



M.V. Fugro Gauss



Ice-classed fully equipped 69m hydrographic and geophysical survey vessel.

Multi-purpose Offshore Survey Vessel

Fugro OSAE's flagship vessel, the M.V. Fugro Gauss, is a hydrographic survey vessel by design, fitted with a magnificent infrastructure for both geophysical and geotechnical survey work.

Cable Route surveys

At a length of 69m, with active roll stabilization, and endurance of up to 45 days, the SV Fugro Gauss is the ideal vessel for cable route or hydrographic surveys around the world.

The M.V. Fugro Gauss is perfectly equipped for hydrographic and geophysical surveys: A combination of Kongsberg's EM 710 (0.5°X1°) and EM 122 (1°X2°) multi-beam echosounder systems cover high resolution surveys from shallow waters to full ocean depth.

Digital deep-tow side scan sonar, magnetometer, sub-bottom profiler along with Fugro's Starfix G2 high precision surface positioning system, complement the geophysical survey spread on board.

Equipped with air conditioning, a fitness gym, and comfortable accommodations, M.V. Fugro Gauss is also ice-classed and conforms to SOLAS requirements.



Gravity core analysis onboard the Fugro Gauss



Fugro Gauss in port for project mobilisation



M.V. Fugro Gauss

Technical Specifications

General

Name	M.V. Fugro Gauss
Classification	GL + 100 A5 E2 MC E2 AUT 16/24
Owner	Fugro
Built	1980
Builder	Schlichting-Werft Lübeck, Germany
Port / Flag	Gibraltar
Call Sign	ZDIA4
IMO No.	7824883

Dimensions

Length Overall	68.87m
Beam	13.09m
Draft	~ 5.2m
Gross tonnage	1684
Net tonnage	445
Deck space	81m ²
Container slots	4 / 6 20 ft. (with stacking)

Performance

Speed	12 kts max / 10 kts cruise
Endurance (days)	30 cruise / 45 survey
Vessel stabilisation	Active anti-roll system

Machinery

Main engines	3 x Diesel-electric MaK
Power	3 x 1300 kW (1743 HP)
Propulsion	Fixed pitch propeller with Trailing Guide Wheel (Grimmsches Leitrad)
Azimuth Bow thruster	1 x 600 kW (pump jet)
Rudder	1 x Becker Rudder
Generator	3 x variable kVA from diesel-electric plant, 380 VAC / 50 Hz
Aux. power	1 x 240 kVA Genset

Capacities

Fuel	279 m ³ MGO
Fresh water	99 m ³
Fresh water production	5 m ³ / day

Facilities

Survey	1 x on-line survey room
Processing	1 x off-line survey room

Other 2 x multi-purpose laboratories,
1 x wet lab, 1 x office room, 1 x gym

Accommodation

Crew	12
Passengers	14
Guests	4
Air conditioning	Yes

Main Survey Systems

Echo Sounder	Knudsen Chirp 3260 single beam
Multibeam Echo Sounder	Kongsberg EM710 to 1500m Kongsberg EM 122 to full ocean depth
Side Scan Sonar	Edgetech FS4200; GeoAcoustics 900 series
Sub-bottom profiler	Knudsen Chirp 3260 hull mounted
Magnetometer	Geometrics G882 deep tow (Caesium)
Cone Penetration Test	Datam Neptune 3000 CPT
DGPS Positioning	Fugro Starfix HP/XP, Fugro Starpack G2
Acoustic positioning	Kongsberg HiPAP 350 USBL
Sound Velocity Sensors	SVPs, CTDs, XBTs
Gyro	iXSea Octans Ring Laser Gyro
Motion Reference Unit	Seatex Seapath 200RTK, Coda Octopus F180

Handling Equipment and Winches

Crane	14m / central crane, SWL 3 tons
A-frame Stern	1 x SWL 10 tons static and 6 tons dynamic
A-frame Side	1 x SWL 4 tons static and 1.5 tons dynamic
Telescopic Launch Boom	1 x 15 ton SWL slide boom
Survey Winch	SOSI c/w 6000m - 17,3mm Ø coax tow cable, SWL 5 tons
Multi-purpose	2000m - 17.3mm Ø coax wire rope, SWL 4 tons
Coring Winch	2000m - 16mm Ø wire, SWL 10 tons
Bathymetric / hydrographic	5000 m - 10.5 mm Ø
Freefall Sampling Winch	6000m Dyneema SWL 4 tons

Bridge/Radio Room

Navigation	2 x Radar Furuno FAR 2837S (S-Band)
Radar	Furuno FAR 2127 (X-Band) Gyro compass (Anschütz STD 22) with autopilot AIS Nauticast X-Pack
Communication	High Speed VSAT (e-mail & Internet) Fleet 77 Inmarsat, GSM, Fitted for sailing to A3

(Inshore Work Boat optional)

Information may be subject to change without prior notice

Fugro N.V.

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