

Seven Arctic

Heavy
Construction/
Flex-lay

subsea 7



Seven Arctic is a construction vessel suitable for worldwide operations, adapted for both tropical and winter environments, capable of operations in water depths up to 3,000m.

- Length 162.3m x breadth 32.0m
- 1,000t AHC Offshore Crane
- 600t top tension (tiltable) lay system
- 7,000t underdeck basket for storage of flexible pipe/umbilicals
- Accommodation for 132 persons
- Deck Area c. 2,600m²
- DP Class III with two engine rooms
- Deck load of 5,400t at 5m above main deck
- Special Purpose Ship code compliant
- Transit speed 15 knots
- Twin work-class ROVs

General Information

Type	Heavy Construction/Flex-lay
Classification	Lloyds Register, ✕100A1, Offshore Supply Ship, Helicopter Landing Area, WDL(+), ShipRight (ACS(B)), *IWS, ECO(IHM, OW, P), ice-class 1D, Winterisation H(-30)SC, ✕LMC, CAC 3, UMS, DP(AAA), Descriptive note ShipRight (BWMP(method)), 2008, SPS
Built	Hyundai Heavy Industries, 2017
Flag	Isle of Man

Principal Dimensions

Length Overall (m)	162.3m
Breadth (m)	32.0m
Depth Main Deck (m)	13.5m
Operating Draught (m)	8.5m (8.7m max)
Transit Speed (knots)	15 knots

Dynamic Positioning Systems

DP Classification	DP Class III DP HIL Certification
Reference System	2x taut wires, 3x Veripos DGNS, 2x HIPAP 500, 1x CY Scan

Power and Propulsion

Engine Rooms	2
Main Engines	6 x HiMSEN 9H32/40
Power (kW)	4,500kW
Generators	6 x HHI HSJ7 915-10P
Power	4,220kW
Propulsion	2 x Controllable pitch propeller shafts
Power	9,200kW
Thrusters	4 x Tunnel Thruster (2 Fwd, 2 Aft)
Power	2,600kW
Azimuths	2 x Retractable Azimuth Thruster (Fwd)
Power	2,300kW

Main Deck

Clear Deck Area	2,600m ²
Deck Strength	15t/m ² aft of main crane 10t/m ² elsewhere

Accommodation

Berths (No.)	132
Cabins (No.)	52 x single cabins 40 x double cabins

Ice and Winterisation

Features include hull plate strengthening
Trace heating of helideck, lifeboat, and other critical areas
Tank heating of fresh water tanks, and other measures

Tank Capacities (100%)

Fuel Oil (m ³)	3,700m ³
Potable Water (m ³)	1,200m ³
Ballast Water (m ³)	7,500m ³
Anti-Heel Tanks	3,000m ³
Anti-Roll Tanks	800m ³

Helideck

Type	26.1m x 26.1m octagonal. NORSOK compliant suitable for Sikorsky S-92 with perimeter walkway and helicopter monitoring system
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Cranes

Main Crane Capacity (t)	1,000t
Manufacturer	Huisman
Operating Water Depth (m)	3,000m (Double Fall)
Main Lift Wire	6,350m / 109mm
AHC	Yes
Auxiliary Hoist	40t, certified for man-riding
Auxiliary Cranes (t)	1x 100t AHC 1x 25t AHC
Operating Water Depth (m)	3,000m (Single Fall)

Moonpool

Number	1
Dimensions:	8.75m x 7.2m

Tiltable Lay System

Tensioners	2
Dynamic Top Tension	600t
Primary A&R Capacity	600t
Primary A&R Wire Length	3,500m
Secondary A&R Capacity	200t
Secondary A&R Wire Length	3,000m
Hang Off Clamp	600t
PLET Handling System	50t
Lay System Working Angles	90deg to 80deg
Lay System Bridge Passage Angle	39deg

Underdeck Basket

Capacity	7,000t
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ROV System

ROVs	2x work-class ROV
Operating Depth (m)	3,000m
Installed in ROV hangar, port and starboard side at aft end of superstructure, deployed over the side on rail-guided cursors.	

Environmental

Hull form and propulsion arrangement optimised to reduce fuel consumption
Waste heat recovery system fitted
SCR equipment installed in exhaust to reduce NOx emissions
Ballast water treatment system installed to protect biodiversity