



GPMC 4500 (Low Cost) LIFTBOAT

Technical Specification sheet

General Application

GPMC 4500 LC LIFTBOAT is a multipurpose four tubular-type legged unit, good for restricted operations up to 45m water depths. This is self-elevating, self-propelled and self-positioned platform which can operate without tug assistance. The unit can perform services as JU accommodation unit in laying subsea installations, in support of well-intervention services, commissioning works etc. 4 legs and fixed-type jacking system makes the unit Passive Preload Unit, thus saving lots of preload time by diagonal preload.

Main Particulars

Hull

Hull length(PP)	44.97 m
Hull length(OA)	48.77m
Hull Breadth	28.00m
Leg centre Distance	
- P/S legs	22.00m
- Aft and fwd leg	26.00m
Hull Depth	4.80m
Hull Draft	3.25m

Jacking system

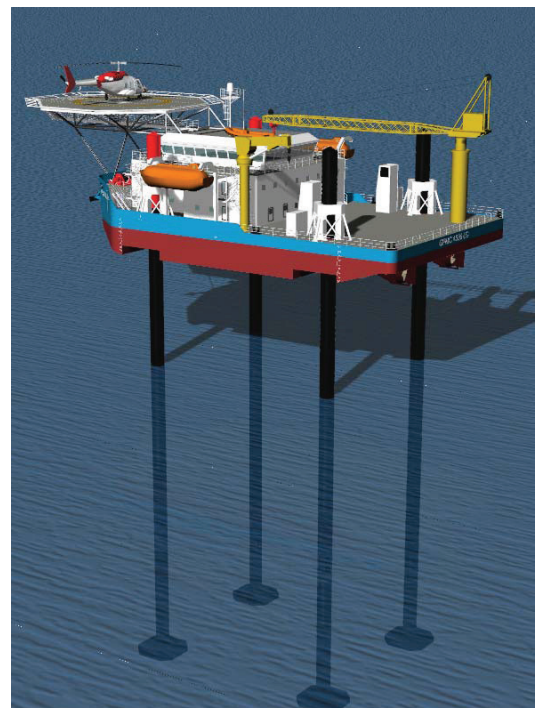
Number	4 x 8 = 32 pinions
Type	Rack and Pinion, Fixed type (SOE or equivalent)
Normal Jacking	90 MT/pinion
Preload Holding	160 MT/ pinion
Holding Capacity	200 MT/pinion

Legs

Number	4 legs
Type	Tubular type
Size	Chord 1.8m dia, thick 32-50mm varies, 100ksi, internally stiffened. 4" rack 100ksi
Overall length	70 m (approx 230ft) for 45m water depth
Footing Area	4x31.7 m ²

Accommodation

Fully air conditioned permanent accommodation for 100 men in and 4 x 1-men, 6 x 2-men and 21 x 4-men cabins.



Elevated view impression

Storage Capacities

Fuel Oil	260 t
Fresh water	175 t
Ballast water	600 t
Endurance	30 days

Deck Area /storage

Clear Deck area	364 m ²
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Power Plant

Main Generators	2xCAT C32 ACERT 746 bKW @ 1800 rpm
Emergency Generators	1x280 kW CAT C-9

Propulsion System

Main Propulsion	4-blade propeller in fixed nozzle with rudder
Bow Thrusters	2x 500 kW tunnel thrusters

Life Saving and Fire Safety

Lifeboats	2x100-men
Life rafts	4x25-men

Design Criteria

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

(a) Elevation Conditions

Design criteria

Max Water Depth	45m
Max Air gap	6m-7m
Wave Height	6m
Surface Current	1 knots
Wind speed	58 knots
Leg Penetration	3m
Variable Load	400 MT

(b) Transit Conditions

Transit speed	5 knots in calm weather
Afloat Variable Load	400 MT

Survival Condition

Classification

ABS:  1A1 SELF ELEVATING UNIT

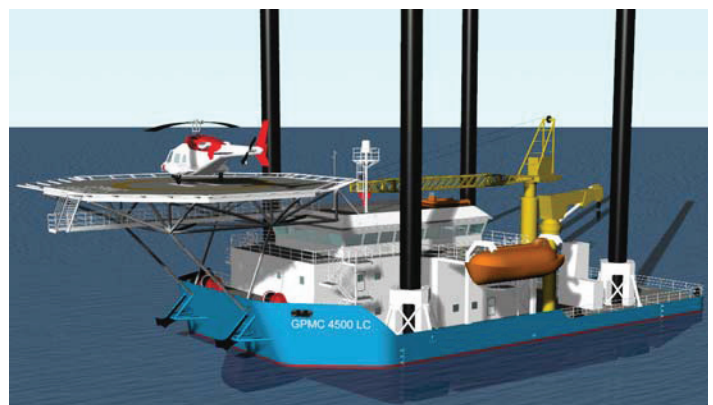
Compliance with ABS MODU 2013 and
IMO MODU 2009

Cranes

Main Crane	Max 50MT at 18m Boom EBI L200-100 or equiv.
Auxiliary Crane	Max 25MT at 65 ft Boom EBI TC60-56-100 or equiv
Utility Crane	Max 5MT and 18m boom

Helideck

Max Helicopter	S61 N, S 92 or equivalent
Pancake	Aluminum
Size (Dia)	22.2 m
MTOW	9.80 MT



Afloat view impression

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