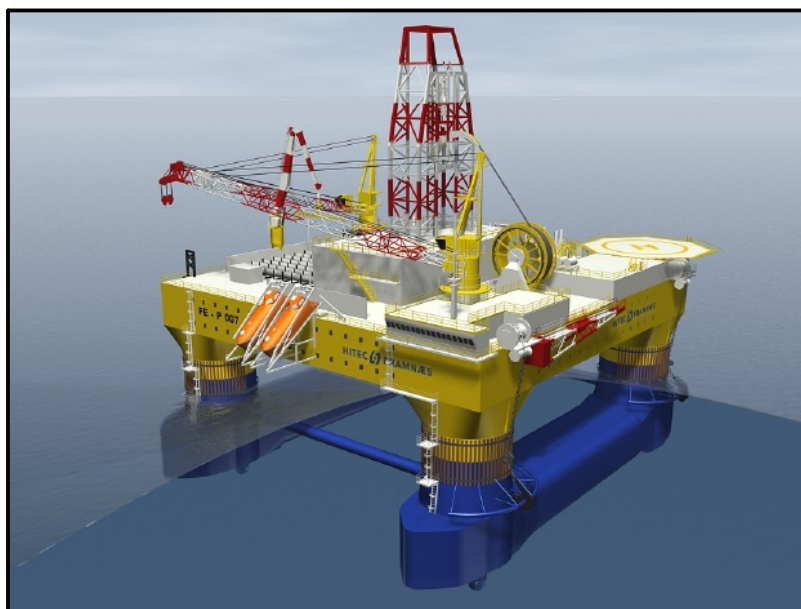




GRENLAND GROUP

## GG4-MSV

Lightweight Semisubmersible DP Class 3  
Multifunction Service Vessel



The GG4-MSV DP Class 3 semisubmersible is an advanced, compact and low cost Well Intervention, Subsea Construction and Accommodation Unit. Unique structural and hydrodynamic design gives the unit a record low fuel consumption associated with dynamic position keeping in harsh environmental areas.

The vessel is designed with global structural and layout features which allow quick re-configuration to suit a variety of contractual assignments, using the GG4's own 200t crane. The vessel may be rearranged from a "350 persons – 8 lifeboats – Telescopic Gangway" Accommodation Vessel to a Subsea Construction and Well Intervention Unit with 134 persons, 4 lifeboats, and a central Tower or Derrick structure.

Its class notation makes it compliant with the latest (2005) regulatory requirements, also for "live well operations". The design has been Main Scantling Approved by Det Norske Veritas, and has the Class Notation: DNV  $\times$ 1A1 Column Stabilized Well Intervention Unit - II with additional notations: HELDK, CRANE, DYNPOS AUTRO, E0, WELL INTERVENTION UNIT (N), ACCOMMODATION (N).

The “least-common-multiple” approach applied to minimize the amount of steel structure required to support equipment associated with GG4’s multifunction roles has resulted in a total steel weight of less than 5,500 tonnes. The vessel design is characterized by low drag, hydrodynamically favourable pontoons and columns, and a minimum of bracings.

Principal Dimensions	m
Length of Pontoons (Loa)	71.00
Breadth of Pontoons; Amidship	11.20
Breadth of Pontoons; Maximum	12.20
Depths of Pontoons	7.50
Pontoon Bilge Radius	1.75
Pontoon Distance Between Centrelines	47.92
Columns, Top Part (Square)	11.80
Columns, Middle Part Diameter	11.50
Columns, Bottom Part Diameter	12.20
Distance Between Column Centres (Long.&Transv.)	47.92
Diameter of Bracing (External)	2.00
Elevation of Lower Deck From Base Line	22.00
Elevation of Tween Deck From Base Line	25.60
Elevation of Upper Deck From Base Line	28.60
Length of Deck Box	59.72
Breadth of Deck Box	59.72
Depth of Deck Box	6.60

#### Key Features & Capacities

Diesel Engines	Six (6) @ 3,804 HP (2,800 kW)
Total Installed Power	22,842 HP (16,800 kW)
Engine Room	Three (3)
High Voltage S.B. Room	Four (4)
Low Voltage S.B. Room	Two (2)
Fresh Water	180 m <sup>3</sup>
Ballast Water	5,050 m <sup>3</sup>
Base Oil Tank	240 m <sup>3</sup>
Drill Water and Brine Tanks	450 m <sup>3</sup>
Bulk Tank Cement	44 m <sup>3</sup>
Bulk Tank Barite	44 m <sup>3</sup>
Mud Pits, total	435 m <sup>3</sup> (525 t max. weight)
Deck Load Capacity	3,000 tonnes
Max. Operating Displacement	15,880 tonnes @ 16 m draught
Lightship Weight	About 10,200 tonnes