



NAUTILUS

WHO WE ARE

TDI-Brooks has over 27 years of vessel chartering and management experience.

The R/V NAUTILUS will primarily operate in the Mediterranean, North / West Africa, Mexico and Northern South America (NSA), and US East Coast.

The Nautilus is a DP2 vessel outfitted with TDI-Brooks' complete geotechnical tool kit including our suite of innovative geotechnical tools for soil sampling and measurement. These include our 0.5 and 1 meter box corers (BC), 6 and 9 meter piston corers (PC), 20 meter jumbo piston corers (JPC), cyclic t-bar instrument (TBAR), piezocone penetrometers including our 40 meter CPT-Stinger and our 10 meter Gravity CPT tool (gCPT), our newly acquired Geomil Manta-200 CPT, Neptune 3K & 5K vibrocorers and pneumatic vibrocorer.

The Nautilus will have a Reson 7150-F Dual frequency 12 and 24kHz (2° x 2° at 12kHz, 1° x 1° at 24kHz) full ocean depth system. Typical operating depth range is 6000m with a max operating range for the system of ~12800m at 12kHz. This MBES makes the vessel ideal for cable route surveys, surface geochemical "seep-hunting" (SGE) and seabed heatflow surveys (HF).

WHAT WE PROVIDE

This vessel is well suited for the following applications:

- Seabed Geotechnical Coring and Measurements
- Seabed Geochemical "Seep-Hunting" (SGE)
- Seabed Heat Flow Surveys (HF)
- 2DHR Seismic Multi Channel Geophysical Site Surveys
- Pipeline Damage Assessments and Inspection
- Offshore Wind Foundation and Cable Route Surveys



CONTACT US

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NAUTILUS VESSEL SPECIFICATIONS

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The TDI-Brooks fleet is operated within a robust Safety Management System and all vessels are regularly vetted by client marine assurance groups and a part of the OCIMF Offshore Vessel Inspection Database (OVID).

General

Name	R/V Nautilus
Owner	TDI-Brooks International, Inc.
Built	Yantai Raffles Shipyard - Yantai, Shangdong
Port/Flag	Vanuatu, Port Vila
MMSI No.	
Call Sign	9HA4507
IMO No	9223708
Classification	C * Special service-research ship ; unrestricted nav * DYNAPOS AM - R
Statutory Certifications by	Isthmus Bureau of Shipping

Dimensions

Length Overall	74.5 M
Beam	17.8 m
Depth	5.8 m
Max Draft	4.7 m
Max Draft with Multibeam	5.9 m
Light Draft	2.7 m
Deadweight At Max Draft	2,276 t
GRT	2,367 t
Free Board	1.1 m
Free Board, summer	1.1 m
Back Deck Area	252 m ²

Machinery

Main Engines	(4) – Cat 3516 DITA EUI 1440 kw x 4 = 5760Kx total Total 440V
Harbor Generator	(1) – Cat 3412, 500 kW 440V 60Hz
Emergency Generator	(1) - CAT 3304, 1x 99 Kw 440V 60Hz
Propulsion Type	Blade CPP
Stern Propulsion1	(2) KHI 2x 1491 kW Azimuthing Type KST 180 ZC/A
Kort Nozzels	(2) KHI Kawasaki Z Drive
Bow Thruster Retractable	(2) KHI 1000 BHP Azimuthing Type KRST 130 ZF/A FB Variable
Bow Thruster	(1) KHI 522 kW Type KT-72B1 Driven CPP

Mooring

Windlass	(1) Yes
Anchors	(2) 2268 Kg stockless
Chain (per side)	274 mt. 41 cm

Deck Facilities

Deck	2.5 t/m ² - steel
Clear Deck Space	252 m ²
Deck Load	1,525 t
Fuel Oil	997 t
Potable Water	286 t
Lube Oil	9.2 t
A-Frame	SWL - 22.7 t
Rescue Boat	NORSAFE SOLAS Approved
Geotechnical Winch	OLEO.MEC BCC-3000 2000, steel wire 140mm
Cranes	(1) North American MCK-1240 upper forecstle deck STBD side SWL 7.1 t

Navigation Equipment

Radars	(2) Furuno FAR 2117
Radio Stations	(2) Furuno FM-8500 VHF R/T - DSC (1) Furuno FS-1575 MF/HF/SSB R/T - DSC (2) Furuno FELCOM 17 SAT-COM Terminal (2) Furuno FELCOM 16
Auto Pilot	Sperry Marine 4000
Satellite Navigation	(1) GDNSS FUGRO 9205 Seastar (1) Furuno GP-150 (1) Furuno GP-80
AIS	(1) Mc Murdo SMARTFIND
Dynamic Positioning	Kongsberg-KPOS-21
Echosounder	(1) SIMRAD EA500
Gyro Compass	(1) JMC F 3000 W (2) Yokogawa CMZ-900
Wind Sensors	(2) Young
Speed Log	(1) CONSILLIUM

Voice/Data Communications

STARLINK MARITIME
1M Intellian VSAT

Our field services are supplemented by high quality environmental, geochemical and geotechnical laboratories with a staff of nearly one-hundred fifty individuals including fourteen Ph.D. level oceanographers, geochemists, biologists and geologists.

SCIENTIFIC SERVICES ON A GLOBAL BASIS

TDI-Brooks is a scientific data acquisition services company specializing in multi-disciplinary oceanographic projects covering; offshore geotechnical field services, environmental baseline surveys, seabed geochemical “seep hunting” and heat flow for oil and gas exploration, offshore geophysical surveys for oil & gas, wind farm, metocean, seabed mining, dredging, LNG, and multi-disciplinary oceanographic and high-end environmental chemistry, renewables and marine research.

TDI-Brooks has over 27 years of vessel chartering and management experience and currently operates five research vessels, R/V Gyre, R/V Proteus, R/V Nautilus, R/V Miss Emma McCall and R/V Brooks McCall.