10 cm ² CPT
Thrust capacity (kN)	200
Rate of penetration (mm/sec)	20
Maximum operational water depth (m)	350 (Current operational limit 270 m)
Inclination adjustment/thrust machine (°)	10
Power requirements	440 VAC/60 Hz or 380 VAC/50 Hz - 18 kW
Hydraulic oil type	Q8 Handel 32
Data acquisition	GEO in-house data acquisition package registration of: <ul style="list-style-type: none">- rig inclination- water depth- seabed contact- hydraulic thrust values- hydraulic thrust and operation values- all raw data communication GEO in-house data acquisition system for CPT cone values.
Launch options	GEOscope "Over the side" platform or through moon pool
Deck space requirement	Approx. 55 m ² including platform and containers

GEO takes reservations for technical changes

GEOscope 2010-03-11

GEO is a Danish engineering consultant and contractor offering geotechnical and geophysical services. In GEO 200 employees offer Denmark's most comprehensive expertise concerning soil and water.

The company's core competences are within geotechnical site investigations, both onshore and offshore. GEO also specializes in geotechnical engineering and is world-leading in geomechanical modelling and geotechnical laboratory testing, particularly Rock Mechanics.

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