LOADMASTER X5

SHIP OFFICER’S CHOICE WHEN IT COMES TO LOADING COMPUTERS
LOADMASTER® LOADING COMPUTER OF PROVEN QUALITY

For decades now, the software engineers of Kockum Sonics have continuously developed and improved the industry renowned LOADMASTER® loading computer to arrive at the current X5 version. Through this long term commitment to research and development Kockum Sonics boasts a unique knowledge and capability base that has been built upon more than 9000 deliveries to date. Regular co-operation with naval architects, classification societies and ship’s masters ensures that all requirements are met be they theoretical or operational.

Today LOADMASTER® X5 has a user interface that is unparalleled in it’s user friendliness. It is designed to be simple enough for inexperienced users to operate yet it still provides a full range of powerful features for experienced users. With the Type Approved LOADMASTER X5 you will be in possession of the most powerful and versatile cargo planning and stability application available.

LOADMASTER X5 - COMPLIANCE AND CARGO PLANNING ALL IN ONE

Every LOADMASTER® X5 delivered contains at its core a base module that is packed with calculative tools that fulfill the mandatory stress and stability requirements imposed by the maritime authorities. So despite the name ‘Base’module any ship owner, yard or technical manager can be assured that with LOADMASTER® X5 they are ensuring compliance and good practice without dedicating critical procurement resources. The base module is also flexible enough to contain additional ship-specific mandatory tools such as in the case of bulk carriers where automatic checks are made against flooded holds as per the rules.

On top of the base module is the cargo planning suite that is tailored to incorporate all of the operational functions particular to that type of vessel. For example the LOADMASTER® Bulk package includes a powerful loading sequence simulation and an auto bulk cargo optimization tool that presents the officer with a number of loading proposals that aim to minimize the GM whilst concurrently complying with all stress and stability parameters and restrictions. In addition to this the bulk package incorporates a break-bulk planning tool enabling cargo to be easily imported en masse from a booking list significantly speeding up and increasing the accuracy of the hold space planning operation complete with port rotation. Thereafter, the complete planning file in the company livery can be exported either in hard or soft copy to ports, technical offices and surveyors as required.
SHIP SPECIFIC PACKAGES – IMPROVES YOUR CARGO HANDLING

General Cargo package – the deck plans are mapped into the software complete with obstructed areas allowing easy graphical loading via drag and drop. Cargoes can be loaded on a multi-level basis and can be corrected by clearance and stowage factor restrictions. The planning procedure can be greatly reduced by importing regular cargo load plans and by recalling stored cargo data from the library.

Container package – reduces planning time by enabling the planner to enter and edit containers individually or by group with all relevant identification details visually available. Time saving features allowing copying, swapping and moving are included as standard and instant alarms are generated if a box is misplaced or a stack’s weight is exceeded. Each stack is graphically presented allowing the user to easily define various POD / POL / IMDG data by colour coding for simple and quick reference.

Tanker Package – The officer can plan the tanker loading or discharging operation in a simple user friendly graphical mode when conditions are more relaxed. The simulation procedure is extremely simple to use whereby tank filling bars are merely drag and dropped until the most optimum and cost effective procedure is arrived at. All events and procedures are managed by the LOADMASTER® X5 to ensure that the vessel remains within all safe stress and stability limits throughout and subsequent work orders and reports are generated for action by the crew and surveyors. Simulation is an extremely valuable tool that reduces terminal turn-around time drastically, paying back its investment literally in a matter of hours.

Pure Car and Truck Carrier (PCTC) – With a long cooperation with the biggest actor in this PCTC segment the LOADMASTER® X5 can offer a program that fits the vessels demand as well as shore based organization. Kockum Sonics have a sophisticated interface that can be linked to the planning system used in port. The super cargo simply transfer a file via e-mail to the vessel and the same is read by LOADMASTER® X5. A special side view of the vessel gives instant overview of the loaded weights.

Livestock Carrier – LOADMASTER® X5 has the experince of calculating livestock cargo. The program is made for considering loading in individual pens, zones or as entire decks. Special weights such as water in trays, fodder and dung is entered by simple menas. External planning tools can be connected for automatic weight inputs. Numerous programs are approved by AMSA.
LOADMASTER - MODULE BASED

**Bulk package**
- Grain calculations complying with IMO grain code
- Timber calculation
- Flooded holds check according to IACS regulation S17
- Auto Bulk Cargo and Auto ballast distribution
- Loading/unloading sequence simulation
- OptiTrim. Trim optimization with full stability/strength check

**Tanker package**
- Online tank monitor with user defined set points and alarms
- Graphical sequence simulation and prediction
- Direct calculation of damage stability acc to IACS UR L5
- Cargo Administration covering all your reporting needs
- Built in pump log for multi grade operation
- OptiTrim. Trim optimization with full stability/strength check

**Offshore package**
- Anchor handling calculations
- Chain forces calculation
- Solid and liquid cargo calculations
- Report handling for discharged quantities
- Crane Program
- OptiTrim. Trim optimization with full stability/strength check

**LNG/LPG package**
- Online tank monitor with user defined set points and alarms
- Liquefied fraction calculation
- Vapour fraction Calculation
- Summary calculation
- Extended ullage report
- OptiTrim. Trim optimization with full stability/strength check
Member of Kockumation Group

KOCKUM SONICS

LOADMASTER - MODULE BASED SYSTEM FOR ANY KIND OF VESSEL

Container package
- Powerful and user friendly graphical interface for loading and discharging
- Dangerous goods module
- Edifact/Baplie translator
- Lashmaster lashing optimizer
- Booking list import and export
- Ballast exchange simulation
- OptiTrim. Trim optimization with full stability/strength check

Ro/Ro package
- Powerful and user friendly graphical interface for loading and discharging
- Drag and drop loading
- Loading plans and loading plans editor
- Manual or automatic import of booking lists
- OptiTrim. Trim optimization with full stability/strength check

Cruise package
- Easy dry weight input
- Ballast exchange module
- Report generator for oil on-board
- OptiTrim. Trim optimization with full stability/strength check

Offshore package
- Longitudinal/Transverse stability calculation
- Damage calculation according to MODU
- Riser/Mooring line tension
- Oil/Water interface calculation
- Crane Program

SYSTEM FOR ANY KIND OF VESSEL
Direct damage stability
Kockum Sonics can today offer an advanced direct damage calculation feature that fully complies to IACS URL 5 type III. The feature is type approved by all major classification societies. Our team of experienced naval architects can create full sets of damage conditions that reflect MARPOL as well as the ICB code. This competence ensures that LOADMASTER® X5 programs can be approved by LRS without external design company consultants.

OptiTrim
Maximum cost-efficiency is essential to today's marine operators and in parallel with this environmental responsibility is now a growing aspect of shipping. At Kockum Sonics one of our contributions is a brand new and unique LOADMASTER® X5 tool for maximizing fuel efficiency. Optitrim calculates the optimum voyage trim for any given displacement and also calculates how to achieve this actual condition whilst complying with all stress and stability limits.

Supply vessel anchor handling
It is well known that anchor handling off shore is complicated task and surrounded with numerous potential serious risks. Given this Kockum Sonics developed a special LOADMASTER® X5 package to simulate what effects anchor and chain weights plus any connected tow weights will have on the vessel in its current or future condition. This allows the crew to safely calculate the vessel’s limitations and to avoid any un-necessary operational situations.

Semi Sub heavy lift vessels
In close cooperation with masters and officers onboard a series of semi-submersible heavy lift vessels Kockum Sonics developed this feature. The LOADMASTER® X5 calculates any floating cargo and its shift to deck load through the semi-sub’s ballast operation.
KOCKUMATION GROUP
FOR YOUR ONBOARD OPERATION

Markets and designs high-quality niche products revolving around our core knowledge in software automation, acoustics and mechatronics.

The group focuses on meeting demanding needs in the world wide marine and industrial markets with a strong commitment to customer satisfaction.

KOCKUM SONICS  www.kockumsonics.com

Has built up an outstanding knowledge base and is always keen on new innovations. The marine product line consists of ship automation, loading computer, level gauging, ship whistle system and on board boiler sonic cleaning method.

POLARMARINE  www.polarmarine.se

Polarmarine has since the beginning developed tank cleaning machines for all type of vessels with the onboard operation in focus. Polarmarine can supply the ship owner a complete product range including full cleaning pattern but with a reduced time cycle and less slop.

TEXON  www.texon.se

Provides turn-key LNG automation solution packages. Combustion control system, burner management as well as boil of gas control is core knowledge. Texon Automation has over 30 years experience in newbuilding and retrofit projects.

OUR STRENGTH IS YOUR BENEFIT!
HEADQUARTER
KOCKUM SONICS AB
Industrigatan 39
P.O. Box 1035, SE-212 10 Malmö, Sweden
Tel: +46 (0)40 671 88 00, Fax: +46 (0)40 21 65 13
E-mail: info@kockumsonics.com

CHINA
KOCKUM SONICS, SHANGHAI OFFICE
2123 Pudong Da Dao 506, Dragon Pearl
Complex, Shanghai 200135, CHINA
Tel: +86 (21) 5885 2729, 5860 3661, Fax: +86 (21) 6853 84 00
E-mail: jamescao@sonicschina.net
Mobile: +86 13801876896

KOCKUM SONICS, DALIAN OFFICE
Room 502, Dalian International Hotel, No.9
Renmin Road Zhongshan Dist, Dalian, China.
PC: 116001
Tel: +86 (411) 82592769, Fax: +86 (411) 82590769
E-mail: henrywang@sonicschina.net
Mobile: +86 13998669526

RUSSIA
KOCKUM SONICS
14, Obvodny Kanal, RU-192019, St. Petersburg, Russia
Tel: +7 (8) 812 412 70 04, Fax: +7 (8) 812 412 70 04
E-mail: info@sonics.ru

SWITZERLAND
KOCKUM SONICS AG
Oberdorfstrasse 64, Postfach 448, CH-8600 Dürendorf, Switzerland
Tel: +41 044 820 31 91, Fax: +41 044 821 26 52
E-mail: info@kockumsonics.ch

UNITED KINGDOM
KOCKUM SONICS (UK) Ltd.
Unit 7, Leighton Industrial Park, Billington Road
Leighton Buzzard, Beds LU7 4AJ, United Kingdom
Tel: +44 (0) 1525 85 23 23, Fax: +44 (0) 1525 85 35 05
E-mail: sales@kockumsonics.com

www.kockumsonics.com