combifloat

# 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 tons and an unparalled 15 ton/$m^2$ deck strengths, the C7 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 cover water depths up to 30 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.

### HSE Standards

ISO9001:15001, ISO 14001:2015, ISO 45001-2018

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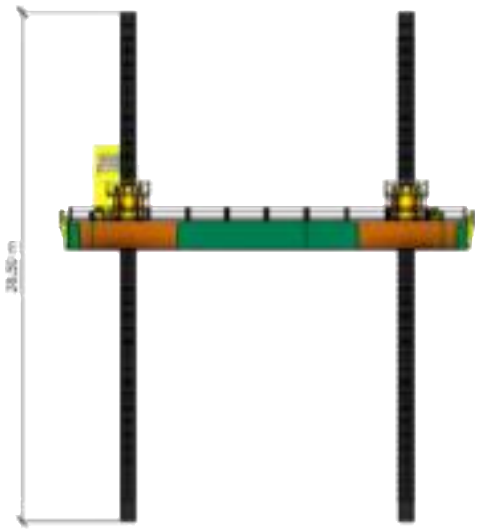

## General

| | |
|---|---|
| Type | C-7 Modular Self-Elevating Platform |
| Class (optional) | Bureau Veritas or DNV -GL |

## Dimensions

| | |
|---|---|
| Length | 30.50 m |
| Breadth | 18.30 m |
| Depth | 2.13 m |
| Free deck area | 520 $m^2$ |

## Loads

| | |
|---|---|
| Variable deck load | 400 mT |
| Deck strength | 15 $mT/m^2$ |

## 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 90kW electro - hydraulic |

## 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 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 is driven by two 90kW electrical motors powering 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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