Fugro Aquarius is a Brazilian-built DP2 ROV Support Vessel (RSV) designed specifically to service the Brazilian market. This is a highly versatile vessel, measuring 83 metres long, with a deck area of 520 square metres and accommodation for 60 people.

Fugro Aquarius is capable of operating in water depths of 3,000 metres. It is permanently equipped with two Fugro-built 150 HP work class ROVs. The stern A-frame, with active heave compensated winch system, allows for deployment of 10 tonnes, whilst the helideck is suitable for medium-lift helicopters such as the Sikorsky S-92.

Designed by Damen shipyards group and built by Wilson Sons shipyard in Guarujá near São Paulo, the vessel’s local content exceeds 60%, with technology and equipment locally sourced, and 250 Brazilian nationals involved in the various project stages.

Fugro Aquarius is ideally suited for subsea inspection, repair and maintenance work, along with support for subsea construction projects in Brazilian markets. The vessel complements Fugro’s established presence and capabilities in Brazil, and will play a particular role in maintaining the performance and production levels of the country’s oil and gas infrastructure.
FUGRO AQUARIUS

Technical Specifications

General

Name: ROV Support Vessel (RSV) Fugro Aquarius
Year of Construction: 2015 (Wilson Sons Shipyards, Guarujá)
Port / Flag: Rio de Janeiro / Brasil
MMSI No.: T.B.C.
IMO No.: 9657698
Helideck: max. Sikorsky S-92

Dimensions

Length (LOA): 82.6 m
Length overall (LOA) inc Helideck: 84.7 m
Breadth: 18.0 m
Draft: Design 5.5 m (max. 6.0 m)
Tonnage: 4144 Te gross
Range: 8500 nm
Deck Load: min 300 Te

Accommodation

Cabins: 60 people
Recreation: Cinema / gym
Hospital: 2 beds
Offices: 4 individual / 2 client / 1 radio room
Meeting Rooms: 1 multimedia / 1 training/helicopter briefing

Machinery

Propulsion: 2 x 1500 kW azimuthing thrusters (electric)
Manoeuvring (Bow Thruster): 2 x 750 kW (electric)
Cruising Speed: 11 knots
Maximum Speed: 13 knots

Power Generation

Diesel Gensets: 5 x 1350 kVA
Emergency Generator: 1 x 60 kW
Clean Power: L3 UPS 1 x 10 kVA / 2 x 20 kVA / 2 x 60 kVA

 Capacities

Fuel capacity: 1059 m³
Fuel consumption: Depends on activity
Water capacity: 345 m³ fresh water
Water production: 2 x 5 m³ per day

Communication

MF / HF: Thrane & Thrane Sailor 6301
Inmarsat C (2x): Thrane & Thrane Sailor 6006
VHF (2x): Thrane & Thrane Sailor 6222
CCTV: Hernis 500

Safety

Fast Rescue Boat: NED-DECK GJ6.0,B1, 212HP, 13 people, >30 knots
Lift Rafts (2x166%): 8 x 25 people
Survival suits (100%): 60 people
Lift vests (2x100%): 2 x 60 people
Work Vests: 12 people
Fire Detection: Autronica
EEBD (100%): 60 people
Man Overboard system: Sea Marshall SARfinder CREWFIX

Control & Navigation

Autopilot: Simrad AP51
DP System: Imtech DP2
Backup DP: Imtech DP2
Radars: 2 x Imtech Hagenuk Bridgemaster band FT CAT1/2 X/S band
ECDIS: 2 x Imtech Seaguide ECDIS222
DGPS: 2 x Koden KGP-920CEAP7
Magnetic Compass: 1 x Sperry Jupiter
Gyros: 3 x Sperry Navigat x MK1
Speed Log: Furuno DS-60
Echo Sounder: Skipper GS102
AIS: ACR Nauticast
Navtex: McMurdo Smartfind GMDSS NAVTEX
VDR Simrad AP51: Netwave NW-4000

SART

SART/EPIRB: McMurdo

Deck Equipment

Crane: Sea state 5 outboard: 1 x SWL 10 T / 12.5 m
Sea state 5 inboard: 1 x SWL 10 T / 19.4 m
Harbour 1 x 20 T / 10 m
Personnel 1 T / 19.4 m

Ster A-frame: SWL 10 T dynamic
SWL 10 T (in-water) @ 3000 m
A&R Winch with AHC: SWL 30 T 1st layer; max. 50 m/min
Operational limit up to Hs = 4 m

Positioning Equipment

DGNSS: 2 x Starfix G2 High Accuracy
Hydroacoustic USBL: 2 x Sonardyne 6G Ranger2 (GyroUSBL)
Microwave: Relative positioning system (Kongsberg Radius)

ROV Equipment

2 x WROV: FCOV1000 150 HP with TMS, up to 3000 m water depth
Heave compensated A-frame LARS up to Beaufort 5
1 x OBSROV (option): Prepared for Lynx or similar

Survey

CTD (option): Prepared for Current/ Temperature/ Depth installation
ADCP: Acoustic Doppler Current Profiler (hull mounted)
Offline room: Dedicated & independent DGNSS

WWW.FUGRO.COM