



# COMBIFLOAT C-7

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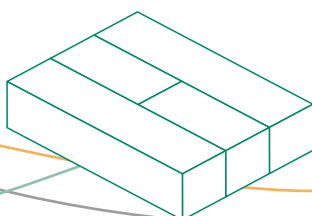
## SELF ELEVATING PLATFORM



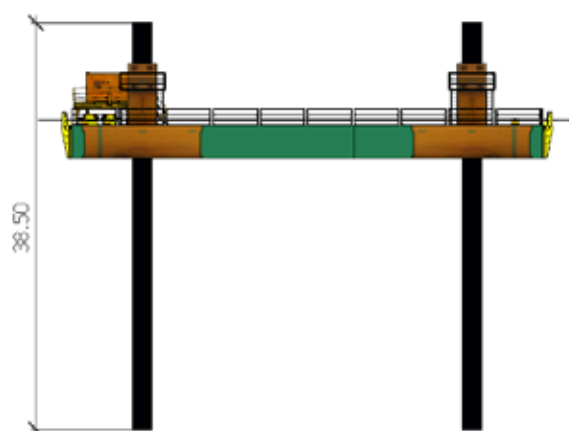
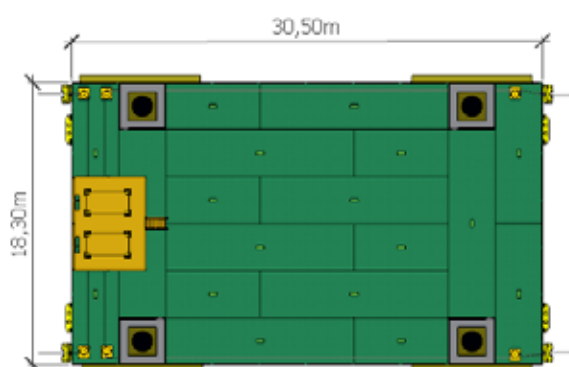
### SELF ELEVATING PLATFORM

The C-7 Self-Elevating Platform is mainly active in near shore marine construction works such as new-build or maintenance works on jetties, breakwaters and piling activities. The C-7 Platform can take deck loads up to 400 mT and has maximum spud length of 38.5m allowing the platform to work in deep water ports and coastal waters with water depths up to around 28m.

The C-7 Platform can be delivered with IACS class notation and in varying configurations to perfectly suit each specific job requirement. Additional deck equipment as winches, bollards, fairleads and piling gates can be easily installed with the standard Combifloat coupling systems. Optionally the platform can be outfitted with a central control system allowing the platform to be lifted and lowered synchronously.



# C-7 SELF ELEVATING PLATFORM



## General

Type C-7 Modular Self-Elevating Platform

Class Optional Bureau Veritas/DNV – GL

## Main dimensions

Length 30.50 m (or 24.40 m)

Breadth 18.30 m

Depth 2.13 m

Free deck area 500 m<sup>2</sup> (or 390 m<sup>2</sup>)

## Loads

Variable load (elevated) 400 mT subject free spud length, horizontal load and environmental conditions

Deck strength 15mT/m<sup>2</sup>

## Jacking system

Leg length 38.5 m extension possible

Free length below hull 32.0 m

Leg diameter 48"

Spudcan diameter 3.0 m (optional)

Jacking type Hydraulic, mechanical engaged

Jacking speed 8 m/hr

Jacking capacity 300 mT/leg

## Mooring System

Winches 4 x 15 mT pull hydraulic (optional)

## Installation conditions

Maximum wave height  $H_{max}$  for leg touching (depending on soil conditions) 0.5 - 1,0 m \*

## Operational conditions

Maximum wave height  $H_{max}$  2.0 m - 3.0 m \*

Wind speed 50.0 km/hr

Current 1 m/s

## Survival conditions

Maximum wave height  $H_{max}$  3.0 m - 4.0 m \*

Wind speed 120.0 km/hr

Current 1 m/s

\* Indicated values are conservative and may vary pending actual site conditions. We will be pleased to check feasibility and suitability for your specific project conditions.

## C-7 SELF ELEVATING PLATFORM



### General

The platform is supported by four (4) 48" diameter spud legs, each one individually operated by four synchronized hydraulic cylinders mounted in heavy duty spudwells. Specific capacity of each spudwell is 300 mT. Spuds can be delivered including a spudjoint, separating the spud in two 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 mT/m<sup>2</sup>. Due to its modular design, overall dimensions can be adapted to customer needs.



### Jacking System

The jacking mechanism consists of two manually 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 0,61m working on an operating pressure of 140 bar.

The four (4) spudwells are powered by a total of two (2) hydraulic power packs for simultaneously lifting and lowering the spud legs through its seating. In case of failure of one powerpack, the complete platform can still be operated by the other powerpack.

The power packs are silenced, with a 104 kW radiator cooled diesel engine driving a variable displacement piston pump. Manually controlled valves are provided, easily accessible, with spare hydraulic connectors for either emergency use or for further use of hydraulic powered deck equipment, like winches/cranes etc. Optionally a boat landing can be provided which can be easily installed on the side of the platform, to allow safe access for crew working on board the platform.



### 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	: 15 mT on first layer
Holding force	: 17 mT
Pulling speed	: 9 m/min
Drum capacity	: 150 meter Ø 26mm in 4 layers

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

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