



Classification / Flag / Registration

Vessel name	Geo Ranger
Owner	Geo Tender V B.V.
Flag	Dutch
Call sign	PHHV
IMO number	9885831
Port of registry	Eemshaven, The Netherlands
Built	2020
Builder	Royal Niestern Sander, The Netherlands
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

Accommodation

Single cabins	3
Double cabins	9
Total accommodation	21 persons (incl. 7 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

Machinery / Propulsion / DP

Propulsion	Diesel
Generator sets	4 x Volvo Penta D13 (FE) prime power, 360 kW @ 1500 rpm, IMO Tier II 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
Dynamic Positioning	DP 1 Kongsberg (K-POS DP1)

Capacities

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

Survey equipment

Multibeam	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	Kongsberg Seapath 385+ (with MRU5+) Exail Hydrins III
Current profiler	NORTEK Signature 500 VM ADCP
Positioning	Kongsberg Seapath 385+ Veripos LD900
Survey room	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 oce with 2 x Surveyor desk, flex workspace for survey/crew in wheelhouse
Sound velocity probe	AML-3 LGR Valeport Swift
Others	Vigo, moving vessel profiler winch, Easy Acces Survey Mast

Multifunctional work deck

Deck space	100 m ²
A-frame	Height 7 m, SWL 8 tons, outreach 4.25 m back- and 3.10 forward of rotation point
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. Deckload > 45T, 2T/m ² – locally 3.5T/m ²

Entertainment / Leisure

Gym
WiFi
SAT TV system + TVs (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

Satellite internet	Starlink Maritime (mobile priority) VSAT (Intellian V100GX, Ku band)
LTE (3G/4G)	Poynting OMNI-291 Ultra-Wide Omni-directional Marine & Coastal LTE & WiFi antennas
WiFi	46 Project staff
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).