



FUGRO MERCATOR

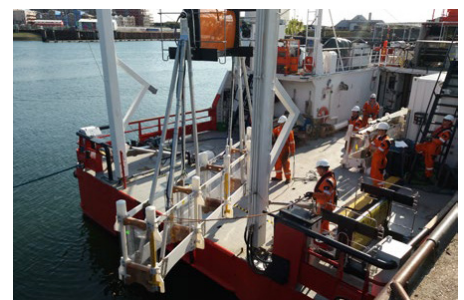
The custom-built Fugro Mercator is fully equipped for bathymetric, geophysical, cable and pipeline route surveys. Of catamaran design, the vessel is suitable for all offshore projects and ideal for nearshore area surveys.

CUSTOM BUILT WITH NEW TECHNOLOGY

The Fugro Mercator is fitted with high-end hydroacoustics, including multibeam echosounders, side scan sonar and sub-bottom profiler. A 3 ton A-frame and knuckleboom crane, along with dynamic positioning capabilities, facilitate a range of services including unexploded ordnance (UXO) and inspection surveys, and environmental investigations.

Equipped with the most recent surveying technology, one of the Fugro Mercator's greatest features is its shallow draught of only 2.9 m. This makes the vessel suitable for working both in shallow water and offshore on the continental shelf.

Custom-built for Fugro as a survey vessel in 2003, the Fugro Mercator has undergone various modifications over recent years to ensure that it continues to meet current industry standards and fulfil evolving client requirements.



Deployment of the Fugro Geowing



The Fugro Mercator is a custom-built 42 m survey vessel

FUGRO MERCATOR

Technical Specifications

General

Name	Fugro Mercator
Classification	BV + 100 A5 K MC AUT
Owner	Fugro
Built	2003 (extended in 2007)
Builder	Damen Shipyards, The Netherlands
Port/Flag	Nassau, Bahamas
Call Sign	ZDJC9
IMO No.	9299977

Dimensions

Length overall	42.35 m
Beam	10.34 m
Draught	2.9 m
Gross tonnage	360 tons
Net tonnage	108 tons
Deck space	160 m ²

Performance

Speed	12.5 kn cruising
Fuel consumption	< 2 t/day at survey speed
Endurance (cruising)	10 days approximately
Endurance (survey)	21 days approximately

Machinery

Main engine	2 x MAN 2876 LE 402
Power	2 x 375 kW
Propulsion	2 x Schottel STP 200 Azimuth
Bow thruster	1 x Tunnel 50 kW
Azimuth bow thruster	2 x Schottel SPJ17 @ 65 kW
Diesel generator	2 x 120 kVA GenSet 1 x 45 kVA GenSet
Electrical output	400 VAC / 50 Hz
Dynamic positioning	DP1

Capacities

Fuel	40 m ³ MGO
Freshwater	10 m ³
Freshwater production	5 m ³ a day

Facilities

Survey	1 x online survey room
Processing	1 x offline survey room
Conference	1 x conference/dining room

Accommodation

Persons	18 total, with full air conditioning
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Main Survey Systems

Echosounder	Simrad EA 400 Dual Frequency SBES (33 kHz/210 kHz)
Multibeam echosounder	Teledyne RESON T50-R Integrated Dual Head (200 – 400 kHz), 2048 beams
Side scan sonar	EdgeTech 4205 300 kHz/600 kHz/900 kHz
Sub-bottom profiler	STR Digital Sub-bottom Transmitter Massa TR-1075 2 x 2 array Innomar SES2000 Medium 100
Magnetometer	Geometrics G-882s Marine Magnetometer
DGPS positioning	Fugro StarPack G2+ / XP / G2
Motion sensor	2 x Applanix POS MV v5; iXSea Octans
Acoustic positioning	Kongsberg HiPAP 351P USBL (tilted 30° aft)
Sound velocity sensors	Valeport miniSV, AML SV Smart Sensor, Reson SP70 SVS

Details of other survey systems are available on request

Handling Equipment and Winches

Crane	PALFINGER PK 14080MC 13.4 m SWL knuckleboom
Crane capacity	5700 kg @ 2.3 m and 720 kg @ 12.6 m
A-frame	5 m (h) x 4.2 m (w) x 3 m SWL w/3 m winch
Central winch	With 1000 m tow cable
USBL moon pool	0.6 m x 0.9 m
Main moon pool	2.25 m x 1.5 m

Bridge/Radio Room

Navigation	Radar Simrad RA73
DGPS	Vessel has a GPS for navigation: FURUNO GPS Navigator GP-150
Gyrocompass	Navigat X
VSAT	Email and internet
GSM	Iridium and Inmarsat C facilities

