

Skandi Neptune

7



Type:
Construction / Flexlay

Classification:
DNV, 1A1, EO, DYNPOS
AUTR SF, DK+, HELDK

The *Skandi Neptune* is a construction / pipelay vessel that can support flexible pipelay, umbilical installation and deepwater construction. The vessel is equipped with a vertical lay system* (100t top-tension capacity) and twin ROVs.

- Length 104m x breadth 24m
- Deck area 1,180m²
- Heave compensated 250t crane
- Vertical Lay System* handles products up to 16-inch diameter and maximum 100t weight
- 2 x workclass ROVs

Skandi Neptune

General Information

Classification	DNV, 1A1, EO, DYNPOS AUTR SF, DK+, HELDK
Built	Brattvaag Skipsverft, Norway (2001)
Conversion	BMV, Norway (2005)
Flag State Authority	NIS (Norwegian)
Port of Registry	Bergen
IMO Number	9205720

Dimensions

Overall Length	104.2m
Breadth	24.00m
Depth (to construction deck)	10.45m
LPP	96.483m
Draught (maximum) Summer	6.40m
Draught (minimum)	4.30m
Draught (including skeg)	7.2m
Deadweight	5,300t
Gross Tonnage	7,941t
Net Tonnage	2,383t

Manoeuvring and Propulsion Systems

Main Engines	2 x 1,530kW (Wartsila 9L20) 2 x 3,600kW (Wartsila 8L32)
Generators	2 x 1,650kVA (Siemens) 2 x 3,820kVA (Siemens)
Main Propulsion	2 x 3,700kW azimuth thrusters
Tunnel Thrusters (bow)	2 x 883kW, 2,200 Kamewa
Azimuth Thruster (bow)	1 x 880kW retractable
Bollard Pull	125t

Dynamic Positioning Systems

DP Classification	DYNPOS AUTR (Class II)
DP System	Kongsberg Simrad SDP 22
Reference Systems	1x GPS 1 Seatex DPS 200 1x GPS Seatex DPS 132 1 x Tautwire HiPAP 500 HPR 400
Transponder winch with 3,000m of cable	

Speed / Consumptions

Economical Speed	12 knots at 25t/per day
Full Speed	15 knots at 36t/per day
DP Operations	7-10t/per day

Tank Capacities (100%)

Fuel Oil	1,710m ³
Fresh Water	966m ³
Ballast Water	3,485m ³
Lub. Oil	55m ³
Waste Oil	88m ³
Maximum Fresh Water Production	75m ³ per day

Cargo Deck

Deck Area (shelter deck)	1,180m ²
Deck Strength (steel deck - 780m ²)	10t/m ²
Deck Strength (steel deck - 400m ²)	4t/m ²

Deck Cranes

Main Deck Crane with HAWK online system (Main Line)	250t at 14m (alongside) 190t at 12m (2,500m depth)
Main Deck Crane (Whip Line)	20t (2,500m depth)

The main deck crane (National Oilwell) is certified for ship to ship transfers and is fitted with an active heave compensation system on both the main and whip lines. Two 10 tonne crane tuggers are also installed.

Auxiliary Deck Crane I (starboard side)	5t at 20m
Auxiliary Deck Crane II (port side)	5t at 22.5m

Both auxiliary cranes have personnel lift modes with an SWL of 1.5t.

ROV Systems

The vessel is fitted with two side launched 3,000m rated workclass ROVs. Both units are housed in a purpose-built ROV hanger.

Survey

Comprehensive, fully networked online and offline suites capable of supporting construction and inspection activities.

Moonpool

A single centreline moonpool (7.2m x 7.2m) is fitted.

Vertical Lay System*

The Subsea 7 PVLS is used to deploy umbilical and flexible product of various weights, lengths and diameters. Two tensioners are mounted in the tower while the product is fed over the upper chute from a reel drive or carousel system. This method ensures that there are minimum loads on the product through any bends, even when the lay loads are at the 100Te capacities. A load compensating lower chute ensures the product is fed into the system at the correct angle and helps maintain the desired back tension. The system has been designed with an MBR of 5m.

The PVLS tower can be moved inboard for transit and outboard for operation by sliding on its base.

Accommodation

106 persons	
Single Cabins	48
Double Cabins	29

In addition to recreation rooms, the vessel is also provided with two client offices, a client conference room and two ROV control rooms.

Helideck

The vessel is fitted with an approved and certified helideck. The helideck has a D value of 19.5 and is approved for Super Puma L2 helicopters. A Kongsberg Simrad helideck monitoring system is installed.

Communication System

The vessel is fitted with Inmarsat B and C and also a Telenor Sealink system.

* Subsea 7's use of the Vertical Lay System (VLS) is under licence from Technip