

GPMC 7500 LIFTBOAT



GREEN PALM
MARINE
CONSULTANCY

Technical Specification sheet

General Application

The GPMC 7500 LIFTBOAT is a self-elevating, self-propelled, multipurpose service vessel equipped with four (4) truss legs suitable for operations in 75 m water depths. With its large open deck area (more than 600 sq.m) and 800 mt variable deck load, this unit is mainly designed for well intervention operations, light drilling, platform maintenance, accommodation support, etc. This unit has the ability to position adjacent to platforms without the assistance of tugs. With the four legs, preloading is accomplished by cross jacking significantly reducing the time to go on location.

Main Particulars

Hull

Hull length(PP)	57.51 m
Hull length(OA)	59.21 m
Hull Breadth	32.00 m
Leg centre Distance	
- P/S legs	25.00 m
- Aft and fwd leg	34.00 m
Hull Depth	5.00 m
Hull Draft (Loaded)	3.50 m

Cantilever

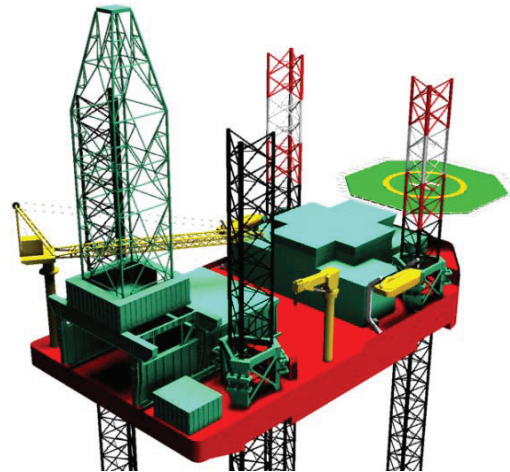
Position well centre line	10.67 m from aft hull
Cantilever Pattern	10.7 x 6.1 m
Hook Load Capacity	136 MT (300 kips)
Combined drilling load and setback	158 MT (350 kips)

Legs

Number	4 legs
Type	Triangular Truss type
Size	Leg width 5m, avg thk 32-36mm (100 ksi)
Overall length	Designed for 100 m (328ft) for max 75m (246 ft) water depth, supplied with 82.7m (270 ft) legs for 60 m water depth
Footing Area	Butterfly-shaped, approx. 40.5m ²
Bearing Pressure	Approx. 50 MT/sq.m during diagonal preloading, Approx. 40 MT/sq.m. during normal jacking

Jacking System

Number	14 x 4 = 56 pinions
Type	Rack and Pinion, Fixed type (BLM /SOE / EBI or equiv.)
Normal Jacking	80 MT/pinion
Preload Holding	140 MT/ pinion
Storm Holding	200 MT/ pinion





Accommodation

Total Capacity	100
1-man cabins	4
4-men cabins	23
2-men cabins	2
1-man cabins	4
Offices	3

Accommodation is equipped with mess for 100-men in two sitting, galley and laundry on machinery deck, TV/recreation room, hospital, gym, prayer room, locker room on main deck level.

Classification

ABS:  1A1 Self Elevating unit  AMS
Self Propelled (restricted service)
Compliance with ABS MODU 2013, IMO MODU 2009

Storage Capacities

Fuel Oil	330 MT
Fresh water	236 MT
Ballast water	638 MT
Mud Tanks	238 m ³
Cement Tanks	15 m ³

Cranes

Main Crane	Max 50 MT ; 100 ft Boom 50 MT @ 24 ft radius (min)
Auxiliary Crane	Max 25 MT at 70 ft Boom 5 MT @ 65 ft radius (max) 20 MT @ 10 ft radius (min)

Drilling Equipment

Derrick	Loadmaster, 24' x 24' x 110'
Drawworks	National 610 E W/ GE 752 MOTOR 750 HP
Rotary Table	NATIONAL C-275
Top Drive	VARCO TDS-10SA
Mud Pumps	NATIONAL OILWELL MODEL 9P-100, W/ELETRIC MOTOR 1000 HP

Power Generation & Distribution

A. Power Generations

Main Generators	4 x 1278 kW, 600 V, 50 Hz CAT 3512-B or CUMMINS type
Emergency Generator	1 x 280 kW, 480 V, 50 Hz CAT C-9 or CUMMINS type.

B. Power Distribution

Drilling equipment	690 V, 50 Hz
Main generators, Jacking equipments, thrusters	600 V, 50 Hz
Vessel's auxiliary systems	480 V, 50 Hz
Lighting & other small items	240 V, 50 Hz
Alarms & emergency lighting	24 V, DC

Propulsion System

Main Propulsion	Azimuth Thrusters, L Drive
Stern Thrusters	2 x 1000 kW azimuth thrusters
Bow Thrusters	2 x 570 kW tunnel thrusters

Design Criteria

The unit is meant for restricted operations and is designed to withstand following combinations of loads:

A. Elevated Condition

Design criteria	Survival Condition
Max Water Depth	75 m
Max Air gap	7.5 m
Wave Height	10 m
Wave period	10.0 sec
Surface Current	1.5 knots
Wind speed	70 knots
Leg Penetration	5 m
Elevated Variable Load	800MT

B. Transit Condition

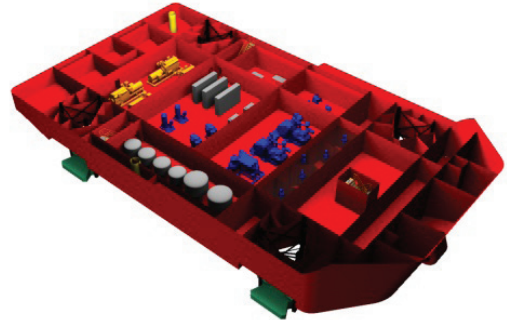
Transit speed	5 knots in calm weather
Afloat Variable Load	800 MT

Deck Area /storage

Clear Deck area	601 m ²
Sack Storage	600 sacks
Deck Loading	3 MT/m ²

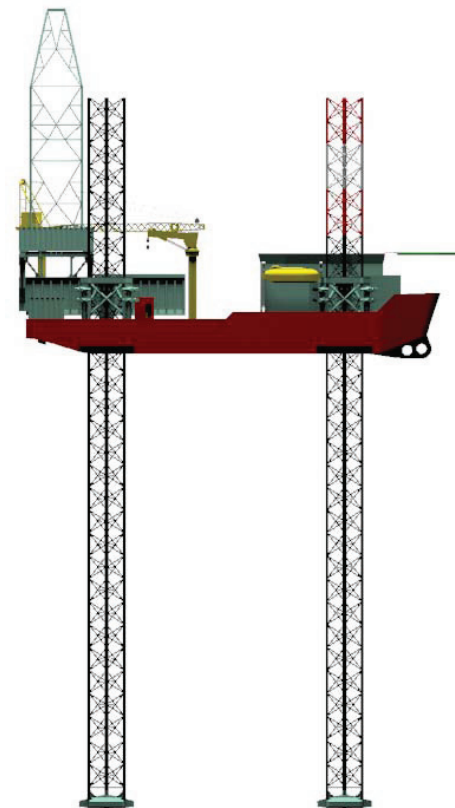
Helideck

Helicopter	S61 N, S92
Pancake	Aluminum
Size (Dia)	22.2 m x 22.2 m
MTOW	12.80 MT



Life Saving and Fire Safety

Lifeboats	2 x 100-men (Norsafe JYN110 or equiv.)
Life rafts	4 x 25-men (Viking Std 25DKF-A or eq.)
Total Life coverage	200% (2 x 100 men)



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