



# Principles of Yacht Design

By Lars Larsson, Rolf Eliasson, Michal Orych

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**Principles of Yacht Design** By Lars Larsson, Rolf Eliasson, Michal Orych

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*Principles of Yacht Design* is the authority on planning and creating your desired yacht. Inside you will find all the essentials, including:

- Design methodology and considerations
- The yacht's specifications
- Hull geometry, including lines plans and computer aided design (CAD)
- Hydrostatics and stability in waves and calm
- Hull design
- Keel and rudder design
- Sail and rig design
- Balance
- Propeller and engine characteristics
- High-speed powerboat hydrodynamics
- Hull construction considerations for sail and power
- Rig calculations
- ISO standards for dimensioning
- Cockpit, deck, and cabin layout
- Weight calculations
- Design evaluation, performance prediction, experimental techniques, and computational fluid dynamics

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#### About the Author

**Lars Larsson** is a naval architect and professor of hydrodynamics at Chalmers University of Technology in Gothenburg, Sweden. Larsson is president of Flowtech International, a company specializing in hydrodynamic software for ship design. Visit [www.flowtech.se](http://www.flowtech.se) for more information.

**Rolf Eliasson** is a yacht design/construction engineer who has seen more than 5,000 yachts built from his designs. Eliasson is one of the forerunners in using computer techniques for yacht design and the evolution of new designs.

**Michal Orych** is a PhD student in naval architecture and works with Larsson at Flowtech International AB.

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