



# FUGRO

## FUGRO EXPLORER

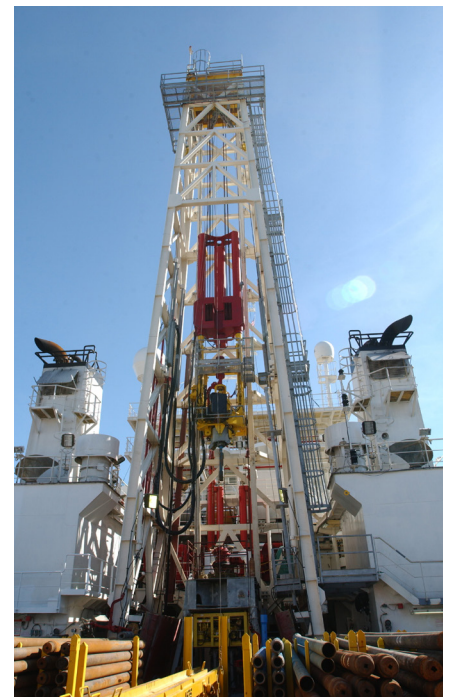
**The Fugro Explorer is an experienced and versatile DP2 geotechnical deepwater vessel.**

### GEOTECHNICAL DRILLING VESSEL

The Fugro Explorer is one of the most experienced DP2 geotechnical vessels in the Fugro fleet. Built in 1999, the vessel was completely refitted and delivered in July 2002. Since that time, the Fugro Explorer has undergone continual upgrades and improvements to remain a superior geotechnical solution for any seabed and downhole requirements. With an exemplary safety record and a long history of successfully completed site investigations in all regions of the world the Fugro Explorer is the ideal solution for offshore geotechnical engineering requirements in water depths of up to 3,000-m.

The Fugro Explorer is part of the Fugro fleet of geotechnical drill ships which are designed and classified for worldwide operations, offering unrivaled sample and in-situ data quality combined with rapid turnaround of engineering reports.

The Fugro Explorer has been specifically designed to meet the challenges of operating in today's deepwater markets. The vessel is fully equipped for geotechnical and geological/stratigraphic investigations. The Fugro Explorer is capable of undertaking long duration projects in severe operating conditions, fulfilling our client's data acquisition needs worldwide.



*The drill rig installed on the back deck of the vessel.*

# FUGRO EXPLORER

## Technical Specifications

### General

Vessel name	Fugro Explorer
Builder / year	Kwong Soon Engineering / 1999 (retrofitted 2002)
Owner / operator	Fugro Gulf, Inc. / Fugro-McClelland
Flag	Panama
Speed	Transit 11-12 knots
Call sign	3FEV9
Classification	ABS, Class +A1(E), AMS, DPS-2 ABS No. 17175, Hull no. 9801, IMO No. 9208564
Port of registry	Panama City
Endurance	43 days cruising
Operational water depth	25 m to 3000 m

### Dimensions

Length over all (L.O.A.)	79.6 m
Beam (mid)	16 m
Free board	1.5 m
Draft	5.2 m (Summer draft)
Displacement	3,233 tons (deadweight 1981 tons)
NRT	877 tons
GRT	2,925 tons
Helideck	19 m x 19 m; equipped with landing lights, twin foam fire monitors, and nets; rated for Bell 412
Moonpool	3 m x 3 m

### Accommodations / Rooms

Cabins	12 x single, 10 x double, 6 x 4 man cabins
Day room	1
Fitness room	Yes
Conference room	No
Client office	1
Hospital	1 x 1 bed

### Machinery

Main engine	2 x Wärtsilä Diesel 6L26 @ 1860 KW each
Main engine generators	4 x CAT Diesel 3412C @ 590 KW 450V 3 PH 60HZ
Power management	ABB SYNPOL D
Propulsion	2 x 4-blade Wärtsilä CP 74-ID
Bow tunnel thruster	2 x Kamewa 1650 Tunnel Thruster 800 HP
Stern tunnel thruster	1 x Kamewa 1650 Tunnel Thruster 800 HP
Emergency generator	1 x CAT Diesel 3306B @ 180 KW 450V 3 PH 60 HZ

### Capacity

Fuel capacity	842.7 m <sup>3</sup>
Fuel consumption	DP 13 m <sup>3</sup> /day; Transit 17.5 m <sup>3</sup> /day
Water capacity	Potable 347 m <sup>3</sup> ; Ballast 989.7 m <sup>3</sup> ; Drill 179 m <sup>3</sup>
Water making	2 x 64 m <sup>3</sup> /day

### Communications

V-sat	Voice + Data access
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### Safety

Rescue boats	1 x Merlin 19ft Diesel Outboard Propulsion (36 HP)
Life rafts	6 x Viking DK-T (20 men each)
Survival suits	60 total; 25 Imperial, 35 Fitzwright
Life jackets	126 (SOLAS approved)

### Deck Machinery

Deck cranes	2-ton SWL, Provisions crane, Model PK1300M
Aft deck crane	Palfinger Electric/Hydraulic 6-ton SWL, Model PK-6
A-frame	Stern Mounted 20-ton Hydraulic

### Positioning / Navigation

Echosounder	1 x Furuno FE-700
S-band radar (ARPA)	1 x Furuno FAR-2835S
X-band radar	1 x Furuno FAR-28307
Gyro compass	1 x Robertson RGC-12 2 x SG Brown meridian surveyor
Automatic pilot	1 x Robertson AP9 MK3
Doppler log	1 x JRC JLN-203
Wind indicator	Radio Holland Delta-130
GPS	1 x JRC-4110 MKII; 1 x Furuno GP-80
ECDIS	1 x TRANSAS 4000 + 1 spare (to be fitted)
Transporter (SART)	1 x Kannad, 1 x Tron

### Drilling System / Seabed Frame System

Drilling derrick	National Oilwell 90 foot clear, welded
Drilling rig	Dreco Model 350 HD, 350 HP drawworks
Max load	150 tonnes, static
Heave compensation	Hydradyne Travel Block type, 150 T x 4.5 m stroke
Top drive	National Oilwell TD10H, 400 HP with elevator collet
Drill pipe length	9.4 m, 3000 m storage capacity
Pipe handling	MOS pipe crane and pipe feeder
Rotary slips	Cavins Model F, 180T
Mud pumps	2 x Wirth 5½ x 5½ Triplex
Mud mixing pumps	4 x 5 m x 6 m centrifugal
Mud tanks	3 x 27 m <sup>3</sup>
Bentonite dry / liquid	3 x 43 m <sup>3</sup> (dry) / 2 49 m <sup>3</sup> (liquid)
Barite dry	1 x 43 m <sup>3</sup>
Heavy load winch	35T traction winch / 3000 m capacity
Seabed frame	3 m x 3 m x 4 m / 14 tons

### Geotechnical Systems / Laboratory

Downhole	Dolphin System
Seabed	Wheeldrive, Haliibut, Piston Corer, Box Corer
Onboard laboratory	Permanent, 259 m <sup>2</sup>
Sample storage	2.4 m x 3 m refrigerated container

### Control and Navigation

DP System	SDP 21 Kongsberg, DPS IJS x 1
Reference systems	2 x DGPS, 1 x Taut Wire, 1 x HPR
Wind indicators	1 x Kongsberg, 1 x Obsermet
Vertical reference system	3 x Seatex MRU