



Integrated Automation System

A complete toolkit designed to enhance your vessel's operational performance, reliability and safety.



Høglund Integrated Automation System (IAS) is a highly flexible marine solution, designed to meet the complete range of automation and control tasks on board modern vessels.

Høglund automation platform is renowned for its advanced functionality, smart configuration and user-friendly operations, and our customers have played and still play a crucial role in its development.

The platform's modular and scalable design makes it suitable for systems ranging from a few hundred signals to several thousand. Høglund tailor-made engineering tools make it possible to take on any challenge and create customized automation solutions within a short timeframe.

Høglund's advanced Playback functionality for troubleshooting is included in all our deliveries.

Høglund IAS hardware is also modular and provides control hardware for alarm systems, process automation and safety systems.

The system supports both single and redundant controllers. Controllers or I/O modules can be added without affecting or compromising the vessel.

All units are 'Hot-Swappable' and 'Hot-Configurable,' ensuring a reliable and available system with very low MTTR (Mean Time to Repair) figures.

In summary, Høglund IAS is an ideal choice for diverse maritime automation needs. Get in touch!

Høglund IAS

- Alarm & Monitoring
- Automation & Control
- Power Management
- Ship Performance
- Safety & Shutdown
- Playback & Data Capture

System benefits

- Reliable HW
- User-friendly, flexible SW
- Low lifetime cost
- Remote online updates
- No hidden costs
- Playback for troubleshooting - unique in the market!



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Power Management System

All necessary functions to handle the power generation and main distribution on board all types of vessels.



Høglund Power and Energy Management System ensures that you can monitor, control and optimize the energy usage of your power generators.

From power management and blackout prevention to battery and hybrid control, our system is designed to ensure reliability and safety of your vessel.

Høglund PMS can be customized to fit all types of switchboard configurations, from diesel electric, to advanced mechanical / hybrid propulsion, combining main engines, shaft generators and clutch control.

No failure of a system component shall lead to changes in the system. In case of any loss of system components, no generators will stop, and no breakers open/disconnect.

The main parameters in the system are the number of generators connected, and the desired starting order of these. When these parameters are altered the system will automatically re-arrange the generators, breakers and other components, in order to facilitate the desired configuration.

Høglund aims to play the role of Power systems integrator, delivering complete hybrid power solutions, including all necessary electrical equipment, control and integration with other systems.

System functionality

- Load Dependent Start/Stop
- Power Limitation
- Pre-warning & Shutdown
- Mode Handling
- DC & Hybrid Switchboard
- Active Load Sharing
- Energy Management

