New generation geophysical & hydrographic survey vessel designed for performance, safety and efficiency. Fugro Venturer, is the newest evolution of Fugro’s Standard Survey Vessels (FSSV series) built specifically to meet multi-role geophysical survey standards.

The suite of survey equipment includes analogue sensors comprising of hull mounted single and multibeam echo sounders, state of the art sub bottom profilers, a hull mounted Edgetech CHIRP profiler and 2 x 12 cubic inch mini air gun array and an Edgetech dual frequency 4200 FS digital sidescan sonar.

In complement to this, the vessel is also mobilised with a Hydroscience SeaMUX digital system, comprised of a 1200m HTI solid digital streamer and seismic source of 152 cubic inches, although larger sources and streamers may be mobilized subject to client requirements. Precise subsea positioning of survey equipment is achieved via a hull-mounted HiPAP 502 USBL system. Dual Rx / Dual Swath EM2040 and a Deep Water EM302 MBES system is fitted to an acoustically efficient gondola. A 20t traction winch is fitted below decks that offers sampling in up to 3500m water depth.

The design of the vessel permits simultaneous analogue/digital survey operations and the capability to also conduct AUV, ROV, Environmental and Shallow Geotechnical surveys.

The vessel houses a permanent AUV deployment Hangar and is capable of hosting a multitude of ROV platforms.
M.V FUGRO VENTURER

Technical Specifications

General
Name: M.V. Fugro Venturer
Classification: GL+100 A5 E1 BWM(D2) Special Purpose Ship, Research Vessel, GL+MC E1 AUT DP 1 EP-D
Owner: Fugro
Built: Q2 2017
Port / Flag: Panama
MMSI No.: 311 000 463
Call Sign: C6CG3
IMO No.: 9769051

Dimensions
LOA: 71.5m
Beam: 15.4m
Draught: 5.6m
Tonnage: GT 2455

Accommodation
Cabin: 34 single en-suite, 4 double ensuite
Hospital: 1 single berth
Offices: 2 clients office
Recreation: 2 x lounge / video, 1 x gym, 1 x cinema

Machinery
Bow Thruster: 1 x 600 kW (electric)
Cruising Speed: 10 knots
Maximum Speed: 12 knots

Electrical Power
Auxiliary Generators: N/A
Generators: 2 x 1175 KVA, 2 x 972 KVA CAT Leroy Somer

Capacities
Fuel Capacity: 464 m³ (35 operational days at sea)
Fuel Consumption: 211 g/kWh at 100% load (pending sea trial measurements)
Water Capacity: 185 m³
Water Making: 10 m³/day
Provisions: 90 days

Control and Navigation
Autopilot: Schottel Co-pilot Simrad AP80
DP System: Kongsberg KPOS and c.Joy
2 x Radars: Sperry S-Band & Sperry X-Band
2 x Electronic Chart: Transas HS4000
2 x DGPS: Saab RS
1 x Gyro: Sperry Navigat X MK1

Deck Machinery
Deck Crane: 2 x SWL 5.0 t / 12 m crane
Hydraulic A Frame: 1 x SWL 20t, 1 x SWL 7.5t, 1 x SWL 3t
Launch Boom: 1 x SWL 2.5t and 1 x SWL 1t traversing
Deepwater Sampling lift/log winch (PCPT): 3,500lm 20t lift and 1,400m

Communications
MF / HF (2x): Sailor 6000 series
Inmarsat C (2x): Sailor 6110 mini
VHF (4x): Sailor 6222
UHF (4x): Motorola DM2600
V-GAT: 1 x Ku band Seatele 6012
CCTV: Hernis

Safety
Rescue / MOB Boat: 6.1m 6 pers rescue boat
Lift Rafts (200%): 4 x 25 person
Survival Suits (100%): 42 pcs
Lift Jackets (200%): 100 pcs
Work Vest: 12 pcs
Fire Detection: Funa MD9800

Survey Equipment
DGPS Positioning: Starfix HP / XP and Starfix Spot
Acoustic Positioning: Kongsberg HiPAP 502, 2 Poles available
Motion Reference Unit: MRU+5, MGC R3 INS
Echo Sounder: Kongsberg EA600
Multi Beam Echo Sounder: Kongsberg EM302 and EM2040 Dual Rx
Sound Velocity Probe: 2 x Valeport Midas SVX2
Side Scan Sonar: Edgetech 4200 FS
Sub Bottom Profiler: Hull mounted Edgetech CHIRP Profiler, 2 x 12 cu inch mini guns
Magnetometer: Geometrics G-882 Magnetometer
Hydrophone Streamer: SES 24 Element Mini Streamer
Digital Logging: GLOG / GPLOT
Seabed Sampling: 3 / 6m Gravity Corer, Grab Sampler, 3 / 6m Piston Coring
Digital Seismic Recording: Hydroscience Technologies NTRS2 240 ch
Streamer: HTI Seamux gel filled 6.25m / 12.5m
Gun Controller: RTS Hotshot
Depth Controller: Digi course 5010 & 5011
Source Arrays: 6 x Sercel Mini G Guns, 152 cu inch array
Network: Several 10G Base T
Compressor: 4 x Hamworthy compressors
Geotechnical Capability: Roson CPT, Coiled rod CPTs, Piston Corer, Gravity Corer
Environmental Capability: Box corer - several options can be mobilised
Corers - several options can be mobilised
ROV Capability: Several ROV options can be mobilised