



VESSEL & EQUIPMENT SPECIFICATION

Polar Queen – IMR / CSV / W2W 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: Q4 2021
 SPS Code 2008
 IMO: 9523378

2) MAIN DIMENSIONS

LOA	110.6m
Breadth	20.0m
Moulded Depth	9.8m
Max draught	6,8m
Moulded draft	6.8m
Deadweight max. draft	3112 mt
Tank capacity MDO	1715 m3
Tank capacity FW	1234 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): (6,4m draught)
 i) ECO speed: abt. 10 kts., abt. 14 mt / day
 ii) Service speed: abt. 12 kts, abt 20 mt/day
 iii) DP Operations (weather & sea state dependent):
 (1) Normal abt. 7 mt. / day
 (2) Crane ops abt. 9 mt / day
 (3) Split bus or Heavy abt. 11 mt. / day

5) DP SYSTEM

Dual redundant DP-System (AUTR/DP2), Kongsberg Reference system
 i) Gangway as reference to DP
 ii) 1 x DGPS DPS 122
 iii) 2 x HiPAP 500 Kongsberg
 iv) 1 x DGPS Seapath 330
 v) 2 x Fugro SeaStar Inmarsat/Spotbeam Demodulators
 vi) 3 x MRU's
 vii) 1 X RADIUS 1000 QUAD System, 2 X 550X transponders
 ERN: DYNPOS-AUTR: 99,99,97,76 (2015)
 DYNPOS-AUTR: 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: **20,5 +3/-2m**
 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:	960m ²
Deck strength:	10t/m ²
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) Located midship PS. Crane coverage 1.1t at 16m outreach
 ii) Designed for CTVs up to 25m, with static push force of 300 kN (approx. 30 t) and dynamic impact force of 500 kN (approx. 50 t).
 iii) 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.

10) ACCOMMODATION

Total capacity of 119 pers (SPS compliant for 136 pers in W2W mode)
 Maritime crew: 31
 i) Single cabins: 9
 ii) Double cabins: 11
 Charterers' personnel: 88
 iii) Single cabins: 6
 iv) Double cabins: 41
 Facilities: client offices (5), toolbox talk room, 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
- 1 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.