



DIGITAL SOLUTIONS

NAUTICUS™ MACHINERY

Propeller Blade

Calculate strength capacity for propeller blade and perform tunnel thruster analysis.

Nauticus Machinery - Propeller Blade helps you improve propeller design by calculating lifecycle and safety against fatigue damage in propeller blades and tunnel thrusters, taking the ice class into consideration.

The calculation methods are based on DNV GL Rule Pt. 4 Ch.5 Sec. 1 (normal class requirements and safety factors), DNV GL Rules Pt.6 Ch.6 Sec. 1, 2 and 5 (ice class requirements and safety factors), DNV GL Class Guidelines 0039 (detailed method on how to assess minimum safety factors) and DNV GL Class Guidelines 0041 (requirements to ice strengthening of propeller). The software contains estimation functions to provide default values such as design pitch, thrust force, fatigue strength and so on.

Benefits

- Based on DNV GL's extensive experience with propeller design
- Easy-to-use rule check tool with efficient and user-friendly user interface
- Supports ice class calculation according to the latest ice class rules
- Ability to import results from FEM-calculations
- Printout of calculation results and export to Microsoft Word