

NVC 375 WP STERN TRAWLER



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.

DESIGN AND INTEGRATED SYSTEMS

Ship Design provides integrated system solutions for:

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

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KONGSBERG

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		81,80 m
Length between p.p.		75,60 m
Breadth mld.		17,00 m
Depth mld. to Main deck	appr.	7,30 m
Depth mld. to Shelter deck (trwl dk)		10,35 m
Scantling draught	appr.	6,80 m

Performance:

Service speed, departure ab. 16,0 knots

Capacities:

Freezing hold on 2 decks	Appr.	1650 m ³
Fish meal hold / Freezing hold	Appr.	690 m ³
Packing hold – main deck	Appr.	340 m ³
Fuel oil	Appr.	700 m ³
Fresh water	Appr.	230 m ³

Roll-Reduction system:

2 off passive roll-reduction tanks

Hybrid propulsion system:

Main engine, Bergen B33:45 L9P	5400 kW @ 750 rpm
PTI power electric propulsion only	1500 kW /0-1200 rpm
CP propeller in 1 nozzle	4000 mm
Max propulsion power	5400 kW @ 127 rpm
Gearbox type 950 GHC-SC600	

Manoeuvring system:

Tunnel bow thruster, type TT 1650 -	750 kW
Steering gear, type SR723 FCP-	412 kNm
Flap rudder, type Promas	13,8 m ²
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)	1 x 28 t
Net drum (26m3)	1 x 40 t
Sweep line winches	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
Auto mooring winches	2 x 6 t
Capstan	1 x 6 t

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.

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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.

