

HEA

ECO 23



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ECO 23

A next-generation offshore construction vessel, purpose-built in 2026 to support a wide range of offshore operations with efficiency and versatility. Designed to accommodate up to 100 personnel, it features a hybrid Integrated Electric Propulsion System (IEPS), advanced battery storage, and DPS-2 dynamic positioning. With a high-capacity main crane, spacious open deck, and full compliance with modern safety and class standards, HEA ECO 23 delivers reliable performance while aligning with the latest sustainability and operational excellence requirements.

CLASSIFICATION AND RULES

Type: Offshore Construction Vessel
Built: 2026
Yard: Honghua Offshore, China
Class: ABS + A1 (E) Offshore Support Vessel, SPS, + AMS, FFV1, HYBRID IEPS [LEE, PMT], ESS-LIBATTERY + DPS-2, UWILD, BWT, MLC-ACCOM, CRC, RW

Flag: Panama
IMO: 1127817

MAIN DIMENSIONS

Length (overall): 69.8m
Length Waterline: 69.33m
Width overall: 17.6m
Hull depth: 6.0m
Design Draft: 3.5m
Scantling Draft: 4.5m
Deadweight: 2,000T
Working Deck: 520m²
Deck Loading: 7.5mt/m²
GRT/NRT: 3,173/951 T

CAPACITIES

Fuel Oil: 648m³
Fresh Water: 958m³
Ballast/Drill Water: 1500m³

DECK EQUIPMENT

Capstan: 2 x Electro-Hydraulic Drive (Vertical) 50KN
Tugger Winch: 2 x Elec-Hyd Drive with 1 mooring drum, 100 KN
Anchor Windlass: 1 x Electro-Hydraulic Drive Anchor, 100 KN, 44 mm
Sewage treatment: 1 x 100 Persons Per Day
Water Maker: 2 units x 15m³/day RO

GENERATORS

Main Engine: 4 x Cummins CCFJ1350-Z-W MTCM 1350kW @ 1800 rpm.
Emergency Gen 1 x Cummins CCFJ250-Y-W MTCM 250 kW @ 1800 rpm
Battery: 3 x 172.2 KWh (500 KWh), LFP Battery system with BMS, 690V

CRANES

Main crane Telescopic Boom
Boom length: 36m
Main Hoist: Hs=1.5m, 70t@ 6.5-8.5m, 20t@ 20m
Hs=2.0m, 50t@ 6.5-8.5m, 15t@ 20m
Subsea 55m: Hs=2m, 70t@ 6.5-8.5m, 20t@ 20m
Aux Hoist: Hs=1.5m, 10t@ 7-30m, 6t@ 7-36m
Hs=2.0m, 8t@ 7-30m, 5t@ 7-36m
Subsea 55m: Hs=2m, 4t@ 7-30m, 2t@ 7-36m
Personnel: Hs=2m, 2t@ 7-36m
Auxiliary Crane: 1 x Pedestal
Capacities: 3 ton @ 3.3-13.5 m

SAFETY SYSTEMS

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

2 x 50 POB/Lifeboats
4 x 25 men inflatable life-rafts.

PROPELLION UNITS

Thrusters: 2 x Azimuth (TLAT2000WM) 1470 KW @ 1020 rpm
2 x Bow (TLTT165-CP), 700 KW @1180 rpm, 110 KN thrust
Speed: 12 kts @ 4.5m draught

EXTERNAL FIRE-FIGHTING

Fire Monitor: 2 x 1200 m³/h (1 foam)
Fire Pump: 2 x 1830 m³/h @117m

DYNAMIC POSITIONING SYSTEM

K-POS DP-21
K-Pos OS Operator Station (2), cWing Terminal (1), cWing Connection Box (3), K-Pos DPC-2 Dual Redundant Controller (1), UPS (2), Printer (1), Portable Joystick wing (1), DGPS (2), MRU (3), Ultrasonic wind anemometer (3), Laser Based position reference terminal (1).

ACCOMMODATION AND FACILITIES

Standard accommodation:

100 total POB
12 x 1 men berth
20 x 2 men berth
12 x 4 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, gym, sick bay, laundry, stores and workshops