



FUGRO

SKANDI CARLA

Skandi Carla is one of Fugro's purpose-designed and built ROV survey, IRM and construction support vessels. Delivered in 2001, it is a diesel-electric, DP2 vessel equipped with advanced DGPS, USBL acoustic system and a Seapath 200. A moon pool allows work class ROVs to be launched safely and the large main deck is available for exclusive client use.

One of the distinguishing features of the vessel are the three optional mezzanine decks. These 4.8 m x 14 m platforms can be used for the deployment of a second work class ROV system, or other client equipment.

Skandi Carla is fitted with a heave compensated Hydramarine 50T/15m knuckle boom deck crane with optimum deployment and recovery speeds at depths down to 3,000 metres. The combination of knuckle boom design and full active heave compensation has proven to provide ideal construction support capability.

The primary work class ROV - FCV 3087C is deployed through the moon pool using a custom-built Rolls-Royce Launch & Recovery System (LARS) designed to minimise the impact of vessel motion, thus extending the window within which the vehicle can be deployed. The 5.4 m x 5.5 m moon pool is enclosed in a large hanger which, with adjoining workshops and stores areas, provides a safe and protected environment for the maintenance of the vehicle. The winch for the LARS provides heave compensated, high speed deployment and recovery of the vehicle in water depths down to 3,000 metres.



Skandi Carla being mobilised at port.



Stern view of Skandi Carla.

SKANDI CARLA

Technical Specifications

General

Vessel Name	Skandi Carla
Classification	DNV +1A1, Clean, DK(+), DYNPOS-AUTR, E0 HELDK SF
Owner	DOF Management
Operator	Fugro Subsea Services Limited
Year Built	2001
Built by	Aker Aukra AS
Port of registry	Nassau
Tonnage	Gross: 4,456 t; Net: 1,336 t
Call sign	C6RX4
IMO	9239446
MMSI	311222000

Dimensions

Length	LOA: 83.85 m; LBP: 76.8 m
Breadth	19.7 m
Draft	6.2 m

Accommodation

Total complement	80 persons
Cabins	26 single, 27 double
Hospital	1 berth + treatment table
Offices/workspaces	Online survey room Offline survey room 2 x client offices Conference room OVM office
Recreation	3 x recreation rooms c/w satellite TV & video Sky lobby/cinema Messroom Gymnasium

Safety Equipment

Lifeboats	2 x 40 person Harding type MCB24
Liferafts	8 x 20 person Viking D625 inflatable
MOB boat	Springer MP-741 FRC

Machinery & Performance

Main engine	4 x 2,530 kW CAT - Total 10,120 kW
Main generator	ABB AMG 630 M8L 2,425 kW each
Aux engines	1 x CAT 3408 – 397 kW
Bow thrusters	2 x Kamewa TT2200 1,000 kW tunnel 1 x Aquamaster UL1 401FP 1,000 kW azimuth
Stern thrusters	2 x Aquamaster Contaz 15 2,200 kW azimuth
Speed	Full speed: 15 knots; Service: 11 knots
Endurance	50+ days

Deck Machinery

Deck area	632m ²
Deck loading (main)	5 t/m ²
Deck crane	Hydrmarine 50 t / 15 m; 25 t / 30 m Main lift: 3,060 m x Ø 56 mm Whip: 10 t / 29.5 m; 540 m x 28 mm
Auxiliary crane	10 t, 400 m x Ø 28 mm
Moon pool	5.4 m x 5.5 m, enclosed in large hanger
Mezzanine decks	3 x removable decks, 4.7 m x 15.8 m

Capacities

Fresh water	850 m ³
Water maker	25 t/day
Ballast water	1,487 m ³
Fuel oil	1,450 m ³

Control and Navigation

DP system	Simrad SDP-21
DP reference systems	Dual Seastar DGPS; 2 x HiPAP 500 and Seapath 200, Fanbeam®

Communication

Immarsat B	Furuno Felcom 250/500
Immarsat C	2 x SAILOR® TT-3606E
Navtex	Furuno NX-700
Air VHF	2 x ICOM-IC A24E & IC A6E
Euro Air	VHF2 x ICOM IC-A110
Emerg. phone	2 x Vingtor VSP 211
Intercom phone	2 x Vingtor VMP-430
Portable VHF	3 x Jotron Tron TR20
Portable UHF	6 x Motorola GP340
Ku-band	Telenor Norsat Sealink Dual antenna 64 kb voice & data

Work class ROV (WROV) Systems

Number and type	2 x FCV 3000 150 HP ROV systems
Deployment locations	1 x moon pool launch, 1 x A-frame launch
TMS	9.3 t SWL, 600 m tether capacity
System depth rating	3,000 msw
Lift umbilical winch	1 x active heave comp. (2.0 m/s) High speed (0-100 m/min) 15 t Line pull , 4,000 m capacity, 3,500 m fitted
Vehicle dimensions	3 m x 1.7 m x 1.7 m
Vehicle power rating	150 HP

Inspection ROV (OBSROV) System

Number and type	2 x Seaeye Lynx
System depth rating	1,500 msw
TMS	Seaeye Type 8, side entry extendable height, 200 m tether capacity
LARS	Integrated crane, winch & HPU on 4.8 m x 2.8 m skid, 3 m outreach @ 3G