

Transocean Arctic



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Harsh Environment Midwater Semi-Submersible

General Description

Design / Generation	Marosso 56
Constructing Shipyard	Mitsubishi Heavy Industries, Hiroshima, Japan
Year Entered Service / Significant Upgrades	1987 / 2004
Classification	DNV
Flag	Marshall Islands
Dimensions	220 ft long x 220 ft wide x 33 ft deep
Drafts	24 m operating / 12 m transit
Accommodation	110 persons
Displacement	36,200 mt operating / 23,933 mt transit
Variable Deck	4,470 tons operating / 3,958 tons transit
Transit Speed	up to 7 knots
Maximum Water Depth	1,650 ft.
Maximum Drilling Depth	25,000 ft.

Drilling Equipment

Derrick	Maritime Hydraulics dynamic derrick, 167 ft. high with 39 ft. long x 39 ft. wide base.
Hookload Capacity	1,300,000 lbs gross nominal capacity.
Drawworks	1 x Continental Emsco x C-3
Compensator	1 x Maritime Hydraulics CBC 270-25 drill strinc compensator with 7.6 m strok, 270 mt compensating, 590 mt locked; 1 x Maritime Hydraulics YD251 active heave compensator
Rotary Table	1 x Continental Emsco T-4950-65, 49-1/2 inch opening rated to 590 mt driven by 1 x Siemens 750 kW motor.
Top Drive	1 x Maritime Hydraulics x DDM-650-HY 650 st
Tubular Handling	Maritime Hydraulics: Vertical pipe handling - Lower racking arm - Intermediate arm - Upper racking arm. Maritime Hydraulics MH 1898 iron roughneck.
Mud Pumps	3 x Continental Emsco FB-1600 1600 HP
HP Mud System	Rated for 5000 psi
Solids Control	4 x Brandt VSM 300 shale shakers.

Power & Machinery

Main Power	2 x Warsila 8R32D diesel engine, 2,856 kW each running 1 x Siemens1fj7 804 AC generator; 2 x Warsila 12Y32D dieel engine 4,284 kW each running 1 x Siemens 1fj7 906 AC generator
Emergency Power	1 x GM 16V-92T diesel, 550 kW at 1,800 rpm.
Power Distribution	2 x Siemens IFJ 7804-3ha 92Z and 2 x Siemens IEJ - 906-3ha 92Z; Switchboard: Siemens 6000 V; Generator protection: Siemens Genop 22 S 7SP 8011-Z

Storage Capacities

Fuel Oil	22,140 bbls.
Liquid Mud	2,054 bbls. Active / 3,186 bbls. Reserve
Base Oil	1,195 bbls
Brine	3,459 bbls
Drill Water	22,140 bbls.
Potable Water	1,912 bbls.
Bulk Material	(mud + cement) 21,180 cu. ft.
Sack Storage	2,300 sacks

BOP & Subsea Equipment

BOP Rams	2 x Cameron Type U-II Double ram preventer, 18-3/4 inch 15,000 psi WP with ram locks, of which 3 x preventers are for drill pipe and 1 x preventer for blind/Shear ram.
BOP Annulars	2 x Cameron DL annulars, 18-3/4 inch, 10,000 psi WP
BOP Handling	1 x BOP crane with 2 x hoists rated at 125 mt each and 1 5 mt service winch; 1 x 10 mt chain hoist for support frame; 2 x skidding beams along moon pool and 2 x skid carts with 250 mt carrying capacity.
Marine Riser	Cameron RD, 21 inch OD x 20 inch ID, 50 ft length.
Tensioners	8 x Maritime Hydraulics 1276-01; 288 mt each riser tensioners, Stroke 3.8 m; line travel: 15.2 m
Diverter	Hughes/ KFDS 24 maximum bore for 49-1/2 inch rotary; 500 psi with 3 x 19 inch outlets
Tree Handling	X-mas tree stacking equipment: elevator capacity: 40t; skidding capacity: 70t
Moonpool	5.25 m wide x 35.20 m long x 9.45 m high

Station Keeping / Propulsion System

Thrusters	4 x azimuthing thrusters, Liaaen TNCP 105/75-280, Siemens IRN5636 motors, 2200 kW output
Controls	Kongsberg Simrad SPM -11/6480 position reference Simrad HIPAP/HPR 410 (not DP)
Mooring System	4 x double Pusnes, 750cu windlasses, 8 x anchors, type Stevpris MK 6, 15 tones, 8 x anchor chains, type NCA K4, 84 mm, 737 tons breaking strength, 151 kg/m, 2000 m. each

Cranes

Crane #1	1 x Stbd pedestal deck crane; Liebherr Type: MTC 2600-100D Litronic - max cap 70 mt. Whip: 15 mt 9.5 - 42 mt. Main hoist 70mt 9.8 - 37mt.
Crane #2	1 x Port pedestal deck crane; Liebherr Type BOS 50 - max cap 50 mt. Whip 15 mt 9.5 - 20 mtr. Main hoist 50mt - 9.5 - 20mtr.

Other Information

Helideck	Rated for Sikorsky S61, S92 and EC225 approved (Norway) 82 ft. diameter.
Other	N/A

Revision Date: 20 June-2014



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.

