



FUGRO

M.V. FUGRO FRONTIER

M.V. Fugro Frontier has been built to the highest standards demanded of modern internationally operating multi-purpose survey vessel.

The diesel electric propulsion, specially designed hull, resilient engine mounts and rudder propellers maximize station keeping and navigational control while ensuring acoustically quiet running at survey speeds.

Designed with highest consideration for safety and environment as a compact flexible platform supporting a wide range of offshore services with a typical operational profile of geophysical survey, geotechnical survey operations up to 1000m WD.

Its limited 3m draft and permanently mobilised 8m survey launch adds to its operational capabilities close inshore. The vessel can easily be configured to support light ROV and environmental operations. The 53 metre-long vessel is prepared for dynamic positioning and equipped with state-of-the-art survey equipment.

The survey launch, deployed via dedicated integrated slipway, comes fully mobilised with its own survey equipment and operates simultaneously with and in close proximity to the mother vessel. The survey launch is ideal to survey up to beach breaks and any other limited draft/manoeuvrable areas.



Backdeck layout and facilities allow fast mobilisation and flexibility of configuration.



The Impi ii vessel is part of the Frontier and located at the back deck.



M.V. FUGRO FRONTIER

Technical specifications

General info

Name	Fugro Frontier
Classifications	Germanischer Lloyd
Flag state / Port	Bahamas Maritime Authority (BMA)
Build(er)	December 2014 – Damen Shipyards Galati
IMO /Cal sign	9701645 / C6BH
Official Number	7000674

Dimensions

LOA.	53.7m
Beam	12.5m
Draught (summer)	3.1m + 0.25 m blister
Tonnage	1400GT
Deck area aft	250m ²
Deck strength	5T / m ²
Deck load	60T

Accommodation

Cabins	31 Bunks / 9x Single cabins, 11 Double cabins
Crew (Typical)	11x Marine Crew, 20x Survey Crew
Recreational	1x Dayroom, 1x Gym
Work Offices	2x Survey, 1x Meeting room

Machinery

Propulsion	2x Azimuth thrusters (electric)
Bow thrusters	1x Tunnel thrusters (electric)
Cruising speed	10 kn
Survey speed	Variable as required
Maximum speed	11.2 kn

Electrical power

Diesel generator sets	4x 372kW
UPS supply survey	1x 30kva, 220vac

Capacities

Fuel capacity	300 m ³
Fuel consumption (FOC t/day)	Survey 2.7 m ³ / Stationary(DP) 4.2 m ³ /Transit 6 m ³
Potable water capacity	115 m ³
Water making	6 m ³ /d

Control and navigation

DP System	Imtech DP-0
Radar	Hagenuk Bridgemaster FT CAT1/2 S- band and
Electronic chart	Imtech ECDIS
DGPS	1x Kodan KGGZO / 2x Fugro Starpack
Magnetic compass	Sperry Jupiter
Gyro	Navigat X MKI + TSS Meridian Surveyor

Deck Machinery

Deck crane aft	Palfinger PK65002 MD
Storage crane forward	Palfinger PK15000 MC
Hydraulics Ring Main system	300bar / 200ltr.
A-frame aft (geophysical)	2x 3/6T SWL
A-frame side (geotechnical)	1x 9T SWL
CTD winch/davit	1x 300kg/1000m (environmental sampling)
Tugger winch aft deck	4x 3T SWL
Moonpool	Rectangular 1630x883mm (free space)
Geophysical tow winch	2x EMCE (3.5Te/ 4000m/ Rochester)
Geotechnical hoisting winch	1x EMCE (9Te/ 1500m/ 19mm)

Communications

GMDSS	Motorola - 3x VHF Handheld
Vsat	2x Seatel 5009 Ku-band
Iridium	Iridium Openport (Fall back)
UHF / VHF Radios (Operational coms)	Motorola - 2x VHF Handheld / 3x UHF Mobile / 9x UHF Portable
CCTV Camera system	Orlaco
TVRO	Intellian t40W

Safety

MOB boat	RIB
Life rafts	4 x 20 persons
Survival suits & Life jackets	44 pcs
Lifeline Pulley System	3 pcs SeaMarshall
Personal Locator Beacons (PLB)	SeaMarshall

Survey equipment

DGPS Positioning	Fugro Starfix Starpacks
Navigation package	Fugro Starfix Suite
Acoustic positioning	Kongsberg HiPap 501 incl Cymbal
Motion Reference Unit	Applanix PosMV / Coda Octopus F175
Echosounder	Simrad EA400
Draft monitoring	2x Rosemount Pressure Se.nsors
Multibeam Echosounder	R2Sonic 2026 / Reson 7160ping)
Side Scan Sonar	Edgetech 4200 (100/600)
Sub Bottom Profiler	Edgetech 3200 Chirp 4 x 4 array
Boomer	Applied Acoustics CSP 1500 with AA200 single plate towed catamaran
Magnetometer	Geometrics G-882
Seismic Compressor Hamworthy 185E MK2	2 x Wärtsilä Water Systems Ltd
Environmental sampling	0.1m Box Core 0.1 Dual Van Veen DTS6000 Deepwater Camera System 5L Niskin Sampler
2D-Seismic survey setup	as required
Geotechnical sampling	as required

Fugro N.V.

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