

SERVICES

- ✓ Engineering
- ✓ Inspection
- ✓ Trouble Shooting

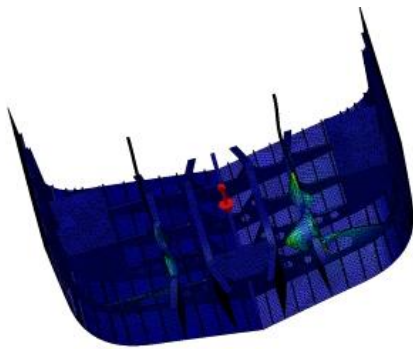
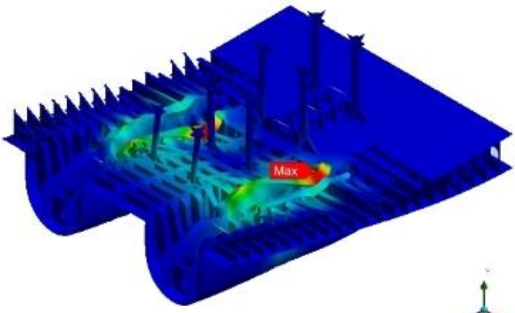
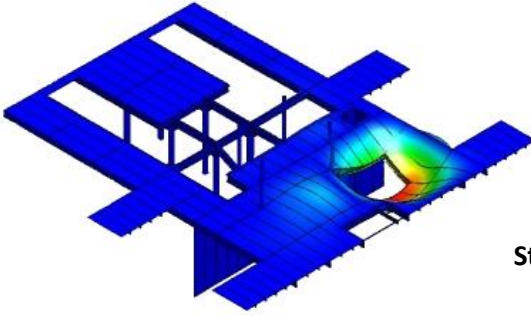
Creates "SILENCE" in your world...

Local Structural Vibration Analysis

ANV Teknik LTD. provides to customers integrated design and engineering services in Maritime / Offshore, Shipbuilding, Yacht building projects of different types and size. Our range of services starts from the concept idea.

Our analysis covers:

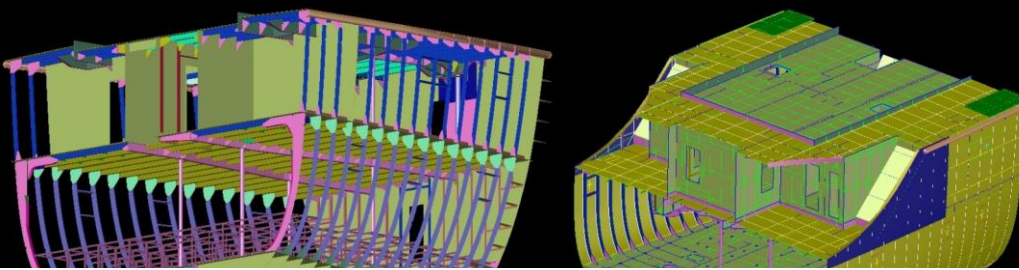
- Definition of appropriate design frequencies
- Reasonable assumptions (boundary conditions, mass application)
- Advice regarding the most cost-effective modification proposals



Typical Local Structural Models

Structural Optimization and Analyses

- ✓ By using FEA method related to natural frequency analysis, structural is being analyzed and optimized to achieve comfort class vibration levels
- ✓ To avoid resonance and annoying vibrations **Finite Element Analysis are essential to be carried out** prior to the construction stage
- ✓ With increases in vessel size and speed, vibration levels become a significant concern in the design and construction stages.
- ✓ Excessive vibration is to be avoided for passenger comfort and crew habitability.
- ✓ In addition to the undesired effects on humans, excessive vibration may result in the fatigue failure of local structural members or malfunctioning of machinery and equipment.
- ✓ The propeller induces fluctuating pressure on the surface of the hull, which induces vibration in the hull structure.
- ✓ These pressure pulses acting on the ship hull surface above the propeller are the predominant factor for vibrations of ship structures are taken as excitation forces for forced vibration analysis.
- ✓ Ship structures are complex and may be analyzed after idealization of the structure. Several simplifying assumptions are made in the finite element idealization of the hull structure.



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