DEEPWATER THALASSA

ULTRA-DEEPWATER DUAL-ACTIVITY DRILLSHIP

GENERAL DESCRIPTION

Design / Generation	DSME 12000 Ultra Deepwater Drillship
Constructing Shipyard	DSME
Year Entered Service / Significant Upgrades	2016
Classification	DNV ✠1A1, "Ship Shaped Drilling Unit," E0, DYNPOS-AUTRO, DRILL, CRANE, HELDK
Flag	Marshall Islands
Dimensions	781 ft. (238 m) LOA x 138 ft. (42 m) beam x 62 ft. (18.9 m) depth
Drafts	39 ft. (11.8 m) operating / 29 ft. (8.8 m) transit
Accommodation	200 persons
Displacement	114,640 st. (104,000 mt) operating
Variable Deck	25,346 st. (22,994 mt) operating / 20,938 st. (18,995 mt) transit
Transit Speed	up to 12.5 knots
Maximum Water Depth	12,000 ft. (3,658 m) designed / 10,000 ft. (3,048 m) outfitted
Maximum Drilling Depth	40,000 ft. (12,192 m)



DRILLING EQUIPMENT

Derrick	Dual dynamic derrick 210 ft. (64 m) clear internal working height with 78 ft. (23.7 m) x 46 ft. (14 m) base
Hook Load Capacity	(Main and Aux) 1,400 st. (1,270 mt) capacity (2,000 st. (1,814 mt) combined)
Drawworks	Two (2) (Main and Aux) NOV AHD-1400 active heave compensated drawworks, 10,500 hp each with seven (7) x 1500 hp GE 690VAC motors, both drawworks rated at 1,400 st. (1,270 mt) (blocks reeved for 16 lines) with 2-1/8" OD lines
Compensator	(Main and Aux) Active Heave Compensation in drawworks
Rotary Table	(Main and Aux) NOV RST-755 75-1/2" hydraulic rated at 1,250 st. (1,134 mt); 45,000 ft.-lbs. maximum continuous torque
Top Drive	(Main and Aux) NOV TDX-1250 electric rated to 1,250 st. (1,134 mt) with a continuous torque output of 105,000 ft.-lbs. (at 130 rpm) and two (2) x 1,340 hp AC motors
Tubular Handling	Two (2) NOV ST-160 Iron Roughnecks for tubulars ranging from 3-1/2" to 10," racking systems for a tubular range of 4-1/2" to 14" with two (2) vertical pipe racking systems
Riser Feed	One (1) Riser Catwalk Machine, maximum capacity 49.6 st. (45 mt) and 90 ft. (27 m) riser joint
Mud Pumps	Four (4) NOV 14-P-220 AC triplex pumps, each driven by two (2) x GE 1,100 hp 690VAC motors plus space for a fifth optional pump
HP Mud System	Rated for 7,500 psi

CRANES

Cranes	Three (3) 110 st. (100 mt) knuckle boom cranes rated at 27.5 st. (25 mt) at a radius of 147.6 ft. (45 m)
AHC Subsea Crane	One (1) 182 st. (165 mt) active heave compensated knuckle boom crane for handling 93 st. (84.3 mt) subsea equipment to 12,000 ft. (3,658 m) WD

POWER AND MACHINERY

Main Power	Six (6) Hyundai HiMSEN 4-stroke 720 rpm diesel engines, each driving a 6,750 kW x 11KVAC generator
Emergency Power	One (1) 4-stroke 1,800 rpm diesel engine rated at 1,700 kW driving a 690VAC generator
Power Distribution	Three (3) Siemens 11KV AC switchboards with (AGP)® (Advanced Generator Protection); DC drilling drives include stored energy capacity (Hybrid Power System)

STORAGE CAPACITIES

Fuel Oil	50,318 bbl (8,000 m3)
Liquid Mud	8,869 bbl (1,410 m3) Active / 10,562 bbl (1,679 m3) Reserve
Base Oil	4,935 bbl (785 m3)
Brine and Completion Fluids	20,442 bbl (3,250 m3)
Drill Water	21,700 bbl (3,450 m3)
Potable Water	8,177 bbl (1,300 m3)
Bulk Material	(mud + cement) 30,017 cu. ft. (850 m3)
Sack Storage	10,000 sacks

BOP AND SUBSEA EQUIPMENT

BOP	Two (2) x seven (7) ram 18-3/4" x 15,000 psi BOPs consisting of two (2) Cameron TL doubles and one (1) Cameron TL triple, separate test control system for the second BOP while the primary BOP is deployed
LMRP	Two (2) LMRPs, each including one (1) Cameron Dual DL 18-3/4" 10,000 psi annular preventer
BOP Handling	NOV BOP Moonpool Trolley rated at 661 st. (600 mt) with two (2) x 330.5 st. (300 mt) overhead service hoists and two (2) x 16.5 st. (15 mt) service hoists
Marine Riser	Cameron Load King Riser 75 ft. (22.8 m) x 21" OD, with H class connectors and 4.5" ID 15,000 psi choke and kill lines
Tensioners	2,000 st. (1,814 mt) combined capacity using eight (8) NOV DWRT-250 dual riser tensioners rated at 125 st. (113 mt) each tensioner with a maximum effective 50 ft. (15.2 m) stroke
Diverter	Cameron 21" x 500 psi with two (2) 16" flow lines
Tree Handling	One (1) 385 st. (350 mt) Xmas tree trolley and two (2) 165 st. (150 mt) skid cart
Moonpool	82 ft. (25 m) length x 31 ft. (9.5 m) width

STATION KEEPING / PROPULSION SYSTEM

Thrusters	Six (6) right angle geared thrusters, three (3) forward and three (3) aft, each rated at 5,500 kW, variable speed, fixed pitch, fully azimuthing, and underwater demountable type with advanced thruster capabilities (ADCAP)
DP System	DP3, Kongsberg Maritime K-Pos 3 (triple redundant) with backup DP system

OTHER INFORMATION

Helideck	Rated for Sikorsky S-61N and S-92 helicopters
Emissions	IMO tier III with SCR exhaust treatment and using low sulpher or ULSD diesel fuel (MGO)
Additional Features	MPD Operable

These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation, and customer needs. All equipment shall be operated and maintained at all times, in compliance with Transocean standard operating manuals, policies, and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.

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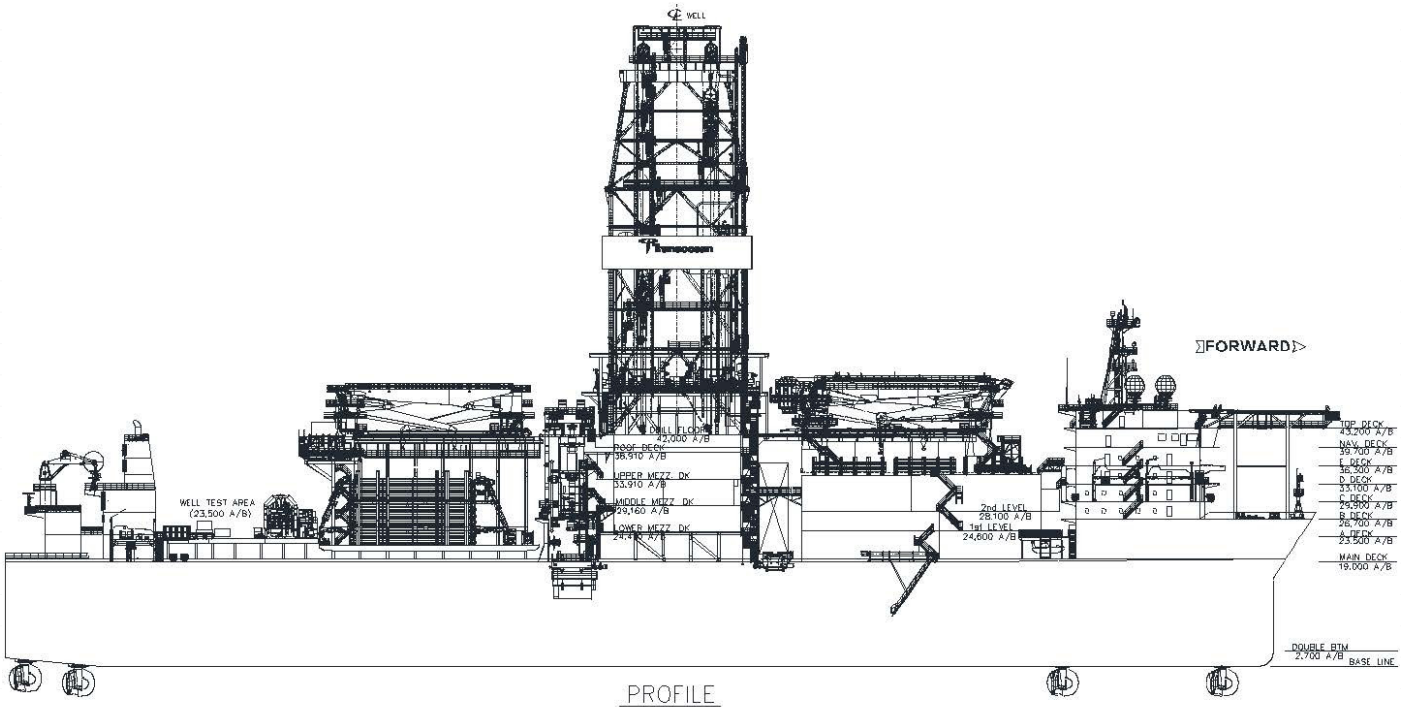
For additional information please contact the Transocean Marketing Department:

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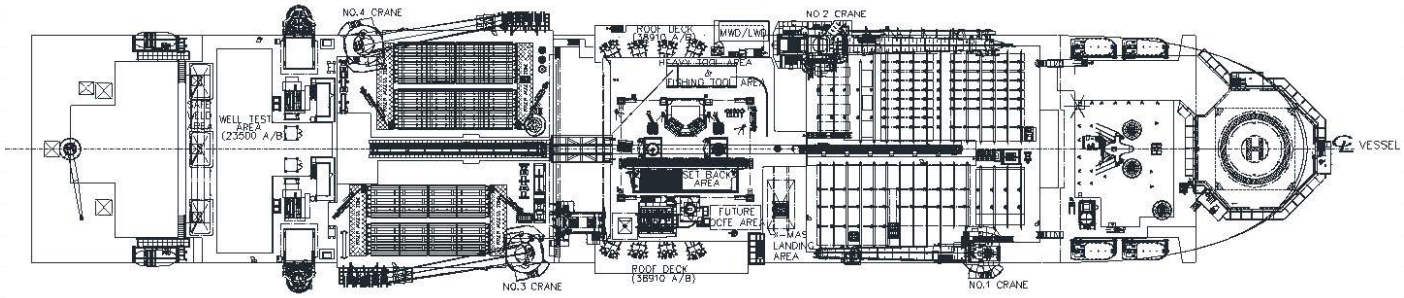
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PROFILE



DRILL FLOOR & PLAN

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