

HEA Hercules



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A robust self-elevating unit tailored for offshore wind turbine installation and heavy marine construction. Built for stability and high-load operations, the unit features a 1000-ton main crane, four 94-meter legs, and is capable of operating in water depths up to 50 meters. The vessel offers approximately 2500 m² of usable deck space, while accommodating up to 80 personnel. With its large lifting capacity and efficient layout, HEA Hercules is well-suited for complex offshore projects.

CLASSIFICATION AND RULES

Type:	Self Elevating WTIV
Built:	2017 (Major modification on 2025)
Yard:	Xiamen Shipbuilding Industry, China
Class:	ABS A1, Self-elevating Unit, Accommodation Service, HELIDK, (E)*, AMS, CRC(I), DPS-2, WIND IMR.
Flag:	Panama
IMO:	9803168

MAIN DIMENSIONS

Length (overall):	127.1m
W.L Length	99m
Width overall:	40.8m
Hull depth:	7.8m
Draft:	4.5m
GRT/NRT:	11671/3501 T
Variable Load:	2800t (elevated)
load capacity:	12t/m ²
Main deck area:	2500 m ²

Helideck (Aluminium)

Diameter/Strength:	22.2 dia., 12.6 Tons
Helicopter Type:	Sikorsky S61N-S92N

Legs and Spudcans

Number/Type:	4/cylindrical
Leg length:	4 x 94m (Dia. 4m)
Spud can Area:	30 m ²
Spud can LxBxH:	13m x 10.4m x 2.3m
Leg below hull	74.3m
Water Depth:	50m
Jetting Pump:	120m ³ /h x 5MPa

Jacking System

Type:	Pin & hole (GENMA)
Drive:	Hydraulic-Electric
Elevating speed:	0.4m/min
Bearing Pressure:	45 t/m ²
Normal Jacking:	4000 t/leg
Holding Capacity:	5520 t/leg
Storm Holding:	6000 t/leg
Pulling Capacity:	3600 t/leg

Generator

Main Diesel Gen:	4 x MTU 16V4000M33F, 1600kW, 1500 rpm
Harbour Gen:	1 x MTU 16V2000M51A, 600kW
Emergency Gen:	1 x Cummins NTA855-D(M), 200kw

Tank Capacity

Fuel Oil:	880 m ³
Fresh Water:	250 m ³
Ballast:	7000 m ³

CRANES

Main crane	GustoMSC Electric leg circling
Boom Length:	110m
Capacities:	925t @20.1-24m - 50t @100m Aux - 400t @25-49m, 46t @ 110m
Service Crane:	5 tons @ 16m

SAFETY SYSTEMS

Fire and gas detectors throughout the whole vessel in full compliance with MODU requirements.

2 x 80 POB Lifeboats
4 x 20 men, Life rafts
1 x 8 MOB/Fast Rescue Craft.

PROPULSION UNITS

Thrusters:	2 x 1800kW Azimuth FPP 2 x 900kW Bow CPP
Retractable thrusters:	2 x 1490 kW TLAT2000DM
Speed:	6 knots

Machinery

Water Maker:	2 units x 10m ³ /day
Sewage treatment:	120 P/Day (Tank: 124m ³)
Anchor Winches:	1 x 400kN (Max 600kN) Holding load 3940 kN, Speed ≥12m/min, 600m rope Ø86mm.
Hose Reel Winches:	2 x 40KN

Control Systems

Dynamic Positioning Control System (DPCS-2).
Kongsberg K-POS (DP-2)

Navigation and communication systems, according to IMO and DSI requirements.

ACCOMMODATION AND FACILITIES

Standard accommodation:

80 POB
8 x 1 men berth
36 x 2 men berth

Cabins equipped with en-suite shower/toilet, telephone, TV/DVD and network connections.

Facilities

Galley, mess room, client offices, meeting room, recreation rooms, gymnasium, changing rooms, coffee rooms, sick bay, Heli reception/ departure facilities, laundry, stores and workshops