



FUGRO

M.V. FUGRO VENTURER

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 Hydrosience 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.



Fugro Venturer on launch day.



M.V. Fugro Venturer interior.

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

Cabins	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 m ³ (35 operational days at sea)
Fuel Consumption	211 g/KWh at 100% load (pending sea trial measurements)
Water Capacity	185 m ³
Water Making	10 m ³ /day
Provisions	90 days

Control and Navigation

Autopilot	Schottel Co-pilot Simrad AP80
DP System	Kongsberg KPOS and cJoy
2 x Radars	Sperry S-Band & Sperry X-Band
2 x Electronic Chart	TransasNS4000
2 x DGPS	Saab R5
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)	3,500m 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-SAT	1 x KU band Seatel 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	MRU5+, 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 Steamer	SES 24 Element Mini Steamer
Digital Logging	GLOG / GPLLOT
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	Digicourse 5010 & 5011
Source Arrays	6 x Sercel Mini G Guns, 152 cu inch array
Network	Several 10G Bass 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
ROV Capability	Corers - several options can be mobilised Several ROV options can be mobilised