

## Cable Innovator

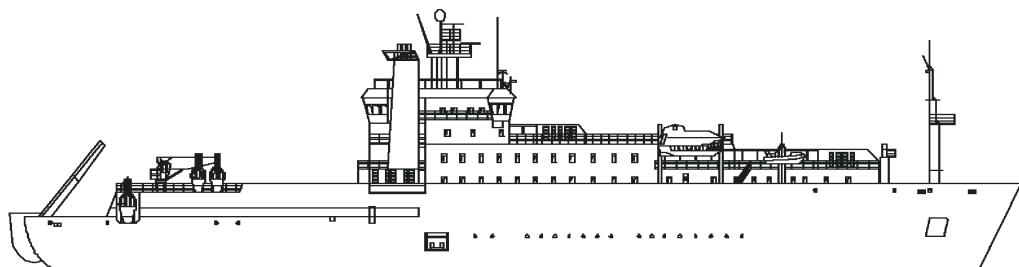


The Innovator was built in 1995 as a cable lay and multi-purpose offshore support vessel. The vessel has been designed and constructed to a very high standard and has the ability to perform a variety of offshore and subsea operations.

### Head Office

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## Cable Innovator

### Propulsion and Electric Power Generation

Main Engines:	3 x WARTSILA 9R32E @ 3645kW
Auxiliary Engines:	2 x WARTSILA 6R22/2E @ 975 kW
Thrusters:	1 x Bow Thrust - White Gill GEC Elliot 70T3S - 24t 1 x Bow Thrust - Tunnel - KAMEWA - 16t, provides excellent manoeuvring capabilities 2 x Stern tunnel - KAMEWA - 12t each
Auxiliary Services:	none
Switch boards:	3.3 kV Main Switchboard, 440v / 60 Hz distribution
Emergency generator:	1 x CUMMINS 350kW

### Capacity and Equipment

Cable capacity of 8,500 T and 4,900 cubic metres storage

#### Cable Tanks

Main Cable Tanks:	3
Internal Diameter:	16.70m
Cone Outer Diameter:	3.5 - 3.1m (tapered)
Tank Height:	9.40m
Cone Height:	7.20m
Maximum Load per Tank:	2333 tonnes nominal
Tank Top Loading:	14 tonnes/square metre
Volume of Cable Tanks:	1508 cubic metres
Spare Cable Tanks:	1
Internal Diameter:	8.80m
Cone Outer Diameter:	2.00m
Tank Height:	9.20m
Cone Height:	9.20m
Maximum Load per Tank:	500 tonnes
Volume of Spare Tank:	323 cubic metres

#### Deck Equipment

A Frame:	35 tonne SWL (Sea State 5): Plough Tow Winch SWL 100 T
Cranes:	1 x Forward (Hydralift) 2.0T @ 10.0m 1 x Forward (Hydralift) 5.0T @ 10.0m 2 x Aft (Manufacturer Hydra lift) 10T @ 8.0m, 2T @ 18.5m Tugger Winches 4 x 2T SWL

#### Repeater Stowage

3 temperature controlled repeater stacks situated adjacent to each main cable tank. Total repeater capacity of 135.

#### ROV

- A 2000m depth rated work class ROV side launched
- An optional observation class ROV is provided from a deck mounted A-Frame

### Cable Machinery

LCE:	21 wheel pair Linear Cable Engine (Dowty)
Cable Drum:	Electrically driven cable drum with fixed angled pay out fleeting ring plus fleeting knives.
Diameter:	4.00m
Pull Load:	40 tonnes/ knot
Brake Load:	40 tonnes
Drum Speed:	6.6 knots max
	- 4 wheel pair Hydraulic Drive DO/HB unit, with a hydraulic cable diverter.
	- 1 x 2 wheel pair Dowty Hydraulic - Drive Cable Transporter
	- 1 x 2 wheel pair Dowty Electric - Drive Cable Transporter
	- 2 x 1 wheel pair Dowty Hydraulic Drive Cable Transporter (In line)

### Fuel Consumptions

Fuel Consumption in Port:	4t/day
Fuel Consumption Cable Laying:	10-18t/day
Fuel Consumption Economic:	16t/day
Fuel Consumption Transit:	12 knots @17-27t/day dependent upon load/weather
Fuel Consumption Max Speed:	35t/day
Maximum Bunker Capacity:	1662 tonnes



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### Particulars

**Endurance** - Normal 42 days at sea and with logistical can be extended to approx. 60 days.

**Fresh Water Capacity:** 1322.8 tonnes

**Fresh Water Usage:** Approx. 16-20 tonnes/day

**Fresh Water Generation:** 2 x ALPHA LAVAL JWP-26-C80 20 tonnes/ day dependent upon engine load condition.

#### Speed

**Economic Speed:** 10 Knots

**Service Speed:** 12 Knots

**Max Speed:** 16.9 Knots

#### Accommodation

**Total Berths:** 80

**Officer Cabins:** 42

**Crew Cabins:** 36

**Representative Suites:** 2

**Hospital:** 2 beds

Range of Office Suites and Conference Facilities are available for project purposes

### Technical and Navigational Info

#### Navigational Aids, Radio Equipment & Communications

Excellent Comms System including Inmarsat B & C and Vsat KU Band

<b>Radars:</b>	9800 ARPA and SAM Electronics NG3028
<b>GPS:</b>	1 x Trimble + Probeacon DGPS 2 x JAVAD + Varipos DGPS 1 x Fugro 90938 + Redbox Starfix DGPS
<b>Infrared-laser:</b>	1 x Cyscan
<b>Gyro Compasses:</b>	2 x Sperry Mk37 1 x SG Brown TSS Meridian Standard
<b>Magnetic Compasses:</b>	JC Krohn MOD390
<b>Control Unit Auto pilot:</b>	Trackpilot Atlas 1100
<b>Rudder angle indicator:</b>	Yes
<b>Navtex:</b>	JRC NCR 300A
<b>Echo Sounder:</b>	2 x Simrad EA 500 (Deep water), 1 x Simrad EN 200 (Shallow water)
<b>Dynamic positioning system:</b>	Converteam DPS A-Series - Version 4 (Duplex)
<b>Modes of Operation:</b>	- Joystick Manual/Auto Heading - Duplex DP - Auto Track - Min Power - ROV Follow - Plough/Trencher High Tension Slow Down
<b>Stand by mode :</b>	Mixed Manual / Auto mode Auto Heading / Positioning Thruster Allocation / Control Power Load monitoring Blackout Prevention Trainer / Simulator Mode Alarm System Auto Track (high speed) / Auto Track (low speed) Follow Target mode / ROV follow Cable Laying / Trenching
<b>Fire Alarm:</b>	Consilium
<b>GMDSS:</b>	JRC
<b>Sat-Com:</b>	1 x SAT B - NERA 1 x SAT C - SAILOR DT 4646E 1 x SAT C - JRC NDZ-127C MF/HF - SAILOR HC4500B VHF - JRC JHS-31 JUE - 45A JRC 1 x SEA-TEL KU BAND VSAT

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# Cable Innovator

## General Dimensions and Particulars

Type of Ship	Cable Ship
Builders	Kvaerner Masa Shipyard, Turku, Finland 1995
IMO Number	9101132
ABS I.D.	95146744
Call Sign	MVEP4
Port of Registry	London
Length Overall	145.50 metres
Length Between Perpendiculars	124.12 metres
Breadth Moulded	24.00 metres
Depth Moulded (to Deck 3)	13.5m metres
Designed Draft	8.30 metres
Deadweight	10557 tonnes
Summer Draft	8.517 metres
Gross Registered Tonnage	14277 tonnes
Net Registered Tonnage	4283 tonnes
Suez Tonnage	15619.1 tonnes
Panama Tonnage	11977 tonnes
Classifications:	Cable Layer. A1, AMS, ACCU, DPS-2

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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