North Sea Atlantic

New build multi-purpose construction vessel
The North Sea Atlantic is a multi-purpose construction vessel designed to deliver pipelay, subsea construction and survey projects.

**Capabilities**

The North Sea Atlantic provides a stable working platform for the most demanding offshore projects; her unrivalled lifting capacity and large deck space combined with state-of-the-art navigation equipment provides the versatility required in the modern subsea market. This multi-purpose construction vessel provides a cost efficient solution to carry out a range of offshore activities including pipe laying, subsea construction and survey.

**Seakeeping characteristics**

The North Sea Atlantic is a large vessel equipped with innovative roll reduction tanks to allow increased operability even in the harshest weather conditions. The vessel takes advantage of the latest technologies to provide efficient station keeping characteristics and enhanced reliability.

**Working deck**

The main deck is flush and provides an excellent working platform with its high tensile steel construction and large uniform loading capacity of 15 Te/m². The 1,900 m² deck area may be used for project equipment, with the ability to weld over the entire deck area; removable bulwarks in overboarding areas facilitate crane operations. The moonpool area is reinforced to accommodate Technip’s Vertical Lay Systems and Openable VLS. The aft deck area is also reinforced locally to allow the installation of a 2,000 Te, 20 m deck carousel.

**Cranage**

Fitted with a 550 Te active heave compensated box boom crane, the North Sea Atlantic offers unrivalled lifting capacity with the ability to work to water depths up to 3,000 m. The crane is equipped with all modes and functions that can be expected from the latest generation of subsea cranes. A whipline capacity of 40 Te at all radii combined with long reach allows the crane to perform the most critical pipelay related tasks. The main crane is supplemented by an active heave compensated 50 Te knuckle boom crane and 2 stores cranes with lifting capacity of 5 Te and 2 Te.

**ROV**

The two work class ROVs are the latest LARS Triton XLL vehicles with 150 hp and rated to 3,000 m water depth.
Reference systems
Kongsberg HAIN system
- 2 x HiPAP 500
- 2 x DGPS
- 1 x Seapath
- 1 x Radius 1000

Environmental Regulatory Number
99999999

Power plant
- 4 x 4220 kW
- 2 x 1200 kW (harbour & emergency)
- Total generated power 18 MW

Propulsion
- Stern
  - 2 x 4.5 MW azimuth thrusters
- Bow
  - 2 x 2.2 MW tunnel thrusters
  - 2 x 2.0 MW retractable azimuth thruster

Service speed
- Transit speed 13 knots

Helideck
- Certified helideck for 15 Te take off weight (Sikorsky S92)

Accommodation
- 120 persons

Lifesaving appliances
- Lifeboats 2 x 120 persons
- 1 x Fast rescue craft
- 1 x M.O.B Boat

Work moonpool
- 7.2 m x 7.2 m
- Designed & strengthened to accommodate VLS 6, VLS 7 & OVLS

Flag
- Malta

Classification

Year built/Builder
- 2014, Bergen Group BMV, Bergen, Norway

Specifications

Cranage
Main lifting facilities
- Manufacturer National Oilwell Varco
- 1 x Active heave compensated/constant tension box boom crane
- 550 Te @ 12.5 m (harbour mode)
- 450 Te @ 11.5 m (subsea mode)
- Auxiliary hoist 40 Te @ 46 m
- Maximum working depth 3,000 m main hoist
- Maximum working depth 2,500 m auxiliary hoist

Additional lifting facilities
- 1 x Heave compensated 50 Te @ 15 m knuckle boom crane
- Deck crane 1 x 5 Te @ 15 m
- Auxiliary crane 1 x 2 Te @ 16 m

Carrousel
- 1 x below deck carousel 20 m diameter, 2,000 Te capacity

Deck space
- Main deck area 1,900 m² of Z grade high tensile steel deck @ 15 Te/m²
- Main deck aft is reinforced to enable future use of a 20 m diameter, 2,000 Te deck carousel

Capacities
- Marine diesel oil 2,100 m³
- Fresh water 600 m³
- Technical water 1,200 m³

Service air
- 4 x screw compressors
- 3 m³ receiver 1550 m³/hr

DP system
- DP Class 3 Kongsberg K-Master bridge

Focus on key technical specifications and systems of the North Sea Atlantic.

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Capacities
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Service air
- 4 x screw compressors
- 3 m³ receiver 1550 m³/hr

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Environmental compliance
- The North Sea Atlantic is fitted with the latest emission reduction technologies to minimise the environmental impact of operations worldwide. She has a NOx reducing Selective Catalytic Reduction system and CLEAN DESIGN class notation which is in line with Technip’s continuing commitment to the environment.

Machinery propulsion
- The vessel is powered by a diesel-electric power plant consisting of four Wartsila generator sets of 4.22 MW each. This system provides ample power and versatility required for DP operations and use of heavy equipment such as VLS towers and the 550 Te heavy lift crane. The propulsion is composed of two main azimuthing thrusters with controllable pitch propellers producing a total of 9 MW. The forward area of the vessel houses two tunnel thrusters and two retractable azimuthing thrusters totalling 8.4 MW produced power.

Station keeping
- The North Sea Atlantic is equipped with a fully redundant Kongsberg IMO equipment class 3 station keeping system. This allows the vessel to fulfil the highest station keeping requirements even in case of worst single failure or loss of a single compartment.

Accommodation
- The accommodation provides modern high standard facilities for up to 120 personnel. Onboard facilities include hospital, client office with outside view, conference and internet facilities as well as a gymnasium and cinema. The accommodation is fully compliant with the latest requirements for crew amenities and noise standards.

Helideck
- The helideck is internationally classes to CAA standard and is dimensioned for Sikorsky S-92 helicopters with increased structural capacity to allow helicopters up to 15 Te.

Depth. The ROVs are launched using the latest rail launch and recovery systems that provide increased operability by taking the vehicle and Tether Management System assembly through the splash zone. The LARS system is also equipped with electrically driven active heave compensated umbilical winches to support year round operations in the harshest environments.

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In July 2012, Technip announced that it has signed a long term charter agreement with North Sea Shipping for a high specification construction vessel. This will be a newbuild vessel, designed to Technip’s specifications, and will meet the latest client and regulatory requirements for working in the North Sea.

The vessel will join the Technip fleet in 2014.