



COMBIFLOAT C-7

self-elevating platform

VERSATILE AND HEAVY-DUTY PLATFORM

The modular C-7 Self-Elevating Platform is the ideal jack-up platform for port and nearshore marine works. The design provides maximum uptime for construction and maintenance of terminals, jetties, ports, breakwaters, bridges, land- and outfalls of cables or pipelines and offshore facilities.

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With a variable deck load capacity of 400 mt and an unparalleled 20 mt/m² deck strengths, the C-7 is 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 of up to approximately 26 meter, possible more in a 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.

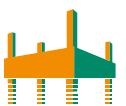
Maximizing Workability

With highly qualified and specialized in-house engineers, Combifloat offers various engineering services to guide and support clients on operational and environmental matters when using the platform.

Combifloat engineers are available in all stages of your project, during tendering and project preparation as well as throughout the entire execution phase.

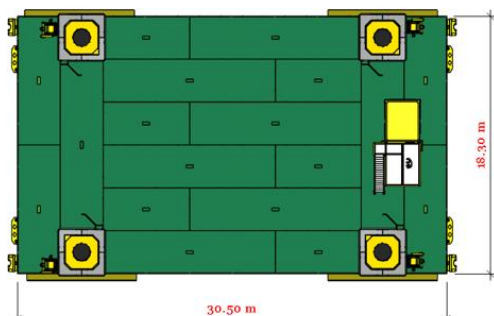
Combifloat Systems B.V. - QHSE Standards

ISO9001, ISO 14001, ISO 45001



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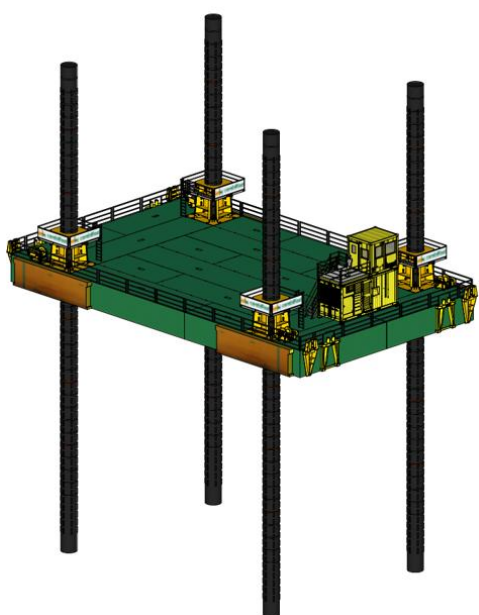
General

Type
Class (optional)

C-7 Modular Self-Elevating Platform
Bureau Veritas or Rina

Dimensions

Length 30.50 m
Width 18.30 m
Height 2.13 m
Free deck area 520 m²
Draft 1.00 – 1.60 m (depending on deck load)



Loads

Variable deck load 400 mt
Deck strength 20 mt/m²

Jacking system

Jacking type Hydraulic, mechanical engaged
Jacking speed 12 m/hr full cycle, complete platform
Jacking stroke 1.22 m
Jacking capacity 300 mt/leg
Power 2x 120 kW diesel-hydraulic power unit
Power option 2x 90 kW electrohydraulic power unit

Spud legs

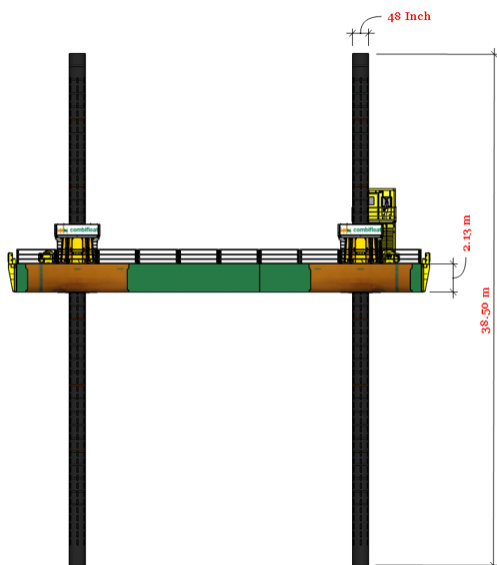
Leg length 38.50 m extendable
Free length below hull 32.00 m
Leg diameter 1.22 m

Operational conditions

Max. wave height H_{max} 3 m*
Wind speed max 50 km/hr
Current 1 m/s

Survival conditions

Max. wave height H_{max} 5 m*
Wind speed 120 km/hr
Current 1 - 2 m/s



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



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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, the actual location on the platform is 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. The coupling mechanism is unique in the marine market because it is exceptionally strong, safe and with no loose parts. It furthermore let workers connect the floats from outside and above deck and avoids dangerous confined spaces.



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 1.22 meter, working on an operating pressure up to 250 bar.

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

The powerpack drives two hydraulic axial piston pumps. 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.

Optional

- | | | |
|---------------------|-----------------------|--------------------------|
| • Spud cans | • Accommodation | • 4-point Mooring system |
| • Mission Equipment | • Leg extensions | • Jetting system |
| • Boat landing | • IACS classification | • Propulsion |

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