Research Icebreaker

Kronprins Haakon

HAVFORSKNINGSINSTITUTTET

NORSK·POLARINSTITUTT

UNIVERSITETET I TROMSØ

1.1.1 General Information

Kronprins Haakon is a multi-purpose research vessel built according to the new IMO Polar Code as a PC-3 class ice- breaker for world wide operations. The ship is equipped with state of the art scientific instrumentation for ocean- ography, geophysics, marine biology and marine geology including facilities for ROV, AUV and helicopter operations.

1.1.2 Ship general

Vessel name:	Kronprins Haakon
IMO number:	IMO 9739587
Call sign:	3YYQ
MMSI:	257275000
Nationality:	Norway (NOR)
Home port:	Tromsø
Type of vessel:	Icebreaking research vessel
Delivered:	2018
Yard no/Builder:	6255/Fincantieri
Classification society:	DNV GL

Main particulars

Length over all (LOA):	100,0m
Breadth:	21,0m
Design draught:	7,60m
Maximum draught:	8,65m
Displacement:	11003T
Gross Tonnage:	9145T
Summer DWT:	3613T

Speed

11 knots economical. 15 knots maximum

1.1.3 Accommodations

Crew: 18

Scientists: 37

1.1.4 Class

PC-3 ICEBREAKER, DNV + 1A1, E0, RP, NAUT-OSV(A), CLEAN DESIGN, DAT (-35), WINTERIZED BASIC, HELDK-SHF, DPS 1, DYNPOS-AUTS, COMF-V(3), DK(+)

1.1.5 Main propulsion

2 x Rolls Royce ARC 0.8 azipods 2x5MW

1.1.6 Bow thrusters

1 x Rolls Royce 1350kW, 1 x Rolls Royce 880kW

1.1.7 Power generating plant

Main generators	
2 x Rolls Royce B32:40L9ACD	2 x 5180 kVA
2 x Rolls Royce B32:40L6ACD	2 x 3455 kVA
Harbour generator set	
Caterpillar 3512C	1700 kVA
Emergency generator	
Caterpillar C18	625 kVA

Tank capacities

Fuel oil 1484m^3

Potable water 579m^3

1.1.8 Helicopter

Hangar for two small/medium helicopters.

Helicopter deck D-value 21m and max take-off weight 16 tons.

1.1.9 Scientific equipment

- Kongsberg Simrad Scientific Echo sounder EK80 (18, 38, 70, 120, 200, 333 kHz). Twin installation, hull and drop keel mounted
- Medium Water(2800 m) Multibeam Echo sounder EM 710
- Deep Water(7000 m) Bathymetric Multibeam Echo sounder EM 302
- Sub Bottom Profiling system SBP 300 and Topaz 40
- Omni-directional Fisheries Sonar, SH90, SU90, MS70 and ME70
- 2 x ADCP(75 kHz and 150 kHz), drop keel and hull
- HiPAP 501
- Hyperbaric chamber for divers
- Bottom coring
- ROV, AUV, CTD with water sampling rosette
- Work boat
- 14 laboratories
- Full suite of scientific winches

1.1.10 Other features

158 ton bollard pull

Firefighting class 1 equipment.

2x1200m^3/hour. Active anti-roll/anti-heel system

Icebreaking load monitoring system

1.1.11 Cranes

1x12tons@20m/30 tons@10m
3x5tons@10m

1x3tons@11m

1.1.12 Cargo

Space for 13 containers (20') Cargo hold (1180m^3)

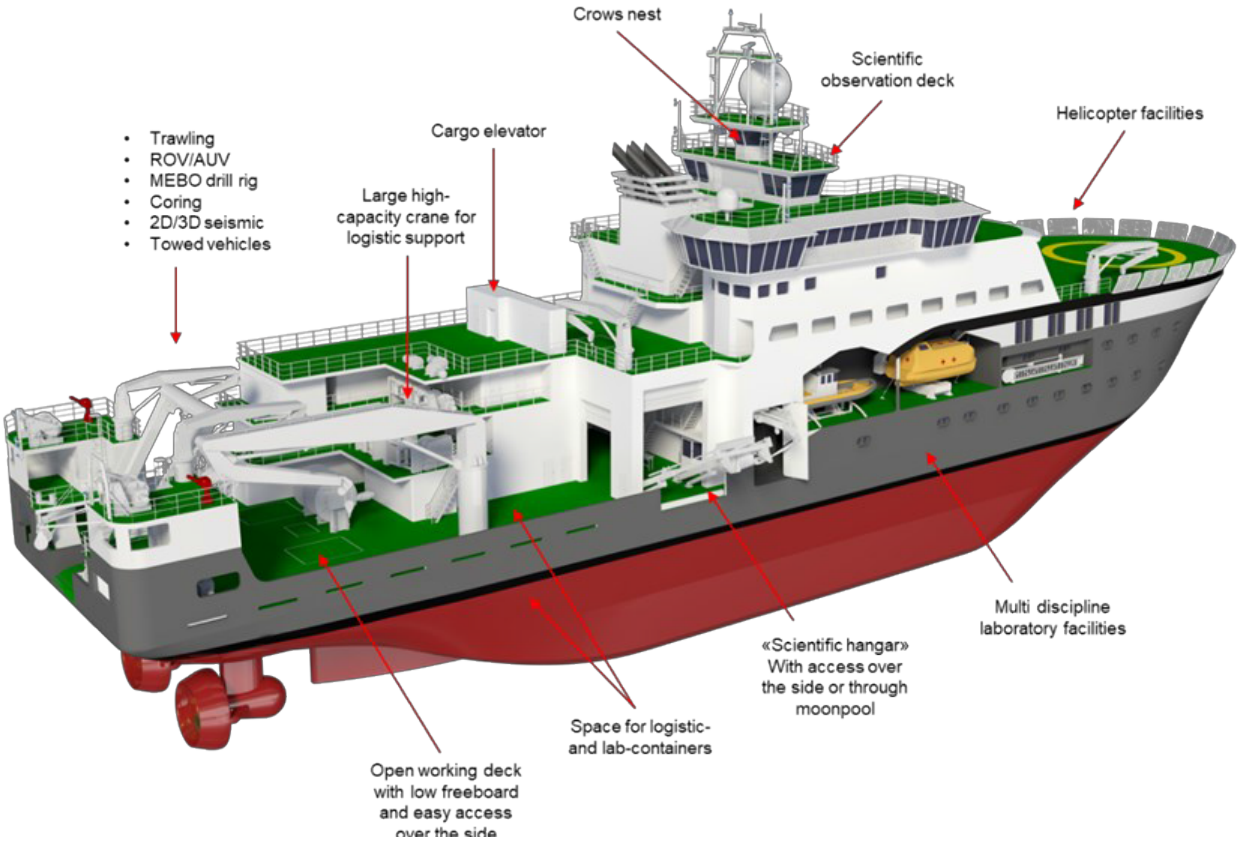
Cargo elevator

1.1.13 Owner

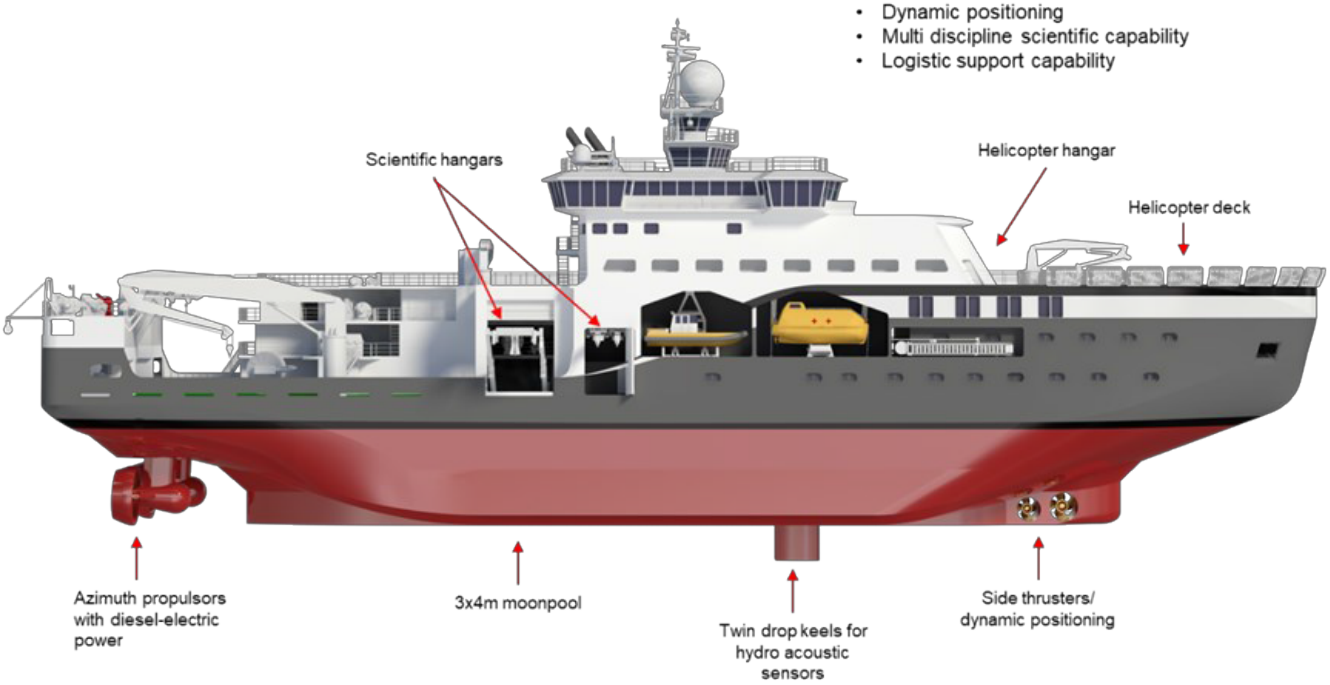
Norwegian Polar Institute

1.1.14 Operator

Institute of Marine Research



- Built to IMO Polar Code requirements (PC 3)
- Dynamic positioning
- Multi discipline scientific capability
- Logistic support capability



1.1.15 Kontaktinfo Kronprins Haakon

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