



VESSEL & EQUIPMENT SPECIFICATION

Polar Queen – 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: Q1 2022

SPS Code 2008

IMO: 9523378

2) MAIN DIMENSIONS

LOA 110.6m

Breadth 20.0m

Moulded Depth 9.8m

Max draught 7.3m

Moulded draft 6.8m

Deadweight max. draft 4430 mt

Tank capacity MDO 1 722 m3

Tank capacity FW 1 200 m3

3) MACHINERY

Diesel Electric Propulsion

MAN 9L21/31 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) Max speed: abt. 15,5 kts., abt. 40.5 mt / day

ii) ECO speed: abt. 11 kts., abt. 26.3 mt / day

iii) Service speed: abt. 14.5 kts, abt 37.5 mt/day

iv) DP Operations (weather & sea state dependent):

(1) Normal abt. 8 mt. / day

(2) Crane ops abt. 10 mt / day

(3) Split bus or Heavy abt. 12 mt. / day

5) DP SYSTEM

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

Reference system

i) Gangway as reference to DP

ii) One Seapath 200, Kongsberg

iii) One DGPS 122

iv) 1 x Seapath 330

v) 2 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 0,94 mt

7) ACTIVE MOTION COMPENSATED GANGWAY

UPTIME 23.4 AMC gangway, mounted on pedestal midship PS.

Operating length (middle stroke): 19.4+/-4m

Current landing height: 18+/-3m (optional in range 10-25+/-3m)

Workability: typically Hs 2.5m (subject to heading and wave spectra)

Access tower equipped with lift for electrical trolley: 750 kg SWL

Electrical trolleys: 2 x Jespi, 300 kg SWL

8) DECK

Open deck area: 960m²

Deck strength: 10t/m²

Tugger winches: 2 x 5t

Main Moonpool: 7.2m x 7.2m

Work ROV Moonpool in hangar: 5.4m x 5.4m

Both Moonpools have Flush Deck Covers

Power Supply: 2 x 2.5MVA

Can supply 110V – 230V – 450V – 690V all 60Hz.

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

b) Can Supply FW – Sea Water – Fuel on back deck.

c) 8 evenly distributed strong points to withstand 25mt in any direction

9) BOAT LANDING

i) Boat landing, fender centre-to-centre distance of 1.8 m, and fender height of abt. 5 m, suitable for CTVs with bow height of abt. 3.0 m.

ii) The boat landing to be mobilized amidship on either SB or PS side

10) ACCOMMODATION

Maritime crew: 31

i) Single cabins: 17

ii) Double cabins: 7

Charterers' personnel: 81

iii) Single cabins: 5

iv) Double cabins: 37

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

11) NAVIGATION AND COMMUNICATION

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

12) CREW MATRIX

Manning

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

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

13) HELICOPTER LANDING DECK

Designed for: Sikorsky S-92

Certified according to: CAA CAP437 / DNV

Helideck diameter: 20,88m

Max weight: 12,8 mt

14) SAFETY EQUIPMENT

MOB/Rescue boat: Maritime Partner Weedo 700

2 x enclosed lifeboats, 80 pax each.

4 x 20DKF Davit Launch life rafts.