

HEA

ECO 4



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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 4 delivers reliable performance while aligning with the latest sustainability and operational excellence requirements.

CLASSIFICATION AND RULES

Type: Offshore Construction Vessel
Built: 2026
Yard: Fujian Mawei Shipbuilding, 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: 1078470

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

DYNAMIC POSITIONING SYSTEM

K-POS DP-21
K-Pos OS (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).
DP Reference Systems:
-Light Weight Taut Wire System MK 16B
-RADius 2000 Dual
-HiPAP 352P

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.

PROPULSION 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

GENERATORS

Main Engine: 4 x Cummins CCFJ1350-Z-W-
MTCM 1350kW @ 1800 rpm,
Em,cy 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

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