

# Seven Atlantic

Diving

subsea 7



The *Seven Atlantic* is one of the most advanced diving vessels in the world.

- Length 145m x breadth 26m
- Deck area 1,200m<sup>2</sup>
- Accommodation for 150 persons
- Heave compensated 120t crane
- 2 x air diving systems
- 2 x eyeball ROV systems
- Equipped for well treatment operations
- 24-man twin bell saturation diving system rated to 350m with two hyperbaric lifeboats.

## General Information

Classification	Lloyds Register, +100A1 DSV, UD strength for load of 10 t/m <sup>2</sup> , Heli Landing Area, +LMC, UMS, DP(AAA), CAC(2), EP, ICC
Built	Merwede, Holland 2009
Flag State Authority	Isle of Man Government
Port of Registry	Douglas

## Dimensions

Length Overall	144.79m
Breadth (moulded)	26m
Depth to maindeck	12m
Draught design	7m
Deadweight	8,700t

## Manoeuvring and Propulsion Systems

Main Engines / Generators	6 x 3,360kW (Diesel Electric)
Propulsion	3 x 2,950kW stern azimuth thrusters 2 x 2,400kW retractable bow azimuth thrusters 1 x 2,200kW bow tunnel thruster total thruster power 15,850kw

## Dynamic Positioning Systems

DP Classification	DP (AAA) - Class III
DP System	Kongsberg K-pos 22 + as back-up system for Class III, Kongsberg K-pos 12
Reference Systems	3 x DGPS 2 x HiPAP 2 x taut wire 2 x Cyscan Radscan HPR interface Fanbeam interface

## Speed / Consumptions

DP	17-20m <sup>3</sup> /day
Full transit speed	15.5 knots (55-60m <sup>3</sup> /day)
Normal transit speed	13.0-13.5 knots (45m <sup>3</sup> /day)
Economical Speed	12 knots (35m <sup>3</sup> /day)
In port consumption	8m <sup>3</sup> /day

## Tank Capacities

Marine Gas Oil	2,289.733m <sup>3</sup>
Fresh Water	1,051.592m <sup>3</sup>
Ballast Water	4,736.674m <sup>3</sup>
Heeling tanks (55%)	663.80m <sup>3</sup>
Stabilising tanks (operational)	600m <sup>3</sup>
Technical fw/ waterballast	135m <sup>3</sup>
Low sulphur diesel oil	135m <sup>3</sup>

## Well Treatment Equipment

Chemical/Acid Tanks (5)	20,000 ltr each
Injection pumps (1)	1800HP
Injection pumps (1)	600HP

## Cargo Deck

Deck Area (main deck)	1,200m <sup>2</sup>
Deck Strength	10t/m <sup>2</sup>

## Deck Cranes

Main Deck heave compensated Crane	120t at 16m
Whip Line	24t at 32m
Two provision cranes.	2.5t at 12m
Auxiliary Deck Crane I & II	10t at 14m

## ROV Systems

The vessel is fitted with two permanently installed moonpools launching eyeball ROV heave compensated systems rated to 1,200 metres. The vessel can be fitted with an additional work-class and observation class ROV on deck. The survey suite will include a current profiler and heading reference system.

## Diving System

The 24-person saturation diving system includes four 3-man twin lock living chambers, two 6-man twin lock decompression chambers and two horizontal transfer under pressure chambers, (chambers are 2.4m internal diameter) 54,000m<sup>3</sup> of gas storage and up to six split levels of saturation storage. The system is designed for compliance with Norwegian NORSOK requirements, and features much improved living conditions compared to previous systems. Two Hyperbaric Life Boats are provided (one port and one starboard). The bells have 7m<sup>3</sup> internal capacity and are launched through two athwartships moonpools, positioned near the minimum motion point of the vessel. There are two fully integrated air diving systems, including chambers, one port and one starboard.

A comprehensive system of mechanical handling aids is fitted to support saturation and air diving operations, including port and starboard T bars, A-frames, hose reels, tigger winches and umbilical management hoop booms (20m reach from ship side).

## Accommodation

150 persons	
Captain Class Cabins	6
Officer	5
Single Cabins	9
Double Cabins	65
All cabins with own private facilities	
One 2-berth sick bay	

## Helideck

Helideck of aluminium construction suitable for regular operations of S61 and S92 helicopters and equipped with a fixed foam fire fighting system in accordance with CAP 437.

## Communications Systems

The vessel is fitted with Inmarsat Fleet 77 and KU Band systems. The KU Band system has the option to be converted to C Band as operational requirements demand.

Extensively equipped operations and client office suites; IT network and facilities / video conferencing. The vessel also has dedicated crew WiFi internet access.

## Life Saving Appliances

Four davit launched lifeboats	75 persons each
Twelve life rafts	25 persons each
One life raft	10 person
Two hyperbaric lifeboats	18 persons each

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