



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.

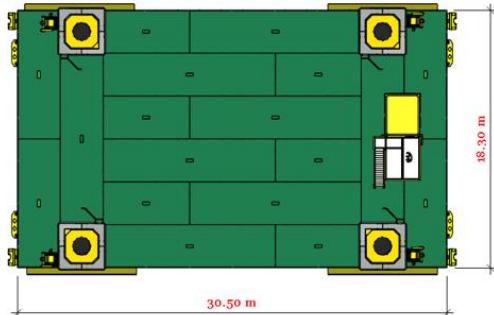
Combifloat Systems B.V. - QHSE Standards

ISO9001, ISO 14001, ISO 45001



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General

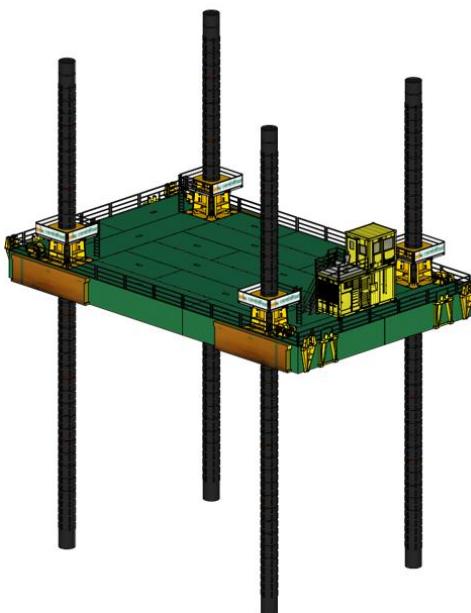
Type
Class (optional)

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

Dimensions

Length
Breadth
Depth
Free deck area

30.50 m
18.30 m
2.13 m
520 m²



Loads

Variable deck load
Deck strength

400 mt
20 mt/m²

Jacking system

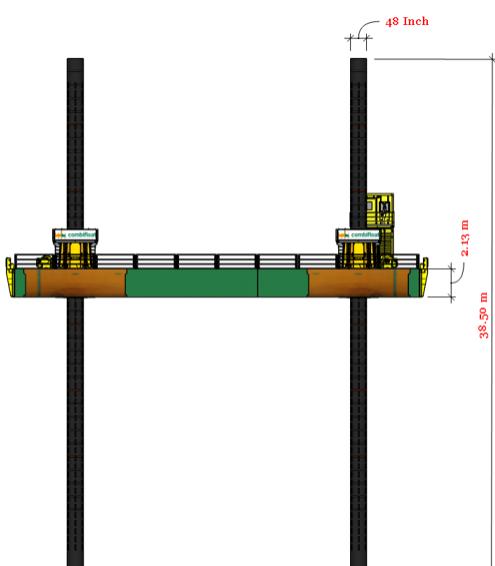
Jacking type
Jacking speed
Jacking stroke
Jacking capacity
Power
Power option

Hydraulic, mechanical engaged
12 m/hr full cycle, complete platform
1.22 m
300 mt/leg
2x 120 kW diesel-hydraulic power unit
2x 90 kW electrohydraulic power unit

Spud legs

Leg length
Free length below hull
Leg diameter

38.50 m extendable
32.00 m
1.22 m



Operational conditions

Max. wave height H_{max}
Wind speed max
Current

3 m*
50 km/hr
1 m/s

Survival conditions

Max. wave height H_{max}
Wind speed
Current

5 m*
120 km/hr
1 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.

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

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