



C O N S U L T I N G & E N G I N E E R I N G

LifeCycle Services

engineering the future

Elomatic LifeCycle Services

The launching of a vessel is always a proud moment for shipowners, operators, shipbuilders and designers. For designers and builders it signifies the completion of job well done and for operators and owners the start of a voyage. At Elomatic we understand that one of the most significant costs of the investment lies ahead on the open seas.

Services for vessels' entire LifeCycles

Operating costs over the life cycles of vessels can be many times their construction and design costs. Our life cycle services target the whole life cycles of vessels, including the operational phase, where single digit efficiency percentage gains can generate vast savings during the vessel's life time.

Efficient information management

How can these efficiency gains be achieved? The solution lies in managing information generated during design and construction optimally and making better use of this information during the operational phase of the vessel. One solution is maintaining a 3D model of the vessel that contains all the required information. The 3D model for example contains links to system diagrams, maintenance instructions and scheduling along with the material, equipment and machinery information. Combining the vessel's maintenance system with the engineered ship 3D model produces a system that guarantees having the right information when and where it is needed without delay.

Efficiency gains and reduced errors

Modernisations and updates as well as everyday maintenance become much more efficient with an easy-to-access and easy-to-use 3D model that stores information digitally. Cost and time consuming errors are also eliminated, stock levels can be optimised and time in dry docks reduced. Easy to use materials can also be produced for crew and maintenance training.

Smart and efficient
Information Management
solutions for a vessel's
entire life cycle

Reduced operational costs
Reduced time in dry docks
Facilitated modernizations
Increased & sustained ROI

Vessel information users



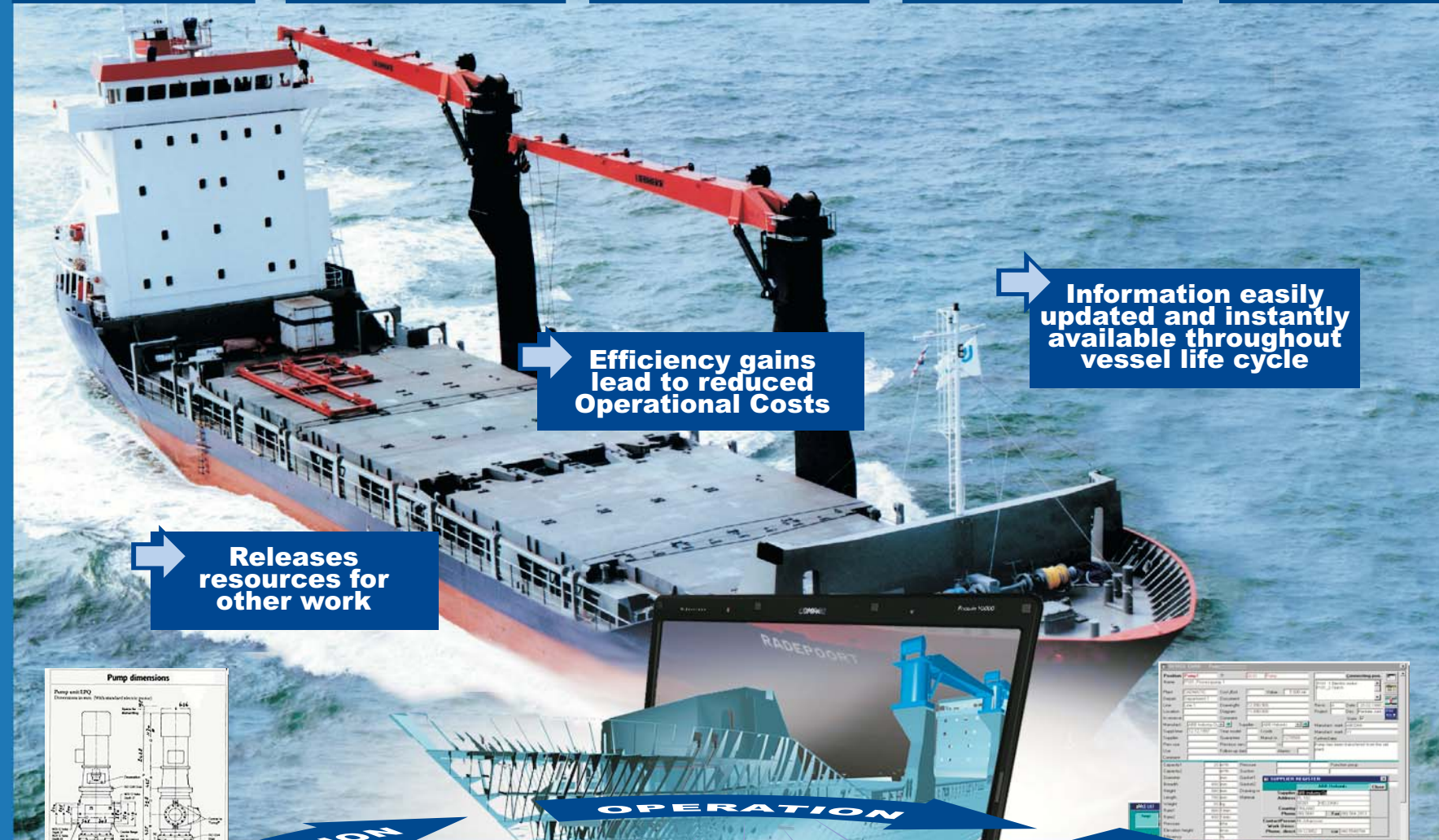
SHIP DESIGNERS

SHIPBUILDERS

SHIPOWNERS

SHIP OPERATORS

MAINTENANCE



Efficiency gains
lead to reduced
Operational Costs

Information easily
updated and instantly
available throughout
vessel life cycle

Releases
resources for
other work



Vessel information
stored and maintained
in 3D model

SYSTEM
DIAGRAMS

SPARE PARTS

MAINTENANCE
INSTRUCTIONS

MAINTENANCE
SCHEDULES

MACHINERY &
EQUIPMENT DATA

Comprehensive list of Services

Studies and engineering work

- Feasibility studies
- Onboard inspections and surveys
- Laser scanning – creation of 3D models and drawings
- Design and engineering for modernisation projects, classification and detailed design
- 2 and 3D visualisation and animation of arrangements, functions, spaces
- Architectural modelling
- Update of arrangement drawings, system diagrams, instructions etc.
- Update of mandatory documents; fire control plans, escape plans etc.
- Supply of updated safety documents, laminated or framed
- Weight checks and inclining tests, up-dating of stability booklet. NAPA calculations

On site support

- Supervision of refit and conversion work
- Act as Owner's representatives for new-buildings and conversions in project engineering and supervision tasks
- Provide as built documentation in conversion projects (on site)

Information management and maintenance

- Creation and maintenance of equipment and document database
- Creation and up-dating of information for maintenance systems
- Creation and updating of technical information and equipment specifications
- Creation, maintenance and up-date of 3D models, drawings and system diagrams
- Information management in 3D model
- Information management using the Shipdex protocol
- Transfer of information to maintenance systems for new-buildings and existing ships (e.g. to Amos, SAP)
- Maintain modernization history
- Supply safety and other training material based on 3D model





Consulting, Engineering and Software Professionals at Your Service

Elomatic is a leading Scandinavian consulting & engineering company and a global software provider. Over seven hundred Elomatic engineering professionals work within the mechanical, process, energy and shipbuilding industries. Software development is focused in 3D plant and ship design under the brand Cadmatic.

Elomatic has four offices in Finland, an office in Poland, Russia, Serbia and China as well as a joint venture in India. Elomatic is a globally operating, privately owned company and has clients in over 70 countries around the world.

Throughout Elomatic's history, spanning from 1970, establishing and maintaining long lasting and close relationships with our customers have been the solid foundation for our success. Earning our customers' trust and confidence and giving them the best that engineering can provide will continue to be our guiding values in the future.

We are happy to provide you with more information regarding our comprehensive range of services. We are confident and ready to serve you.

Offices in Finland

Headquarters

Elomatic Ltd.
Itäinen Rantakatu 72
20810 Turku, Finland
tel. +358 2 412 411
info@elomatic.com
www.elomatic.com

Helsinki

Vernissakatu 1
01300 Vantaa, Finland
tel. +358 10 395 7600

Jyväskylä

Kangasvuorentie 10
40320 Jyväskylä, Finland
tel. +358 14 446 7111

Oulu

Teknologiantie 14 B
90570 Oulu, Finland
tel. +358 10 395 7522

Seinäjoki

Yrittäjätie 12
60100 Seinäjoki, Finland
tel. +358 20 775 1440

Software development

Cadmatic Ltd

Itäinen Rantakatu 72
20810 Turku, Finland
tel. +358 2 412 411
info@cadmatic.com
www.cadmatic.com

International Offices

China

Elomatic Co., Ltd
Room 707-709, No.75
Jinsha Road, Jiading District,
Shanghai, 201800, P.R. China
tel. +86 13816407788

India

Elomatic-Pharmalab Consulting
& Engineering Pvt. Ltd
27, Kiroli, Sahney Kirkwood
Compound, Ground Floor,
Vidyavihar (W) Mumbai
400086, India
tel.+91 22 2511 6145

Poland

Elomatic sp. z o.o.
Beniowskiego 5, build. B2,
80-382 Gdansk, Poland
tel. +48 58 554 66 55

Russia

% Konsu SP (ZAO)
Shpalernaja Ulitsa 54
St. Petersburg, Russia 191915
tel.+7 812 118 84 27

Serbia

Elomatic d.o.o.
Metohijska 33
11000 Beograd, Srbija
tel. +381 11 383 73 38



www.elomatic.com



Elomatic has been
ISO-9001 quality
certified since 1991



Elomatic is member of
the Finnish Association of
Consulting Firms (SKOL)