

Deepwater Champion

Deepwater drillship



Owner	Transocean
Builder	Hyundai Heavy Industries
Delivered	2010

Description

The deepwater drillship is a GustoMSC P10,000 design. The vessel has been specially developed to operate in water depths of 10,000 ft up to 12,000 ft and drilling activities to a total depth of 40,000 ft under the drill floor. The drill floor has a large setback capacity of 1,580 metric ton (1,750 st). A main feature is the very large free deck area on both forward side and aft side of the drill floor.

The vessel is equipped with a 165 mt heave compensated crane, for operations such as off-line subsea production tree handling, located just aft of the full double activity 4 million pounds derrick, making the vessel a 'triple activity' unit.

The GustoMSC P10,000 drillship is DP3 compliant with station keeping ability and sufficient power to operate in typical Gulf of Mexico, Brazil or West Africa conditions.

Principal dimensions and main particulars

• Length overall	229.6 m
• Length between perpendiculars	210.0 m
• Breadth (moulded)	36.0 m
• Depth at side	17.8 m
• Depth at centerline (moulded)	18.3 m
• Scantling draught	12.0 m
• Displacement (scantling draught)	76,000 t
• Deadweight (scantling draught)	44,500 t

Classification

The vessel, including her machinery, equipment and outfitting is designed and constructed under special survey of Det Norske Veritas, and obtained the Class notation:

✳ 1A1 Ship-shaped Drilling Unit E0
DYNPOS-AUTRO DRILL CRANE HELDK

Accommodation

209 persons

Heli-deck

A heli-deck, suitable for a Sikorsky S92

The Netherlands

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Operating conditions

- Significant wave height (Hs) 5.0 m
- Wind speed, 10 min. mean (Vw) 30.0 m/s
- Current speed (Vc) 1.0 m/s

Machinery

Power generation

- Main diesel generators 6 x 4,300 kW
2 x 8,700 kW
- Emergency diesel generator 1 x 1,500 kW

Propulsion and DP

- Main propulsion azimuthing thrusters 2 x 5,000 kW
- Retractable azimuthing thrusters 4 x 5,000 kW

Tank capacities (approximate)

- Fuel oil MDO 7,600 m³
- Drill water 2,700 m³
- Liquid mud 3,400 m³
- Brine 1,200 m³
- Base oil 1,100 m³

Storage capacities (approximate)

- Barite and/or bentonite in bulk pods 450 m³
- Cement in bulk pods 450 m³
- Bulk in sacks 6,000 sacks

Drilling equipment

- Derrick 210 x 80 x 60 ft
2,500 / 1,500 kips
- Main drawworks 6,900 hp
- Auxiliary drawworks 5,800 hp
- Mud pumps 4 x 2,200 hp
- B.O.P. 183/4 inch, 15,000 psi
- Riser 10,000 ft, 21 inch
- Casing 2,000 mt
- Riser tensioning 14 x 250 kips

Deck cranes

- 1 off 165 mt knuckle boom crane, with lowering capability to 10,000 ft water depth
- 1 off 100 mt knuckle boom crane
- 2 off 85 mt knuckle boom crane
- 1 off 20 mt pedestal crane

Data presented in this product sheet is for information only. Unit specific specifications as provided by the Owner shall prevail.

