

# SKYLIFT MARINE

## SKYLIFT-5000 – SUBMERSIBLE MULTIPURPOSE JACKUP

Skylift-5000 designed for bringing heavy structures, such as concrete tunnels, windmill foundation ships, etc., from quay into the water and vice versa.

The platform is built out of a mono hull pontoon, 4 Jacking Systems and 4 Connectable 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 : 100.00 meter
- Width pontoon : 33.00 meter
- Height pontoon : 5.00 meter
- Deck load : 12.00 T/m<sup>2</sup>

### Capacity

- Payload : 5.000 T
- Water height above deck submerged : 10.00 meter
- Width between Jackhouses short side : 20.00 meter
- Width between Jackhouses long side : 64.97 meter

### Specification Spud Legs

- Length : 60.00 meter
- Diameter : 2.50 meter

### Specification Jacking System

- Type : Hydraulic cylinders
- Locking : By means of hydraulic activated locking blocks
- Jacking Capacity (4x) : 4x 2,500T = 10,000T
- Jacking speed : Platform up : 10.00m/hr  
: Platform down : 10.00m/hr  
: Legs down : 20.00m/hr

### 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 250 kW



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### Generator

- Capacity : 2 x 1,000 kVA
- Location : In engine rooms inside control cabin

### Environmental conditions

#### Temperature:

- Maximum design air temperature : +40°C
- Minimum design air temperature : -20°C

#### Water depth:

- Maximum pile length below barge : 40.00m

#### Wave:

- Max. wave height (operational condition) : 2.00m (crest to trough)
- Max. wave height (survival condition) : 7.00m (crest to trough)
- Operational Jacking condition : Sea State 3
- Operational Standing condition : Sea State 5
- Operational Survival condition : Sea State 7

#### Wind:

- Operational max. wind velocity : 13 m/s (approx. 6 Beaufort)
- Survival max. wind velocity : 30 m/s (approx. 11 Beaufort)

#### Current:

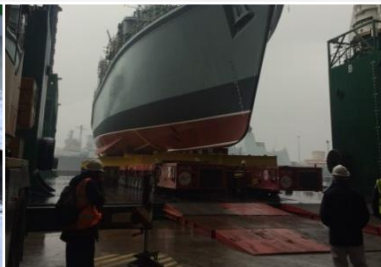
- Current velocity : 1.8 m/s

#### Towing Conditions:

- Unloaded : Unrestricted

#### Classification:

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



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