

SKYLIFT MARINE

SKYLIFT-16000 – SELF ELEVATING SUBMERSIBLE PLATFORM

Skylift-16000 designed for bringing heavy structures, such as concrete tunnels, windmill foundation ships, etc., from quay into the water and vice versa. 2 SkyJacks can be used for the removal of Oil Rigs.

The platform is built out of a mono hull pontoon, 4 Jacking Systems and 4 Spudlegs.

The 4 jacking systems are manufactured with a heavy duty pinning system. Operation of this fast and heavy duty system, lifting and lowering / locking and un-locking, is done completely hydraulically from a control panel located in the control cabin.

Specification

- Length pontoon : 120.00 meter
- Width pontoon : 44.00 meter
- Height pontoon : 6.75 meter
- Deck load : 12.00 T/m²

Capacity

- Water height above deck submerged : 15.00 meter
- Width between Jackhouses short side : 29.00 meter
- Width between Jackhouses long side : 80.00 meter

Specification Spud Legs

- Length : 70.00 meter (optional 80.00 meter)
- Diameter : 3.00 meter

Specification Jacking System

- Type : Hydraulic cylinders
- Locking : By means of hydraulic activated pins
- Jacking Capacity (4x) : 4 x 6,000 T = 24,000 T total
- Jacking speed : 30.00 m/hr continue mode

Controls:

- System : Touch Screen or Joystick
- PLC : PLC operated
- Location : In control cabin

Hydraulic Power Unit

- Type : 4x Electrical-Hydraulic Pump sets
- Capacity HPU : 4x 300 kW



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Generator

- Type : 2 No Caterpillar diesel generator sets or equivalent
- Capacity : 2 x 1250 kVA
- Location : On top of control cabin

Environmental conditions

Temperature:

- Maximum design air temperature : +40°C
- Minimum design air temperature : -5°C

Water depth:

- Maximum pile length below barge : 28.00m

Wave:

- Max. wave height (operational condition) : 2.00 m jacking out of the water
- Max. wave height (survival condition) : 7.00m (crest to trough)
- Wave period : 5 seconds
- Wave crest above water line = 2/3wh : 4.67m
- Wave trough below water line = 1/3wh : 2.33m
- Air gap to bottom of pontoon : 1.50m

Wind:

- Operational max. wind velocity : 14 m/s (approx. 6 Beaufort)
- Survival max. wind velocity : 30 m/s (approx. 11 Beaufort)

Current:

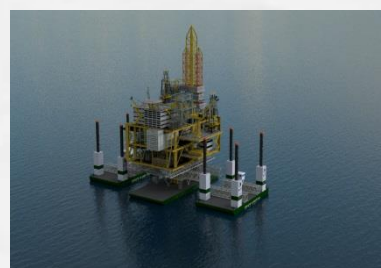
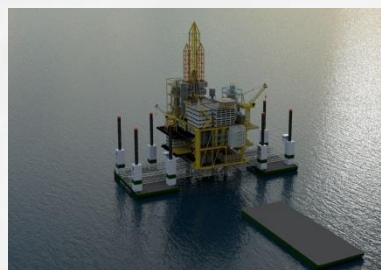
- Current velocity : 2 m/s

Towing Conditions:

- Unloaded : Unrestricted

Classification:

- Lloyds Register EMEA : LRoS  OU 100AN, Self Elevating Unit; Unmanned Towing, Restricted Service Area 20 NM Offshore,  OMC



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