



# Geo Focus

## 35m Hybrid Survey/ ROV support vessel

### Classification / Flag / Registration

Vessel Name	: Geo Focus
Owner	: Geo Tender IV B.V.
Flag	: Dutch
Call sign	: PCOS
IMO	: 9628855
Port of registry	: Eemshaven
Built	: 2012
Builder	: De Haas Maassluis, The Netherlands
Range	: 1200 NM @ hybrid mode, 650 NM @ operational speed (13 knots), 10-14 days full operations
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
Lenght 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

### Geo Plus B.V.

Verlengde Bremenweg 4  
9723 JV Groningen  
The Netherlands

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IBAN: NL78RABO0319034852  
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### Accommodation

Single cabins	: 2
Double cabins	: 8
Total accomodation	: 18 persons

- Comfort cabins : High Norwegian standars, 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.
- Crew facilities : Lounge, mess room, galley (HACCP compliant), changing room, internet, TV, library, game console.

### Speed

Speed	: Max. 14 knots (C-rating)
Speed Hybrid	: Max. 9 knots
Transit speed	: 13 knots
Survey speed (Hybrid)	: 8 knots

### Fuel consumptions

Standby in port	: 300 ltr/day
Sailing (survey)	: 1.000 ltr/day

### Capacities

Fuel	: 17.50 m3
Fresh water	: 2.60 m3
Grey water	: 2 x 2.60 m3
Black water	: 1 x 2.60 m3
Fresh water generator	: Aquamar AQE-4D, capacity 3200 l / 24 h

### Survey Equipment

Multibeam	: Kongsberg EM2040 MKII Single, 0.4x0.7 Moonpool Mounted (200/300/400 kHz) MultiFrequency mode 600/700 kHz
Singlebeam	: Kongsberg EA 400 (hull mounted), 38/200 kHz
USBL positioning	: Kongsberg HIPAP 501 incl. Cymbal mode
Gyro/Motion reference	: Ixblue Hydrins III
Hydr. Positioning	: Trimble SPS852, RTK/DGPS
KVM System	: G&D KVM matrix switch ControlCenter
Sound Velocity Probe	: Valeport Swift (optional)
Sound Velocity Sensor	: Valeport mini SVS
Current Profiler	: Nortek Signature VM500 ADCP
Others	: Geometry Report: Starmountain, Fast mobilisation of additional equipment provided by 19 inch rack space, N ports, cable glands, antenna mount etc.



### Multifunctional work deck

- Deck space : 40 m<sup>2</sup>
- A-frame : SWL 3500 kg, hoisting capacity hydraulic winch 3200 kg, outreach approximately 3 m back- and forward of rotation point.
- Deckcrane : Knuckle boom marine crane (Heila HLMR 16-35), 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.
- Moonpool : 600 m
- Hatch engine : Clear opening 4.50 x 1.50 m provides acces to room 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 2 x 230 V, 16 A
- 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 : Alphanon / NAVIS 400 - DP Class 1 (AM) DP. Operations can be executed from both the survey room and the wheelhouse.

### Machinery / Propulsion

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



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### Communication / Connectivity

- VSAT - Intellian V110
- Inmarsat Fleet Broadband
- UMTS
- WIFI
- 12 / 24 / 220 / 400 V connections

### 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 a SAT TV system, additionally the lounge provides an audioset and game concole.

### 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

### Navigation

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

