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 DPII with ABB and Rolls Royce Thrusters**
- **Accommodation** 380 persons
- **ABS Classification**

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ZhenHua 30 Heavy Lift Vessel

**General Information**
- **Type:** Self Propelled DPLII 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
- **Lightskip (m):** 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 DP3 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 windobserver OMC-160
- 2x Kongsherg MRU-2 Motion Reference Unit
- 1x Kongsherg MRU-5 Motion Reference Unit
- 1x Kongsherg RADIUS 1,000D-Dual Interrogator
- 2x Kongsherg 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:** STEVPRIA 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)

**Hulls**
- **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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