

Wave Sentinel



The Wave Sentinel was converted in 1999 as a cable lay and multi-purpose offshore support vessel. The vessel has been designed and constructed to a very high standard and has the ability to perform a variety of offshore and subsea operations.

The following systems provide the vessel with the ability to perform these multi-purpose roles, including ROV support, flexible cable installations and offshore construction projects.

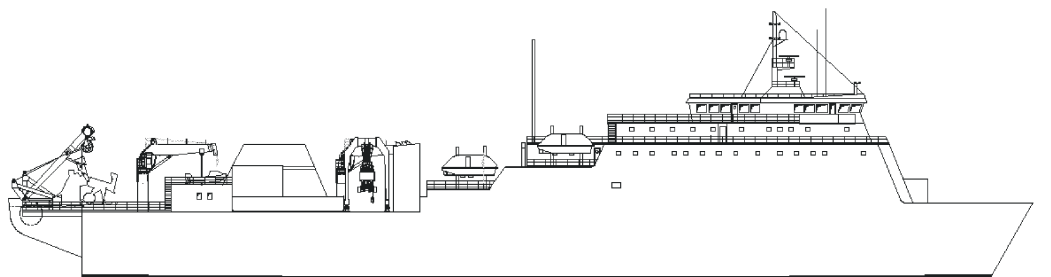
The Wave Sentinel is equipped with a 2000 metre depth rated trenching Atlas class ROV.

Head Office

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Wave Sentinel

Propulsion and Electric Power Generation

Main Engines: 2 x MaK 6M552C 4500kw each driving 2 controllable pitch propellers through a clutch and gearbox with PTO Alternator

Propellers: 2 x 3950 mm diameter

Auxiliary Generator: 3 x MaK 9M20 1456kw each
2 x Cat 3512 845kw each

Bow Thrusters: 1 x 1350kW Bow Thruster
2 x 590 kW Bow Thrusters

Stern Thrusters: 2 x 1350 kW Stern Thrusters

Rudders: 2 x Heinz Hinze high-lift flap Rudders, ±45°, operated either together or independently

Emergency generator: 1 x Cat 3304 105kW

Fuel Consumptions: 95% max capacity, 850 m³Δ
Marine Gas Oil (SG MGO is about 0.86)

Endurance 35 days at 12 knots
Fresh Water Capacity: 718 tonnes
Fresh Water Usage: Approx. 15 tonnes/day

Speed
Economic Speed: 10 knots
Service Speed: 12 knots
Max Speed: 16 knots

Accommodation
Total Berths: 64
Single: 26
Double: 19
Hospital: 2 beds

Speed Consumption
10 knots @ 12 Tonnes/day
12 knots @ 17 Tonnes/day

Full Speed
16 knots @ 35 Tonnes/day

Cable Operations
10-17 Tonnes/day

Capacity and Equipment

Cable Tanks

Main Cable Tanks: 3
Internal Diameter: 15.00 metres
Cone Outer Diameter: 2.90 metres
Tank Height: 2.40 metres
Cone Height: 3.10 metres
Maximum Load per Tank: 2600 tonnes nominal
Tank Top Loading: 5 tonnes/ square metre
Volume of Cable Tanks: 1270 cubic metres

Spare Cable Tanks: 1
Internal Diameter: 9 metres
Cone Outer Diameter: 2.9 metres
Tank Height: 2.9 metres
Cone Height: 2.50 metres
Maximum Load per Tank: 875k metres
Volume of Spare Tank: 141 cubic metres



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Capacity and Equipment continued

Cable Machinery:	- 2 x 3 m diameter Cable Drum Engines (on load cells) - 2 x Draw Off/ Hold Back Units, 4 wheel pairs - 2 x diverters - 2 x 2WP Haulers
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Repeater Stowage:	35 in temperature controlled stack
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Deck Equipment

A frame:	35 tonnes SWL
Tow Winch:	40 tonnes
SWL Tugger Winch:	10 tonnes
SWL Tugger Winch:	5 tonnes
	- 2 x 2 Tonnes SWL Deck Cranes @ 15m radius; 5 Tonnes maximum lift @ 10 metre radius.
	- 1 x Repeater lifting Beam - 2 Tonnes
	- 1 x 1 tonne stores crane Port side

Technical and Navigational Info

Navigational Aids, Radio Equipment & Communications

Radars:	2 x Kelvin Hughes Nucleus 6000A - Configured as below: 1 x 3cm with 16" Display unit ARPA 1 x 10cm with 16" Display unit ARPA 1 x Dual Inter-switch Unit 1 x Slave Monitor (5000A on aft bridge) Both radars have anti-collision warning capabilities
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GPS:	Furuno GP - 70 Mk 2 + LMX 400 DGPS x 2
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Gyro Compasses:	2 x C.Plath SR - 180 Mk1
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Magnetic Compasses:	C.Plath type 2060
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Control Unit Auto pilot:	Robertson AP9 Mk 2
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Echo Sounder:	Furuno FE 700 Kongsburg Simrad 937 Echo Sounder EA500
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Side Scan Sonar:	Integrated Wiring into Survey Suite with Operator Console
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Navtex:	Furuno NX - 500
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GMDSS:	Sailor compact GMDSS station
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Sat-Com:	2 x Nera SAT B 1 x SEA-TEL KU BAND VSAT
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Position Keeping System

Dynamic Positioning System:	Alstrom 900 Duplex
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DP Notation:	DPS-1 (EX ERN 606010)
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DP Modes of Operation:	JSMH, JSAH, ROV Follow, Auto Track, Auto Pilot, DP, Simulation
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General Dimensions and Particulars

Type of Ship	Cable Laying & Repair Vessel
Builders	Royal Schelde Shipbuilding
IMO Number	9100748
ABS I.D.	95146745
Call Sign	MZBC8
Port of Registry	London
Length Overall	138.10 metres
Length Between Perpendiculars	118.70 metres
Breadth Moulded (Beam)	21.00 metres
Depth Moulded	7.50 metres
Designed Draft (Summer)	6.280 metres
Deadweight (Summer)	4552.3 tonnes
Gross Registered Tonnage	12330 tonnes
Net Registered Tonnage	3700 tonnes
Suez Tonnage	13458.6 tonnes
Panama Tonnage	11166.0 tonnes
Classifications	ABS - A1, AMS, ACCU, DPS-1

Fitted with 'Navigator' survey spread for instant & accurate position referencing and post processing capability to meet all clients needs.



All performance figures quoted are nominal, actual performance is dependent on environmental conditions prevailing at the time of operations.

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