

DEEPWATER POSEIDON

ULTRA-DEEPWATER DUAL-ACTIVITY DRILLSHIP



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General Description

Design / Generation	DSME 12000 Ultra Deepwater Drillship
Constructing Shipyard	DSME
Year Entered Service / Significant Upgrades	2018
Classification	DNV ✕1A1, "Ship Shaped Drilling Unit", E0, DYNPOS-AUTRO, DRILL, CRANE, HELDK
Flag	Marshall Islands
Dimensions	781 ft. LOA x 138 ft. beam x 62 ft. depth
Drafts	39 ft. operating / 29 ft. transit
Accommodation	200 persons
Displacement	114,608 st operating
Variable Deck	25,346 st operating / 20,938 st transit
Transit Speed	up to 12.5 knots
Maximum Water Depth	12,000 ft designed / 10,000 ft outfitted
Maximum Drilling Depth	40,000 ft

Drilling Equipment

Derrick	Dual dynamic derrick 210-ft clear internal working height with 78-ft x 46-ft base
Hookload Capacity	(Main & Aux) 2,800,000 lbs. static hook load. (4,000,000 lbs. combined)
Drawworks	Two (2) (Main & Aux) NOV AHD-1400 active heave compensated drawworks, 10,500 hp each with seven (7) x 1500 hp GE 690 VAC motors Both drawworks rated at 1,400-st (blocks reeved for 16 lines) with 2-1/8 inch OD lines
Compensator	(Main & Aux) Active Heave Compensation in drawworks.
Rotary Table	(Main & Aux) NOV RST-755 75-1/2 inch hydraulic rated at 1,250 st; 45,000 ft.-lbs. maximum continuous torque
Top Drive	(Main & Aux) NOV TDX-1250 electric rated to 1,250 st. 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 inch to 10 inch. Racking systems for a tubular range of 4-1/2 inch to 14 inch with two (2) vertical pipe racking systems
Riser Feed	One (1) Riser Catwalk Machine, maximum capacity 45 mt and 90 ft. 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
Solids Control	Six (6) Brandt Single VSM-MS triple deck shale shakers

Power & 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 690 VAC generator
Power Distribution	Three (3) Siemens 11KV AC switchboards with AGP (Advanced Generator Protection) DC drilling drives include stored energy capability (Hybrid Power System)

Storage Capacities

Fuel Oil	50,318 bbl
Liquid Mud	8,859 bbl Active / 10,556 bbl reserve
Base Oil	5,346 bbl
Brine	10,064 bbl
Drill Water	18,870 bbl
Potable Water	8,177 bbl
Bulk Material	(mud + cement) 30,017 cu.ft.
Sack Storage	10,000 sacks

BOP & Subsea Equipment

BOP	Two (2) x seven (7) ram 18-3/4 inch x 15,000 psi BOP's 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) LMRP's, each including one (1) Cameron Dual DL 18-3/4 inch 10,000 psi annular preventer
BOP Handling	NOV BOP Moonpool Trolley rated at 600 mt with two (2) x 300 mt overhead service hoists and two (2) x15 mt service hoists
Marine Riser	Cameron Load King Riser 75 ft. x 21 inch OD, with H class connectors and 4.5 inch ID 15,000 psi choke and kill lines
Tensioners	4,000 kips combined capacity using eight (8) NOV DWRT-250 dual riser tensioners rated at 250 kips each tensioner with a maximum effective 50 ft. stroke
Diverter	Cameron 21 inch x 500 psi with two (2) 16 inch flow lines
Tree Handling	One (1) 350 mt Xmas tree trolley and two (2) 150 mt skid cart
Moonpool	82 ft. length x 31 ft. width

Station Keeping / Propulsion System

Thrusters	Six (6) right angle geared thrusters, three forward and three 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

Cranes

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

Other Information

Helideck	Rated for Sikorsky S-61 & S-92 helicopters
Emissions	IMO tier III with SCR exhaust treatment and using low sulphur or ULSD diesel fuel (MGO)

Revision Date: 14 June 2018



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.

Patent Notice: This rig, its systems, components, and/or equipment in use on this rig, may be protected by one or more US and/or foreign patents.