

Neptune

Neptune is a permanently mobilised, 50m, DP1 multi-purpose survey vessel accommodating up to 35 people for a duration of 40 days. The vessel has undergone extensive re-fits in 2008 & 2013 to provide a comfortable and well-considered offshore platform capable of shallow or deep water survey operations. Standard survey mobilisation includes two hull mounted MBES systems, high resolution side scan sonar, magnetometer, USBL, single channel & 2dHR seismic array, as well as both a Vibrocore and CPT system. The vessel can be readily reconfigured to accommodate a small WROV. A fully enclosed survey workshop/garage opens directly onto the large main deck and 10T A-frame. Winch and container storage platforms above the main deck level allow a clear working space to be maintained during multi-discipline survey operations.



Specifications

Vessel Detail

IMO No.	7504237
MMSI No.	251554110
Call Sign	TFNX
Flag	Iceland
Classification	Multi-purpose DP1 Survey vessel
Year built	1976
Last refit	2008/2013
Length overall	49.85m
Beam	9.5m
Draught	6.2m
Tonnage	1078.63 GT
Operating range	23460 nautical miles
Main deck space	37m ²
Secondary deck space	72m ²

Electrical Power

Aux Generators	2 x 380 Volts 2 x 721 Amps
Emergency Generator	230 Volts 17.5 Amps
No.s Battery Pack	4

Deck Machinery

A-Frame	10 tonne 8m clearance height 6m clearance width
Deck crane	1,960 tonne @ 9m 6,200 tonne @ 3.0m 9m reach

Capacities

Fuel	468.1m ³
Fuel consumption	2.5 - 3.0 ³ /day
Water	53 m ³
Water Making	15m ³

Accommodation

Total Berths	35
Total Cabins	22 + Hospital
Online Survey Room	23m ²
Offline Survey Room	14m ²
Meeting Room	23m ²
Gym	1
Recreation Room	10+

Safety

Rescue/MOB Boat	Boat Narval 25 HP 6 persons capacity
Life Rafts	4 x Total 70 persons capacity 2 x 10 persons 2 x 25 persons
Survival Suits	35
Life Jackets	42
Work Vest	7
Emergency radios/Beacons	3 x sailor SP3520

Communications

Radio	2 x VHF Sailor Compact RT 2047 2 x VHF Skanti 1000
Internal Radio	ClearComm System
Internet	VSAT SeaTel 4006
TV	VSAT SeaTel 5004
Telephone	VSAT Sat 2mb 512 Kbs phone
Radio	Sailor System 5000 250w

Control & Navigation

Autopilot	Simrad AP 50
DP System	cPos/Kongsberg
Radar	JRC-JMA 5210-4/6 JRC-JMA 5310-6
Electronic Charts	MaxSea CM93 MaxSea S57
DGPS	Kongsberg Seatex DPS 200
GYRO	Sperry Navigat MK 1 JRC GPS Compass
MRU	Kongsberg MUR_D
Speed Log	Doppler
Echo Sounder	JRC JFC-130HP
NAVTEX	NAV5 GMDSS
AIS	JRC JHS-182
Doppler	JRC JLN-628

Engine & Machinery

Main Engine Power	1800 HP/ 1320kw
Bollard Pull	28 Tonnes
Aux Engine 1 Model	Deutz
Aux Engine 1 Power	BA8M 816GR
Aux Engine 2 Model	Yanmar 6AYL-ET
Aux Engine 2 Power	580 HP/438
Bow Thruster Power	330 kw
Stern Thruster Power	257 kw
Max Speed	12 kts
Cruising speed	11.5 kts

Survey Equipment

Hydrographic	2 x C-NAV 2050 dGPS (with RTG) Applanix POS MV320 MRU IXSEA GAPS USBL Reson Seabat 7125 Shallow water MBES Reson Seabat 8160 Deep water MBES Odom Echotrac 600RT SBES Klein 3000 SSS Geometrics G-882 magnetometer
Geophysical	3x3 hull mounted 'Pinger' array GeoResources Geospark 200 24 or 96 channel streamer array 0 or 160 cubic inch seismic source Reavell compressors
Geotechnical	Datam Neptune 5000 CPT GeoResources GeoCorer6000
Environmental	Day Grab Drop down freshwater lens