

# NVC 374 WP STERN TRAWLER



KONGSBERG

## DESIGN AND INTEGRATED SYSTEMS

### NVC 374 WP / EMERAUDE 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:

- 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 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:

National 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. 15,0 knots

### Capacities:

Meal Hold / Freezing hold 1	Appr.	550 m <sup>3</sup>
Freezing hold 2	Appr.	1400 m <sup>3</sup>
Packing/freezing hold, main dk	Appr.	350 m <sup>3</sup>
Heavy fuel oil		700 m <sup>3</sup>
Fresh water (incl FP tank/anti rolling tank)		230 m <sup>3</sup>
Fish oil		70 m <sup>3</sup>

### 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

CP propeller 102A1/4E-B/P/N in Innoduct nozzle 3800 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 m<sup>2</sup>  
Remote Control system, type Helicon X3

### Electrical power generation:

Hybrid shaft generator (HSG)	2220 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
Center trawl winch	1 x 56 tonnes
Net drum	1 x 46 tonnes-20 m <sup>3</sup>
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  
Approx. 60 tons per 24 hours, in 2 automatic HPF, 3 VPF and 1 IQF tunnel.

### 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:

Palletized cargo in cargo hold  
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 t – 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  
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 23 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 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*

