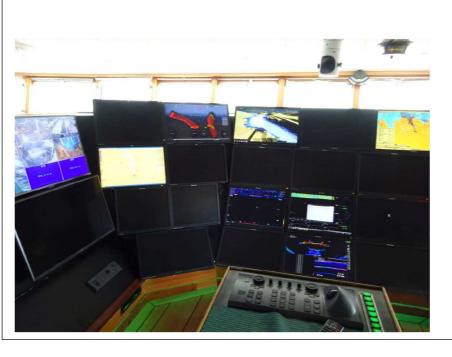


Traditional bridge environment







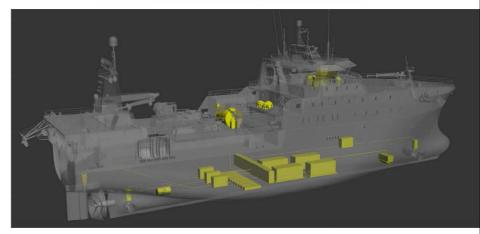


FISHMASTER ®



- ✓ SIMRAD Fish search & catch instrumentation
- ✓ Operation environment (Bridge equipment, Consoles and Multi-monitor solution)
- ✓ Navigation system (Radar and ECDIS)
- ✓ Propulsion, thruster and rudder control
- ✓ Integrated Automation System (IAS)
- √ Fish process control system (RSW, factory)
- ✓ Electrical Power Solution (K-Power)
 - ✓ Switchboards
 - ✓ Hybrid solution with batteries
 - ✓ Drives
 - ✓ El-motors
 - ✓ Power Management System (PMS)
- ✓ Winches and trawl control
- √ Vessel Management
- ✓ Remote Support





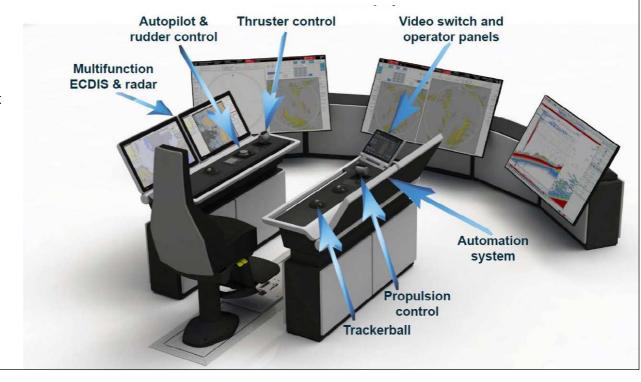
Operational efficiency



Consoles Electrical up/down/tilt

55" displays Split into 4 views

Commando control



Operation with 13" touch control panel (TCP)

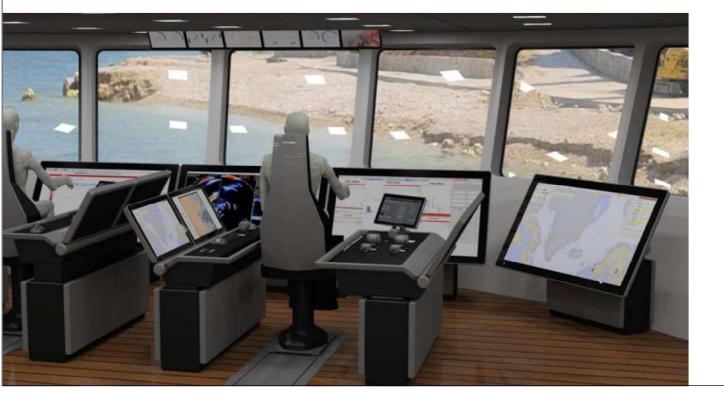


- ✓ Video-wall setup and selection
- ✓ Mode selection (transit, trawl, shooting, hauling, etc.)
- ✓ Common track ball for the video-wall
- ✓ Operator panels for all KONGSBERG/SIMRAD applications
- ✓ Common pallet changes / dimming
- ✓ Remote control for radio communication
- ✓ Application view with multi-touch for zoom functionality
- √ 2 x TCP for full redundancy



Forward bridge, two control positions





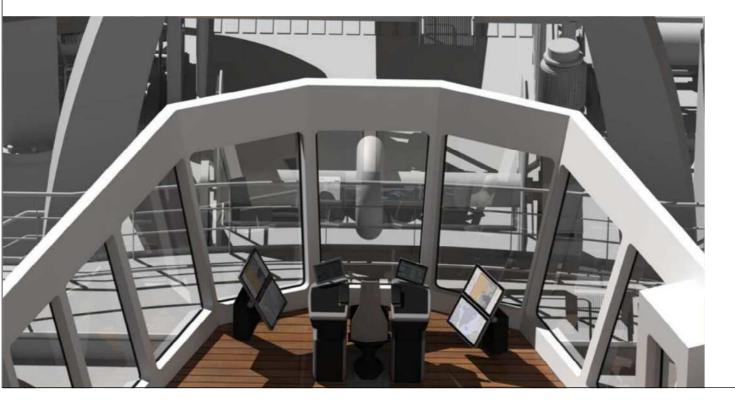
Forward bridge, two control positions





Aft bridge, winch and propulsion control

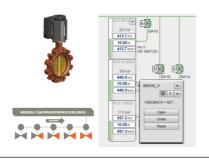




Automation system (K-Chief)

Alarm, monitoring, control and PMS

- ✓ Alarm system, E0 / UMS solution
- ✓ Control of all ships processes
- ✓ Control of navigation lights and window vipers
- ✓ Winch control and auto trawl functionality
- ✓ Propulsion, thruster and rudder control
- ✓ Power management system
- ✓ Tank gauging and monitoring
- ✓ Interface to fish-handling processes
- ✓ History storage / trending / report
- >2000 installed systems the last 4 years







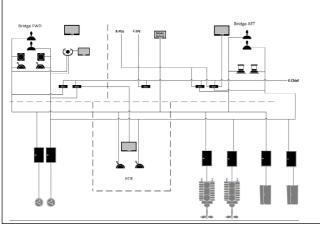




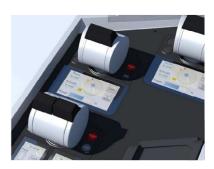
Main Propulsion, Thruster and Rudder control



- $\checkmark \quad \text{Same HMI for Main propulsion (RPM/Pitch/Combinator), thruster and rudder}$
- ✓ Easy command transfer from single button (forward, aft, bridge wings and ECR)
- ✓ Remote support, detailed overview and advanced diagnostic trough K-Chief (IAS)



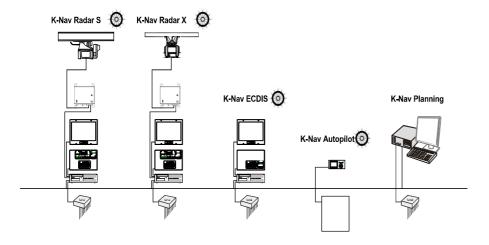






Navigation products







- ✓ K-Nav Radar
- √ K-Nav ECDIS
- √ K-Nav Autopilot
- √ K-Nav Planner

SIMRAD products



Search Evaluation Catch



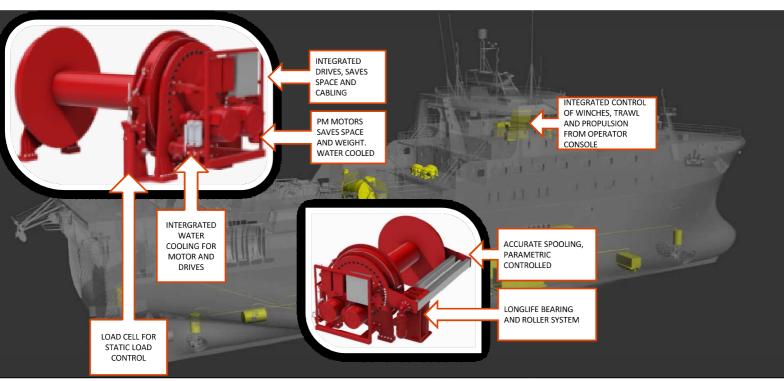
Fishing fleet management software





Winches, winch control and auto-trawl functionality





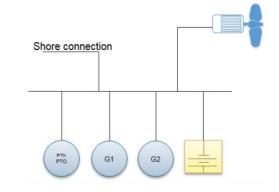
Energy solutions

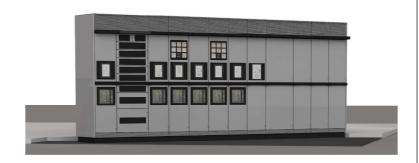


The electrical solution with shaft generator suitable to run with variable RPM supported by a small battery package will reduce the operational cost and bring the safety aspect to a new dimension.

Applications

- ✓ Variabel speed PTO, dynamic combinator curve to optimize the load and rpm on the engine
- ✓ Propeller boost from auxiliary generators
- ✓ Regeneration of power from trawl winches
- ✓ Blackout prevention
- ✓ Peak shaving
- ✓ Shore connection





FISHMASTER®



By combining vessel manoeuvring with fish finding equipment, winch systems, catch monitoring systems and energy handling into one concept the FISHMASTER® is a reality.











FISHMASTER® "Trawling in comfort"



Fishmaster is a unique fusion of functions and operator comfort for efficient fishery. The excellent capability of the sensor systems to find and identify fish is combined with the capability to manoeuvre and sail the vessel, all made simple by the advanced Human Machine Interface (HMI) based on large presentation displays.





KONGSBERG Maritime - Global customer support

"Follow the sun"

24/7/365





