

HEA Hydra



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Delivered in 2014, HEA Hydra has worked on a range of wind energy projects supporting offshore substation commissioning, and turbine maintenance work. HEA Hydra is also designed to work in the oil & gas sector and has supported platform maintenance work. HEA Hydra is a modern, flexible and efficient vessel equipped with a 400T crane.

General Information

Type:	Self-Elevating Jack up Barge
Design:	Gusto MSC NG2500X
Built:	2014
Builder:	Lamprell Energy Limited, (Sharjah)
Class & Notations:	ABS A1, Self-Elevating Unit, AAMS, ACCU, DPS-2, CRC
Flag:	Panama
IMO:	9669093

Principle Dimensions

Length overall LOA:	76m
Hull length:	61m
Hull breadth:	36m
Total beam (BOA):	36m
Hull depth:	6m
Draft:	3.99m 7.01m incl. thrusters
Variable load:	1495t
Load capacity:	5t/m2
Main deck area:	1000 m2

Helideck

Type/ Diameter:	Aluminium / 22.2m
Capacity:	12.8 Tons
Helicopter type:	Sikorsky S61N-S92N / CAP 437

Legs and Spud cans

Number/Type:	4 / Triangular truss
Leg length:	84.8m
Spud can type:	Diamond with pin
Spud can height:	2.44m
Spud can bearing area:	30 m2
Spud can bearing pressure:	75-102 t/m2

Jacking System

Type:	Electric rack and Pinion
Maker:	Gusto MSC
Pinion per leg:	18/leg (Total 72)
Elevating speed:	0.8m/min
Normal jacking:	1620t/leg - 90t/pinion
Holding capacity:	2754t/leg - 153t/pinion
Pre-load holding:	3672t/leg - 204t/pinion

Generators and Machinery

Main generator:	4 x MTU 16V4000M33F, 1600 ekW, 1500 rpm
Emergency generator:	1x 664kW MTU-16V2000P62
Water maker:	1 x 72 m3/day
STP:	220 POB

Cranes

Main crane	
Maker/ Model:	KENZ EHC 400/5500 O.S.
Type:	Pedestal mounted crane at stern
Boom length:	77.5m
Capacities:	400t @ 10.1-18.5m, 50t @ 73m Aux; 50t @ 73m, 25 t @ 77.5 m
Hooks above main deck:	Main hook: 73.5m Aux hook: 78.68m
Auxiliary crane	
Maker/ Model:	NOREQ HSC 700-125-30
Type:	Deck crane at Starboard
Capacities:	12.5t at 30m

Safety Systems

Lifeboats:	2 x 100 POB
Life rafts:	10 x 35 Men
MOB/Fast rescue craft:	1 x 6 POB

Propulsion

AFT thrusters:	2 x 1500kW, ZF, HRP 7000
FWD thrusters:	2 x 1500kW, ZF, HRP 7000
Service speed:	7 knots

Tank Capacity

Fuel oil:	431 m3
Fresh water:	469 m3
Ballast water:	956 m3
Endurance:	60 Days

Operation Conditions

Criteria	Wind	Hs	Current
Field transit:	10.8 m/s	2.0 m	-
DP:	10.8 m/s	2.0 m	1.03 m/s
Jacking:	10.8 m/s	2.0 m	1.03 m/s
Water depth:	52m		

Control Systems

DP system:	Kongsberg K-POS 21
Position reference:	2 x DGPS, Radius, Fan beam
Navigation and communication systems, according to IMO requirements.	

Accommodation and Facilities

Configuration:	Current	High POB Capacity
1 Man cabins:	2 Cabins	2 Cabins
2 Men cabins:	49 Cabins	49 Cabins
2 Men in TLQs:	20 Cabins	68 Cabins
4 Men cabins:	-	-
4 Men in TLQs:	-	-
Total POB:	140 POB	236 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, Startlink VSAT and DP-PRS