OOS INTERNATIONAL B.V.

SEMI SUBMERSIBLE HEAVY LIFT VESSEL

OOS ZEELANDIA

revision 5.6
OVERVIEW

The OOS Zeelandia is a large, state-of-the-art, multifunctional, dynamically positioned construction semi-submersible heavy lift crane vessel. It is designed to transport topsides over 20,000 mt on the main deck to the installation site and install it in one lift. The big distance between the cranes of 112.5 m will permit large modules to be lifted on the main deck. With the most sophisticated dual fuel (LNG + MDO) engines it will not only mean the best efficiency ever obtained for this kind of vessel but also contribute to clean air by impressive numbers.

Reduction of exhaust gas emissions on annual basis is expected to be 15,000 mt less CO2; 71 mt less SOx (only 1 mt instead of 72 mt from the same engines running on MDO) and 62,000 mt less NOx. This vessel can be utilized for subsea installation. Subsea manifolds up to 4,600 mt can be installed at 1,000 m and 480 mt at 4,000 m water depth.

The winterization of the main deck and double bottoms by thermal oil and Ice Class A0 enables the vessel to operate in an Arctic environment. This makes the OOS Zeelandia the first vessel of this type. It has a large hotel capacity with the highest standards accommodation integrated in the deck box.

SEMI-SUBMERSIBLE SPECIFICATIONS

- Excellent motion and position keeping characteristics assured by 12 thrusters
- Construction/heavy lift crane vessel 2 x 12,500 mt lifting capacity
- Hotel capacity for up to 500 persons on board
- High transit speed of 15 kn
- Quick ballast system with deck dump tanks for pick up and landing of loads
- Subsea construction and support up to 4,000 m water depth
- Platform and offshore structures removal and installation
- Highest DP-3 standard with "Close bus-bars" operation for maximum efficiency
- Low running costs of around 25% lower fuel consumption in DP and transit modes
- Dual fuel engines with SCR when operating on MDO and LNG for clean air
- Very big autonomy due to 6,000 m³ LNG + 9,500 m³ MDO storage tanks capacity
- 112.5 m distance between the cranes
## General
- **Name**: OOS Zeelandia
- **Flag/ Port of Reg.**: Marshall Islands
- **Designers**: CMHI
- **Classification**: ABS
- **Notation**: A1, Column-Stabilized Unit(N), AMS, ACCU, DPS-3, Accommodation Service, Construction and Maintenance Service, Crane service, BWT+, CCO(-20,-40), CPS, CRC(HC-Subsea-PL,OC,N), EGC-SCR, EHS-P, ENVIRO-OS, GFS(DFD), HAB+(MODU), HELIDK(IN), IHM, ISQM, PMP+, SKP, UWILD, Ice Class A0
- **IMO**: ...
- **Length**: 230.00 m
- **Beam**: 117.00 m
- **Depth Molded**: 16.50 m
- **Main Deck Height**: 50.25 m
- **Deck Box Height**: 15.75 m
- **Transit Draught**: 12.2-14 m
- **Operating Draught**: 17-23 m
- **Heavy Lift Draught**: 28.00 m
- **Ice Class**: A0

## Machinery/Propulsion
- **Main Engines**: 12 x 7,100 kW / 6.6 kV, Dual Fuel (LNG + MDO)
- **LNG Tanks**: 6,000 m³ (2 x 3,000 m³)
- **Propulsion**: 5 x 5,800 kW Stern Thrusters, 3 x 6,500 kW FWD Retractable Thrusters, 4 x 3,000 kW FWD Tunnel Thrusters
- **Steering**: Stern Azimuth Thrusters
- **Speed**: Up to 15.6 kn

## Safety
- **Life Boats**: 8 x 125 POB Freefall (+1 x 70POB)
- **Life Rafts**: For up to 500 POB
- **Escape Chutes**: To comply with NMA For escape chutes

## Accommodation
- **492 POB**: 60 x 1 Man Cabins, 216 x 2 Man Cabins

## Cargo Capacities
- **Clear Deck Space**: 11,000 m²
- **Deck Load**: 15 ton/m²
- **Variable Deck Load**: 20,000 t
- **Fuel - MDO**: 14,400 t
- **Fuel - LNG**: 6,170 m³
- **Potable Water**: 2,687 t
- **Lub. Oil**: 60 t

## Deck Machinery
- **Main Deck Crane**: 2 x 12,500 mt @ 55 m
- **Deck Crane**: 2 x Service crane 60 mt @ 40 m
- **Optional**: 46.5 m Telescopic Gangway
- **Towing**: 4 x SMIT Tow Brackets 500 mt SWL
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