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.
M.V. FUGRO EQUATOR

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

Accommodation

Cabin (all en-suite): Up to 42 persons
Sick bay: 1 single bunk - en-suite
Recreation: Gymnasium

Machinery

Propulsion: 2 x 1100 kW rudder propeller (electric)
Bow thruster: 1 x 400 kW (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 x 166 kW
UPS clean power: 40 kVA

Capacities

Fuel capacity: 375m³
Water capacity: 76m³ (75 tons)
Water making: 8 ton nominal per day

Deck Machinery

Deck crane: 1 x SWL 3 T / 12 M crane
Hydraulic A Frame: 12.5 T static, 7.5 T dynamic
Launch boom: 2 x 2.5 T

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 MKI
2x Meridian Surveyor (back up)
DGPS: Koden/KGP-920
Magnetic compass: C-Plath/Navipol
Speedlog: Northrop/Gruman Naviknot 35de
Echosounder: Elac Nautik
AIS: NaviCast
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: Kongsberg EM302 E 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 1590 E Edgetech 4200
Sub-bottom profiler: 4x4 Pinger array, Kongsberg SSB 300-4, Geoacoustics Geopulse Surface-towed Boomer System 10 cu. in. mini gun with wave shape kit
Hydrophone streamer: Geoacoustics 20-Element Hydrophone
Data logging and processing: Starfix GLOG/GPLOT
Marine magnetometer: Seapsy Overhauser type
Geometrics G880 (optional)
2D seismic recording: HTI NTR52
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: 300dm WD free fall 3 / 6m Gravity or Pison corer, Grab sampler
Geotechnical capability: Full options for environmental and seabed sampling surveys, Seascout 10 / 35 cpt systems
AUV capability: Hugin 1000 AUV