

# HEA Hercules



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A robust self-propelled Jack up Barge tailored for offshore wind turbine installation and O&M / Major Component Exchanges. The unit features a 925ton main crane with 110m boom, four 95-meter legs, and can operate in water depths up to 60 meters, servicing WTGs typically up to 10mw. With its large lifting capacity and expansive deck, HEA HERCULES is well-suited to complex offshore projects.

## General Information

<b>Type:</b>	Self-elevating WTIV
<b>Design:</b>	MARIC
<b>Built:</b>	2017
<b>Builder:</b>	Xiamen Shipbuilding Industry (China)
<b>Class &amp; Notations:</b>	ABS A1, Self-elevating Unit, HELIDK, Accommodation Service, $\nabla$ AMS, CRC(I), $\text{C}^*$ , DPS-2, WIND IMR.
<b>Flag:</b>	Panama
<b>IMO:</b>	9803168

## Principle Dimensions

<b>Length overall LOA:</b>	127.1m
<b>Hull length:</b>	99m
<b>Hull breadth:</b>	40.8m
<b>Total beam (BOA):</b>	70.5m
<b>Hull depth:</b>	7.8m
<b>Draft:</b>	4.5m
<b>Variable load:</b>	2800t
<b>Load capacity:</b>	12t/m2
<b>Main deck area:</b>	2500 m2

## Helideck

<b>Type/ Diameter:</b>	Aluminium / 22.2m
<b>Capacity:</b>	12.6 Tons
<b>Helicopter type:</b>	Sikorsky S61N-S92N / CAP 437

## Legs and Spud cans

<b>Number/Type:</b>	4 / Cylindrical
<b>Leg length / Diameter:</b>	95m / 4m
<b>Spud can type:</b>	Square
<b>Spud can dimension:</b>	13m x 10.4m x 2.3m
<b>Spud can bearing area:</b>	124.8 m2
<b>Spud can bearing pressure:</b>	45 t/m2

## Jacking System

<b>Type:</b>	Hydraulic Pin & hole
<b>Maker:</b>	GENMA
<b>Elevating speed:</b>	0.4m/min
<b>Normal jacking:</b>	4000 t/leg
<b>Holding capacity:</b>	0 t/leg
<b>Storm holding:</b>	6000 t/leg

## Generators and Machinery

<b>Main generator:</b>	4 x MTU 16V4000M33F, 1600kW
<b>Emergency generator:</b>	1 x Cummins NTA855-D(M), 200 kW
<b>Harbour generator:</b>	1 x MTU 16V2000M51A, 600kW
<b>Water maker:</b>	2 x 10m3/day
<b>STP:</b>	120 POB

## Propulsion

<b>AFT thrusters:</b>	2 x 1800 kW Azimuth FPP
<b>FWD thrusters:</b>	2 x 900 kW Bow CPP
<b>Retractable thrusters:</b>	2 x 1490 kW TLAT2000DM
<b>Service speed:</b>	6 knots

## Cranes

### Main crane

<b>Maker/ Model:</b>	Gusto MSC GLC-1000-ED-S
<b>Type:</b>	Electric leg encircling offshore crane
<b>Boom length:</b>	110m
<b>Capacities:</b>	925t @ 20.1-24m - 50t @ 100m Aux - 500t @ 25-49m, 46t @ 110m
<b>Hooks above main deck:</b>	Main hook: 119.95m Aux hook: 129.1m

### Auxiliary crane

<b>Model:</b>	YQ5/16 Telescopic crane
<b>Capacity:</b>	5t @ 16m

## Deck Equipment

### Gangway and Tower access

<b>Maker:</b>	TSC Offshore
<b>Drive:</b>	Electric-hydraulic
<b>Gangway radius:</b>	23.2m-36m (from hull)
<b>Tower lowering height:</b>	15.4m
<b>Luffing angle:</b>	+/- 20°

## Safety Systems

<b>Lifeboats:</b>	2 x 80 POB
<b>Life rafts:</b>	4 x 20 Men
<b>MOB/Fast rescue craft:</b>	1 x 8 POB

## Tank Capacity

<b>Fuel oil:</b>	880 m3
<b>Fresh water:</b>	250 m3
<b>Ballast water:</b>	7000 m3
<b>Endurance:</b>	60 Days

## Operation Conditions

Criteria	Wind	Hs	Current
<b>Field transit:</b>	20.0 m/s	≤4m	-
<b>DP:</b>	13.8 m/s	1.5m	1.03 m/s
<b>Jacking:</b>	10.8 m/s	2.5m	1.03 m/s
<b>Water depth:</b>	60m		

## Control Systems

<b>DP System:</b>	Kongsberg K-POS 21
Navigation and communication systems, according to IMO requirements.	

## Accommodation and Facilities

Configuration:	Current
<b>1 Man cabins:</b>	8 Cabins
<b>2 Men cabins:</b>	36 Cabins
<b>Total POB:</b>	80 POB

### Facilities

Galley, mess room, client offices, meeting room, recreation rooms, gymnasium, changing rooms, coffee rooms, sick bay, Helli reception/ departure facilities, laundry, stores, workshops, Starlink VSAT and DP-PRS