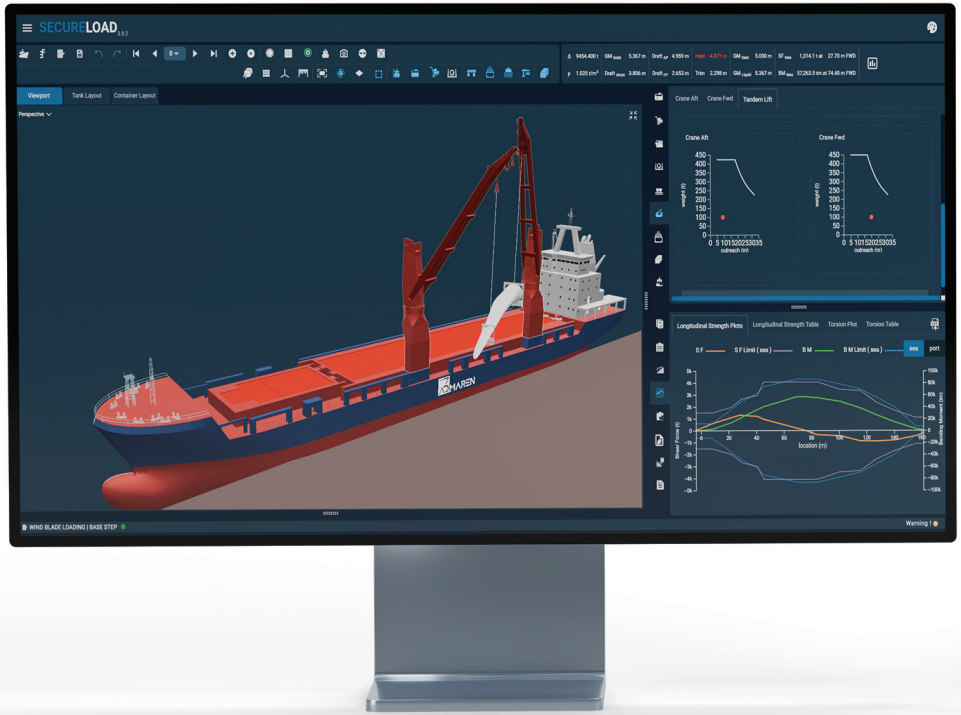
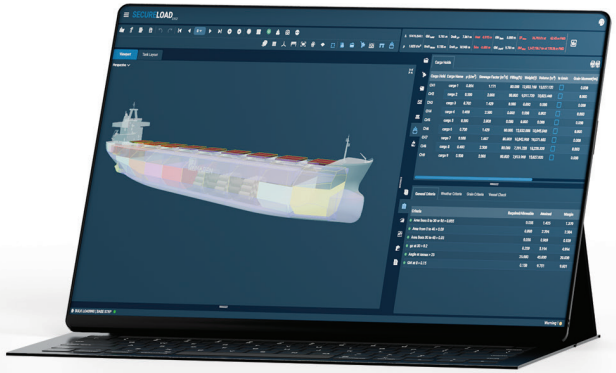
SECURELOAD





REVOLUTIONISING VESSEL LOADING

Your all-in-one **Web-Based Loading Computer & Stowage Planner**

Discover the next-generation loading computer and stowage planner with SecureLoad, a game changing solution in the maritime industry. SecureLoad goes beyond traditional boundaries by offering a geometry-based stability solver combined with cutting-edge 3D interaction on the web.

SecureLoad stands out by integrating an optimisation algorithm and an intuitive user interface. This powerful combination transforms complex ballasting operations into straightforward, accessible tasks, even for those without a technical background. Step into a world where simplicity and efficiency redefine your ship-loading operations.

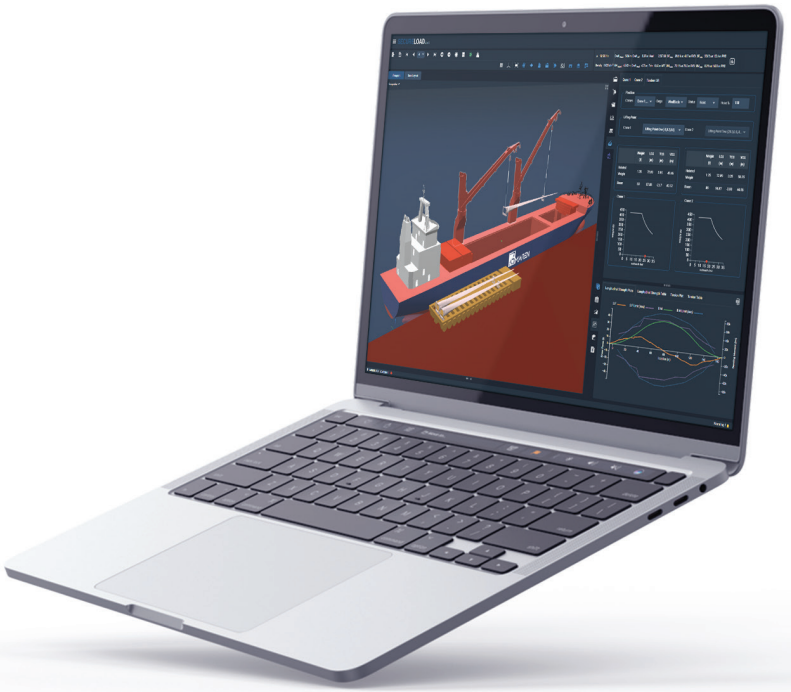
SecureLoad enhances your fleet with two distinct versions: the **On-Board Version** and the **Office Cloud Version**.

On-Board

Fully offline-capable, the onboard version runs on the vessel's internal network without needing internet access. It supports secure, real-time use from any onboard device—desktop, tablet, or mobile—making it ideal for at-sea operations, planning, and inspections.

Cloud

SecureLoad's Cloud-Based Office Version revolutionises vessel loading and stowage planning with real-time collaboration and online accessibility. It offers robust multi-vessel management for improved fleet oversight and automatic updates, keeping users at the forefront of maritime technology.



Who **Benefits**

Port Captains

Features like 3D cargo model, collision detection, and DXF export make it ideal for port captains to create executable stowage plans.

Naval Architects

Our optimisation algorithm streamlines hydrostatic calculations by simplifying ballast distribution calculation, reducing iteration and monotony.

Chartering Manager

Cloud access allows managers to check vessel cargo loadability before fixing, simplifying decisions without crew input.

Heavy Transport Engineers

Allows engineers to oversee ballasting from the quayside using any device connected to the vessel's local network.

Ship Owners

Ship owners can share hydrostatic models of their vessels with charterers & consultancies, avoiding new model creation.

Vessel Crew

An ideal tool for crew, providing access to the loading computer from any device on the vessel's local network or Wi-Fi.

Why **SECURELOAD**

In a world driven by AI and automation, maritime operations remain hindered by outdated loading systems developed over 30 years ago. These legacy tools lack modern features like 3D interaction, real-time collaboration, and digital twin readiness—creating inefficiencies and operational blind spots. SecureLoad ends this stagnation.

It is the only geometry-aware, cloud-native loading platform designed to meet the needs of modern shipping: digital twins, 3D cargo, smart ballast, collaborative workflows, and live feedback.

Web Based

Experience the ultimate convenience of web-based software – no installations, real-time access, and multi-user functionality from anywhere.

Physics Assisted 3D

SecureLoad delivers browser-based interactive 3D with gravity and collision detection for a realistic, physics-assisted cargo simulation environment.

Step- Based Workflow

SecureLoad streamlines marine operation simulations with a step-based workflow within a single worksheet. One Screen Handles all operations step by step

Advanced Ballast Calculation

SecureLoad simplifies ballast calculations with its optimisation algorithm, making them accessible and reducing the time required.

Mesh-Based Cargo

3D cargo geometry offers detailed data and computational parameters, enhancing the accuracy and precision of your cargo planning.

Cargo Template Library

Our pre-defined cargo templates simplify load case configuration, removing the need to import or model cargo geometry each time.

Multi-Vessel

Manage multiple vessels from a centralised platform, maintaining a single source of truth.

Real-Time Collaboration

Multiple users can simultaneously access and edit a worksheet, enhancing team collaboration.

Role-Based Access Control

Role-based access secures data management, ensuring vessel geometry's single source of truth and ownership.

Third-Party Integration

API service facilitates sensor integration and effortless connection with external tools and systems.

Latest Features & Updates

Cloud-based office version auto updates users with the latest features, eliminating manual updates.

Long-Term Support

Experienced team committed to innovation and customer satisfaction, offering exceptional long-term support.

MODULES

General

General Modules are designed to be the fundamental elements of our software. These core modules can be utilised by anyone to meet their specific requirements. Whether managing a fleet or handling a single vessel, our modules provide a versatile and user-friendly foundation for all your loading and stability needs.

Basic

Calculation of intact stability & longitudinal strength with a complete overview of results, curves & criteria.

Ballast Distribution

Ballast distribution module determines the optimum tank filling levels to achieve the desired loading conditions.

Online

Loading computer can be connected to receive real-time data from the tank sensor system.

Trim Optimisation

Optimises fuel consumption by fine-tuning the floating condition that meets the stability criteria.

Damage Stability

Damage cases assessment using direct methods.

Hoppe Ballast Control

Ballast Automation powered by Hoppe Marine GmbH, Germany, the market leader in floating dock control and automation of ballast operations.

Cargo Planner

Enhance your stowage planning capabilities with SecureLoad's Cargo Planner Modules. These add-on modules are ideal for users who need advanced functionalities in cargo planning and management.

Packing List

The AI Packing List Processor reads packing lists in various formats (Excel, PDF, image), automatically extracts key cargo details, enables user mapping and validation, and exports clean, structured data for efficient planning.

3D Cargo Configurator

Visually configure detailed 3D cargo models with custom meshes, dimensions, and defined lifting/lashing points. Pre-configure arrangements within CTUs for optimized virtual stowage planning.

Cargo Acceleration & Lashing

Calculate dynamic forces on cargo using IMO CSS/DNV rules. Define lashings and the system evaluates resulting forces, verifying securing adequacy per established guidelines.

DXF Exporter

The DXF Exporter generates standard DXF files from the virtual stowage plan, perfect for producing detailed, industry-compliant technical drawings and seamless integration with external CAD systems.

Vessel Specific

SecureLoad provides various custom-built modules catering to multiple vessel types. These modules address your vessel type's specific characteristics and requirements, ensuring precision and compliance in every operation.

General Cargo

Module for loading and distribution of general cargo and configuration of hatch covers, tween decks and bulkheads.

Grain/Bulk Cargo

This module equips the system to assess the stability of a vessel loaded with bulk cargo or grain.

Crane

Intended to simplify cargo loading with single or tandem crane operation modes and perform associated stability calculations.

Container

The container module supports IMDG-compliant, efficient container positioning and BAPLIE data exchange.

Load-In Load-Out

Module to handle calculations considering the varying tide, moving cargo and vessel pump capacity.

Float-In Float-Off

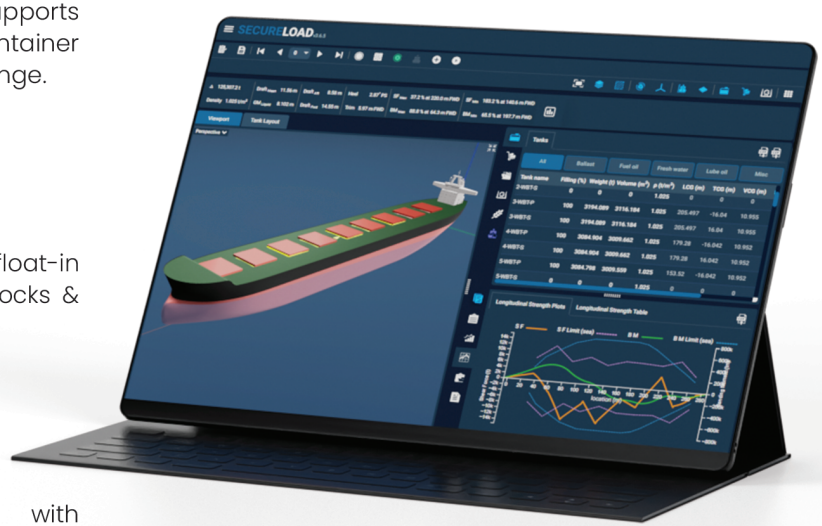
Calculation & simulation of float-in float-off operations for floating docks & semi-submersibles.

Tanker

Calculates precise cargo volumes in tanks by correcting for temperature-related density and volume changes, ensuring accurate ullage reporting.

DNV Stowlash

Perform lashing calculations with SecureLoad's integrated StowLash, seamlessly meeting rigorous industry standards for compliant and safe cargo securing.



Coming Soon
NEXT GEN MODULES

What we are working on

We are constantly pushing the boundaries to ensure our stowage planning solution remains at the forefront of the maritime industry. Our current focus involves integrating cutting-edge advancements in Artificial Intelligence and Digital Twin technology. By harnessing these technologies, we're making stowage and cargo operations dramatically more efficient and user-friendly. Our aim is to deliver a future-proof platform that simplifies planning and empowers users like never before.

Voyage Intellingence

Optimize voyage planning and vessel performance with advanced Voyage Intelligence. Perform detailed seakeeping analyses to predict ship behavior under various sea conditions. Utilize comprehensive hindcast weather statistics to assess historical weather patterns for precise route planning. Employ frequency domain hydrostatics to evaluate vessel responses and maximize operational safety and efficiency

Auto Stow Optimisation

Using AI, Auto Stow Optimisation generates efficient stowage plans, optimizing space while respecting operational and safety parameters. It navigates the complex interplay of factors like hold shapes, cargo dimensions, spacing, deck pressure, supports (dunnages), and ballast distribution. This ensures vessel stresses (bending moments, shear forces) stay within safe limits, enabling automated planning of complex stowage with reduced manual intervention.

Structural & Safety Modules

Enhance cargo integrity and vessel safety with our comprehensive Structural and Safety Modules. Define detailed 3D lashings for general and container cargo, analyzing effectiveness via integrated, industry standard STOWLASH calculations. Visualize complex FEA stress results directly on the stowage plan to identify load hotspots. Additionally, incorporate live deflection sensor data for real-time structural monitoring and validation, providing unparalleled operational awareness.

Immersive Planning

Seamlessly bridge virtual design and physical execution. Project detailed 3D stowage plans from SecureLoad into the real world using AR/MR for crucial on-site verification of clearances, positioning, and potential clashes, boosting operational safety. Complement this immersive experience with seamless workflow integration via dedicated plugins for major CAD systems, facilitating design refinement and data exchange.

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