

DESIGN AND INTEGRATED SYSTEMS

NVC 375 WP 82 m Stern Trawler

Design focus

Designed for bottom trawling as well as pelagic trawling, operating single and double trawl gears.

A low resistant hull design attend to the increasing demand of fuel saving capabilities combined with good seakeeping and speed characteristics.

This is an efficient trawler with improved onboard working efficiency combined with the importance of safe working conditions for the crew.

A modern factory deck arrangement optimized for flexible white fish handling:

- Heading, gutting and freezing of round fish in VPF
- Filleting of white fish and freezing in HPF
- Sorting of liver and roe and freezing in VPF
- Palletising of frozen products in twin deck cargo holds
- All waste handled by next generation protein and fish oil factory. Separate twin deck meal hold.

Solutions attend to the demand of increased capacity per hour as well as the importance of the highest catch quality of the catch.

A hybrid propulsion system, capable of both Mechanical and Diesel/Electric drive of the propeller attend to the high focus on reduced fuel consumption as well as noise reduction into the water and in the ship. Latest technology for NOx reduction included.

The accommodation - including well sized wardrobes, two light mess dayrooms and a new designed bridge, ensures that the need of optimal living facilities for the crew is well taken care of.

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Ship Design provides integrated system solutions for:

- Propulsion
- Power generation
- Automation
- Energy Management
- Deck machinery incl. cranes
- Integrated bridge



kongsberg.com NVC 375 WP

NVC 375 WP 82 m STERN TRAWLER



Class:

LRS +100A1 Stern Trawler, IWS, Ice class 1C FS, (1B for hull, rudder & nozzle), ECO,+LMS, UMS with descriptive notes,

Regulations:

Maritime Authorities

Main dimensions:

Length over all Length between p.p. 81,80 m 75.60 m Breadth mld. 17,00 m Depth mld. to Main deck 7,30 m Depth mld. to Shelter deck (trwl dk) 10 35 m Scantling draught 6,80 m appr.

Performance:

Service speed, departure ab. 16,0 knots

Capacities:

Freezing hold on 2 decks 1650 m³ Appr. Fish meal hold / Freezing hold Appr.
Packing hold – main deck Appr. 690 m³ 340 m³ Fuel oil Appr. 700 m³ 230 m³ Fresh water Appr.

Roll-Reduction system:

2 off passive roll-reduction tanks

Hybrid propulsion system:

5400 kW @ 750 rpm 1500 kW /0-1200 rpm Main engine, Bergen B33:45 L9P PTI power electric propulsion only CP propeller in I nozzle 4000 mm Max propulsion power Gearbox type 950 GHC-SC600 5400 kW @ 127 rpm

Manoeuvring system:

Tunnel bow thruster, type TT 1650 -Steering gear, type SR723 FCP-Flap rudder, type Promas 750 kW 412 kNm 13,8 m² Remote Control system, type Helicon X3

Electrical power generation:

Hybrid shaft generator (HSG) 1 x 3750 kVA Aux. 1 diesel generator 1 x 1940 kVA Aux. 2 / Harbour diesel generator 1 x 688 kVA

Main switchboards and HSG converter

Electrical system:

440 VAC 60 Hz for generators and ship systems consumers 230 VAC - 60 Hz for illumination and small consumers 230 VAC - 60 Hz UPS & clean power for electronic equipment 24 VDC battery power for emergency lights

Automation System:

ACON including following modules: Alarm & monitoring Pump & valve control Tank sounding Energy Management system Power Management system

Deck Machinery:

Electric Winch System / AC / PM Trawl winches PM 3 x 51 t Lazy line winch (10 m3) Net drum (26m3) Sweep line winches 1 x 28 t 1 x 40 t 8 x 18 t In haul winches 1 x 6 t Gilson winches 2 x 20 t Net sounder cable winch 1 x 5 t Outhaul winches 2 x 12 t Cod-end winches 2 x 12 t 2 x 6 t Auto mooring winches Capstan

Freezing Machinery:
According to customers requirements for freezing capacity, min. 100 tons per 24 hours, in 4 off automatic HPF or VPF.

Processing Plant:

According to customers requirements for H/G/filleting capacity

Fishmeal Plant:

1 off HEDINN 50t / 24h Protein & fish oil factory

Cargo handling: Palletized cargo in twin deck cargo hold Forklift transport in freezing hold Meal hold in separate twin deck cargo hold

1 service deck crane, 3 t - 15 m 1 cargo deck cranes, 10 t - 10m (5t / 15m) 1 provision deck crane, 2 t - 8 m

Fish finding system:

1 off Multi beam Echo sounder 1 off Dual frequency Echo sounder Necessary transducers Hydro acoustic catch control system

Electronics:

2 off Radars 2 off Chart Plotters 2 off GPS / DGPS systems Communication system GMDSS-A4 Satellite communications system (Inmarsat C)
Satellite entertainment / Internet / Communication system

Accommodation:

16 x 1 p cabins on upper forecastle deck 9 x 1 p / 5x 2 p cabins on lower forecastle Totally 35 persons in 30 single/double cabins WC / shower facilities in each cabin Separate mess room, day rooms & conference room Hospital on lower forecastle deck

Life saving equipment:

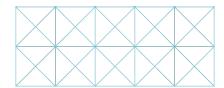
Life saving according to NMD/DMA requirements for fishing vessels without life boat.

P.15-7256

Ålesund, Norway

PLEASE NOTE:

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



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