



FUGRO

FUGRO SYNERGY

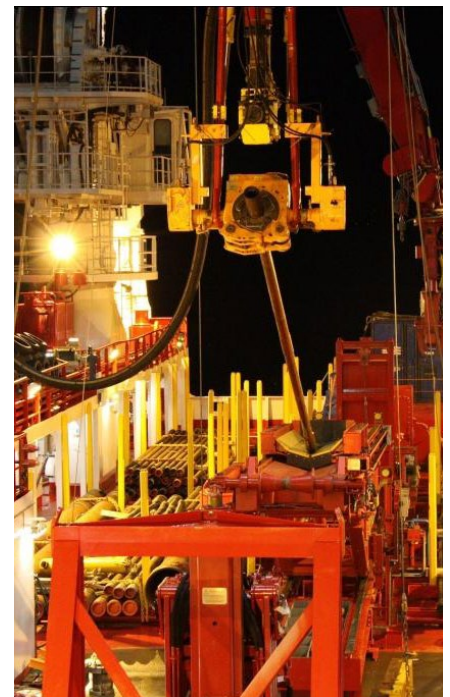
Fugro Synergy represents a new generation high technology drillship built in response to an increasing demand for cost effective drilling solutions.

The Fugro Synergy is a new build vessel that has been specifically designed to deliver Drilling and Sub Sea well services to the Global Oil and Gas industry. With an impressive technical specification, the Synergy is capable of removing many MODU based activities off the critical path. Fugro is focused on developing niche subsurface markets in the shallow section from mudline down to approximately 3,000m, dependent on water depth.

CAPABILITIES

Utilizing our core drilling knowledge and experience, we can install and construct the shallow section of subsea wells and seafloor infrastructure. The main development areas that will add maximum value to a Client project include:

- Subsea and Well Activity
- Conductor / Casing Installation
- Well De-risking
- Pre-Drill Activities
- Well Abandonment



Lifting pipe on the drill deck.

FUGRO SYNERGY

Technical Specifications

General

Vessel Name	Fugro Synergy
Builder / Year	Bergen Group Halsnøy AS / 2009
Owner / Operator	Fugro Synergy, Inc. / Fugro Drilling & Well Services
Flag	Bahamian
Speed	Transit 12 knots (Economic Cruise)
Call Sign	C6XR3 (Charlie Six X-ray Romeo Three)
Classification	+1A1 R ICE-C Ship-shaped Drilling Unit SF, COMF-V(3) HELDK-SH EO DYNPOS-AUTR CLEAN, DRILL DK (+)
Port of registry	Nassau
Endurance	45 days cruising
Operational water depth	25 m to 3000 m

Dimensions

Length over all (L.O.A.)	103.7 m
Beam (mid)	19.7 m
Free board	8.7 m
Draft	6.3 m (6.5 m Summer)
Displacement	9287 tons (deadweight 3775 tons)
NRT	1963 tons
GRT	6543 tons
Helideck	D= 21 m; suitable for Sikorsky S92 helicopter
Moonpool	7.2 m x 7.2 m

Accommodations / Rooms

Cabins	24 x single, 28 x double, 1 x 4 man cabins
Day room	1 Non-Smoking – 1 Smoking
Fitness room	Yes
Conference room	Yes
Client office	1
Hospital	1 x 1 bed

Machinery

Main engine	(5) Caterpillar type 3516C - 2,188 kW @1,800 rpm
Main engine generators	(5) Siemens - 2,188 kW @1,800 rpm
Electrical system	690/450/230V-60 Hz
Propulsion	(2) Ulstein-Aquamaster Azimuth Thruster type AZP100/M-280 - 2,200 kW @1,200 rpm
Side thruster	(2) Kamewa Ulstein TT2200 SS DPN CP Tunnel Thruster - 1,050 kW @1,190 rpm
Azimuth thruster	(1) Ulstein-Aquamaster Azimuth Thruster type UL 1201 - 883 kW @1,800 rpm
Emergency generator	(1) 219 kVA 690 V 60 Hz @ 1,800 rpm
Emergency generator engine	(1) Volvo Penta 339 kW @ 1,800 rpm

Capacity

Fuel capacity	1,357 m ³
Fuel consumption	DP 12 m ³ /day; Transit 28 m ³ /day
Water capacity	Potable 805 m ³ ; Ballast 2,873 m ³ ; Drill 1737 m ³
Water making	1 x 40 m ³ /day

Communications

V-sat	Voice + Data access (multiple bands)
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Safety

Lifeboats (TEMPSC)	2 x Schat-Harding KISS 1000 - 90 person
Fast rescue boat	1 x Mare Safety GRP700 230 hp
Liferafts	2 x Viking & 4 x DSB (35 men each)
Survival Suits	113
Life jackets	114 + 8 Children Sized

Deck Machinery

Deck Cranes	5-ton Knuckle-boom Provisions crane
Aft Deck Crane	25-ton AHC Knuckle-boom Offshore Crane

Positioning / Navigation

Echosounder	1 x Furuno FE-700
S-band radar (ARPA)	1 x Furuno FAR-2837-S
X-band radar	1 x Furuno FAR-2827, 1 x Furuno FAR-2117
Gyro compass	(3) Simrad GC-80
Automatic pilot	Simrad AP 50
Doppler log	Furuno DS-80
Anemometer	Gill OMC-139
GPS	(2) DGPS Furuno GP-150
ECDIS	2 x TRANSAS 4000 (Main & Backup)
Transporter (SART)	2 x Tron SART-20 plus 2 in lifeboats

Drilling System / Seabed Frame System

Drilling Derrick	Fugro SeaCore R-190
Drilling Rig	SeaCore R-190
Max Load	150 tonnes, SWL Below Top Drive
Heave Compensation	BoschRexroth stroke 7m, Passive
Top Drive	National Oilwell Varco TDS 250
Drill Pipe Length	Drill Pipe API Range 2 (trips Doubles)
Pipe Handling	Aker PDPH Pipe Handler
Rotary Slips	Hydraulic Power Slips
Mud Pumps	(3) Wirth TPK800; each 949 l/min @340 bar to 2,762 l/min @ 115 bar
Mud Mixing Pumps	(2) Baker SPF MUD HOG 2.5, each 227 m ³ /h @ 4 bar
Mud Tanks	(2) 85.9 m ³ + (1) 65.9 m ³ + (1) 44.9 m ³ + (1) 23.8 m ³
Bulk Cement Tanks	2 x 75 m ³
Barite/Gel Dry	4 x 75 m ³
Heavy Load Winch	2 x 32 tonne, 60 m/min (3,000 m WD)
Seabed Frame	15 tonnes Air weight, 4.5 m wire separation

Geotechnical Systems / Laboratory

Downhole	WISON®
Seabed	SEADEVIL®, SEACALF®
Onboard Laboratory	Permanent, 259 m ²
Sample Storage	2.4 m x 3 m refrigerated container

Control and Navigation

DP System	DP2 - Kongsberg K-POS
Reference systems	2 x DGPS, 2 x Starpack, 1 x Taut Wire, 2 x HPR
Wind indicators	3 Indicator (OMC-139D)
Vertical reference system	2 x Seatex MRU