

# Lifting Offshore Wind



# Jack-up Vessel Jill

## Classification and Rules

Vessel type: Self-elevating unit  
Class: ABS - Classed A1 SEU, Wind IMR, SOLAS, DPS 2 ACCU,  
Helideck USCG & CAP 437  
Delivery: 2014  
Yard: Gulf Island Marine Fabricators, Houma, Louisiana  
Flag: United States of America

## Principal Dimensions

Hull length o.a. [m]: 56  
Hull breadth mid [m]: 41  
Hull depth [m]: 4,5 (barge only)  
Min draft (light) [m]: 3 (design draft)

## Cargo Capacity

Max variable load [t/m<sup>2</sup>]: 4,1  
Deck area [m<sup>2</sup>]: 1092 (19mm pl.) - 1431 (total)  
Uniform deck loading [t/m<sup>2</sup>]: 5 - 10  
Total variable load: 680t\*

## Propulsion, Manoeuvring and Positioning

Aft propulsion: 2x1813,74 kW TECO motors with steerprop  
SP25D thruster unit  
Fwd manoeuvring: 2x400 kW Berg TFFT-211 Tunnel thrusters  
Max speed (knots): 6  
Positioning: Kongsberg DP2

## Operational Limitations

All year survival water depth range<sup>1</sup>: 6,1 - 22,9m  
Operation water depth range<sup>1</sup>: 5,5-85,3m  
Transit fully loaded: up to wave 1,8m Hs  
Jacking: up to wave 1,8m Hs

## Main Crane

Type and location: Port Bow, 10,5 off CL  
Long mode: 250t at 17m outreach,  
Auxiliary hook: 45t at 17,68m  
Mean wind limit (m/s): 9,26

## Deck Cranes

1 crane of type 54,4t SWL, 35m max radius  
1 crane of type 22,7t SWL, 21m max radius  
1 crane of type 9,1t SWL, 15,24m max radius  
All cranes certified for man riding

## Power generation

Two CAT 3516c 2350kW  
Two CAT C32 1000kW  
Harbour (emergency) generator. CAT C6.6, 158kW  
Output range: 60 Hz, 230-690V

## Jacking System

Type: Hydraquip Rack & Pinon Electro. Hydraulic  
Effective jacking capacity per leg (t): 1770t  
Holding capacity per leg [t]: 2082t  
Jack-up lifting / lowering speed [m/min]: 1,23m/min  
Leg handling speed [m/min]: 1,83 m/min

## Legs and Spudcans

Number & type: 3 Cylindrical  
Diameter [m]: 2,9  
Length [m]: 102  
Max leg length below ship baseline [m]: 70,5  
Spudcan area [m<sup>2</sup>]: 124,67 m<sup>2</sup> (13,7m x 9,1m)

## Safety Systems

Fire and safety systems: Compliant with IMO MODU Code  
and SOLAS  
Fire detection: Shipwide integrated system  
Fire extinguishing: Fire ring main, CO<sub>2</sub> engine room, Novec  
electronics room  
Life saving: 2 x 80 man SOLAS lifeboats, 10 x 50 man liferafts  
MOB: high speed rescue boat + CrewFinder system

## Access

Helicopter deck 12,6t D-value 22 CAP 437  
Man-riding cranes

## Accommodation and Facilities

Cabin space available for client personnel:  
80 persons in total  
Cabins equipped with en suite bathroom, SAT TV/video  
Client offices and workshop, fitness room, laundry, TV room,  
hospital etc.  
2 x 45,000 l/day watermakers

## Fuel consumption

Transit speed of 6 knots [m<sup>3</sup>/24h]: 12,1 +/- 1,5  
DP Operations [m<sup>3</sup>/24h]: 9,5 +/- 1,5  
Elevated, standby [m<sup>3</sup>/24h]: 3,4 +/- 0,5  
Elevated, crane work [m<sup>3</sup>/24h]: 6,8 +/- 1,5

<sup>1</sup> Depending on site conditions.

\* Additional load possible via site-specific study

The information included in this brochure is intended for general information only. All figures believed to be correct at time of printing.