C-9.5 SELF ELEVATING PLATFORM

The C9.5 Self Elevating Platform, currently the biggest of the Combifloat self elevating platforms, is the perfect partner for heavy duty jetty- and breakwater construction works, near shore oil & gas drilling and as accommodation platform. The C-9.5 Platform can take deck loads up to 1000 mT, offers a large deck area of more than 950 square meters and with her spudlegs of 58m can work in water depths up to 45m, subject to environmental conditions. The platform has a Central Control System allowing the platform to be lifted and lowered synchronously and is delivered with IACS class notation.
C-9.5 SELF ELEVATING PLATFORM

General
Type:
C-9.5 Modular Self Elevating Platform

Class:
Bureau Veritas / DNV – GL

Main dimensions
Length: 36.6 m
Breadth: 27.4 m
Depth: 2.91 m
Draft maximum: 2.17 m (@ 800 mT deckload)
Free deck area: 910 m²

Loads
Variable load: 1000 mT
Deck strength: 15 mT / m²

Jacking system
Leg length: 58 m, extension possible
Leg diameter: 75"
Type: Hydraulic, mechanically engaged
Jacking speed: 14 m / hr
Hydraulic jacking capacity: 600 mT / leg

Mooring System
Winches: 4 x 23T pull hydraulic winches

Installation conditions
Maximum wave height Hₘₐₓ for leg touching (depending on soil conditions): 1.9 m

Operational conditions
Water depth: 40.0 m
Maximum wave height: 6.0 m
Wind speed: 50.0 km / hr
Air gap to still water line: 8.0 m

Survival conditions
Water depth: 40.0 m
Maximum wave height: 8.0 m
Wind speed: 120.0 km / hr
Air gap to still water line: 8.0 m
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General
The platform is supported by four 75” diameter spud legs, each one individually operated by four synchronized hydraulic cylinders mounted in heavy duty spudwells. Specific capacity of each spudwell is 600 Ton. Spuds are delivered including two spud joints, separating the spud in three parts for ease of transportation. The platform consists of a number of standardized floating modules coupled together through a male pin / female connection system. Modules are sized to be easily transportable by road, train or ship. Specific deck point load of each module is 15 T/m². Due to its modular design, overall dimensions can be adapted to customer needs.

Jacking System
The jacking mechanism consists of two hydraulically operated crossheads per spudwell, to lock and unlock the spud from vertical movement. Vertical movement is accomplished by four (4) hydraulic heavy duty cylinders with a stroke 1,2m working on an operating pressure of 140 bar.

The four spudwells are powered by a containerized hydraulic power pack, for simultaneously lifting and lowering the spud legs through its seating. The power packs are silenced, with two 244 kW radiator cooled diesel engine driving a flywheel mounted tandem pump.

A Central Control System built in a Central deck house operates the hydraulic control valves for synchronous lifting, with spare hydraulic connectors for either emergency use or for further use of hydraulic powered deck equipment, like winches / cranes etc.

Deck Equipment
A safety railing is provided around the platform with sufficient access for operating the spudwells and space for working the mooring ropes.

Four (4) hydraulic operated winches built on removable foundation with following specifications:

Pulling force each one : 23 Tons on first layer
Holding force : 26 Tons
Pulling speed : 9 meter/min
Drum capacity : 264 meter Ø 32mm in 4 layers

Fairleads and deck sheaves for cable guidance are provided on deck.

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