POSEIDON JACKUP

AN MES COMPANY

MES-C7 | SELF-ELEVATING PLATFORM

Versatile and Heavy-Duty Platform

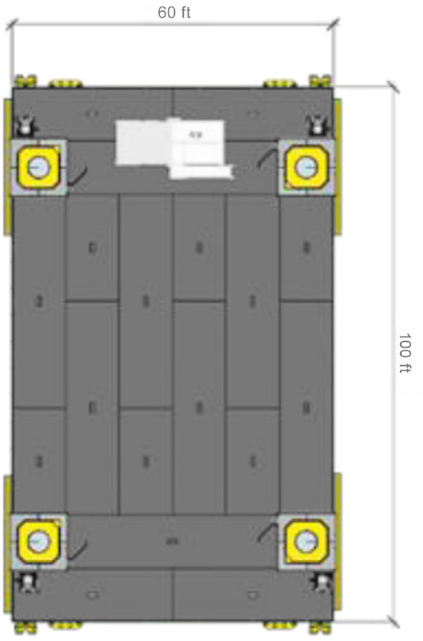
The modular MES-C7 Self-Elevating Platform is the ideal jackup platform for port and nearshore marine works. The design provides maximum uptime for construction and maintenance of terminals, jetties, ports, breakwaters, bridges, land-to-marine outfalls of cable or pipelines, and offshore facilities.

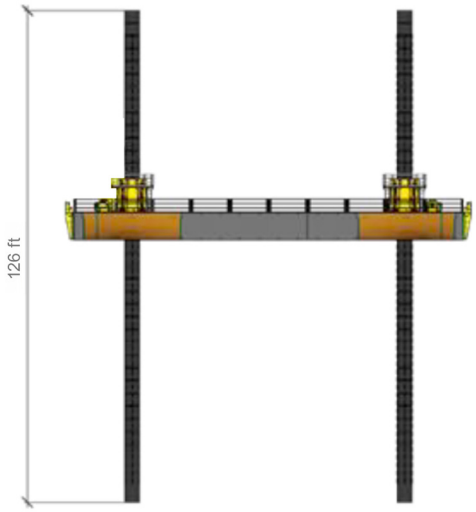
Offering a 440 US ton variable deck load capacity and an unparalleled 3,070 lb/ft^2 deck strength, the MES-C7 is the platform of choice for heavy duty marine construction works. It provides a large 5,600 ft^2 free deck space. Without obstructions on deck, the deck layout can be fully tailored to client's mission equipment and operating method. Depending on soil penetration and waves, the platform can operate in water depths up to 100 ft, with increases possible in moderate environment.

Safe and efficient lifting, lowering and (re)positioning of the platform is enabled through the central or local controlled jacking system and 4-point mooring system. Redundancy is provided by two independent hydraulic pump sets and manual control of crucial platform functions.

Maximizing Workability

With highly qualified and specialized in-house engineers, Poseidon Jackup offers various engineering services to guide and support clients on operational and environmental matters when using the platform. Poseidon Jackup engineers are available in all stages of your project, from tendering, project preparation, and throughout the entire execution phase.





GENERAL	
Type	MES-C7 Modular Self-Elevating Platform
Class (Optional)	RINA
DIMENSIONS	
Length	100 ft
Breadth	60 ft
Depth	7 ft
Free Deck Area	5,600 ft^2
LOADS	
Variable Deck Load	440 US Tons (Short Tons)
Deck Strength	3,070 lb/ft^2
JACKING SYSTEM	
Jacking Type	Hydraulic, Mechanical Engaged
Jacking Speed	39.4 ft per hr (Approx. 8 inches per minute)
Jacking Stroke	4 ft
Jacking Capacity	330 US Ton per Leg
Power	2x 122 HP Hydraulic Pump Sets
SPUD LEGS	
Leg Length	126 ft extendable
Free Length Below Hull	105 ft
Leg Diameter	48”
OPERATIONAL CONDITIONS	
Maximum Wave Height $_{Hmax}$	10 ft*
Wind Speed Max	30 MPH
Current	2 Knots
SURVIVAL CONDITIONS	
Maxium Wave Height	16 ft*
Wind Speed	75 MPH
Current	2 Knots

** Indicated values will vary pending actual site and payload conditions.*

Configuration

The platform consists of a number of standardized floating modules coupled together through a male / female connection system. The platform is supported by four spud legs in heavy duty spud wells. The hydraulic power unit with control cabin on top is located on the platform, with actual location on the platform being flexible.

Modular Design

All platform components are sized to be easily transportable by road, rail or sea. Due to the modular design, overall dimensions and spud legs length can be adapted to customer needs.

Jacking System

The jacking mechanism consists of two hydraulically operated crossheads per spud well, to lock and unlock the spud for vertical movement. Vertical movement is accomplished by four hydraulic heavy duty cylinders with a stroke of 4 ft, working on an operating pressure up to 3,625 PSI.

The four spud wells are powered by a hydraulic power pack for simultaneously lifting and lowering the spud legs through its seating. The powerpack is built in a 20 ft container approved for the offshore environment.

The powerpack consist of two electric driven hydraulic pumps that need to be powered by shore power or separate generator on deck. The double execution also guarantees redundancy in case of emergency. The system is operated from a central control system with complete remote PLC control of the jacking operation. For safety reasons and as back-up, full manual and local control at the spud wells is also possible.

Potential Options Include

- Spud Cans
- 4-Point Mooring System
- Leg Extensions
- Boat Landing
- Spud Leg Jetting System
- IACS Classification

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