

R/V GYRE VESSEL SPECIFICATIONS

The R/V GYRE is equipped with satellite communications (phone and internet access), differential GPS, two heavy-duty hydraulically-actuated A-Frames with high-speed winches for geotechnical coring work. Our field services are supplemented by high quality environmental and geotechnical laboratories with a staff of nearly one-hundred individuals including fourteen Ph.D. level oceanographers, geochemists, biologists and geologists.

Technical Specifications

General

Name	R/V Gyre
Owner	TDI-Brooks International, Inc.
Built	Halter Marine 01 Oct 1973, 01 Jan 1984
Port/Flag	Vanuatu, Port Vila
MMSI No.	577275000
Call Sign	YJYX5
IMO No	7318999
Classification	ABS A1, AMS, Ice Class C; Intl. Load Line
Statutory Certifications by	Isthmus Bureau of Shipping
SOLAS/MARPOL Classification	Research Vessel, Cargo ship under 500 tons

Dimensions

Dimensions (open deck)	181m ²
Dimensions (covered deck)	12' x 24' x 9' (LxWxH)
Length Overall	54.7m
Molded Breadth	10.97m
Depth to Main Deck (Molded)	4.57m
Regulatory Tonnage	291GRTM
Deadweight Tonnage	436DWT (actual number TBD after drydock)
Max Draft	3.5m
Minimum Operational WD	5m (1m deep gondola protrusion)

Machinery

Main Engines	(2) – Cat D-398
Max Continuous Power	(2) x 634.1 kW each
Generators	(2) – Cat 379B
Rated Power	2 x 250 KVA each, 440 V, 3 phase, 60 Hz, can parallel output
Emergency generator	Not true emergency, "hotel" generator 60KVA
Type II MSD	Headhunter Type II, TW-200B
Bilge Oil Water Separator	Ecologix Environmental Systems, BORST-5T107, OMD-21 detector- 5 GPM
Fuel Purifier/Centrifuge	Alpha Laval

Deck Machinery

A-frames	2 articulating, one stbd, one on stern
Crane	Nautilus Knuckle boom, 5000 # SWL 35 ft reach
Winches	Dynacon electric/hydraulic; HS line pull 8,000lbf-70m/mm; LS line pull 20,000lbf-20m/mm; plasma 12 synthetic rope
	Conducting cable winch
Moon Pool	36"

Capacities

Fuel	348 m3
Potable Water	82 m3
RO Watermaker	4.2 m3/day
FW Ballast	518 m3
Lube Oil	5.7 m3
Hydraulic Oil	5.7 m3
Slop Tank	5.7 m3
Used Oil	5.7 m3

Voice/Data Communications

Primary Data	Bandwidth 128k down/64k to 10Mb down/3Mb up
Internet/Email	Custom access allowed ranging from Free to \$7250/mth, or \$/MB
Sat Comm	KVH V7hts / Inmarsat Fleet Broadband Systems

Life Saving Equipment

Type 1 PFD	200% of POB
Immersion Suits	100% of POB
Life Rafts	6 – 20 person each; 3 per side
SOLAS Rescue Boat and davit Zodiac Hurricane RHIB, w/25 hp OBM	

Accommodations

Total Berthing (in)	35 - 9 marine crew, 26 supernumeraries
One person rooms	One
Two person rooms	Eight
Four person rooms	Three
Six person rooms	One
Heads/Showers	3 ensuite for 14 persons; 4 shared public
Galley/Mess Seating	9 per seating
Laundry	Two with 2 washers/dryers each
Lounge	One
Shop/Tool Room	One, main deck aft
Labs/Enclosed Work Spaces	Four, 2 main deck, 2 foc'sle deck aft



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