



# CPC 2.0 RoRo-module

## HMC's Cargo planning & loading computer (CPC) with integrated RoRo-module

In its 27 years of existence the independent engineering firm HMC always has had a high standard for technological improvement and development. HMC invests every year a significant part of her time and effort in research & development of the products and services delivered.

### CPC 2.0 RoRo-module

A specialized module for RoRo ships is available, enabling deck officers to manually enter rolling and driving cargo on multiple decks simultaneously. This module is specialized for RoRo ships. And enables a common RoRo type vessel to efficiently load within 1-2 hours and increases the onboard safety in the mean time.

### Increasing safety on board

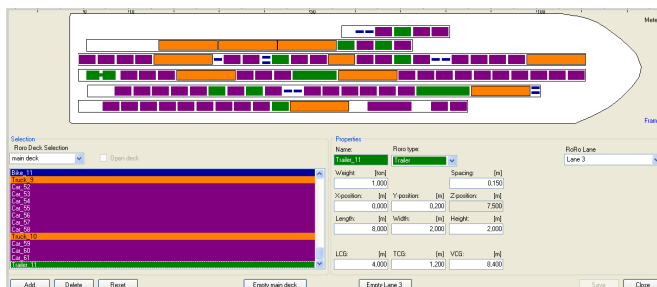
During the development phase of the RoRo-module a number of aspects have been taken into account when it comes to increasing the safety management on board. During calamity of RoRo ferries:

- Direct transfer of stability data which is entered at one of the decks.
- Transfer of stability data from ship to shore.
- The master will be informed directly by the loading computer which is connected to the handheld computers on each deck.
- Adjusted operator interface to swiftly assess the current loading conditions and handle adequately.
- Knowledge of vehicles location, size and weight during calamity.
- Establish a portfolio of voyages in the past and present for internal review.

### Reducing operational costs

While increasing safety on board was our main goal, we strove to reduce the economical consequences caused by delays of loading and discharging from which the following specifications were derived:

- Enter vehicles on site within CPC 2.0.
- Direct data transfer to the bridge which allows the officer on watch to adjust the ballast condition so the operation will not be hampered.
- Adjust weights, dimensions and positions on deck.
- Direct data transfer from ship to shore to verify the stability condition with the office.
- Synchronize several handheld computers with one cargo planning & loading computer.



### Additional options RoRo-module

- Possibility to deliver the system without wireless connection replaced by a docking station.
- Combine RoRo-module with the damage stability module of CPC 2.0 to increase the ability of assessing and resolve the situation correctly.