

ZOMC

ZPMC-OTL MARINE CONTRACTOR



State-of-the-art heavy lift vessel ideally suited to meet the requirements of today's deepwater developments in the world's most remote locations.

Zhen Hua 30 Heavy Lift Vessel

- Crane capacity main hoist 12,000t; Auxiliary hoist 1,600t
- Length 297.6m x Breadth 58m x Depth 28.8m
- Operating Draft 13.5m to 17.6m
- Transit Speed 12kn
- Kongsberg DP11 with ABB and Rolls Royce Thrusters
- Accommodation 380 persons
- ABS Classification

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Zhen Hua 30 Heavy Lift Vessel

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General Information

Type: Self Propelled DP/II Heavy Lift Vessel
Class Notation: ABS, A1 HEAVY LIFT VESSEL, AMS, DPS2
Call Sign: VRF05
Flag: Hong Kong
Year Built: Delivery Q1 2016

Principal Dimensions

Length Overall (m): 297.55m
Moulded Breadth (m): 58.0m
Depth Main Deck (m): 28.8m
Operating Draft (m): 13.5m to 17.6m
Lightship: 80,613t
No camber in main deck
Transit Speed: 12kn
Endurance: 60 days transit/60 days working

Dynamic Positioning System

The Zhen Hua 30 is equipped with an ABS DPS-2 Classed Dynamic Positioning system with the following characteristics:

- 2,750kw x 2 sets tunnel thruster (1 Bow/1 Stern)
- 3,250kw x 4 sets ABB Azipod CZ1400 (Above Keel)
- 3,800kw x 6 sets Rolls-Royce (Below Keel, Retractable, Azimuth)
- 1x DP control console in wheelhouse - dual redundant controller unit and two operator stations
- Reference Systems:
 - 2x Master Gyro Compass
 - 2x Gill Ultrasonic Wind Sensor
 - 1x Wind Sensor windobserverator OMC-160
 - 2x Kongsberg MRU-2 Motion Reference Unit
 - 1x Kongsberg MRU-5 Motion Reference Unit
 - 1x Kongsberg RADIUS 1,000D-Dual Interrogator
 - 2x Kongsberg RADIUS 700
 - 1x DPS700 Position Reference System
 - 1x HIPAP Position Reference System
 - 1x taut wire Position Reference System

Positioning Winches/Anchors

Working Anchor winches: 10 x 2,500m ea.
Winch Pull: 143t
Winch Holding Capacity: 408t
Anchor Type: STEVPRIS MK5 (12,000kg)

Auxiliary Mooring Winches

Mooring Winches: 9 x 200m ea.
Winch Pull: 20t

Drop Anchor:

Number 2
Anchor Type: AC-14 (18,800kg)
Anchor Chain: 122mm Diameter AM3
Capacity: 72t
Length: 770m

Power and Propulsion

Main Engine:

Type: B&W 7S80MC
Power: (kW) 21120KW/69.2rpm (MCR) 19010KW/66.8rpm (90% MCR)

Main Generators:

4 x 7,000kW
Type: B&W 14 V32/40 700rpm diesel

Auxiliary Generators:

2 x 1,040kW

Harbor Generator:

1 x 1,050kW
Type: B&W 8L23/30H

Emergency Generators:

1 x 500kW

Main Deck

Clear Deck Area: (m²) 4,500m²
Deck Strength: (t/m²) 10t/m²
Total Deck Capacity: 45,000t

Tank Capacities

Fuel Oil: 13,114m³
Diesel Oil: 1,545m³
Lubricating Oil: 165m³
Ballast Water: 151,990m³
Heel Water (Single side): 18,000m³
Fresh Water: 4,767m³
Cooling Water: 35m³
Equipped with rapid water ballast system, adjusting capacity: 18,000m³

Accommodation

Crew: 72
Workers: 308
Single Cabins: 72
Double Cabins: 2
Quad Cabins: 76
Conference Rooms: 1 x 50 persons, 2 x 20 persons

Helideck

Type: Aluminium, suitable for SIKORSKY S-92

Cranes

Main Crane:

Capacity (mt): 12,000t
Location: main deck centerline fwd
Manufacturer: ZPMC

Main Hook:

Lifting (Stern): 12,000t @ 54m
Lifting (Revolving): 7,000t @ 44m
Lifting height above water line: 123m

Auxiliary Hook:

Lifting (Stern): 1,600t @ 120m
Lifting (Revolving): 1,600t @ 95m
Lifting height above water line: 149m
Dynamic Load Factor: 1.1
Revolving speed with full load: 30 minutes (90 degrees)

Deck Cranes:

3x SWL 15t

Tugger Winches

Horizontal: 4 Sets x 50t pull
Vertical: 2 Sets x 40t pull (Main Hook)
Vertical: 1 Sets x 40t pull (Aux Hook)

Hooks

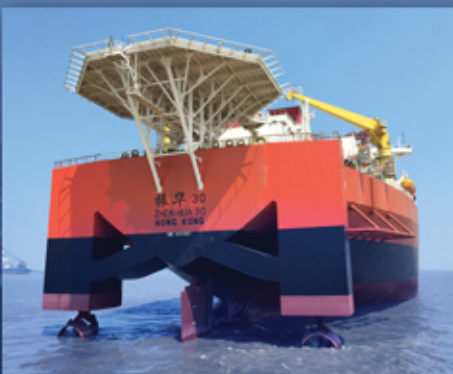
Main Hook: 6,000t four prong, 2 sets
Auxiliary Hook: 1,600t four prong, 1 set
Whip Hook: 100t single hook, 1 set
Rigging Hook: 50t single hook, 2 sets

Navigation Equipment

2x GPS
2x Gyro Compass
Magnetic Compass
Echo Sounder
Speed Log
Autopilot
AIS
Anemometer
Voyage Data Recorder

Communications Equipment

2x VHF Telephone
Air-Band AM Ultra Short Wave Radio
Helicopter Beacon
Portable Aviation VHF Telephone
INMARSAT F Station
Non-Directional Beacon
Air-Band VHF Telephone



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