

# SHIPMASTER®

## Success story - Chemical Tanker Indra

Kockum Sonics delivers Cargo & Ballast Automation system SHIPMASTER® to Chemical Tanker "Indra" managed by LSC Shipmanagement.

Many vessels today have an inherent risk of not being able to maintain their automation systems. This was the case for Indra. The current system onboard was built around old technology (VME bus and UNIX Workstations). The systems was expensive if not impossible to maintain since many of the makers have stopped producing spares.

Kockum Sonics was contacted in order to provide a retrofit of the existing Cargo & Ballast Automation system (Kvaerner Eureka). Based on documentation sent from the vessel to Kockum Sonics a quote for a retrofit of the system was made. LSC Shipmanagement decided to keep most of the old instruments but decided to retrofit the INTAB fieldbus and the Kvaerner Eureka monitoring and control workstation. They also upgraded the old loading computer to Kockum Sonics state of the art LOADMASTER X5.

The system collects and presents data on screen and gives the operator full control of the deepwell cargo pumps, the hydraulic power pack as well as the hydraulic ballast pumps. The valves for cargo and ballast handling are remotely controlled and displayed on the SHIPMASTER® system. The level gauging system and the loading computer are connected to the system in order to provide full sensor data transparency.

Our strength is your benefit!

## SHIPMASTER® system capabilities

SHIPMASTER Cargo & Ballast Automation provides a complete overview and control of the loading and discharging of tanks. Pumps, valves and other equipment are easily controlled and monitored on screen from a SHIPMASTER PC and the dedicated operator keyboard. Graphical process views provide the operators with a full picture of gauging sensors, temperature sensors etc.

SHIPMASTER® is of course compatible with other KOCKUM SONICS products such as LOADMASTER® and LEVELMASTER®.

## Operational benefits

The following benefits can be derived from SHIPMASTER® retrofit:

- Minimum change of technology to secure end of lifetime maintenance.
- Modern software platform easily maintained by service engineers.
- No change in instrumentation.
- Minimal change in I/O modules.
- Transfer of major functionality
- Several workstations available
- Unlimited display units available

## Project Management

The entire system was developed in Malmö, Sweden and was installed during a yard stay. Kockum Sonics developed the system based on the documentation sent from LSC Shipmanagement to Kockum Sonics and the survey carried out by Kockum Sonics during the bidding period. The new system is fully modularised and makes for easy service and maintenance with readily available spares on a global basis.

*"The project went smoothly from end to finish. Kockum Sonics contacted us a few times in order to get hold of the necessary documentation. After that they carried out their work without drawing resources from our own in-house technical staff"*

Mr Vilnis Danilovskis  
Fleet Electrical Engineer  
LSC Shipmanagement.

Always ready to support you!

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