

built on trust™

TECHNICAL SPECIFICATION  
905 | **KONGSFJORD**

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**VARD™**  
a Fincantieri company

# TECHNICAL SPECIFICATION

## VARD 8 02

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<b>BUILT BY:</b>	Vard Søviknes
<b>OWNER:</b>	Havfisk
<b>YARD NO:</b>	905
<b>DELIVERED:</b>	January 2020
<b>DESIGN:</b>	VARD 8 02 Stern Trawler

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**KONGSFJORD** is a single-screw driven stern trawler with good sea keeping qualities, outfitted for semi-pelagic and bottom-trawling operations year round and with processing and cargo facilities for the catch.

The vessel is of VARD 8 02 design, a state-of-the-art stern trawler intended to further enhance cost-and-production efficiency and promote environmentally friendly operations in the fisheries industry. With a high focus on quality of catch, safety for crew and sustainable operations, the vessel has the newest and most efficient technology for bringing the catch ashore with minimum environmental footprint. The vessel has a high ice classified hull, Silent F compliance, efficient engines and deck equipment, and modern living quarters for the crew.

The trawler features an advanced fish factory, two separate cargo holds for refrigerated and frozen fish, and a freezing capacity of 80 tons per 24 hours. The catch handling is improved with a live fish tank, keeping the fish in healthy condition until processing and storing of catch in low temperature to maintain the premium quality of the fish. Head and guts will be stored in ensilage tanks and delivered ashore, ensuring that all biomass of the catch are utilized.

KONGSFJORD is one of the first stern trawlers with an integrated energy storage system, consisting of diesel mechanical/diesel electric propulsion and batteries. The energy storage system together with VARD's SeaQ Power Management System for power optimization in all operations, ensures low emission of carbon dioxide, NOx and noise. The system will be used in all operations; allowing fuel savings in trawling, transit and in harbor when offloading.

The technologically advanced vessel features frequency controlled large components, energy-efficient LED lights, and electrical winches, all connected to the SeaQ Power Management System.

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## MAIN PARTICULARS

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Length overall	80.4 m
Length between p.p.	73.8 m
Breadth moulded	16.7 m
Depth main deck	6.85 m
Max. scantling draught	7 m
Speed	16 knots

## CLASS

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1A1, Stern Trawler, E0, T-mon, BIS,  
Ice-1B (hull)

## ACCOMMODATION

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Accommodation and equipment for 25 person.  
10 officer cabins and 15 single cabins.

## CARGO CAPACITIES

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Cargo hold, freezer	1 825 m <sup>3</sup>
Combined freezer/refrig. hold	830 m <sup>3</sup>
Ensilage tanks	390 m <sup>3</sup>
Fuel oil	800 m <sup>3</sup>
Fresh water	195 m <sup>3</sup>
Receiving bins	90 m <sup>3</sup>
Deadweight	1 270 t

## MAIN MACHINERY

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Main engine, 4800kW, 60Hz, 750 rpm  
Aux generator, 1790kW, 60Hz, 1800 rpm  
Harbour and emergency generator, 540 kW,  
1800 rpm

## THRUSTER

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Tunnel thruster, 800 kW, 440V/60Hz, 1500 rpm

## MAIN PROPULSION

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Controllable Pitch, 4000mm, 5700kW

## DECK EQUIPMENT

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Midship crane, 1 off SWL 1T - 15m  
Aft crane, 1 off SWL 3,75 T - 16m  
Forward crane, 1 off SWL 3,75 T - 8m  
Tension winch, 2 off 6,4 kN  
PAL winch 1, 1 off 150 kN  
PAL winch 2, 1 off 160 kN  
Aux winch, 2 off 70/54 kN @ 32m/min  
Main winch, 4 off 350 kN  
Sweepline winch, 8 off 180/140 kN @ 31m/min  
Backstrap winch, 4 off 15 kN  
Net sounding winch, 1 off 34/28 kN  
Gilson winch, 3 off 200 kN  
Cod end/out haul winch, 3 off 160/127 kN @  
62m/min  
El. aux winch, 2 off SWL 1,5 T

## ANTI HEELING SYSTEM

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Anti heeling pump, 100 m<sup>3</sup>/h

## FISH FINDING EQUIPMENT

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Catch control  
Echo sounder  
Sonar

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### FISH PROCESSING EQUIPMENT

Fish processing plant  
Ensilage handling and processing equipment

### NAVIGATION AND COMMUNICATION SYSTEMS

Automatic Identification System (AIS)  
Long Range Identification Tracking system (LRIT)  
Voyager Data Recorder (VDR)  
Sound reception system  
Ship security alert system  
Bridge navigational watch alarm system  
DGPS navigator  
GPS heading device  
Gyro compass  
Auto pilot  
SeaQ™ Bridge  
SeaQ™ Communication

### ELECTRICAL SYSTEM AND POWER MANAGEMENT

SeaQ™ Integrated Automation System  
SeaQ™ Power Management System  
SeaQ™ Switchboards  
SeaQ™ Power Micro Grid Converter

### LIFESAIVING EQUIPMENT

Mob boat  
Inflatable life rafts  
Survival suits

### HULL

Steel hull built by Vard Braila

