

Geos Geotechnical Survey Vessel



Geos is a purpose-built geotechnical vessel equipped with a 4-point mooring system.

Geos is a multi-discipline geotechnical vessel offering a range of drilling, in situ testing and sampling services operated through a central moon-pool or via the vessel's 10-tonnes capacity stern A-frame.

The drill string is advanced using a motion-compensated top-drive power swivel, capable of handling up to a 750m of standard 5" OD API drill pipe.

Geos also features an APVDB downhole CPT Unit equipped with 450m cable. Geos is part of Asian Geos fleet of vessels and has been designed to support the following key areas:

- / Geotechnical investigations for offshore hydrocarbon developments
- / Site surveys for exploration Jack ups
- / Shallow water geotechnical investigations for terminal plant and pipeline shore approach construction
- / Shallow gas investigations including very deep pilot holes



Vessel details

Name	Geos	Navigation	
Type	Geotechnical Survey Vessel (SPS Compliant)	Primary system	1 x Furuno GP-150
Year of build	2009	Secondary system	1 x Anschütz Autopilot
Flag	Malaysian (Port Klang)	Tertiary system	2 x Furuno FR-1505 MARK-3 Radar
Classification	BV	Gyrocompass	2 x SIMRAD GC 80/85
IMO No/Call Sign	9511399 / 9MID4	Echo Sounder	1 x Furuno FE-700
Dimensions			
Length Overall	60.00m	SSB Radio	1 x FurunoFS-2570C
Beam	13.80m	Navtex Receiver	1 x Furuno NX-300
Draft	3.80m	MF/HF DSC	1 x Furuno FS-2571C
Moonpool	2.50 x 2.50m	VHF ICOM	2 x Furuno HS-2003
Clear Deck Area	320m ²	AIS	1 x Furuno FA-150
Accommodation			
Berths	42 (+ 1 hospital + 1 office)	Fleet Broadband	Fleet 77 Email System
Propulsion & Machinery			
Main Engine	2 x Cummins KTA38-M2	Deck Machinery	
Propulsion	2 x 1350 BHP FPP Twin Propeller	A-frame	10 tonnes capacity
Bow thrusters	1 x 520 BHP 6CT8.3(M)	Crane	5 tonnes at 8.0 m
Thrust	3.5 tons	Capstans/Tugger Winches	2 x 5 tonnes bollard pull
Maximum speed	10 knots	4 Point Mooring System	4 x 3 tonnes ea with 1,200m wire
Cruising speed	7 Knots	Safety Equipment	
Capacities			
Fresh water	198m ³	Life Rafts	2 x 20 Pax, 2 x 25 Pax
Fuel oil	582m ³	Life jackets	54 pieces
Endurance	30 days	Work vests	10 x crew saver
		BA sets	9 units
		EPIRB	1 x Saracom EB10
		SART	2 units
		Parachute flares	12
		Hand flares	6
		Line throwing apparatus	4

Geotechnical capabilities

Drilling System			
Derrick	27m	Seabed Sampling and Testing	
Draw works	Pullmaster N50	100kN Push PCPT	1m
Top drive	Dando 1000	50kN Push PCPT	3m
Heave compensation	3m stroke (typical Hs of 1.5-2m)	WIP Sampler	1m
Mud pump	AXG Duplex Power Pump	Undisturbed Sampling	
Mud tanks	2 x 6,000 litres 1 x 3,000 litres	Box Corer	0.5m ²
Drill string	5" API with 4" ID	Vibrocorer	3, 5 and 6m systems
Seabed frame	10 tonnes	Geotechnical Laboratory	
Downhole Sampling and Testing			
Wireline PCPT	1m/3m WISON-APB 450m umbilical 1m Shelby sampler	Photography	Laboratory Vane
Rock coring	Geobore S 85mm core barrel	Sample description	Torvane
Wireline logging	PS logger	Moisture content	Pocket Penetrometer
		Bulk/dry density	UU Triaxial
Reporting			
Offshore field reporting and real-time engineering analyses (e.g. jack-up leg penetration analysis and preliminary pile capacity analysis).			



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