



Vessel Specification Sheet

Geo Focus Survey Vessel



Classification / Flag / Registration

Vessel name	Geo Focus
Owner	Geo Tender IV B.V.
Flag	Dutch
Call sign	PCOS
IMO number	962885
Port of registry	Eemshaven, the Netherlands
Built	2012
Builder	De Haas Maassluis, The Netherlands
Range	1200 NM@ hybrid mode, 650 NM@ operational speed (13 knots), 10-14 days full operation
Classification	Lloyds Register+ 100 A1, SSC, G3 Workboat, MONO, UMS, [+] LMC, DP(AM), EP, Green Passport, 200nm Limit

General dimensions

Length overall	34.50 m
Length between perpendiculars	32.59 m
Length waterline	32.84 m
Air draft (mast down)	13.00 m
Breadth moulded	7.81 m
Breadth overall	8.33 m
Depth	4.23 m
Draft	2.20 m
Gross tonnage	235 tons
Light ship weight	165 tons

Accommodation

Single cabins	2
Double cabins	8
Total accommodation	18 persons
Comfort cabins	High Norwegian standards, WIFI, each cabin provided with toilet and shower.
HVAC system	The air conditioning system is designed for both tropical and arctic conditions. The system has two separated units for the wheelhouse, survey room, and the accommodation below deck to avoid interference in comfort of the crew during 24 hours duty. On the wheelhouse/survey room deck a drop air conditioning system ensures a comfortable work condition without chill flow.
Facilities	Lounge, mess room, galley (HACCP compliant), changing room, internet, TV, library, game console

Capacities

Fuel	1750 m ³
Fresh water	260 m ³
Grey water	2 X 260 m ³
Black water	1 X 260 m ³
Fresh water generator	Aquamar AQE-4D, capacity 3200 l / 24 h

Multifunctional work deck

Deck space	40 m ²
A-frame	SWL 3500 kg, hoisting capacity hydraulic winch 3200 kg, outreach approximately 3 m back-and forward of rotation point.
Deck crane	Knuckle boom marine crane (Heila HLMR 16-3S), 10.97 m reach from crane axis, max. load @ max. reach is 1200 kg @ 10.97 m, load sensing for efficient power request, remote control for easy operation
Moonpools	600 mm
Hatch engine	Clear opening 4.50 x 1.50 m, provides access to the workshop down below in the engine room
Provided power	2 x 400 V (3PH) - 63 A, 2 x 400 V (3PH) - 32 A and 2x230V, 16A
Other facilities	Electric deck heating, grid of container fittings, removable railing, fresh water tap, 25 mm rubber deck coverage, easy cable entry from workdeck to the survey room and technical room, frame for installation of winches
Dynamic position	Alphatron / NAVIS 400 - DP Class 1 (AM) DP. Operations can be executed from both the survey room and the wheelhouse.

Survey equipment

Multibeam	Kongsberg EM2040 Dual RX, 0.4x0.7 Moonpool Mounted (200/300/400 kHz)
Singlebeam	Kongsberg HiPAP 502, hydraulic Gate Valve, transducer depth measurement
USBL positioning	Kongsberg Seapath 385+ (with MRU5+) Exail Hydrins III
Gyro/Motion reference	NORTEK Signature 500 VM ADCP
Survey positioning	Kongsberg Seapath 385+ Veripos LD900
Sound velocity probe	3 x Surveyor desk, 1 x DP desk, 19" rack, meeting table, view on work deck, cable boxes for easy and quick installation of additional equipment
Sound velocity sensor	Separate oce with 2 x Surveyor desk, flex workspace for survey/crew in wheelhouse
Current profiler	AML-3 LGR Valeport Swift
Others	Vigo, moving vessel profiler winch, Easy Acces Survey Mast
KVM systems	G&D KVM matrix switch Control Centre

Machinery / Propulsion

Main diesel engines	2x Caterpillar C18 ACERT 651 KW@ 2200 rpm (6 Cil. In-line)
Gearboxes / DieselElectric propulsion	Reintjes 344 RHS (Hybrid Drive)
Bow Thruster	2x Voith Inline Thruster VIT 380-50
Generators	2x John Deere Genset 209 KW @ 1500 rpm

Speed / Consumptions

Speed	max. 14 knots (C-rating)
Speed Hybrid	max. 9 knots
Transit speed	13 knots / 230 l/h
Survey speed (Hybrid)	8 knots / 50 l/h

Navigation

- Sea Radar X-band (JRC)
- River (JRC)
- ECDIS (Alphachart ECDIS)
- Speedlog
- Echosounder
- DGPS
- AIS
- NAVTEX
- CCTV system on alt deck, top deck & engine room
- Integrated control and alarm system (BIMAC)

Entertainment / Leisure

Broadband connections are provided for personal use throughout the vessel. LAN and WLAN connection is available in each cabin. The mess room and lounge are equipped with a 37" HD LED television connected to SAT TV system, additionally, the lounge provides an audioset and game console.

Communication / Connectivity

- VSAT - Intellian v100NX KU 25W
- Inmarsat Fleet Broadband
- UMTS
- WiFi
- 12 / 24 / 220 / 400 V connections

Sustainable features

- Hoisting eyes on the vessel make it possible to place the vessel on board of a larger vessel to ship it all over the world.
- Hybrid drive so less fuel consumption and less NOx emission.
- Green Passport and Environment Protection (EP) class notification
- Seakeeper Anti-Roll Gyro System
- Very low noise level

Additional features

Interactive LED HD screens are provided in the wheelhouse and survey room for presentation purposes.

