



## DR FRIDTJOF NANSEN

Type: Fishery and Oceanographic Research Vessel

Hull material: Steel

Owner: Havforskningsinstituttet (Norway)

Dr Fridtjof Nansen is a supersilent scientific research platform whose propulsion configuration, laboratory and working deck layout are purposely designed and built to comply with ICES CRR 209 -the most restrictive standard for vessel underwater noise control. Thanks to its wide range of cranes, winches and miscellaneous deck equipment, Fridtjof Nansen can conduct complex, multidisciplinary, multi-investigator research both through direct observation as well as through the deployment of autonomous vehicles and installations.

## MAIN PARTICULARS

### General information

Hull material:	Steel
Type	Fishery and Oceanographic Research Vessel
Delivery:	2017
DNV-GL Class notation	✘ 1A1 , EO, ICE-C, SPS, DYNOPUS-AUT, NAUT-AW, COMF-C(2)V(2), BMW-T, TIMON, Recyclable
Built in compliance with	ICES Cooperative Research Report no. 209 – Underwater Noise of Research Vessels

### Dimensions

Length overall	74.5 m
Length between perpendiculars	66.1 m
Breadth moulded	17.4 m
Depth from main deck	8.6 m

### Capacities

Fuel oil	About 490 m <sup>3</sup>
Fresh water	About 175 m <sup>3</sup>
Ballast	About 450 m <sup>3</sup>

### Accommodation

Accommodation for	45, 15 crew + 30 scientists
Cabins:	19 single cabins + 13 double cabins
Laboratories	CTD Laboratory, Benthos/Plankton/Sediment Laboratory, Dry Lab, Photo Lab, Climate Lab, Fish -dry Lab, Fish -wet Lab, Clean SW Sampling Laboratory
Hangars	2, Main Hangar + CTD Hangar

## PERFORMANCE & MACHINERY

### Propulsion / Manouvering

Propulsion system	Diesel-Electric
Main Generator sets	1 x MAK 6M20C, 1140 kW + 2 x MAK 9M20C, 1710 kW each
Main propellers	1 x Fixed Pitch Propeller, 5 blades, diameter 3600 mm, 3000kW
Bow Tunnel Thruster	1 x Brunvoll FU 63LRC-1750, 600kW, Super Silent
Retractable Azimuth Thruster	1 x Brunvoll AR 63LNC-1650, 860 kW
Stern Tunnel Thruster	1 x Brunvoll FU 63LTC-1550, 600kW, Low noise configuration

### Features

Maximum speed	14 Kn
Economic speed	10 Kn
Bollard pull at 4 Knots	30 t

## EQUIPMENT

### Deck / Special equipment

Deck cranes	1 x Main Deck crane 7.5 t at 16 m + 1 x Aft Deck Crane 3t at 14.9m + 1 x SB Crane 1.5 t at 14.5 m + 1 x Provision Crane 3 t at 10m
Oceanographic Work Boat	1 x Gondan G10 WB 10 persons capacity, 20 Knots speed
Fast rescue craft	1 x FRB WEEDO 600 6 person capacity, 220 HP Max speed 34 Kn
Stern A-Frame	10 ton load, 170° tilt movement
Main Hangar A- Frame	15 ton load, 170° tilt movement
CTD Hangar L-Frame	3 ton load, CTD size 1100mm x 1750mm
Oceanographic deck equipment	17 x Rapp Marine Scientific & Fishing winches