

CPC 3.0

Cargo Planning and loading Computer



Within the newly developed CPC 3.0 the user interface allows the users to adjust hull shapes, appendices and cargoes to any desired shape or size. These shapes can be combined into the main hull file. This hull definition can be used for finite element calculations to accurately determine the actual loading condition. For the loading condition the GZ curve and downflooding angles can be calculated.

3D-model

The user interface has a real-time 3D engine allowing the user to quickly assess the current loading condition. This makes it easy to further fine-tune the actual loading condition to optimize the operation. 3D modification of current hull shapes, appendixes and cargoes further brings reality closer to engineering by assessing 3D challenges with a practical engineering guidance during the operation.

Loading condition

The users can easily access the modular tabs of CPC 3.0 adjusting tank levels and loading special cargoes on the defined hull shape. Additionally, CPC 3.0 is outfitted with a 3D crane module. This presents the user with the possibility to simulate a real life heavy lift operation by making a real time or step by step analysis. This analysis will be accurately calculated using finite elements.

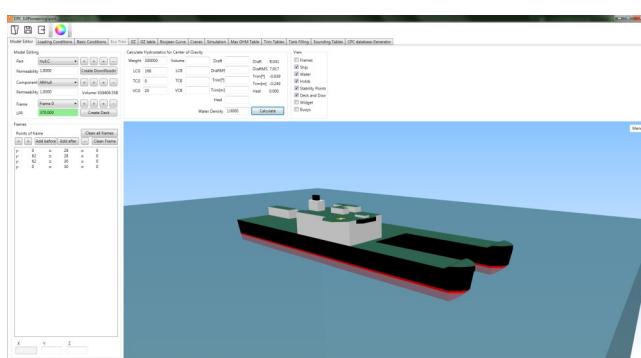
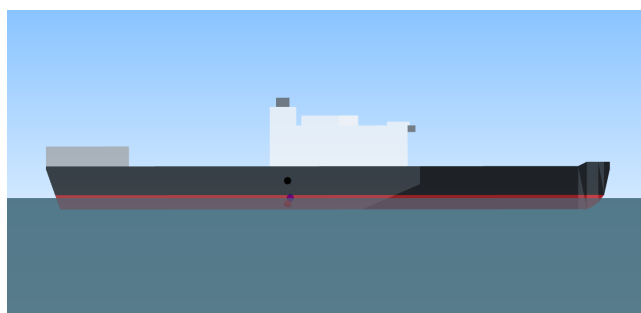
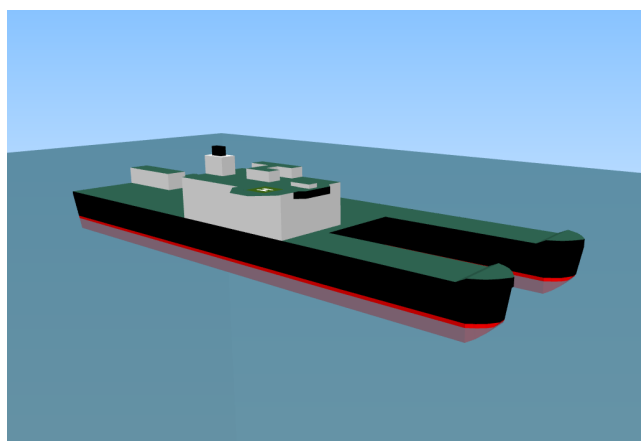
Real time simulation

A simulation can be run to check the stability of the vessel in varying conditions. This can be used to simulate the different sea states that can be encountered during a voyage. The resulting motions have been verified using model tests.

Validation of the model

The model that was imported or created can be validated by comparing the results of the calculations to the loading conditions in the stability book.

This simplifies the creation and validation of the model that will be used for the calculations.



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