

HEA Hydra



HEA

Hydra

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

CLASSIFICATION AND RULES

Type:	GustoMSC NG2500X
Built:	2014
Yard:	Lamprell Energy Limited, Dubai
Class:	ABS A1 Self-elevating Unit + AMS + ACCU + DPS 2, CRC
Flag:	Panama
IMO:	9669093

MAIN DIMENSIONS

Length (waterline):	61m
Length (overall):	76m (including helideck)
Width overall:	36m
Hull depth:	6m
Draft:	3.99m (7.01m incl. thruster)
Main deck area:	300-900 m ²
Deck load	5t/m ²
Variable load:	1400 t
GRT/NRT	5146/1543 t

Legs and Spudcans

Number/Type:	4/triangular truss
Footing type:	Spudcan with pin
Leg length:	84.8m
Length below hull:	71.3m
Max. Water Depth:	45 m
Spuds Surface Area:	30m ²

Jacking System (GustoMSC)

Type:	Electric rack and pinion
Pinion:	18/leg (Total 72)
Elevating Speed:	0.8m/min
Bearing Pressure:	88t/m ²
Normal Jacking:	1620t/leg
Pre-load Capacity:	2754t/leg
Max Jacking Load:	5900t
Leg Pulling:	1494t/leg

MACHINERY/EQUIPMENT

Main Generator:	4 x MTU 16V4000M33F, 1600 ekW, 1500 rpm
Em,cy Generator:	1x 664kW MTU-16V2000P62
Water Maker:	1 x 72 m ³ /day
Sewage treatment:	1 x 140 person

Deck Equipment

Anchor Winches:	1 x Electro-Hydraulic, MBL 2030 kN, 278 kN, 600 m x 54 mm
Mooring Capstans:	2 x 50 kN

CRANES

Main crane pedestal mounted at stern	
Boom length:	73m (Main) 77.5m (Aux)
Capacities:	400t at 18.5m- 50t @ 73m main hoist (8 falls)

Auxiliary crane	1 x Noreq Acta AS electro hydraulic deck crane
Boom length:	30m
Capacities:	12.5t at 30m

SAFETY SYSTEMS

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

2 x 100 POB Lifeboats.
1 x 6 men MOB/Fast Rescue Craft.
10 x 35 men Life rafts

PROPULSION UNITS

Azimuth thrusters:	4 x 1500kW, ZF, HRP 7000 (7011 WM)
Avg service speed:	7 knots

Helideck (Aluminum)

Diameter:	22.2 dia., 12.8 tons
Helicopter Type:	Sikorsky S92A- S61N)

Control Systems

Dynamic Positioning Control System (DPCS) according to ABS DPS 2

Navigation and communication systems, according to IMO and DSI requirements

Position Reference: 2x DGPS, Radius, Fanbeam

ACCOMMODATION AND FACILITIES

Standard accommodation:
170 total POB in 71 cabins
2 x 1 men berth
44 x 2 men berth
5 x 4 men berth
10 x 2 men berth (ALQ)
10 x 4 men berth (TLQ)

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

Facilities

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