

P10,000

Deepwater drillship



From the launch of the "Pelican" in 1972 GustoMSC has been involved in the design and construction of DP drill ships. During the 90's GustoMSC developed a new generation drill ship, capable of drilling in maximum 10,000 ft water depth. In 2007 the development of the P10,000 was taken a significant step further, enhancing the design ready to step into the next generation.

One of the main features is the very large free deck area on both forward side and aft side of the drill floor.

The vessel is 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 features a large racking setback capacity of 1,580 metric ton (1,750 st).

The design 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 ship's DP system is DP3 compliant with station keeping ability and sufficient power to operate in typical Gulf of Mexico, Brazil or West Africa conditions.

Units built / under construction:

• Ensco DS-2 (formerly Pride Angola)	1999
• Ensco DS-1 (formerly Pride Africa)	1999
• GSF C.R. Luigs	1999
• GSF Jack Ryan	2000

• Deepwater Champion	2010
• Deepsea Metro I & II	2011
• Ocean BlackHawk & BlackHornet	2013
• 1 unit for Fred. Olsen Energy	2013
• 4 units for Noble Corporation	2013/2014
• 3 units for Rowan Companies	2013/2014
• Ocean BlackRhino	2014

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, to obtain the Class notation:

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

The Netherlands

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Design criteria

Maximum drilling conditions

• Significant wave height (Hs)	6.0 m
• Wave period (Tp)	10-13 s
• Wind speed, 10 min. mean (Vw)	25.0 m/s
• Current speed (Vc)	1.1 m/s

Stand-by conditions

Riser connected, but no active drilling operation.

• Significant wave height (Hs)	8.5 m
• Wave period (Tp)	15-18 s
• Wind speed, 10 min. mean (Vw)	30.0 m/s
• Current speed (Vc)	0.8 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

Transit speed

Free sailing speed	approx. 12 knots
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Autonomy

The autonomy of the vessel is 90 days drilling.

Tank capacities (approximate)

• Fuel oil MDO	8,000 m ³
• Potable water	1,400 m ³
• Drill water	3,000 m ³
• Liquid mud	3,600 m ³
• Brine	1,400 m ³
• Base oil	1,200 m ³

Storage capacities (approximate)

• Barite and/or bentonite in bulk pods	450 m ³
• Cement in bulk pods	450 m ³
• Bulk in sacks	6,000 sacks

Drilling capabilities

• Risers	4,000 t
• Casing	2,000 t
• Drill pipes, collars and fishing tools	850 t
• Miscellaneous tools and pup joints	50 t
• Telescopic joints	90 t
• B.O.P.	400 t
• Third party equipment	1,200 t
• Drilling cuttings	100 t

Derrick

• Derrick (main + auxiliary)	2,500/1,500 kips
• Derrick base	80 x 60 ft
• Derrick height	210 ft
• Main drawworks	6,900 hp
• Auxiliary drawworks	5,800 hp
• Set back load	1,587 t
• Single wire line tensioners	16 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

Accommodation & heli-deck

POB	209 persons
A steel heli-deck, suitable for a Sikorsky S92	

Data presented in this product sheet is for information only and subject to change without notice.

