



# Geo Ranger

## Hybrid Survey Vessel ROV support vessel

### Classification / Flag / Registration

Vessel Name	: Geo Ranger
Owner	: Geo Tender V B.V.
Operator	: Geo Plus Survey B.V.
Flag	: Dutch
Call sign	: PHHV
IMO	: 9885831
Port of registry	: Eemshaven, The Netherlands
Built	: 2020
Builder	: Royal Niestern Sander, The Netherlands
Range	: 28+ days offshore in full operation
Classification	: Lloyds Register, 100 A1, LMC, UMS, SSC Workboat, G4, DP (AM)

### General dimensions

Length overall (excl. fenders)	: 41.20 m
Length overall (incl. fenders)	: 41.60 m
Length between perpendiculars	: 39.55 m
Length waterline	: 41.12 m
Breadth moulded	: 8.70 m
Depth to maindeck	: 4.25 m
Draft (design)	: 2.25 m
Draft (max)	: 2.40 m
Air draft	: 14.80 m
Gross Tonnage	: 498 GT
Light ship weight	: 421 tons

### Geo Plus B.V.

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9723 JV Groningen  
The Netherlands

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### Accommodation

Single cabins	: 3
Double cabins	: 9
Total accommodation	: 21 persons (incl. marine crew)

Comfort cabins	: Each cabin provided with toilet and shower and individual controlled air conditioning unit
Facilities	: 2 x dayroom, mess room, gym, changing room, internet, TV, game console

### Speed

Speed	: max. 11,15 knots
Transit speed	: 10 knots

### Fuel consumptions

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

### Capacities

Fuel	: 68 m3
Fresh water	: 45 m3
Sewage sludge	: 3 m3
Black water	: 10 m3
Technical fresh water	: 103 m3
Fresh water generator	: Gefico Clan-In-Place unit type CIP-150 Model: 10689, capacity 4.500 l / 24 h

### Machinery / Propulsion / DP

Propulsion	: Diesel Electric
Generator sets	: 4 x Volvo Penta D13 (FE) prime power, 360 kW @ 1500 rpm, IMO Tier II
Stern Thrusters	: 2 x Veth Azimuth Thrusters (L-drive VL-400si) with D&A motor, 400 kW @ 1500 rpm
Bow Thrusters	: 2 x Veth Tunnel Thrusters (VT-180), 192 kW @ 1800 rpm
DP	: DP 1 Kongsberg (K-POS DP11)

### Survey (equipment)

Multibeam (optional)	: Kongsberg EM2040 Dual RX, 0.4x0.7 Moonpool Mounted (200/300/400 kHz)
USBL positioning	: Kongsberg HiPAP 502, hydraulic Gate Valve, transducer depth measurement
Gyro/Motion reference	: iXblue Hydrins III
Current Profiler	: NORTEK Signature 500 VM ADCP
Hydr. Positioning	: Trimble SPS855, C-nav 3050
Moonpools	: 2 x 1200 mm square, hydraulic operated deployment systems, easy/quick and safe installation of equipment and cables
KVM System	: G&D KVM matrix switch ControlCenter
Surveyroom	: 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
Office	: Separate office with 2 x Surveyor desk, flex workspace for survey/crew in wheelhouse
Sound Velocity Probe	: Valeport Swift (optional)
Others	: Geometry Report: Starmountain, Easy Acces Survey Mast

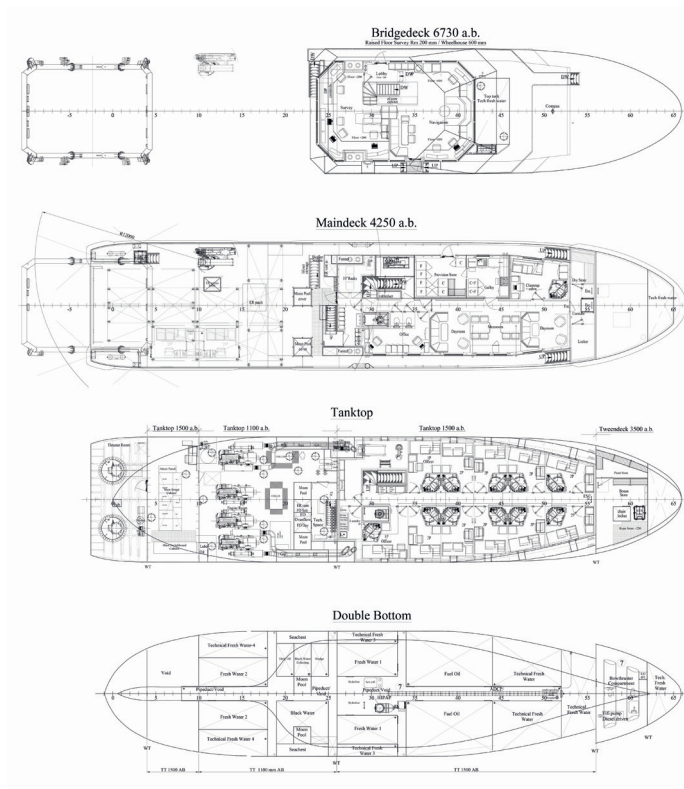


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### Multifunctional work deck

- Deck space : 100 m<sup>2</sup>, executed with container fittings in different configurations.  
Deckload > 45T, 2T/m<sup>2</sup> – locally 3.5T/m<sup>2</sup>
- A-frame : Height 7 m, SWL 8 tons, outreach 4,25 m back- and 3,10 forward of rotation point, winch 4 tons rope length 40 m, combined remote control with deck crane, hydraulic power connection supplied by vessel for installation additional equipment with a capacity of 200 bar @60 ltr/min.
- Deck crane : HS Marine AK40/E4, max 13.45 m outreach, SWL 1790 kg @ 13.45 m / 5490 kg @ 5.30 m, combined remote control with A-frame
- Moonpools : 2 x 1200 mm square, hydraulic operated deployment systems, easy/quick and safe installation of equipment and cables
- Provided power (for client equipment) : 4 x 63 ampere (400V), 4 x 32 ampere (400V), 4 x 16 ampere (230V), 2 x 90 KVA (500V)
- Other facilities : Grid of container fittings to install 10 ft / 20 ft containers, removable railings, fresh water tap, easy cable entry from work deck to technical room and survey room, frame for installation of winches



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### Entertainment / Leisure

- Gym
- WiFi
- SAT TV system + TV's (4x)
- 2 x dayroom, messroom
- Game Console

### Navigation equipment

- Kongsberg K-Bridge Integrated Navigation System
- X-band radar, 25 kW, 1.8 m radar antenna
- X-band radar, 10 kW, 1.8 m radar antenna
- ECDIS (dual)
- DGNSS/DGPS
- AIS
- Echo sounder
- Speed log
- Anemometer (2x)
- GMDSS A2:
  - Sailor 6222 VHF radio simplex w/DSC (2x)
  - Sailor 6310 MF/HF DSC Class A
  - NAVTEX Sailor 6391
- EPIRB TRON 60S
- SART TRON SART 20 (2x)
- VHF radio EM stations SP3520 (3x)
- VHF radios Motorola DM440 (2x)
- VHF radio Portable ATEX VHF Motorola DP4401 (5x)
- CCTV
- Autopilot and Track Control System
- Sound Reception System
- BNWAS

### Communication / Connectivity

- VSAT : Intellian V100GX, Ku-band  
LTE (3G/4G) : Poynting OMNI-291 Ultra-Wide Omni-directional Marine & Coastal LTE & WiFi antennas
- WiFi : Throughout the vessel  
TVRO / TV : Intellian T100w TVRO

### Sustainable Features

Diesel Electric propulsion, heat recovery system, low fuel consumption, low noise, full LED lighting. Possible to run on 100% bio-fuel (HVO).

