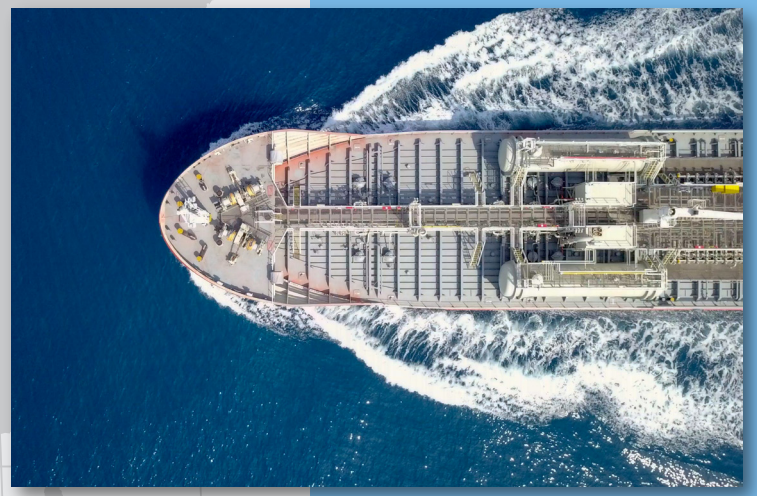
PrimeShip
Total Ship Care

HULL

Ship Structure Design Support System



Key Features

- ◆Comply with IACS CSR
- ◆Comply with the comprehensive revision of Part C of the ClassNK Rules
- ◆Intuitive UI/UX
- ◆Automation/Workload reduction
- ◆Versatility with respect to ship type
- ◆Data linkage with NAPA Designer

PrimeShip-HULL is a ship structure design support system for strength assessment based on Part C of the ClassNK Rules and the IACS CSR.

PrimeShip-HULL has an intuitive UI/UX (User Interface/User Experience) that makes the software easy for anyone to use as well as a menu structure that follows the operation flow and a video help function. In addition, PrimeShip-HULL features automatic processing functions and a linkage function with the 3D ship design system of NAPA. PrimeShip-HULL strongly supports the efficiency improvement of the ship design process.

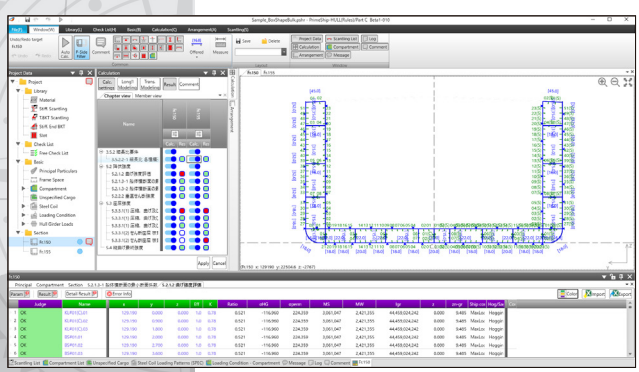
Composition of PrimeShip-HULL

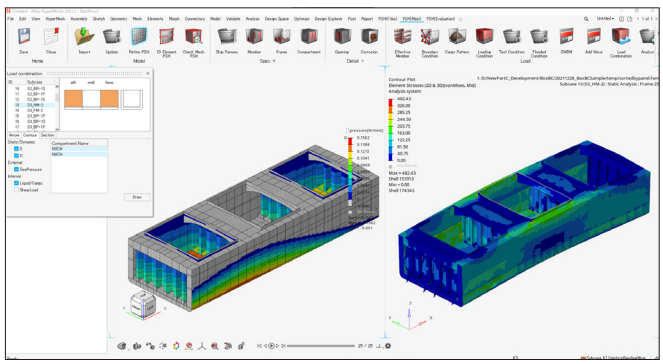
◇Prescriptive Analysis Software

It is possible to evaluate the strength of the input cross sectional data using the prescriptive rule requirements for longitudinal strength, local strength, strength for primary supporting structures, fatigue strength, etc. as specified in the rules. It is equipped with a highly flexible modeling function and a highly transparent calculation function that allows you to check all calculation parameters and results instantly.

◇Direct Strength Analysis Software

It is possible to evaluate the strength of cargo holds and full-ship analyses using the finite element analysis (FEA) specified in the rules. Simcenter is used as the platform, and various design support functions, such as automatic load generation and sensitivity analysis, enable efficient design review and optimization.





ClassNK

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Intuitive UI/UX

A unified and visual intelligible UI design with a menu structure that follows the operation flow enables intuitive operation, allowing users to smoothly proceed with their work. In addition, the system is equipped with a help function that allows users to check the operation procedure via video, making the system easy to use by anyone.

Automation/Workload reduction

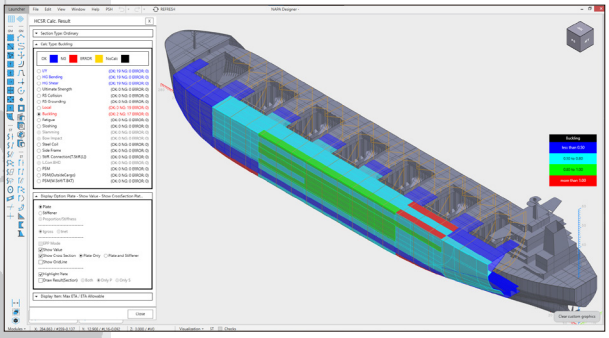
Primeship-HULL features automatic calculation and report generation. Furthermore, the specially developed mesh partitioning algorithm for ship design based on the finite element method (FEM) enables complicated tasks such as creating very fine meshes required for fatigue strength evaluation to be performed automatically.

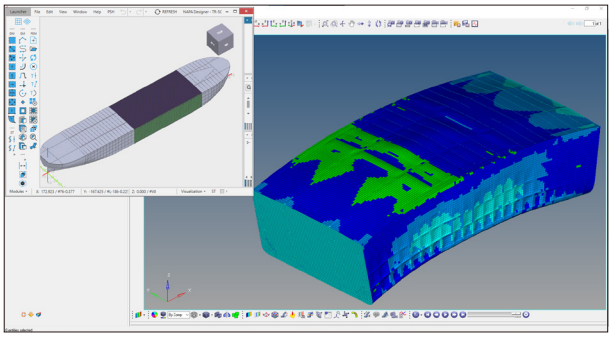
Versatility with respect to ship type

By consolidating separate systems for each ship type, it is possible to model and evaluate various ship types with the same operability, thus greatly contributing to the reduction of the training time needed to become proficient at using the software.

Data linkage with NAPA Designer

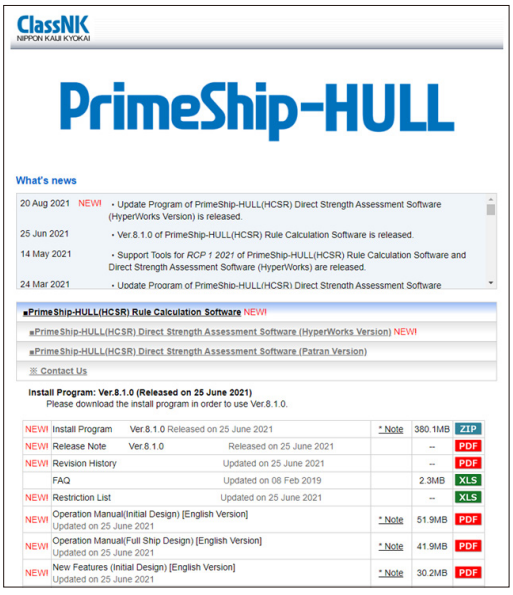
3D models created in NAPA Designer can be imported directly into PrimeShip-HULL, enabling seamless execution of rule calculations of prescriptive analysis and direct strength analysis. In addition, model changes on PrimeShip-HULL based on calculation results can be reflected in NAPA's 3D model, greatly reducing the person-hours required for data linkage and making more accurate data linkage possible.





Superior support

A dedicated support desk is available to quickly resolve any operational questions. In addition, information such as update files are available on the support page.



Contact address : PrimeShip-HULL Support Desk
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