



FUGRO BRASILIS

MV Fugro Brasilis is a highly advanced DP1 survey vessel, ideally suited to perform geophysical, geotechnical, oceanographic, environmental, seep hunting and ROV surveys in Brazil and South America.

MV Brasilis was designed and built to the highest standards required for the South American offshore market. The diesel electric drive, specially designed hull, resilient engine mounts and rudder propellers maximise station-keeping and navigational control, while ensuring acoustically quiet running during survey activities.

At 65 metres long, with a cruising speed of 12 knots and accommodation for 42 personnel, Fugro Brasilis is a robust, practical and efficient vessel for all survey requirements.

The vessel is permanently mobilised with a suite of the latest sensors capable of seabed mapping from 12 metres to full ocean depth. The hull mounted 'gondola' provides the perfect platform for multibeam echosounders, multifrequency single beam echosounders and a sub-bottom profiler. Towed sidescan sonar and magnetometer are also a permanent feature of the vessel's capability.

Stern and starboard A-frames enable geotechnical sampling equipment (CPT, vibrocore, piston core etc) to be deployed, whilst vessel-mounted compressors can run high-resolution digital seismic surveys.

The 340m² back deck area allows for easy mobilisation of AUV and ROV systems to complement the variety of applications that the vessel can undertake.

Additional high-resolution seismic, environmental and metocean capabilities can also be mobilised.

Coupled with Fugro's high-precision positioning and navigation services, Fugro Brasilis is an ideal survey vessel for Brazilian and South American clients.

FUGRO BRASILIS

Technical Specifications

General

Name	M.V. Fugro Brasilis
Builder / Year	Oakwell Shipyard Co.LTD / 2013
Owner / Operator	Fugro Brasilis Inc. / Fugro Brasil
Flag	Bahamas
MMSI No.	311 000 115
Call sign	C6AP7
Classification	GL+100 A5 Survey Vessel IW + MC AUT, DPI
Port of registry	Nassau
IMO No.	9627423

Dimensions

Length overall (LOA)	66.65 m
Breadth	14 m
Draft	4.2 m (5.3 m including gondola)
Tonnage	1929 t gross
Range	6000 nm
Deck Load	50T - 55T

Accommodation

Cabins	Up to 42 persons
Recreation	2 x lounge / video / internet
Fitness room	Yes
Hospital	1 single berth
Offices	1 ships office

Machinery

Propulsion	2 x 1100 kW Rudder Propeller (electric)
Manoeuvring (Bow Thruster)	1 x 400 kW (electric)
Cruising Speed	10 knots
Maximum Speed	13 knots

Electrical Power

Diesel generator sets	3 x 1,190 kW
Emergency	1 x 200 kW
Generators	L3 UPS 40 kVA
Clean power	

Capacities

Fuel capacity	375 m ³
Fuel consumption	Dependent on activity
Water capacity	166 m ³ fresh water
Water making	2 x 4 m ³ per day

Emergency Radios / Beacons

SART/EPIRB	McMurdo
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Safety

Rescue / MOB boat	RSQ 450G, 50HP, 6 pers
Life rafts (200%)	4 x 25 pers
Survival suits (100%)	43 pcs
Life jackets	48 pcs
Work vest	12 pcs
Fire detection	Siemens

Communications

MF / HF	Thrane & Thrane Sailor 6000
Inmarsat C (2x)	Thrane & Thrane Sailor 6006
VHF (2x)	Thrane & Thrane Sailor 6222
UHF	Thrane & Thrane Sailor 3520 / 3540
CCTV	Hernis 400

Control and Navigation

Propulsion control autopilot	Schottel Copilot Simrad AP50
DP system	Imtech DP1
Backup DP system	Imtech DP1
Radars	1 x Sperry S-Band / 1 x Sperry X-Band
Electronic chart	1 x Imtech HDW ECDIS2000
DGPS	2 x Kodan KGP-920
Magnetic Compass	1 x Sperry Jupiter
Gyro	1 x Sperry Navigat X MK 1 / 1 x Sperry Navitwin IV
Speedlog	Sperry Naviknot
Echosounder	L3 LAZ 5100
AIS	ACR Nauticast
NAVTEX	Furuno NX700
VDR	Netwave NW-4000

Deck Machinery

Deck crane	National Oilwell 90 foot clear, welded
Hydraulic A-frame	Dreco Model 350 HD, 350 HP drawworks
Hydraulic A-frame	150 tonnes, static
Launch boom	Hydradyne Travel Block type, 150 T x 4.5 m stroke

Geotechnical Systems / Laboratory

Downhole	1 x SWL 3.6 t / 12 m crane
Seabed	Aft: 1 x SWL 30 t, dynamic SWL 12t
Onboard laboratory	1 x SWL 7.5 t (starboard)
Sample storage	2 x SWL 2.5 t traversing

Survey Equipment

DGPS positioning	Starfix G2 High Accuracy
Online navigation system	Fugro Starfix.Seis / Starfix NG
Offline processing system	Fugro Starfix.Proc software
Acoustic positioning	Sonardyne Ranger 2 HPT500 / Sonardyne Lodestar
Echosounders	Kongsberg EA 400 200-28E and 38-7
Multibeam echosounders	Hull-mounted: Kongsberg EM302 and EM2040
Motion compensation	CodaOctopus F-190 and TSS DMS3-05
Sound velocity probe	2 x AML Smart-X
Side scan sonar	EdgeTech 4200 and EdgeTech 2000-DSS
Sub-bottom profiler	Hull Mounted Kongsberg 300-6 / EdgeTech 2000-DSS
Magnetometer	Marine Magnetics SeaSPY
Seabed sampling	Gravity Piston Corer, Van Veen Grab Sampler (3,000 m)
Compressors	4 x Wärtsilä Hamworthy compressors

