

NVC 374 WP STERN TRAWLER



DESIGN AND INTEGRATED SYSTEMS

NVC 374 WP / KIRKELLA 80 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 and freezing:

- 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
- Meal/oil factory

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

DESIGN AND INTEGRATED SYSTEMS

Ship Design provides integrated system solutions for:

- Propulsion
- Power generation
- Automation
- Deck machinery incl. cranes
- Unified Bridge

NVC 374 WP

80 m STERN TRAWLER

Class:

Det Norske Veritas - Germanischer Lloyds + 1A1, E0, Stern Trawler, Ice 1B (Hull: Ice1A*), TMON

Regulations:

National Maritime Authorities and reg. for fishing vessels

Main dimensions:

Length over all	80,00 m
Length between p.p.	74,40 m
Breadth mid.	16,00 m
Depth mid. to Main deck	6,50 m
Depth mid. to Shelter deck (trwl dk)	9,55 m
Scantling draught	6,50 m

Performance:

Trial speed ab. 15,0 knots

Capacities:

Meal hold	550 m ³
Freezing hold	1400 m ³
Packing/freezing hold, main dk	350 m ³
Heavy fuel oil	600 m ³
Fresh water (incl FP tank/anti-rolling tank)	230 m ³
Fish oil	70 m ³
Diesel oil	70 m ³

Roll-Reduction system:

1 off passive roll-reduction tank

Propulsion system:

Main engine, Bergen B33:45 L6 P	3600 kW / 750 rpm
PTI power electric propulsion only	1200 kW / 0-1200 rpm

Option:

PTI power electric propulsion, boost	1200 kW / 1200 rpm
Max propeller power, diesel & electric	4800 kW

Propeller 102A1/4E-B/P/N

in Inno duct nozzle	3800 mm
Gearbox type 850 GHC-SC600	

Manoeuvring system:

Tunnel forward thruster, type TT 1650 AUX CP – 640 kW

Steering gear, type SR723 FCP- 412 kNm

Flap rudder, type Promas 3300 x 4100

Remote Control system, type Helicon X3

Electrical power generation:

Hybrid shaft generator (HSG)	2200 kW
Aux. 1 medium speed diesel generator	1843 kW
Aux. 2	550 kW

Electrical system:

440 VAC 60 Hz for generators and heavy 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

PES Main switchboards and AFE converter

Deck Machinery:

BRH 64 bar	
Trawl winches	2 x 50 tonnes
Centre trawl winch	1 x 53 tonnes
Net drum	1 x 46 tonnes
Sweep line winches	8 x 17 tonnes
In haul winches	1 x 13 tonnes
Gilson winches	3 x 26 tonnes
Net sounder cable winch	1 x 2,6 tonnes
Outhaul winches	2 x 11 tonnes
Cod-end winches	2 x 18 tonnes
Capstans	2 x 5 tonnes
Aux. retriever winches	3

Freezing Machinery:

According to customers requirements for freezing capacity
Approx. 90 tons per 24 hours, in 2 automatic HPF, 2 VPF and 1 IQF freezer.

Processing Plant:

According to customers requirements for H/G/filleting capacity

Protein factory:

Raw material upto 50 t/ 24 hr

Meal output ab. 20%

Oil output ab. 55% of liver

Cargo handling:

Pallet elevator lift

Forklift transport in freezing hold

Lift/palletized loading/unloading system

1 service deck crane, 3 ton SWL at 8 m

1 cargo deck cranes, 4 ton SWL at 15 m (8 ton SWL at 7,5 m)

Fish finding system:

1 off Multi beam Echo sounder

1 off Dual frequency Echo sounder

Necessary transducers

Catch control system

Electronics:

2 off Radars

2 off Chart Plotters

GPS / DGPS systems

Communication system GMDSS-A3

Satellite communications system (Inmarsat C)

Satellite entertainment / Internet / Communication system

Accommodation:

9 x 1 person cabins on upper forecastle deck + 2 x 2-pers. cabins + guest cabin

2 x 1 person cabins on lower forecastle deck + 9 x 2-pers. cabins

Totally 35 persons in 23 single/double cabins

WC / shower facilities in each cabin

Separate mess room, day rooms & conference room

Hospital

Life saving equipment:

Life saving according to MA requirements

P.15-7164-04, rev. 07.09.18

PLEASE NOTE:

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

