

# CS RECORDER

## OVERVIEW

The CS Recorder is a high bollard pull, dynamically positioned vessel, specialising in telecoms submarine fibre optic cable installation. The vessel is equipped with a 60t A-frame system and a 60t tow winch. The two main cable tanks allow for the installation of up to 5,200t of submarine fibre optic cable. A further 1000t of submarine fibre optic cable may be carried in the two ancillary tanks. The vessel can provide installation of fibre optic cable to full ocean depth. Simultaneous lay & burial up to 3 metres can be provided in suitable seabed conditions (when in active mode) over the ploughed section of the route utilising Global Marine's plough and trenching ROV systems.

## CONSTRUCTION CLASSIFICATION

<b>Classification</b>	Lloyd's Register of Shipping +100 A1, Cable Laying Ship LI + LMC, UMS, DP (AA)
<b>Year of construction</b>	2000
<b>Builders</b>	Volkswerft Stralsund GMBH, Germany
<b>Flag</b>	UK
<b>IMO Number</b>	9207053

## MAIN DATA

<b>Length overall</b>	150.50m
<b>Length between p.p</b>	84.952m
<b>Breadth moulded</b>	20.00m
<b>Design draught moulded</b>	8.50m
<b>Scantling draught moulded</b>	9.10 m
<b>Gross tonnage</b>	6,292t
<b>Deck load capacity</b>	FR 10 to FR. 31 10t/m <sup>2</sup> FR 31 to FR 92 5t/m <sup>2</sup>

<b>Fuel oil capacity</b>	95% max capacity) MGO (total 2,424.5m <sup>3</sup> ) *Endurance - 60 days
<b>Bollard pull</b>	110t (continuous)
<b>Typical economic transit speed</b>	11 knots

## CABLE TANKS

<b>Main cable tanks (Qty)</b>	2
<b>Main tank internal diameter</b>	16.50m
<b>Main tank outer cone diameter</b>	3.0m
<b>Main tank height</b>	9.39m
<b>Maximum load per cable tank</b>	2,600t @ 1.9 t/m <sup>2</sup>
<b>Ancillary tanks (Qty)</b>	2
<b>Ancillary tank internal diameter</b>	9.00m
<b>Ancillary tank outer cone diameter</b>	3.00m
<b>Ancillary height</b>	7.59m

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<b>Maximum load per cable tank</b>	521t @ 1.9 t/m <sup>2</sup>
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## ACCOMMODATION

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<b>Maximum POB</b>	68
<b>Cabins</b>	18 single and 30 double
<b>Hospital</b>	2 berths
<b>Office/Workspaces</b>	Client office
<b>Recreation</b>	Mess, gymnasium, TV lounge x 2

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## CABLE WORKING GEAR

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<b>Drum engine (DE)</b>	FRASER HYDRAULIC POWER R23213A - 4m drum engine
<b>Draw off hold back (DOHB)</b>	FRASER HYDRAULIC POWER R23213B - 4 pair DOHB
<b>Linear cable engine (LCE)</b>	FRASER HYDRAULIC POWER - R23214A 20 pair LCE

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## CONTROL & NAVIGATION SYSTEM (INCL DP)

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<b>Radars</b>	FURUNO FAR 2117/37
<b>Gyro's</b>	3 x Sperry Marine NAVIGAT 200
<b>ECDIS</b>	3 x solid state 24" panel PC preloaded with VMFT ECDIS-E software
<b>DP system</b>	Kongsberg Simrad K-POS DP-21
<b>HiPAP/PR system</b>	Kongsberg Simrad 31 X series
<b>Echo sounders</b>	ELAC EA 640 and ES5100
<b>Taut wire</b>	Lite taut wire Mk 12
<b>Motion reference unit</b>	MRU - 2 and MRU - 5
<b>FUGRO Diff'l signal receiver</b>	2X CNAV3050, 1xMx500

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## PROPULSION SYSTEM

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<b>Main engine</b>	2 x MAN 8 cylinder L32/40 MCR 3.840kW @ 750rpm
<b>Main gear</b>	Driving 2 x reduction gears with PTO RENK HNSL-800

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<b>Propeller</b>	2 x 4 blade 3.0m dia MAN Alpha CPP
<b>Auxiliary engines</b>	2 x Caterpillar 3508 DI-TA/1 750kW @ 1,800rpm
<b>Emergency generator</b>	1 x Caterpillar 3306 DI-T 183kW @ 1,800rpm
<b>Generator Plants</b>	2 x ABB shaft generators ea 3,750kVA / 3,000kW, 450 Volt / 60Hz

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## MANOEUVRING SYSTEMS

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<b>Bow thruster</b>	1 x Lips (Watsila) tunnel CPP, type CT250-DP 1,200kW @ 190rpm max thrust about 200kN
<b>Bow thruster</b>	1 x Lips (Wartsila) retractable azimuth CPP, type CS200-244/MNR rating, 1000kW @ 330rpm max thrust about 195kN
<b>Stern thrusters</b>	2 x Lips (Wartsila) tunnel CPP, type CT 225-DP each 1,200kW @270rpm max thrust about 190kN
<b>Steering system</b>	2 x becker rudders type 2R-ZE/ZE-11/ D45

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## DECK MACHINERY

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<b>Tugger winches (upper deck)</b>	1 x 10t Mooring winch 1 x 5t Aft port 1 x 5t Fwd stbd
<b>Towing winches</b>	60t towing winch traction winch 2.5t towing winch storage drum
<b>Repeater hoists</b>	2t Fwd repeater hoist beam 2t Aft repeater hoist beam

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## COMMUNICATION EQUIPMENT

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MF/HF radio station with charger
INMARSAT C C/RadioTelex communication system
RT 4822 VHF - radio telephone with DSC
RT 4800 VHF basic radio telephone
2 x Satellite operating EPIRB
1 x Navtex receiver NCR-333
1 x Tron air portable transceiver
3 x Tron VHF GMDSS for VHF for rescue boat

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2 x Tron SART 9 GHz radar transponder

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Sailor 5900 KU Band VSAT

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Sailor Fleet Broadband

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Iridium Pilot

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## LSA EQUIPMENT

**Rescue boats** One starboard rescue boat for 6 persons with diesel outboard motor

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**Life saving total capacity** 68

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**Liferafts** 10

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**Liferaft capacities** 4 x 25, 4 x 20, 2 x 12 = 204

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**Lifebuoys** 8

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**Lifejackets** 86

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**SART** 2

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**VHF handhelds** 3

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**Minimum safe manning** 13

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## CRANEAGE

3 x 5t non telescopic deck cranes type OMCK1610

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**Location** The aft port crane lifting capacity for internal shipboard handling up to sea 5:  
2.0t @ 22m  
5.0t @ 11m

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**Location** The starboard crane lifting capacity for internal shipboard handling up to sea state 5:  
2.5t @ 20m  
5.0t @ 11m

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**Location** The port forward crane lifting capacity for internal shipboard handling up to sea state 5:  
2.5t @ 20m  
5.0t @ 11m

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## MAIN A-FRAME

**Maker** Hydralift

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**Location** Positioned aft at FR-7, with a lifting capacity of 60t for internal shipboard handling and 50t for offshore handling

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**Static load** Static load test to 66t

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# GENERAL ARRANGEMENT

