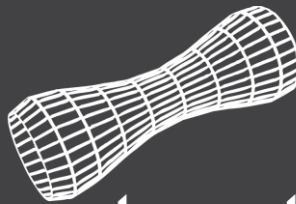


aquasim

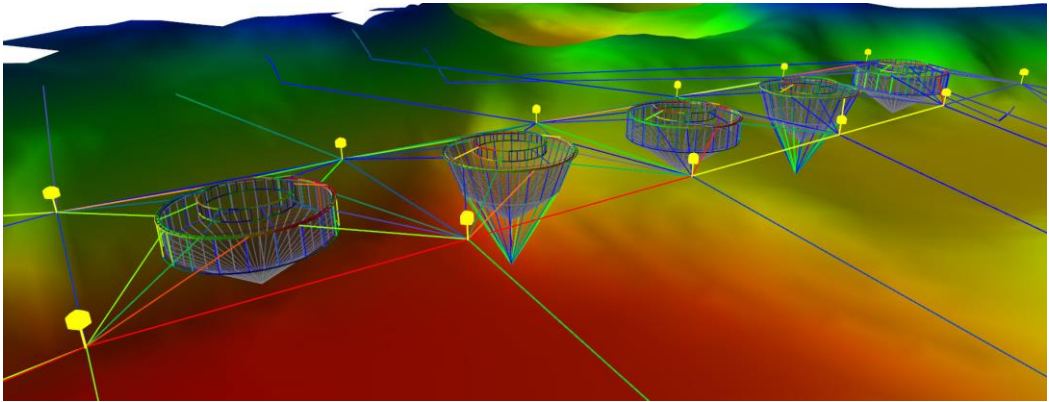


SAFETY THROUGH TECHNOLOGY



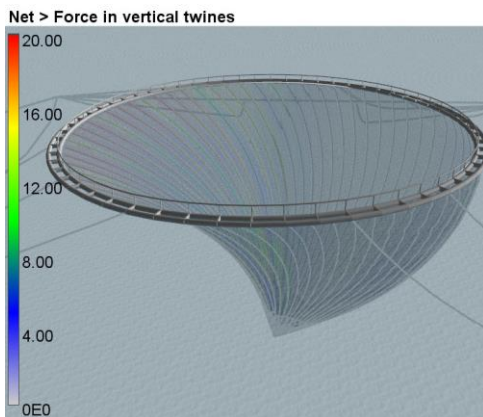
aquastructures

aquasim

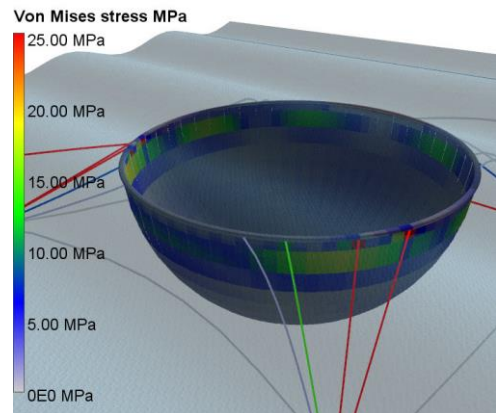


AquaSim is an analysis tool developed by **Aquastructures**. The software calculates impacts on marine structures subject to different types of loads. Typical loads are current, wind, waves and loads caused by marine operations. **AquaSim** is applied by companies working with aquaculture equipment, as well as companies operating in the oil and gas industry. Typical applications for **AquaSim** are mooring analyses and other structural analyses, net analyses and analyses of marine operations.

AquaSim is a cutting-edge analysis tool for flexible constructions and is based upon many years of research at the Norwegian University of Science and Technology (NTNU) in Trondheim. The development of **AquaSim** started when the industry demanded analysis tools providing possibilities to simulate constructions deforming heavily when subjected to current, waves and wind.



Net analyses



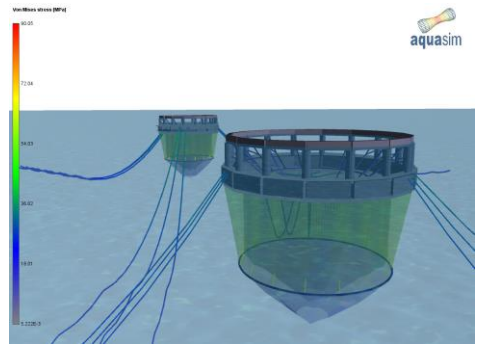
Impermeable net

Most mooring- and structural analyses related to the Norwegian aquaculture industry apply **AquaSim**. In **AquaSim**, one can easily construct a numerical model with mooring systems, floating collars and nets, in a graphical interface. **AquaSim** has the possibility to simulate nets made from nylon or other plastics, with or without lice skirts. Analyses can also be performed on canvas- and shell structures, or other solids of e.g. steel, concrete or glass reinforced fiber.

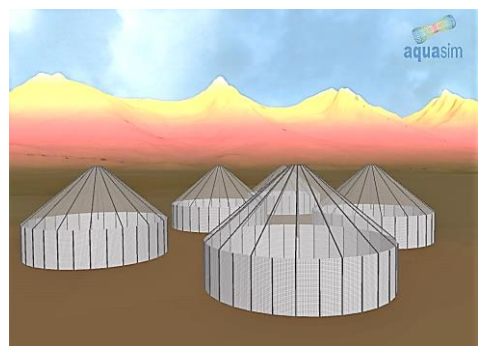
Typical areas of use:

- Mooring analyses
- Global analyses
- Towing and lifting operations
- Marine operations

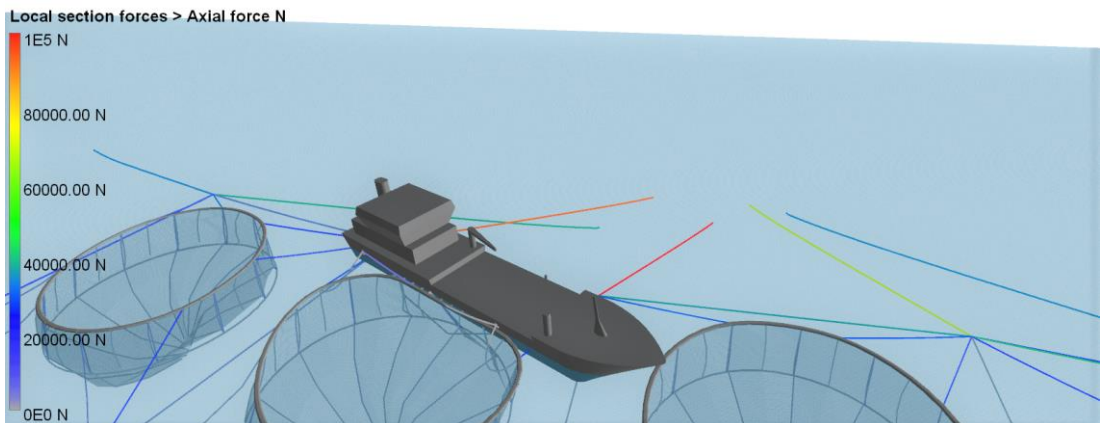
In addition, **AquaSim** can be applied for a variety of other purposes, where it is desirable to visualize forces in structures.



Global analyses



Shell structures



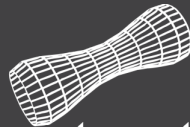
Operations

AquaSim performs time domain simulations and calculates the interaction between stiff and flexible components of different materials, cross sections and elasticity. It is therefore an ideal tool for analysis of flexible plastic structures or stiff steel structures. **AquaSim** has been verified through several analytical studies, as well as model- and full-scale experiments.

Aquastructures AS is Norway's leading supplier of engineering- and certification services to the aquaculture industry.

We also own and develop the analysis tool AquaSim, which is used for calculations and visualization of mooring systems, marine operations, structures.

We provide mooring analyses, product certification, certification of aquaculture facilities, site surveys and engineering services.



aquastructures

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