Fugro’s M.V. Fugro Gauss is a purpose-built hydrographic and cable route survey vessel by design, fitted with a bespoke infrastructure for both geophysical and geotechnical survey work.

CABLE ROUTE SURVEYS
At a length of 69 m, with active roll stabilisation, and endurance of up to 45 days, the M.V. Fugro Gauss is the ideal vessel for cable route or hydrographic surveys around the world.

The M.V. Fugro Gauss is purpose built for hydrographic and geophysical surveys: A combination of Kongsberg’s EM 710 (0.5° X 1°) and EM 122 (1° X 2°) multibeam echosounder systems cover high resolution surveys from shallow waters to full ocean depth.

In addition to deep tow side scan sonar and magnetometer, the Fugro Gauss is the only commercial survey vessel with hull-mounted Innomar Deep 2000 system covering depths up to 6000 metres. Along with Fugro’ Starfix GNSS equipment, other high precision surface positioning systems complement the survey spread on board.

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

Technical Specifications

General

Name M.V. Fugro Gauss
Classification DNV.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

Accommodation

Crew 12
Survey crew Typically 12
Passengers Up to 6

Main survey systems

Echo sounder Knudsen Chirp 3260 single beam
Multibeam echo sounder Kongsberg EM 710 (0.5 x 1°) to 2000 m
Kongsberg EM 122 (1 x 2°) to full ocean depth
Side scan sonar Edgetech FS4200; GeoAcoustics 900 series
Sub-bottom profiler Innomar SES 2000 Deep
Knudsen Chirp 3260 (both hull mounted)
Magnetometer Geometrics G882 deep tow (Caesium)
DGPS positioning Fugro Starfix HP/XP, Fugro Starpack G2
Acoustic positioning Kongsberg HiPAP 351 (Cymal technology)
Sound velocity sensors Various
Gyro GNSS based (>5 m baseline)
Motion reference unit 2x Seatex seapath 330+ & MRU 5+

Ancillary equipment

Cone penetration tester
Piston & gravity corer
Grab sampler

Handling equipment and winches

Crane 14 m / 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
SWL 4 tons static and 1.5 tons 1 x 15 ton SWL slide boom
Survey winch SOSI c/w 6000 m - 17.3 mm Ø coax tow cable, SWL 5 tons
Multi-purpose 2000 m - 17.3 mm Ø coax wire rope, SWL 4 tons
Coring winch 2000 m - 16 mm Ø wire, SWL 10 tons
Bathymetric / hydrographic 6000 m - 10.5 mm Ø
Freefall sampling winch 6000 m Dynema SWL 4 tons

Bridge / radio room

Navigation 2 x Radar Furuno FAR 28375 (S-Band)
Furuno FAR 2127 (X-Band)
Gyro compass (Anschütz STD 22) with autopilot AIS Neautcast X-Pack
Communication High speed VSAT (e-mail & Internet)
(Inshore work boat optional)
Fleet 77 Inmarsat, GSM, GMDSS A3

Information may be subject to change without prior notice.