

NVC 374 WP STERN TRAWLER



DESIGN AND INTEGRATED SYSTEMS

NVC 374 WP / CUXHAVEN & BERLIN 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 HPF
- Filleting of white fish and freezing in HPF

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.

The accommodation - including three 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.

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, Stern Trawler, Ice 1B (Hull: Ice1A*), TMON

Regulations:

German Maritime Authorities and reg. for fishing vessels

Main dimensions:

Length over all	80,00 m
Length between p.p.	75,00 m
Breadth mld.	16,00 m
Depth mld. to Main deck	6,50 m
Depth mld. to Shelter deck (trwl dk)	9,55 m
Scantling draught	6,50 m

Performance:

Trial speed ab. 16,0 knots

Capacities:

Freezing hold 1	Appr.	580 m ³
Freezing hold 2	Appr.	1670 m ³
Packing/freezing hold, main dk	Appr.	360 m ³
Heavy fuel oil		600 m ³
Fresh water (incl FP tank/anti rolling tank)		240 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

CP propeller 102A1/4E-B/P/N in Innoduct nozzle 3700 mm
Gearbox type 850 GHC-SC600

Manoeuvring system:

Tunnel bow thruster, type TT 1650 - 640 kW
Steering gear, type SR723 FCP- 412 kNm
Flap rudder, type Promas 3300 x 4100 - 13,5 m²
Remote Control system, type Helicon X3

Electrical power generation:

Hybrid shaft generator (HSG)	1 x 2750 kVA
Aux. 1 medium speed diesel generator	1 x 1843 kVA
Aux. 2 Harbour diesel generator	1 x 688 kVA

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
Center trawl winch	1 x 50 tonnes
Net drum	20 m ³
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 3,8 tonnes
Outhaul winches	2 x 11 tonnes
Cod-end winches	2 x 18 tonnes
Capstan	2 x 6 tonnes
Aux. retriever winches	3

Freezing Machinery:

According to customers requirements for freezing capacity, min. 60 tons per 24 hours, in 2 automatic HPF.

Processing Plant:

According to customers requirements for H/G/filleting.

Cargo handling:

Palletized cargo in cargo hold
Forklift transport in freezing hold
1 service deck crane, 3 ton SWL at 8 m
1 cargo deck crane, 4 t - 15 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-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 22 single/double cabins
WC / shower facilities in each cabin
Separate mess room, day rooms & conference room
Hospital on lower forec. deck

Life saving equipment:

Life saving according to German MA requirements for fishing vessels without life boat.

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PLEASE NOTE:

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

