



### CLASSIFICATION / FLAG / REGISTRATION

<b>Vessel name</b>	Geo Ranger
<b>Owner</b>	Geo Tender V B.V.
<b>Flag</b>	Dutch
<b>Call sign</b>	PHHV
<b>IMO number</b>	9885831
<b>Port of registry</b>	Eemshaven, the Netherlands
<b>Built</b>	2020
<b>Builder</b>	Royal Niestern Sander, The Netherlands
<b>Range / Endurance</b>	28+ days oshore in full operation
<b>Classification</b>	Lloyds Register, 100 A1, LMC, UMS, SSC Workboat, G4, DP (AM)

### GENERAL DIMENSIONS

<b>Length overall (excl. fenders)</b>	41.20 m
<b>Length overall (incl. fenders)</b>	41.60 m
<b>Length between perpendiculars</b>	39.55 m
<b>Length waterline</b>	41.12 m
<b>Breadth moulded</b>	8.70 m
<b>Draft</b>	1.30 m
<b>Depth to maindeck</b>	4.25 m
<b>Draft (design)</b>	2.25 m
<b>Draft (max)</b>	2.40 m
<b>Air draft</b>	14.80 m
<b>Gross tonnage</b>	498 GT
<b>Light ship weight</b>	421 tons

### ACCOMMODATION

<b>Single cabins</b>	3
<b>Double cabins</b>	9
<b>Total accommodation</b>	21 persons (incl. marine crew)
<b>Comfort cabins</b>	Each cabin provided with toilet and shower and individual controlled air conditioning unit
<b>Facilities</b>	2 x dayroom, mess room, gym, changing room, internet, TV, game console

### MACHINERY / PROPULSION / DP

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

### SPEED / FUEL CONSUMPTIONS

<b>Speed</b>	max. 11,15 knots
<b>Transit speed</b>	10 knots
<b>Standby in port</b>	300 ltr/day
<b>Sailing (survey)</b>	1.000 ltr/day



# VESSEL SPECIFICATION SHEET

## GEO RANGER

HYBRID SURVEY VESSEL / ROV SUPPORT VESSEL

### CAPACITIES

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

### SURVEY EQUIPMENT

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

### MULTIFUNCTIONAL WORK DECK

<b>Deck space</b>	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>
<b>A-frame</b>	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.
<b>Deck crane</b>	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
<b>Moonpools</b>	2 x 1200 mm square, hydraulic operated deployment systems, easy/quick and safe installation of equipment and cables
<b>Provided power (for client equipment)</b>	4 x 63 ampere (400V), 4 x 32 ampere (400V), 4 x 16 ampere (230V), 2 x 90 KVA (500V)
<b>Other facilities</b>	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

### ENTERTAINMENT / LEISURE

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



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### 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

<b>VSAT</b>	Intellian V100GX, Ku-band
<b>LTE (3G/4G)</b>	Poynting OMNI-291 Ultra-Wi-de Omni-directional Marine & Coastal LTE & WiFi antennae
<b>WiFi</b>	Throughout the vessel
<b>TVRO / TV</b>	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).

**WE LISTEN  
THEN DELIVER**

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