



VESSEL & EQUIPMENT SPECIFICATION

Polar King – IMR / CSV Vessel



1) GENERAL

Classification and society:
 DNV +1A1, ICE-C, COMF-V(3)C(3), HELDK-SH, E0, DYNPOS-AUTR,
 NAUT-OSV(A), CLEAN DESIGN, DK(+)
 Flag: Cyprus (CY)
 Design / Type: ST-254 LCD
 Built: 2011 / Freire Shipyard - Spain.
 Next planned dry-docking: April 2021
 SPS Code 2008
 IMO: 9523366

2) MAIN DIMENSIONS

LOA 110.6m
 Breadth 20.0m
 Depth 9.8m
 Max draught 7.6m
 Design draft 6.0m
 Deadweight abt. 4358 mt
 Tank capacity MDO 1 722 m3
 Tank capacity FW 1 200 m3

3) MACHINERY

Main engines: 6x 1800kW / Total 10.8MW
 Main propulsion: 2x Voith Schneider 3800 Kw
 Thrusters:

- i) Tunnel thruster: 2 x 1 350 kW
- ii) Azimuth thruster: 1 x 1 400 kW

Voith Roll Stabilization (VRS) System

4) PERFORMANCE

Speed / Consumption (fair weather):
 i) Service speed: abt. 14,5 kts., abt. 39 mt / day
 ii) ECO speed: abt. 11 kts., abt. 27 mt / day
 iii) DP Operations: abt. 8 – 13 mt / day (weather & sea state dependent)

5) DP SYSTEM

Dual redundant DP-System (AUTR/DP2), Kongsberg
 Reference system

- i) 2 x HiPAP 500, Kongsberg
- ii) One Seapath 200, Kongsberg
- iii) One DGPS 122
- iv) 1 x Seapath 300
- v) 3 x SeaStar diff. modulator
- vi) Three MRU's
- vii) One Radius 1000 QUAD System

ERN: DYNPOS-AUTRO: 99,99,97,76 (2015)
 DYNPOS-AUTRO: 99,99,99

6) LIFTING EQUIPMENT

TTS 150t AHC / 3000m wire
 i) Max lifting capacity: 150 mt, radius 7-10m
 ii) Max lifting capacity: 25 mt, radius 35m
 iii) Active lifting capacity at 2000m: abt. 100 mt
 iv) Aux hook: 12.5 mt, 1 fall, radius 7-36m, 550m
 2 x ODIM LARS (AHC) for deployment of (W)ROVs through moonpool and starboard side. SWL 12t
 Deck crane: 2 x foldable cranes, capacity 1,1 mt each
 Provisions store crane: Foldable crane, max lifting capacity 1,1 mt

7) DECK

Open deck area: 960m²
 Deck strength: 10t/m²
 Tugger winches: 2 x 5t
 Main Moonpool: 7.2m x 7.2m
 Power Supply: 2 x 2.5MVA
 i) 1 Switchboard is installed on the Main Deck in the ROV Hangar at Frame 82, port

- ii) 1 Switchboard is installed on the Main Deck by the main crane pedestal at Frame 35
 Work ROV Moonpool in hangar: 5.4m x 5.4m
 Both Moonpools have Flush Deck Covers
 Project fresh water capacity: 585 m3, pumping rate: 0-190 m3 / h

8) ACCOMMODATION

Maritime crew: 31
 i) Single cabins: 15
 ii) Double cabins: 8
 Charterers' personnel: 81
 iii) Single cabins: 7
 iv) Double cabins: 37

Facilities: On-line room, Off-line room, client offices (3), conference room, lounges (3), hospital, fitness room, Sauna, Solarium

9) NAVIGATION AND COMMUNICATION

Equipment according to GMDSS regulations, Area 3 and Naut-OSV notation
 VSAT high speed, broadband satellite communications

10) CREW MATRIX

Manning

- 1 x Master (Qualified DPO)
- 1 x Chief Officer (Qualified DPO)
- 1 x 2nd Officer (Qualified DPO)
- 2 x 3rd Officer (Qualified DPO)
- 1 x Chief Engineer
- 1 x 2nd Engineer
- 1 x 3rd Engineer
- 1 x Electrician
- 2 x Motorman
- 1 x Bosun / Coxwain
- 2 x AB / Qualified crane operator
- 3 x AB / OS
- 1 x Chief Steward
- 1 x Cook
- 3 x Steward

Nationality of the Crew is Owners' discretion. Crew model may be adjusted as need be

11) HELICOPTER LANDING DECK

Designed for: Sikorsky S-92
 Certified according to: CAA CAP437 / DNV
 Helideck diameter: 20,88m
 Max weight: 12,8 mt

12) SAFETY EQUIPMENT

MOB/Rescue boat: Maritime Partner Weedo 700
 2 x enclosed lifeboats, 80 pax each.
 4 x 20DKF Davit Launch life rafts.
 4 x 35DK+Throw overboard life rafts

13) ROV Equipment

Both ROVs are located in enclosed hangar with workshop
 1 x Triton XLX 57 / Perry Top Hat Type V
 i. Available power: 150BHP / 130 kW
 ii. Ops depth: 3000m
 iii. Frame carrying load 3000kg
 iv. Umbilical length 3100m
 v. Tether length 650m
 1 x Triton XLR 02 / Perry Top Hat Type IV
 i. Available power: 125BHP / 145 kW
 ii. Ops depth: 3000m
 iii. Frame carrying load 3000kg
 iv. Umbilical length 3450m
 v. Tether length 370m