## SHIPSHAPE

# **LODIC**

# Intelligent ship design

۲

The SHIPSHAPE Ship Design software system by Lodic is the perfect solution for companies looking for a tool to handle hydrostatics and stability evaluations, feasibility studies, concept design projects, preparation of stability booklets and loading manuals and more. SHIPSHAPE will handle all kinds of floating structures, and has been used to evaluate objects ranging from emergency beacons to floating bridges, from fishing vessels to concrete offshore platforms.

### Easy to use

SHIPSHAPE is a fully integrated system comprising all functions and advanced features in one single program. The system is made by Naval Architects for Naval Architects, and is thus structured and logical in its approach to vessel modelling and project database building. Comprehensive reporting options and graphical features ensure a clear and concise presentation of the project vessel.



۲



Due to the ease of use and intuitive input and modelling features, SHIPSHAPE is also popular with universities, marine colleges and educational institutions.

### **Fully modular**

SHIPSHAPE is sold in a range of different configurations according to the client's requirements, ranging from the basic skeletal hydrostatics functions to the full version including all modules & capabilities. Independent of the configuration, all modules & functions are integrated in the same program.

 $\Theta$ 

۲



۲



### **Advanced features**

۲

SHIPSHAPE naturally offers all the advanced functions you would expect to find in a design program – and a host more. A selection might include:

- Emergency Response / Salvage version

   full 360 degree heeling angle range, ground reaction forces, hull girder strength definition, residual strength calculations after damage, cargo outflow
- Advanced stability features: Probabilistic damage (SOLAS), crane vessel / loss-of-load criteria, HSC2000 Code, MODU code, user definable criteria sets, seabed modelling for barge grounding, grain loading, etc
- Progressive flooding / cross-flooding calculations

- Resistance and propulsion module for project evaluation or parametric studies
- Light weight estimation function for early design studies / concept evaluations
- Grounding / beaching function
- Launching
- Grain stability

۲

• Concept design module with multi-parametrical optimization of ship dimension based on technical, operational and economic criteria



### 

### LODIC AS

P.O.BOX 1273 - Pirsenteret N-7462 Trondheim - Norway Phone: (47) 73 83 17 34 Fax: (47) 73 83 17 35 Email: lodic@lodic.no www.lodic.no

