



NAUTILUS

WHO WE ARE

TDI-Brooks has over 28 years of vessel chartering and management experience. TDI-Brooks has expanded its fleet by incorporating the R/V NAUTILUS. The NAUTILUS is a DP2 vessel that was built in 2000 and measures 75 meters in length.

Equipped with the newly-acquired Geomil Manta-200 CPT, which can be deployed through the NAUTILUS mid-ship moon-pool, the system has the capability to penetrate the soil up to 40-50 meters, depending on its composition.

The NAUTILUS is also outfitted with TDI-Brooks' 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 vibracorer and pneumatic vibracorer.

To facilitate comprehensive marine surveys, the NAUTILUS is equipped with a Teledyne RESON full ocean depth multibeam echosounder (MBES). It is particularly useful for conducting hydrographic marine surveys, surface geochemical "seep-hunting" (SGE), and seabed heatflow surveys (HF).

WHAT WE PROVIDE

This vessel is well suited for the following applications:

- Seabed Deep 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.	577030000
Call Sign	YJQA8
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

Accommodations

Total Berthing (in)	49
One person rooms	4
Two person rooms	18
Four person rooms	2
Hospital	1

Performance

Maximum Speed	12 knots
Economy Speed	10 knots

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 t
Deck Load	1,525 t
Fuel Oil	997 t
Potable Water	286 t
Lube Oil	9.2 t
Stern A-Frame	Timberland - SWL 22.67 Ton
Geotechnical Winch	OLEO.MEC BCC-3000 2000, steel wire 140mm
STBD FWD Provision Crane	(1) North American Pedestal Crane - MCK 1240 - rated SWL 7.1 Tpsn
STBD AFT Main Crane	(1) EBI - TC30B-40-70 - rated SWL 14.5 Tons
Rescue Boat	NORSAFE SOLAS Approved

Navigation Equipment

Radars	(3) Furuno FAR-2117
Radio Stations	(2) Furuno FM-8900 (1) Furuno FS-1575 (2) Furuno FELCOM-18
Auto Pilot	Sperry Marine 4000
Satellite Navigation	(1) Furuno GP-170 (1) Furuno GP-150
AIS	(1) Furuno FA-170
Dynamic Positioning	Kongsberg-KPOS-21 (2) DPS i2-DGPS, (1) HiPap 501 System, (1) SpotTrack System
Echosounder	(1) Furuno FE-800
Gyro Compass	(3) Simrad GC-80
Wind Sensors	(3) Gill Ultrasonic

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 28 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.