



Neptune



MV POSEIDON

Neptune purchased the Poseidon in 2009 and has since completely overhauled the vessels engines, and refurbished the entire vessel to the highest of standards in keeping with our policies and guidelines. The vessel has a permanently mobilised survey spread including two hull-mounted multibeam echosounders; a shallow water system and a deep-water system, and an IXSEA GAPS USBL tracking system deployed through a purpose built moonpool. The vessel offers an especially versatile platform on which to install a large range of survey equipment and provide IRM/ light construction capabilities with its 20 tonne stern A-frame and a 5 tonne side A-frame. Since her launch in 2010 the MV Poseidon has completed two major projects; one involving a large amount of 2D seismic surveys, the second comprised numerous environmental surveys. Both projects were undertaken offshore Greenland during its freezing and icy winter.

In 2009 the MV Poseidon entered dry dock to be upgraded to Neptune ehf's standards and to become a multipurpose survey vessel with light construction capabilities. During the upgrade, a Kongsberg +1 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. MV Poseidon has since undergone extensive sea trials and undertaken major projects demonstrating that the vessel provides excellent station keeping ensuring efficient and safe operations.

Further significant modifications included the installation of a moonpool equipped with a fully retractable USBL pole and Reson Multibeam and Single Beam Echosounders mounted on the hull. Provision for a hull mounted 9 element array sub-bottom profiler system was incorporated into the keel.

A 20 tonne A-frame was installed on the stern of the vessel and an additional 5 tonne A-frame installed on the starboard side. The large stern A-frame is capable of launching both heavy and bulky items of survey equipment. The second a-frame on the starboard of the vessel was purpose designed to launch an ROV safely and efficiently and has been proven as an ideal deployment solution for various seabed sampling apparatus.

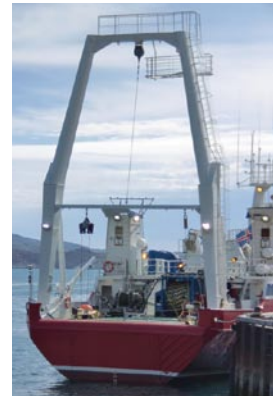
The vessel also benefits from extremely generous deck space of 300 m². It can be used to store extensive survey equipment, materials and samples and to provide extra accommodation if required.

The vessel now comes equipped with the ability to manufacture fresh water from seawater whilst underway and with the economical upgrades to the propulsion system an improved ocean-going endurance has been achieved.

Neptune ehf firmly believe that the environment in which our employees and crew work is of paramount importance and for this reason all 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.



During 2010, MV Poseidon returned to dry-dock and was equipped with a 3000m capable Multibeam Echosounder and a Deep-Water Single Beam Echosounder, further extending her operational capabilities from continental shelf to ocean basins.

Full details of all the permanently installed equipment is found on the specification page.

With our extensive experience and exhaustive suppliers database we are able to source and rapidly install many other surveys systems to meet the requirements of a wide range of offshore projects.

The MV Poseidon has recently completed two significant projects. The initial project consisted of numerous environmental sampling locations and geophysical surveys utilising a high resolution 2D Seismic spread. The subsequent project involved a large number of environmental surveys including the use of both the Reson 7125 SV and Reson 8160 MBES concluded by an extensive environmental sampling programme.



Both projects were undertaken offshore Greenland, the latter was successfully conducted throughout winter amid some of the harshest environmental conditions on Earth. Both contracts were fulfilled using MV Poseidon without lost time incidents or accidents, contributing to Neptune ehf's exemplary safety record.

Name	Poseidon	Built	Spain 1974	Call Sign	TFJC
Classification	Multi-purpose Survey Vessel	Re-Built	Iceland 2009. Total overhaul	MMSI No.	2511730000
Owner	Neptune ehf	Flag	Iceland	IMO No.	7363217

Dimensions	
LOA	68.66 m
Beam	11.6 m
Draught	6.1 m
Tonnage	GT 1411.88
Operating Range	7500 nm
Clear Deck Space	300 m ²

Accommodation	
Cabins	for 33 personnel 9 single cabins 12 double cabins
Recreation	1 x Lounge 1 x Gym
Online Survey Room	27 m ²
Second Survey Room	23 m ²
Conference Room	20 m ²

Machinery	
Main Engines	2 x MaK 1420 hp
Bow Thruster	1 x 500kW Tunnel BRUNVOLL SPX-VP 1700
Stern Thruster	1 x 500kW Tunnel BRUNVOLL SPX-VP 1700
Max Speed	12 knots
Cruising Speed	9 knots

Electrical Power	
Auxiliary Generators	1 x INDAR 450M 550 KVA
Emergency Generator	1 x AvK DSG62L1-4
Clean Power	UPS 4 x 3000Va 2 x 8000 VA with 4 extra battery packs

Capacities	
Fuel Capacity	294 m ³
Fuel Consumption	320 litres/hour
Water Capacity	120m ³ fresh water
Water Making	4 m ³ per day

Deck Machinery	
Stern A Frame	1 x 20.0t extending
Port A Frame	1 x 5.0t extending
Deck Crane	1 x 3.0t 12m

Control and Navigation	
Autopilot	ANSCHUTZ PilotStar-D
DP System	Kongsberg cPos
2 x Radars	JRC JMA-5330 S-Band JRC JMA-5300 X-Band
Electronic Chart	ECDIS
2x DGPS	SEATEX DPS-200 System FUGRO SEASTAR G2
2x Gyro	Sperry Navigat X MK1 TSS Meridian Surveyor
MRU	Kongsberg MRU D
Speedlog	BEN Anthea and JRC Doppler log
2 x Echosounder	SIMRAD ES60 Atlas 872
Weather Facsimile	Furuno Fax-210
NAVTEX	Navtex JRC NRC-300A

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	
MOB Boat	6 persons
Life Rafts	6 x 12 persons
Immersion Suits	33
Life Jackets	33
Work Vest	20
Emergency Radios	3 x Sailor

Survey Spread	
2 x DGPS Positioning	C-NAV 3050
2 x Acoustic Positioning	IXSEA GAPS
Motion Reference Unit	Applanix POS MV320
2 x Single Beam Echo sounder	Reson Navisound 620RT & Teledyne EchoTrac CV200 12kHz
2 x Multibeam Echo Sounders	Reson 7125 200/400kHz and Reson 8160 50kHz
2 x Sound Velocity Probes	SVP Midas SVX2 (dual)
2 x Gyro's	Meridian Surveyors
2 x Side scan Sonar	CMAX with Lf and HF modules
Sub Bottom Profiler	Fittings and cables for 9-array setup

