

## 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 Geomiil 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 vibrocorers and pneumatic vibrocorer.

To facilitate comprehensive marine surveys, the NAUTILUS is equipped with a Teledyne RESON full ocean depth multibeam echosounder (MBES). This advanced equipment allows for surveys up to approximately 2,500 meters water depth. It is particularly useful for conducting hydrographic marine surveys,

## 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**

TDI-Brooks 14391 S Dowling Road College Station TX 77845 USA

Phone: +1 (979) 693-3446 Email: info@tdi-bi.com Web: www.tdi-bi.com



# NAUTILUS VESSEL SPECIFICATIONS

rev 01/31/2024

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 Nauti	lus		
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 E	Bureau of Shipping		
Dimensions		Accommodations		
Length Overall	74.5 M	Total Berthing (in)	49	
Beam	17.8 m	One person rooms	4	
Depth	5.8 m	Two person rooms	18	
Max Draft	4.7 m	Four person rooms	2	
Max Draft with Multibeam	5.9 m	Hospital	1	
Light Draft	2.7 m	Performance		
Deadweight At Max Draft	2,276 t	Terrormance		
GRT	2,367 t			
Free Board	1.1 m	Maximum Speed	12 knots	
Free Board, summer	1.1 m	Economy Speed	10 knots	
Back Deck Area	252 m <sup>2</sup>			
Machinery				
Main Engines	(4) – Cat 3 Total 440	3516 DITA EUI 1440 kw x 4 : V	= 5760Kx tota	
Harbor Generator	(1) – Cat 3	(1) – Cat 3412, 500 kW 440V 60Hz		
Emergency Generator	(1) - CAT 3	(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 52	2 kW Type KT-72B1 Driven (	CPP .	
Mooring				
Windlass	(1) Yes			
Anchors	(2) 2268 Kg stockless			
Chain (per side)	274 mt. 41 cm			

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Deck	2.5 t/m <sup>2</sup> - steel
Clear Deck Space	252 m²t
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 Tpns
STBD AFT Main Crane	(1) EBI - TC30B-40-70 - rated SWL 14.5 Tons
Rescue Boat	NORSAFE SOLAS Approved
Radars Radio Stations	(3) Furuno FAR-2117 (2) Furuno FM-8900
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	(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 Positloning	Kongsberg-KPOS-21
	(2) DPS i2-DGPS, (1) Hi{Pap 501 System, (1) SpotTrack System
Echosounder	(1) Furuno FE-800
	(3) Simrad GC-80 (3) Gill Ultrasonic

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.