



FUGRO

FUGRO SYMPHONY

Fugro Symphony is a purpose-built ROV support vessel, designed to address the demands of the deepwater remote intervention, construction and survey markets, both today and in the future.

Commissioned following the successful introduction of the Fugro Saltire in 2008, Fugro Symphony is an extended version of the ST327L that offers significantly increased deck space. Additional upgrades enhance the overall utility and productivity of the vessel, particularly in its construction support role.

Fugro Symphony is equipped with a MacGregor Hydramarine ‘Active Boost’ 150 t AHC knuckle boom crane, capable of subsea lifts of 150 t in single fall mode, down to 3,000 m.

With two FCV 3000 work class ROV systems located within the central hanger area, the full extent of the 1,400m² main deck is available for project equipment. The 7.2m² moon pool, situated immediately aft of the hanger area, is overlooked by a large deck operations room.

The full reach of the 65 m x 24 m steel plated (18-28 mm thick) main deck is designed for a UDL deck loading of 10 t/m² and offers the flexibility to carry substantial loads with minimal constraints on deck layout.



The aft deck and main crane on Fugro Symphony



Riser installation with VLS

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Technical Specifications

General

Vessel Name	Fugro Symphony
Classification	DNV +1A1; E0; DYNPOS-AUTR; COMF-V(3) C(3) DK(+) CLEAN DESIGN; NAUT OSV(A); HELDK-SH; SF; ICE-C1
Owner	Fugro Symphony Inc.
Operator	Fugro Subsea Services Limited
Year built	2011
Built by	Bergen Mekaniske Verksted
Port of registry	Nassau, Bahamas
Call sign	C6YY3
Tonnage	Gross: 11,324 t; Net: 3,398 t
IMO	9492581
MMSI	311049100

Dimensions

LOA / LBP	130.2 m / 119.4 m
Breadth	24 m
Draft	Max. 7.5 m

Accommodation

Total complement	105 persons
Cabins	31 single and 37 double
Hospital	Medical treatment room & rest room
Offices/workspaces	Main control room - 12 m x 12 m Offline survey room - 10 m x 5 m 2 client offices – 23 m ² and 15 m ² Conference room - 37 m ² Auditorium/ cinema – 54 seats
Recreation	2 gymnasiums, 2 saunas 2 lounge areas, an internet café

Machinery & Performance

Main power plant	4 x Rolls-Royce Bergen B32:40L8A engines engines, each driving a Hyundai HSJ7 805-10P, 4,095 kVA generator
Total power	Total capacity: 15,360 kW / 6,380 kVA, 6,600 V, 60 Hz 2 x LOHER JNWA-800MB-08A, 4,200 kW, AC-electric motors, fitted to gearboxes with stepless control from 0-100% rpm. Freshwater-cooled. 2 x 4.2 m diameter NAV 94XF5
Bow thrusters	2 x tunnel, Brunvoll var. pitch, 2,000 kW electric AC drive - Super Silent. 1 x retractable azimuth, Brunvoll, var. pitch, 1,400 kW electric AC drive
Stern thrusters	2 x tunnel, Brunvoll, var. pitch, 1,400 kW electric Super Silent
Maximum speed	16 knots
Endurance	40 days (steaming)

Capacities

Fresh water	572 m ³
Water maker	2 x 15 t/day
Ballast water	3,150 m ³
Marine diesel oil	1,820 m ³
Lube oil	130.5 m ³
Chemical tanks	2 x 170 m ³ (MEG)

Deck Machinery

Deck area	1,400 m ²
Deck loading	10 t/m ²
Deck crane	Hydrmarine Offshore Knuckle Jib Type: HMC 3568 LKO 250-35(750-20) (1000- 15)(1500-10)(100-36)AHC 10 m radius = 150 tonnes; 15 m radius = 100 tonnes 20 m radius = 75 tonnes; 35 m radius = 25 tonnes; 36 m radius = 10 tonnes (Whip) Main lift wire: 3,000 m x 77 m dia.; whip line (aux. winch): 10 t @ 36 m; hook travel: 500 m, AHT & CT
Auxiliary crane	Dreggen DKF220-10T-15M L944A Capacity @ 15 m radius : 10 t Main Lift Wire: 1,000 m x 24 mm
Moon pool	7.2 m x 7.2 m located on aft deck
Helideck	Rating: Sikorsky S61/S91 D-value: 21 (26 m actual diameter) Max. landing load : 12,800 kg

Control & Navigation

DP System	Kongsberg Simrad K-Master integrated to K-POS DP2
DP References	DGPS DP References; Seatex DPS 200 (24 Channel), Seapath 300, Fugro Starpack GNSS Dual Simrad HiPAP 500, Fanbeam, Quad Radius

Communications

Satellite systems	Dual Ku-band / C-Band Max Capacity 5 Mbit/s
VHF	Furuno FM-8800S / Sailor RT2048

Safety Equipment

Lifeboats	2 x 106 Person
Liferafts	6 x 25 Person / 2 x 35 Person
MOB boat	MARE 700 FRB 10 Person Max. Engine power 165-230 HP

Work class ROV (WROV) systems

Number and type	2 x FCV 3000 150 HP ROV systems
Deployment locations	In enclosed hanger area, via hydraulic doors; 1 x port side, 1 x starboard side
TMS	11 t SWL, 600 m tether capacity
System depth rating	3,000 msw
LARS	2 x MacGregor SP2422, Travelling Beam Scissor Lift Arrangement 18.5 t SWL
Lift umbilical winch	2 x active heave comp. (2.0 m/s) , High Speed (0-100 m/min) , Line pull : 13.6 t Capacity: 4,000 m (3,850 m fitted)