



# FUGRO

## M.V. FUGRO PIONEER

**M.V. Fugro Pioneer has been built to the highest standards demanded of a 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 consideration for safety and environment, Fugro Pioneer is a compact flexible platform supporting a wide range of offshore services with a typical operational profile of geophysical, geotechnical survey operations up to 1000m WD.

It's limited 3m draft adds to its capabilities to operate in shallow water nearshore. 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.



*State of the Art Kongsberg Dual Head Dual Ping Multibeam in retractable moonpool system.*



*Limited draft makes it specifically suitable for survey nearshore.*



# M.V. FUGRO PIONEER

## Technical specifications

### General info

Name	Fugro Pioneer
Classification society	DNVGL
Flag state / Port	Bahamas Maritime Authority / Nassau
Build(er)	September 2014 – Damen Shipyards Galati
IMO / Cal sign	9701645 / C6BH3
Official Number	7000674

### Dimensions

LOA.	53.7m
Beam	12.5m
Draught (summer) max.	3.1m + 0.26m blister
Tonnage	1322T
Deck area aft	250m <sup>2</sup>
Deck strength	5T / m <sup>2</sup>
Deck load	81,6T

### Accommodation

Cabins	30+4 Bunks / 10x Single cabins, 10x 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 30VA, 220vac

### Capacities

Fuel capacity	305 m <sup>3</sup>
Fuel consumption (FOC t/day)	Survey 3t / Stationary ( DP) 4.2t / Transit 6t
Potable water capacity	115 m <sup>3</sup>
Water making	6 m <sup>3</sup> /d

### Control and navigation

DP System	Imtech DP-0
Radar	Hagenuk Bridgemaster FT CAT1/2 S-band and X-band
Electronic chart	Imtech ECDIS (Single)
DGPS	1x Kodan KGPGZO / 2x Fugro Starpack
Magnetic compass	Sperry Jupiter

### 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 300 kg / 1000m (environmental sampling)
Tugger winch aft deck	4x 3T SWL
Moonpool	Rectangular 1630x883mm (free space)

### 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	6 x 20 persons
Survival suits & Life jackets	44 pcs
Lifeline Pulley System	Yes
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	Hydrins + Octans
Echosounder	Simrad EA400
Draft monitoring	2x Rosemount Pressure Sensors
Multibeam Echosounder	Kongsberg Maritime EM 2040 (Dual head/ Dual ping)
Side Scan Sonar	Edgetech 4200 (100/600)
Sub Bottom Profiler	Hullmount Array/ Fugro Glog, Boomer, Sparker
Magnetometer	Geometrics G-882
Geophysical tow winch	2x EMCE (3.5Te/ 4000m/ Rochester)
Geotechnical hoisting winch	1x EMCE (9Te/ 1500m/ 19mm)
Seismic Compressor	Wärtsilä Water Systems Ltd Hamworthy 185E MK2
2D-Seismic gear	as required
Geotechnical sampling	as required
Environmental sampling	as required

## Fugro N.V.

Veurse Achterweg 10  
 2264 SG, Leidschendam  
 The Netherlands  
 Telephone: +31 (0) 70 311 1422  
 Email: offshoresurvey@fugro.com  
 www.fugro.com