

Rolls-Royce design and integrated systems

NVC 352 – 71 m Purse seiner / pelagic trawler



MV Knester

NB 73 at Eidsvik Skipsbyggeri, Norway
Delivery June 2007

Design focus

NVC 352 - 71 m combined Purse Seiner / Pelagic Trawler.

This brand new design enters a new era when it comes to performance at this type of vessels.

- A brand new, low resistant hull design attend to the increasing demand of high speed / fuel saving capabilities combined with good sea keeping characteristics.
- The highest attention has been paid to design a real working machine to attend to the demand of increased working efficiency combined with the importance of safe working conditions during both purse seining and pelagic trawl operations.
- A new arrangement for tank / RSW system attend to the demand of increased capacity per hour as well as the importance of the highest quality of the catch.
- A two speed main propulsion system attend to the high focus on reduced fuel consumption as well as noise reduction both into the water and into the ship.
- The accommodation - including a well sized and light dayroom and a new designed bridge, ensures that the need of optimal living facilities for the 12 men crew is well taken care of.
- NVC 352 – Design for the future.

Solution to your marine needs

Rolls-Royce provides an unrivalled range of products and services to the marine industry. With production facilities in 9 countries and a comprehensive support world wide network, we are a global supplier of marine solutions.

We deliver fully integrated ship systems comprising innovative and well proven products customised to the individual ship and it's specific operation, ensuring an optimum solution for any application.

Whether you choose complete ship systems or less comprehensive solutions, you will always have the advantage of our special competence and technology.

Fact sheet



Rolls-Royce

NVC 352 – 71 m Purse seiner / pelagic trawler

Class:
Det Norske Veritas, +1A1, Fishing Vessel, (N), E0 (without certificate)
Sjøfartsdirektoratet Havfiske II

Regulations:
IMO, National Authority, SOLAS, MARPOL

Main dimensions:

Length over all	71,10 m
Length between p.p.	63,00 m
Breadth mid.	14,40 m
Depth mid to M.deck	6,80 m
Depth mid. to Shelter deck	9,50 m

Performance:

Trial speed	17,8 knots
Cruising speed	16,0 knots

Bollard pull:

	82 t / 0 knots
	69 t / 4 knots

Capacities:

Marine Fuel Oil	180 m ³
Heavy Fuel Oil	370 m ³
Fresh water	115 m ³
RSW Capacity - 10 tanks	2000 m ³

Anti rolling system:
1 off passive anti rolling tank placed on forecastle deck foreship.

Propulsion system:
Rolls-Royce main engine type B32:40 L9P 4 500 kW / 750 rpm
3 200 kW / 650 rpm
Rolls-Royce CP propeller in fixed nozzle 3600 mm
Gearbox type AGSC 1500 with 2 speed PTO
5 propulsion modes

Manoeuvring system:
2 off Rolls-Royce tunnel thrusters, type TT 1650 - 736 kW
Rolls-Royce steering gear, type SR 662-FCP
Rolls-Royce flap rudder, type FB-2330

Electrical power generation
Floating frequency system 50 – 60 Hz
Shaft generator, driven from gearbox PTO 1 x 3000 kVA / 60 Hz
2500 kVA / 50 Hz
Main diesel generators: 1 x 1130 kVA
Harbour / Emerg. generators: 1 x 468 kVA

Electrical system
440 VAC 50 – 60 Hz for generators and heavy consumers
220 VAC 50 – 60 Hz for illumination and small consumers
220 VAC 60 Hz clean power for electronic equipment
24 VDC for electronic equipment

Deck Machinery
Rolls-Royce 64 bar system

Trawl winches	2 x 72 tons
Purse seine winches	2 x 30 tons
Aux Winches	2 x 11 tons
Net drums	1 x 74 tons

RSW / Vacuum system
RSW refrigeration cap. 2 x 800.000 kcal/hr
Vacuum discharge system 1 x 3200 ltr

Fish finding system
2 off Scanning Sonars - 2000 / 4000 m - 180/ 24 KHz.
80 / 360 degrees full scanning.
2 off Echo Sounders
Transducers
Hydro acoustic catch control system

Accommodation:
The vessel to have accommodation and equipment for 12 persons in single cabins with WC / shower facilities.
Separate mess room and day room.

Life saving equipment:
Life saving according to SOLAS requirements for fishing vessels without life boat.

Automation System:
Rolls-Royce UMAS V including following modules:
Alarm & monitoring
Pump and valve control
Tank sounding

Main switchboards
ECR Consoles

PLEASE NOTE:
All figures to be treated as a subject to change, without further notice, in order to meet owners requirements or application.



Rolls-Royce

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