



# FUGRO

## FUGRO PROTEUS

**M.V. Fugro Proteus is a new-build DP1 vessel specifically designed by Fugro as part of its fleet renewal program for multi-purpose survey operations, in shallow to medium water depths.**

The vessel is capable of undertaking a variety of tasks, including shallow seismic and analogue geophysical surveys, bathymetric surveys to IHO standards, ROV support operations up to light Work-Class vehicles, geotechnical CPT & vibrocoreing, oceanographic and environmental surveys.

The vessel has an IMO certified 'Green Passport'. An auxiliary workboat/survey launch, deployed from a stern ramp, is available to carry out operations independently from the mother-vessel, allowing close inshore survey and support work to be easily performed.

M.V. Fugro Proteus is fitted with a comprehensive suite of survey, positioning & processing equipment, and is generously equipped with high-class living, messing and leisure accommodation.

The vessel is a state of the art DP1 survey vessel which complies with all relevant international marine legislation for worldwide trade.



*Back deck with auxiliary workboat 'Thea'.*



*Offline Room.*



# FUGRO PROTEUS

## Technical specifications

### General

Name	M.V. Fugro Proteus
Classification	GL+100 A5 "Survey Vessel" MC AUT, DP1
Builder	Damen Shipyards
Built	Q3 2014
Port / Flag	Nassau/Bahamas
MMSI No.	311000238
Call Sign	C6BE3
IMO No.	9675860

### Dimensions

LOA	53.7m
Beam	12.5m (moulded)
Draught	3.35m (summer incl. blister)
Gross Tonnage	1,308 GT (approx.)
Cargo Deck Area	250m <sup>2</sup> (aft, approx. gross)

### Accommodation

Total	up to 34 persons
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### Performance

Operating Range	8,700 nm @ 10 kts
Speed	11.1 kts
Deck Cargo Max.	81t (VCG 1.1m above aft main deck)
Fuel Consumption	5.0 MT/day econ. transit @ 10 kts 3.0 MT/day surveying @ 3.5 kts 3.0 MT/day on DP1 operations 1.0 MT/day alongside in port

### Capacities

Fuel Capacity	244 m <sup>3</sup>
Fuel Consumption	215 g / kWh
Fresh Water Capacity	176 m <sup>3</sup>
Water Making	approximately 6 m <sup>3</sup> / day

### Machinery

Propulsion	2 x 415 kW Rudder Propeller (Electric)
Bow thruster	1 x 200 kW (Electric)

### Electrical Power

Diesel Generator sets	4 x 372 kW / 345 ekW
Em. Generator set	N.A. (Batteries)
Clean Power	UPS 30 kVA
Shore Power	2 x 150 A

### Auxiliary Workboat

Name	'Thea'
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(See separate vessel specifications.)

## Fugro N.V.

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### Deck Machinery

Deck Crane	1 x SWL 3.5 t @ 13.7 m (Palfinger)
Store Crane	1 x SWL 0.8 t @ 12.4 m (Palfinger)
Hydraulic A-frame	1 x SWL 15 t (stern)
Hydraulic A-frame	1 x SWL 9 t (Port side)
Hydraulic A-frame	2 x SWL 6 t (replaces 15t sternframe)

### Control and Navigation

Propulsion control	Schottel
Autopilot	SIMRAD AP50
DP System	Imtech DPT 4500 DP1 foreward and aft Operating station
Electronic chart (2 x)	Imtech Seaguide ECDIS
DGPS	1 x Koden KGP-920 2 x Fugro AD492
Gyro	Teledyne SGB2000 Northop Grumman Navigat X MK 1
Speed log	Sperry Naviknot
Echo sounder	LAZ5100

### Safety

Rescue Boat	Zhenjiang Siyang Diesel, 6 persons
Life Rafts	6 x 20 persons
EPIRB	McMurdo Smartfind E5, Seamarshal SAR finder
SART	McMurdo S4 Rescue
Fire Detection	Imtech / Autronica
Gas Detection	Sieger

### Communications

V-SAT	2 x KU Band SeaTel 5009-33 1 x Iridium Pilot
UHF	3 x Motorola CM340
TVRO	Intellian i9P
CCTV	Orlaco

### Survey Equipment

DGPS Positioning	Starfix G2 / Starfix HP / SkyFix XP / Spot Services
Acoustic Positioning	Kongsberg HiPAP 501
Motion Reference Unit	Applanix POS MV 320E
Echosounder (*)	Kongsberg EA 600
Multibeam Echosounder (#) (*)	Kongsberg EM 2040 Reson SeaBat 7160
Sound Velocity @ Head	Valeport UltraSV
Sound Velocity Probe	AML Oceanographic Plus•X
Side Scan Sonar	EdgeTech 4200
Sub-bottom Profiler (*)	EdgeTech 3300-HM 5x5 Array
Digital Recording	Fugro GLog
Magnetometer	Geometrics G-882
Seabed Sampling	3 / 6m Gravity / Vibro Corer/ Grab Sampling
Compressors (below decks)	2 x Wärtsilä Hamworthy 185E Mk II Total Capacity 550 m <sup>3</sup> /hr, 264 cfm
Geotechnical capability	CPT and Vibrocoring
Environmental capability	Day / Van Veen Grabs Stills & Video Camera, Box Corer
ROV Capability	up to SeaEye Panther size

(\*) above  
(#) above