



## 6th Generation Drillship

**Owner: Golden Close Maritim Corp. Ltd.**

**Manager: Odfjell Drilling**

**Design: Gusto P10000**

### MAIN DIMENSIONS

Length, overall	229.6 m	754.3 ft
Length, between perpendiculars	210.1 m	689.3 ft
Breadth, moulded	36.0 m	118.1 ft
Depth at side, moulded	18.15 m	59.55 ft
Max Design Draught, moulded	11.0 m	36.1 ft
Displacement at 11.0 m draft	70.205 mt	77.387 st

Deepsea Metro I was delivered from Hyundai Heavy Industries (HHI) in South Korea in the 2nd quarter of 2011 designed for operations in water depths of up to 10,000 feet. The drillship has a dual derrick with a main an auxiliary work centre to facilitate simultaneous operations and active heave compensating drawworks for safe and efficient operations. The drillship is equipped with large deck areas providing ample storage capacities.

Compliant with all international Rules and Regulations for operations worldwide except for harsh environment areas and have the following class notation:

**DNV +1A1 Ship-shaped Drilling Unit, BIS, EO, DYNPOS-AUTRO, DRILL, CRANE, HELDK.**

## GENERAL DATA

Operating water range	300-3,000 m	1000-10,000 ft
Drilling depth (Design)	12,200 m	40,000 ft
Design temperatures Seawater	From 0° to +32° C	From +32° to +90° F
Air	From -10°C to +40° C	From +14° to +104° F
Accommodation	210 persons	

## CAPACITIES

Diesel oil tanks incl. settling tanks and service tanks	7,500 m <sup>3</sup>	43,400 bbls
Fresh water tanks	1,400 m <sup>3</sup>	8,806 bbls
Drilling water tanks	2,700 m <sup>3</sup>	16,980 bbls
Brine tanks	1,200 m <sup>3</sup>	7,550 bbls
Base oil tanks	1,100 m <sup>3</sup>	6,920 bbls
Reserve Mud Tanks	1,500 m <sup>3</sup>	9,440 bbls
Active Mud Tanks	1,900 m <sup>3</sup>	11,950 bbls
Water ballast tanks including peak tanks	25,000 m <sup>3</sup>	157,250 bbls
Dry Bulk mud tanks (6 off)	450 m <sup>3</sup>	2,800 bbls
Dry Cement tanks (6 off)	450 m <sup>3</sup>	2,800 bbls
Bulk in sacks	8,500 sacks	
Drilling cuttings	100 mt	110 st
Casing	2,000 mt	2,200 st
Drill pipes	750 mt	827 st
Risers (10,000 ft)	4,000 mt	4,400 st
Miscellaneous pup joints, handling tools	50 mt	55 st
Telescopic joints	90 mt	100 st
BOP	400 mt	440 st

## MATERIALS HANDLING

Rig cranes	1 x 160 mt active heave compensated knuckle boom crane, with lowering capability to 10,000 water depth 1 x 100 mt knuckle boom crane 2 x 85 mt knuckle boom crane 1 x 20 mt pedestal crane
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## DRILLING FLUID SYSTEMS

Mud pumps	4 x mud pumps, 2,200 hp each, 7,500 psi, triplex (NOV 14-P-220) Two mud systems - common mix, charge and return system
Shakers	8 x high capacity shakers (NOV VSM-300)

## GREEN RIG FEATURES

- Separate drilling area drainage
- Allow working areas connected to closed drain system
- Machinery area drain according to MARPOL
- Sewage treatment plant according to MARPOL
- Waste management system implemented
- Low NOX emissions
- Electrical drawworks with power regeneration

## MARINE SYSTEMS

Generators	Total installed power 44MW, 8 sets of 4 cycle turbocharged diesel generator sets (3 engine rooms) 6 x 4,300 kW + 2 x 8,700 kW & Emergency diesel generator 1 x 1,500 kW.
Power Distribution	PMS with full integration between marine and drilling systems. Variable speed drives for drilling motors 690 VAC, Motor consumers and LQ domestic supply 480
Dynamic Positioning Design Criteria	VAC, Lighting and small power 208/120 VAC, UPS distribution 24 VDC & 120 VAC. IMO DP class 3 Max Drilling Conditions (Max wind & waves): Hs=6.0 m, Tp= 10-13s, Vw=25.0 m/s, Vc=0.8 m/s

## DRILLING SYSTEMS

The unit has a highly efficient state-of-the-art drilling system which includes a dual derrick with a main centre and an auxiliary work centre to facilitate efficient operations. The drilling system includes active heave compensating drawworks for increased performance, efficiency, safety. The rig is equipped with a HPHT deep water BOP/MUX control system. A centre for integrated E-operations for transfers of real-time data to Onshore Support Centres (OSC) are incorporated.

Derrick	Dual derrick, 4,000,000 lbs, National Oilwell Varco 2 horizontal catwalks for improved pipe handling flexibility, setback for 225 stand quadruple DP at each centre and setback for triple casing stands between.
Pipe handling	Dual derrick pipe handling system, 2 x fully redundant racking machines (PRS-5), cap of racking up to 20" Csg
Drawworks	Main: Active heave 6,900 hp drawworks Aux: Active heave 5,800 hp drawworks
Top drive	Top drive main centre 1,000 TONNES, aux centre 750 TONNES (TDS-1000 & TDS-8SA)
BOP System	Hydril BOP 18-3/4" x 15,000 psi, Hydril 6 ram BOP configuration, dual annular. Mux clean room with BOP gantry crane access with 15 s. ton overhead crane in the mux clean room. 4 x 120 mT Xmas tree carts and 1 x X-tree trolley, 700 mT capacity for BOP & X-mas tree hang-off
Riser Handling	75 ft 21" OD Vetco Riser Horizontal riser catwalk to drilling centre. 14 x Single wire line tensioners (3.5 mill lbs) Riser gantry crane, Riser elevator and Riser Catwalk Machine for riser handling (45 mt)