



Neptune



MV NEPTUNE

The MV Neptune was purchased in 2008 and has since had its engines and systems completely overhauled along with the accommodation. Numerous alterations were also made to support various types of offshore survey projects. In 2010 the upper deck was extended to provide space for two winches and a Reson 7125 MBES was hull mounted. The vessel has a permanently mobilised survey spread, ample deck and garage space and has the ability to undergo rapid installation of various survey equipment to meet the specific needs of a project.

The vessel was originally designed and constructed for work in cold weather localities; most work areas are enclosed and heated with either a hot water heating system or electric heaters. Air conditioning has been installed to enable complete climate control when working in warmer localities.

During her 2008 refit a Kongsberg Dynamic Positioning system was installed which is designed to minimise fuel consumption and wear and tear on the propulsion equipment. Additionally, the main engines were completely overhauled along with ships generators and various other integrated ships systems to offer the very latest available cost reducing and environmentally friendly technology. The DP system provides excellent station keeping ensuring efficient and safe operations.

The survey spread installed permanently includes two sidescan sonar systems supporting low, high and very high frequencies, a hull mounted Reson 7125 SV Multibeam Echosounder complimented by a POS MV 320 inertial/GPS Motion Reference Unit, a unique ROV mounted 12 Gradiometer array, towed magnetometer and three ROVs.

The vessel has one stern A-frame rated at 4 tonnes. This is supplemented by a 2 tonne deck crane. The vessel has ample amount of deck space and a large garage to store all the survey equipment conveniently and safely.

MV Neptune is certified with Class A ice rating. The Ice classification increases in-transit safety to and from high-latitude operating areas and allows greater operating capabilities in areas where an immediate threat of contact with pack ice exists.

Neptune ehf firmly believe that the environment in which our employees and crew work is of paramount importance and for this reason the cabins have been upgraded to the highest of standards with satellite TV and IP phones installed in every room. A modern gymnasium has been installed along with a comfortable TV and games room for recreational use.

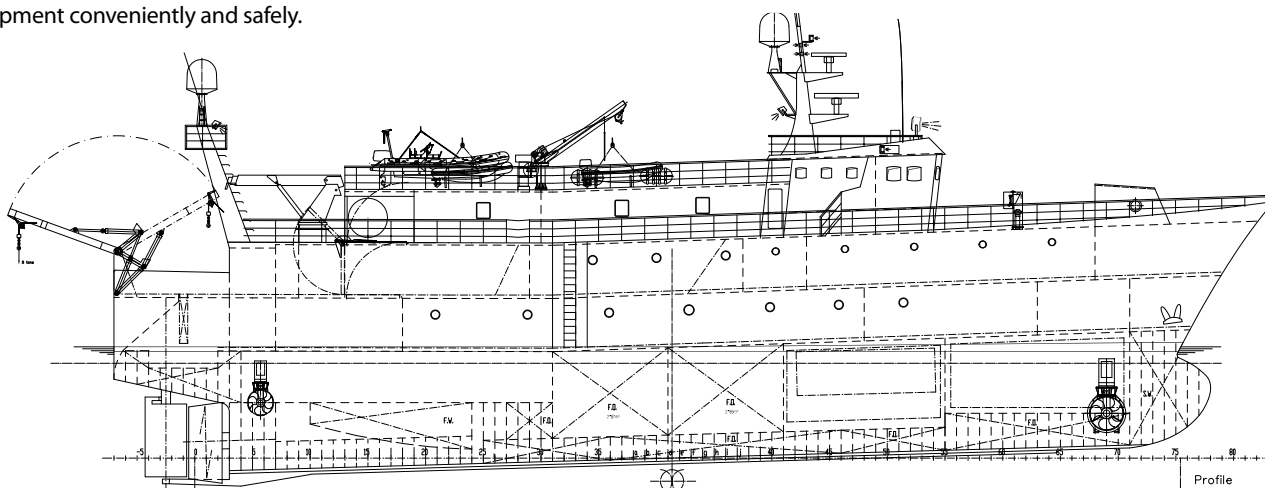


Both the online and offline survey rooms were designed to provide a spacious and modern working environment for on-board personnel, incorporating the latest technologies available to streamline offshore operations. A large conference room was also installed for project presentations and daily meetings.

From her launch in 2008 through to 2010, the MV Neptune has been employed in the Russian sector of the Baltic Sea on the high profile Nord-Stream project. After successfully being awarded several extensions to the original contract, the works performed using MV Neptune ultimately comprised almost 2000km of gradiometer surveys, over 2500 ROV visual inspections, sixteen cable crossing surveys, nineteen wreck inspection surveys and almost 50 controlled explosions to remove munitions and mines from various wars in the region.



MV Neptune performed extremely well in this demanding environment where typical annual temperatures range from -13 to +21°C.



Name	Neptune	Built	1977	Call Sign	TFJC
Classification	Multi-purpose Survey Vessel	Re-Built	Iceland 2008. Total overhaul, 2009 Minor alterations	MMSI No.	251554110
Owner	Neptune ehf	Flag	Iceland	IMO No.	7504237

Dimensions	
LOA	49.8m
Beam	9.6m
Draught	5.6m
Tonnage	GT 530
Operating Range	9700nm
Clear Deck Space	100m ²

Accommodation	
Cabins	Up to 35 persons
Recreation	1 x Living Room 1 x Gym
Online Survey Room	18m ²
Second Survey Room	18m ²
Conference Room	28m ²

Machinery	
Main Engine	1820 HP Alpha Diesel + reduction gear
Aux Engine	2 x 550HP Deutz
Bow Thruster	1 x 330kW Tunnel
Stern Thruster	1 x 257kW Tunnel
Max Speed	12 knots
Cruising Speed	10.5 knots

Electrical Power	
Auxiliary Generators	360 amp Stamford
Emergency Generator	360 amp Stamford
Clean Power	UPS 4 x 3000VA UPS 2 x 8000 VA with 4 extra battery packs

Capacities	
Fuel Capacity	486 m ³
Fuel Consumption	4000 litres/nm
Water Capacity	57m ³ fresh water
Water Making	15 m ³ per day Aero Osmosis

Deck Machinery	
Stern A Frame	1 x 4.0t extending
Deck Crane	1 x 2.0t 9m
MOB Davit	1 x 0.75t
Winch	1 x fast winch

Control and Navigation	
Autopilot	Simrad AP-50
DP System	Kongsberg cPos
2 x Radars	JRC JMA-5330 S-Band JRC JMA-5300 X-Band
Electronic Chart	MaxSea 2D/3D
2x DGPS	SEATEX DPS-200 System Fugro SeaSTAR G2
2x Gyro	Sperry Navigat X MK1 TSS Meridian Surveyor
MRU	Kongsberg MRU-D
Speedlog	JRC JLN-628BB Doppler Current Meter 240kHz
2 x Echosounder	JRC JFC 130HP
NAVTEX	JRC NRC-300A
Weather Facsimile	Furuno Fax-210
AIS	JRC JHS 182

Communications	
Radio	Sailor System 5000 250W, GMDSS Area A3 with temp. A4
Internal Radio	ClearComm system
Internet	VSAT Sea Tel 4006
TV	VSAT Sea Tel 5004
Phone	VSAT 2mb, 512Kb Iridium Inmarsat-C IP Telephone Network.

Safety	
Rescue / MOB Boat	1 x 25hp RIB, 6persons
Life Rafts 200%	2 x 25 persons 2 x 10 persons
Survival Suits 100%	35
Life Jackets 200%	70
Work Vest	15
Emergency Radios / Beacons	3 x Sailor
MOB System	Raymarine LifeTage

Survey Spread	
2x GNSS	C&C Tech CNAV 2050s, Net 1 and Net 2
Acoustic Positioning	IXSEA GAPS
MRU	Applanix POS MV 320 & SMC IMU-108
MBES	Reson 7125 SV (200&400kHz)
SBES	Reson Navisound 620RT
2 x Sound Velocity Probes	Valeport minis
2 x Sidescan Sonars	CMAX with LF and HF modules
ROV	Sperre 30k Sperre 3000 Sperre 4500
Gradiometer	9 array Innovatum Smartsearch

