

# Simar Esperança

Construction

subsea 7



*Simar Esperança* is a construction vessel, capable of working in water depths of up to 3,000m.

- Length 103.70m x breadth 19.70m
- Deck area 1,150m<sup>2</sup>
- Heave compensated 150t crane
- Class II DP System
- 2 work-class ROVs

## General Information

Classification	DnV X 1A1, ICE C, SF, E0,DYNPOS-AUTR, Comf-V(3), Clean Class, DK(+), HELDK-S
Built	Ulsteinvik, Norway 2008
Flag State Authority	Bahamas

## Dimensions

Length Overall	103.70m
Breadth	19.70m
Depth (to main deck)	7.70m
Draught	6.20m
Deadweight	4,500t
Gross Tonnage	5,275t
Net Tonnage	1,582t

## Power and propulsion

Main generators	4 x Cat 3516HD, each 2100ekW
Auxillary generator	1 x Caterpillar 3508, 910kW
Emergency generator	1 x 1 Caterpillar C9, 268kVA/200kW
Main azimuth thrusters	2 x 2000 kW (El. Driven R-R FP AZP100)
Fwd. azimuth thruster	1 x 883 kW (El. Driven R-R FP)
Bow thruster	2 x 1050 kW

## Performance

Transit speed	approx. 12knts
Transit consumption	approx. 25t/d
DP operations consumption	approx. 9t/d
Quayside operations consumption	approx. 4t/d

## Tank capacities (100%)

Fuel oil, total	2,037m <sup>3</sup>
Fresh water, total	1,036m <sup>3</sup>
Water ballast	2,814m <sup>3</sup> (incl. 398m <sup>2</sup> of roll reduction and 766m <sup>3</sup> of anti-heeling tanks)
Lubrication oil	43m <sup>3</sup>
Fresh water maker capacity	30m <sup>3</sup> /d
Garbage incinerator	

## Dynamic Positioning Systems

DP Classification	DP - Class II
DP System	K-POS DP-22
Reference Systems	1 x HiPAP500 1 x Light Weight Taut Wire MK 15 1 x fanbeam 2 x DGPS 3 x Gyro Compasses 2 x Wind Sensors 2 x VRS

## Main deck

Cargo deck area	1,150m <sup>2</sup>
Main deck totally clear area	850m <sup>2</sup>
Mezzanine deck area	290m <sup>2</sup>

## Deck cranes

150ts knuckle boom jib offshore crane w/ AHC-Hydra-marine HMC 3568. Focus on hoisting speed / capacities – clients requirements designed for up to 3,000m water depths.

## Accommodation

92 persons

## Helideck

Valid for helicopters with Maximum 'D' value: 20.9  
Maximum take-off weight: 12t

## ROV systems

Mezzanine deck portside	Hercules 29 (Mk2 type), rated 3000m
Mezzanine deck starboard	Hercules 17 (Mk2 type), rated 3000m