



VESSELS Construction / Pipelay

Our Values



Safety



Integrity



Sustainability



Performance



Collaboration



Innovation

subsea 7



Seven Arctic

Vessel Info

Full specification overleaf

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 2,600m²
- DP Class III with two engine rooms
- 5,400t deck load, 5m above main deck
- Special Purpose Ship code compliant
- Transit speed 15 knots
- Twin work-class ROVs

Fast Facts

- Large back deck and underdeck carousels to perform heavy construction and flex-lay scopes simultaneously
- 1,000t crane with multiple modes for topside and subsea lifting – including over stern and starboard side
- Hybrid power for reduce fuel and emission
- Design operation capability to -20C
- Selective catalytic reduction (SCR) system installed providing cleaner operations
- Twin propeller shaft providing high bollard pull and transit speed



Seven Arctic

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General Information

Type	Heavy Construction/Flex-lay
Classification	Lloyds Register. +100 A1 Offshore Supply Ship, Helicopter Landing Area, WDL(+), *IWS, Winterisation H(-30), S(C), ECO (OW, P). Ice Class 1D, +LMC, CAC3, UMS, DP (AAA). Descriptive Notes: ShipRight (ACS (B)), ShipRight (BWMP (T)), ShipRight (SERS), ShipRight (SCM), ShipRight MPMS, ShipRight (IHM+). Winterisation Features, LI, EDD.
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)

Main Deck

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

Underdeck Basket

Capacity	7,000t
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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

Speeds / Fuel Consumption

Maximum Speed	15.5 knots
Economic Speed	12.5 knots
Economic Speed Fuel Consumption	72.0m ³ /day

Power and Propulsion

Main Engines / Power (kW)	6x HiMSEN 9H32/40 / 4,500kW
Generators / Power (kW)	6x HHI HSJ7 915-10P / 4,220kW
Propulsion / Power (kW)	2x Controllable pitch propeller shafts / 9,200kW
Thrusters / Power (kW)	4x Tunnel Thruster (2 Fwd, 2 Aft) / 2,600kW
Azimuths / Power (kW)	2x Retractable Azimuth Thruster (Fwd) / 2,300kW
Batteries / Power (kW)	3,750kW / Spinning reserve 1,424kWh.

DP Systems

DP Classification	DP Class III DP HIL Certification
Reference System	2x Taut Wires, 3x Veripos DGNSS, 2x SeaPath DGNSS, 2x HiPAP 500, 1x HAIN, 2x Cyscan, 1x Radius

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)

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 Collar Clamp	600t
PLET Handling System	50t
Lay System Working Angles	90° to 80°
Lay System Bridge Passage Angle	39°

Moonpool

Number	1
Dimensions:	8.75m x 7.2m

ROV Systems

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.	

Helideck

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

Accommodation

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

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.



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The Subsea7 fleet comprises of vessels that have exceptional versatility, capable of operations worldwide including; pipelay, construction, survey, remote intervention, diving support, heavy lifting operations, renewables and decommissioning.

