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, DP1
- **Port of registry**: Nassau
- **IMO No.**: 9627423

### Dimensions

- **Length over all (L.O.A.)**: 66.65 m
- **Breadth**: 14 m
- **Draught**: 4.2 m (5.3 m including gondola)
- **Tonnage**: 1,929 t gross
- **Operating range**: 6,000 nm
- **Deck load**: 50T - 55T

### Accommodation / Rooms

- **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)
- **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**: Dependable on activity

### Capacities

- **Fuel capacity**: 375 m³
- **Fuel consumption**: Dependable on activity
- **Water capacity**: 166 m³ fresh water
- **Water making**: 2 x 4 m³ per day

### Emergency Radios / Beacons

- **SART/EPIRB**: McMurdoo

### Safety

- **Rescue / MOB boat**: RSQ 4500, 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
- **Backup DP system**: Imtech DP1
- **Radar**: 1 x Sperry S-Band / 1 x Sperry X-Band
- **Electronic chart**: 1 x Imtech HDW ECDIS2000
- **DGPS**: 2 x Koden KGP-920
- **Cygromagnetic Compass**: 1 x Sperry Jupiter
- **Gyro**: 1 x Sperry Navigat M K1 / 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 cradle, welded
- **Hydraulic A-frame**: Deeco Model 350 HD, 350 HP drawworks
- **Hydraulic A-frame**: 150 tonnes, static
- **Launch boom**: Hydrodyne 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 Lodes
- **Echosounders**: Kongsberg EA 400 200-28E and 38-7
- **Multibeam echosounders**: Hull-mounted: Kongsberg EM302 and EM2040
- **Motion compensation**: CodaOctopus F-190 and TSS EMS3-05
- **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 Wirtz 16/80 Haigh compressors