Fugro Explorer

Geotechnical Drilling Vessel

Fugro's new technologically advanced geotechnical vessel, Fugro Explorer, is equipped with the latest drilling, soil sampling and in-situ testing equipment, capable of operating in water depths up to 3,000m.

Fugro Explorer has been specifically designed to meet the challenges of operating in the world's deepwater markets. The vessel is fully equipped for geotechnical, geological/stratigraphic and reservoir characterization investigations.
The Fugro Explorer is capable of undertaking long duration projects in severe operating conditions.

Fugro Explorer features:

- Advanced sampling and testing equipment
- Dolphin suite of versatile down-hole sampling tools for piezocone penetration tests (PCPTs) and in-situ vane tests
- Fugro's new developed 10m hydraulic piston corer
- Seabed Wheeldrive system for continuous PCPT profiling, T-bar and in-situ vane tests
- Jumbo piston corer with up to 25m cores
- 1,300ft2 fully equipped geotechnical laboratory

Geotechnical Drilling Vessel

NAME	Fugro Explorer	FLAG	PANAMA
BUILT	Kwong Soon Engineering 1999; Retrofitted for Drilling 2002	CALL SIGN	3FEV9
CLASSIFICATIE	ABS, Class Maltese Cross + A1(E) + AMS + DPS-2 ABS No. 17175, Hull No. 9801, IMO No. 9208564		

Dimensions

Length	261ft
Beam	52.5ft
Moulded depth	20.7ft
Load draught	17.1ft (Summer)
Helideck	62.3ft x 62.3ft equipped with landing lights, twin foam fire monitors, and nets. Rated for Bell 412
Moonpool	10ft x 10ft

Machinery

Main engines	2x Wartsila Diesel 6L26 @ 1860 KW each
Propulsion	2x 4-blade Wartsila CP 74-ID
Manoeuvring	Simrad-Robertson Joystick System, Vessel Computerized Manoeuvring System
Bow thrusters	2x Kamewa 1650 Tunnel Thruster 800 HP
Stern thrusters	1x Kamewa 1650 Tunnel Thruster 800 HP
Main generators	4x Leroy Somer 590 kVA, 450 V, 60 Hz, 3 Phase, driven by Caterpillar Engine D3412C 2x Leroy Somer 650 kW, Shaft Generator, Power Management System Controlled
Emergency generator	1x Caterpillar 3306 B, 440 V, auto-start, 209 kW
Water makers	1x Aquamar AQ - 10/12 (2642 GPD) 1x Aqua Sep. Reverse Osmosis (3960 GPD)
Maximum speed	12knots
Cruising speed	11knots
Fuel usage on passage	4,623 GPD
Fuel Usage on DP	3450 GPD (Average)

Capacities

Fuel oil	222,615 gallons
Lubricating oil	8,930 gallons
Slop oil	2,245 gallons (sludge); 2,245 gallons (dirty)
Potable water	91,783 gallons
Ballast water	261,452 gallons
Drill water	47,397 gallons
Sewage tanks	2,472 gallons
Endurance	45 days cruising

Mooring system

4-point mooring	4x Plimsol 35ton hydraulic with level wind and tensionmeter 3,281 ft, 11/2" steel cable 5 ton Delta Flippers Anchors

Navigation

GPS	1x JRC-4110 MKII; 1x Furuno GP-80
Auto pilot	1x Robertson AP9 MKIII
Auto tracking	1x Robertson STS500
Gyrocompass	1x SG Brown SGB1000B; 1x SG Brown SGB1000S 1x Simrad Robertson RGC-12

Navigation (cont.)

Bridge fathometer	1x JRC JFE-570SD; 1x JRC NJH33
GMDSS console	1x JRC - NCU - 331A
VHF fixed radios	2x JRC JHS-32A incl. DSC
VHF additional	1x Sailor RT 4800
VHF hand held	3x Furuno FM77
VHF survival sets	3x Icom IC-GM1500E
HF radios	1x JRC JSS-800 250W MF/HF, including DSC and Telex
Satellite phone	1x Stratus Iridium
Marisat transceivers	1x NERA (Inmarsat B) Saturn Bm Mk2 Air Phone/Fax 1x JRC (Inmarsat C) JUE-75C
Anemometer	Radio Zeeland Delta 130
Doppler log	JRC - JLN 203
Current indicator	Furuno IC-80

Dynamic Positioning

Type	Kongsberg Simrad DPII
Reference systems	Bandak MK12 LTW Taut wire; Sonardyne Acoustics; 2x DGPS 2x Kongsberg Seatex MRU 2

Communications

Weather Fax	1x JRC JAX 9A
Navtex	1x JRC Navtex Receiver NCR-300A
Radar	1x Furuno FAR-2825X ARPA, (X-band, 3cm) 1x Furuno FAR-2835S ARPA, (S-band,15cm) 1x Furuno 1832

Drilling System

Derrick	90 ft, National Oil Well. 150 tons capacity
Top drive	National Oil Well
Draw-works	National Oil Well 350H
Drill string	51/2" API w/ 5 1/2FH tool joints 5 in aluminum with 51/2" FH tool joints
Mud pumps	2) Wirth 51/2 x 51/2 Triplex
Motion compensator	Hydraudyne Traveling Block
Compensator stroke	15ft. Capacity 150 tons
Deck cranes	Palfinger PK1300M electric/hydraulic 1.5 ton SWL Aft: Palfinger PK-6 electric/hydraulic 6-ton SWL
Stern mounted A-frame	20-ton hydraulic
Deepwater winches	2x 35-ton traction winch with storage reels and level wind, w 2x 35 ton line tensioners, depthometer and load indication

Mud System

Dry bulk	4x tanks @ 1,520 cu/ft each
Liquid mud	2x tanks @ 310 bbls each
Mixing/active	3x tanks @ 175 bbls each
Mixing/Transfer pumps	4off 6x5x14 Mission Magnum Centrifugal Pumps

Accommodation

Berths	48 (+1 Hospital)
Marine	crew 12
Supernumeries	36
Single cabins	12

Safety

Rescue boats	1x Merlin 19ft Diesel Outboard Propulsion (36 HP)
Life rafts	6x Viking DK-T (20 men each)
Survival suits	53 (18 Imperial / 35 Fitzwright)
Life jackets	122x SOLAS Approved
Work vests	10x PFD Type 5
EPIRBS	1x JRC JQE-3A 406 mHz compass/marsat
SART transponders	2x ACR Pathfinder SART 9 gHz
Aircraft UHF	1x Park Air TGM
Aircraft beacon	1x NDB SAC -100
Oil spill response kit	2x Regulation Kit in fixed deck box
Helicopter rescue Kit	1x Regulation Kit in portable deck box
Fire alarm	system Eltec
Fixed systems	Engine Room, CO2; Galley, CO2; Incinerator room, CO2; paint locker, water sprinkler system.
Helideck	Foam fire monitors port and starboard 1x 110lb mobile dry chemical unit; 1x mobile CO2 unit.
45lb.	
Foam monitor pump	DESMI 26,417 gallons/hr fire main/general service/ballast pump DESMI Type S 80-70-175; 15,850 gallons/hr @ 4.5 bar
Fire suits	2x Globe fire fighting suits; 2x Seco proximity fire suits; Scott 2.2 SCBA; Draeger SCBA (Helideck)

The specification of the equipment in this data sheet may be subject to modifications without prior notice

Fugro NV
10 Veurse Achterweg
PO Box 41
2260 AA Leidschendam
The Netherlands
www.fugro.com