



FUGRO

M.V. FUGRO EQUATOR

M.V. Fugro Equator, operated by Fugro Marine, is built to the highest standards demanded of a dedicated survey vessel capable of International deployment.

21ST CENTURY SURVEY VESSEL

The specially designed hull, diesel electric drive and rudder propellers, maximises fuel efficiency, navigational control and station keeping capabilities. Great attention was paid to minimising conducted vibration from vessel mounted machinery and infrastructure. The result is an acoustically quiet platform, enabling high quality data collection. Permanently installed equipment includes the latest in digital seismic, seabed and sub seabed mapping systems. Acoustic positioning is provided by a through hull USBL system. Surface positioning is Fugro Starfix high precision, GNSS. All acquisition, navigation,

processing, charting and reporting systems are networked and integrated through industrial grade servers. See overleaf for full vessel technical specifications.

The vessel can carry out a full range of offshore survey services from simultaneous analogue/digital site surveys through to route surveys. In addition, a Fugro owned AUV system can easily be mobilised on the vessel without affecting other survey capabilities. ROV Inspection and more complex Geotechnical spreads can be mobilised as required. En suite single and double cabin accommodation for 42 and 65 metres LOA makes the M.V. Fugro Equator a very comfortable and spacious environment to work in.



Top view.



Rear view.

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Technical Specifications

General

Name	Fugro Equator
Classification	GL + 100 A5 "Survey Vessel" IW + MC AUT, DP1
Owner	Fugro Equator Inc.
Ship Manager	Fugro Marine
Built	2012
Port of Registry	Nassau, Bahamas
Call Sign	C6ZT5

Dimensions

Length Overall	65.65m
Beam	14.0m
Draught	4.20m
Tonnage	1917 T gross
Operating range	A1 to A3

Accommodation

Cabins (all en-suite)	Up to 42 persons
Sick Bay	1 single bunk – en-suite
Recreation	Gymnasium

Machinery

Propulsion	2 x 1100kW Rudder Propeller (electric)
Bow Thruster	1 x 400kW (electric)
Cruising Speed	10.0 knots
Max Cruising Speed	12.5 knots
Endurance	35 days

Electrical Power

Diesel Generator sets	3 x 910 kW
Emergency Generator	1 x166 kW
UPS clean Power	40 kVA

Capacities

Fuel Capacity	375m ³
Water Capacity	76m ³ (75 tons)
Water Making	8 ton nominal per day

Deck Machinery

Deck Crane	1 x SWL 3T/12M crane
Hydraulic A Frame	12.5T static, 7.5T dynamic
Launch Boom	2x2.5T

Control and Navigation

Propulsion Control Autopilot	Simrad AP50/Remote AP51
DP system	Imtech
Dual radars	Northrop/Gruman
Electronic Chart	Imtech ECDIS2000
Gyros	Sperry Navigat X Mkl 2x Meridian Surveyor (back up)
DGPS	Koden/KGP-920
Magnetic Compass	C-Plath/Navipol
Speedlog	Northrop/Gruman Naviknot 35de
Echosounder	Elac Nautik
AIS	Nuaticast
Navtex	McMurdo
VDR	Netwave – NW 4000

Safety Equipment

Rescue/MOB Boat	1 x Davit launched
MOB Finder	Sea Maershall SAR finder Man Overboard
Life Rafts	4 x 25 Persons
Life Jackets	100 pcs
Survival Suits	Helly Hansen
Fire Detection	Siemens

Survey Equipment

DGPS Positioning	Starfix G2 High Accuracy
On-Line Navigation System	Fugro Starfix NG + full suite of processing software
Acoustic Positioning	Kongsberg HiPAP 501 USBL
Heading Sensors	2 x Meridian Surveyor Gyrocompasses
Echosounders	Kongsberg EA600 – 18kHz, 38kHz and 200kHz
Multi Beam Echosounder	Kongberg EM302 & EM2040
Motion Compensation	F190+, MRU5, DMS2-05 & DMS-H, Seatex Seapath 330+
Sound Velocity Probe	2 x Valeport miniSVS & 2 x Valeport Midas SVX
Side Scan Sonar	GeoAcoustic 159D & Edgetech 4200
Sub-bottom Profiler	4x4 Pinger array, Kongsberg SBP 300-6, Geoacoustics Geopulse Surface-towed Boomer System 10 cu. in. mini gun with wave shape kit Geoacoustics 20-Element Hydrophone
Hydrophone Streamer	Starfix GLOG/GPLOT
Data Logging and Processing	Starfix GLOG/GPLOT
Marine Magnetometer	Seaspy Overhauser type Geometrics G880 (optional)
2D Seismic Recording	HTI NTRS2
Streamer	HTi Seamux 240 trace 6.25m
Depth Controllers	IONGEO 5010 & 5011
Firing Control	RTS Longshot, TAP mini gun controller
Gun Source Arrays	Sercel mini-G Guns Configurable up to 208cu inch array
Compressor	4 x Hamworthy compressors, Max 207 bar, 1180 m3/Hr
Seabed Sampling	3000m WD free fall 3 / 6m Gravity or Piston corer, Grab sampler
Geotechnical Capability	Full options for environmental and seabed sampling surveys, Seascout 10 / 35 cpt systems
AUV Capability	Hugin 1000 AUV