

ShipWeight

AN EXCELLENT TOOL in the design and building process of complex floating structures



A STRUCTURE'S PERFORMANCE depends on the LightShip weight

ONE SYSTEM FOR ALL TYPES of floating structures

ShipWeight

Weight is the most important parameter in your design - so why be satisfied with less than the best for weight engineering?

ShipWeight is a tool for continuous, fast, and reliable weight estimation - starting in the early design phase until sea launching. The system is designed to give quicker and more accurate estimates, and more structured and secure monitoring.

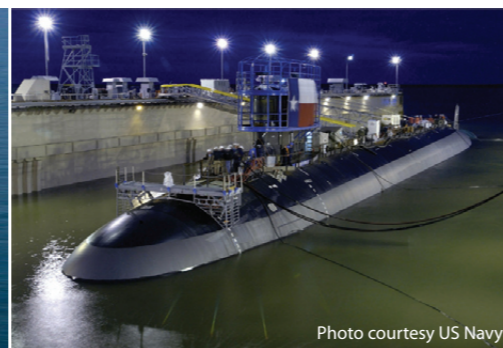
SALE AND PROMOTION ADVANTAGES

Good weight control routines are of *vital importance* to prospective customers.

shipweight.com

ShipWeight Features

- Estimation and monitoring of weight integrated in one system
- Statistical regression of historical weight data
- Systematic approach through weight group breakdown (WBS)
- Weight distribution values and curve, including export options
- Values for radius of gyration
- Successive calculations of uncertainty
- Standard and user defined weight reports
- Graphical view of weight data
- Importing weight data from Excel or ASCII sources
- Converting between English and SI units
- Equipment and material database
- Risk analyses
- Logging and tracking of change orders
- Visual check of Center of Gravity
- Standard and user defined weight calculation formulas
- Moving weight groups according to codes
- Compare data between projects
- Automatic mapping to SFI codes
- Permission control and login system
- Non-embedded Crystal Reports and Crystal Reports Viewer
- Report export to MS Excel, MS Word and PDF
- Up to 100 user defined code fields for tagging information to weight items
- Unicode compliant
- Automated value checking during data import
- 3D plot of weights
- Modular Weight Distribution Report
- Weight & CoG calculation of different loading conditions
- Hydrostatics calculation
- Estimation of deck cargo capacity
- Ballast calculation



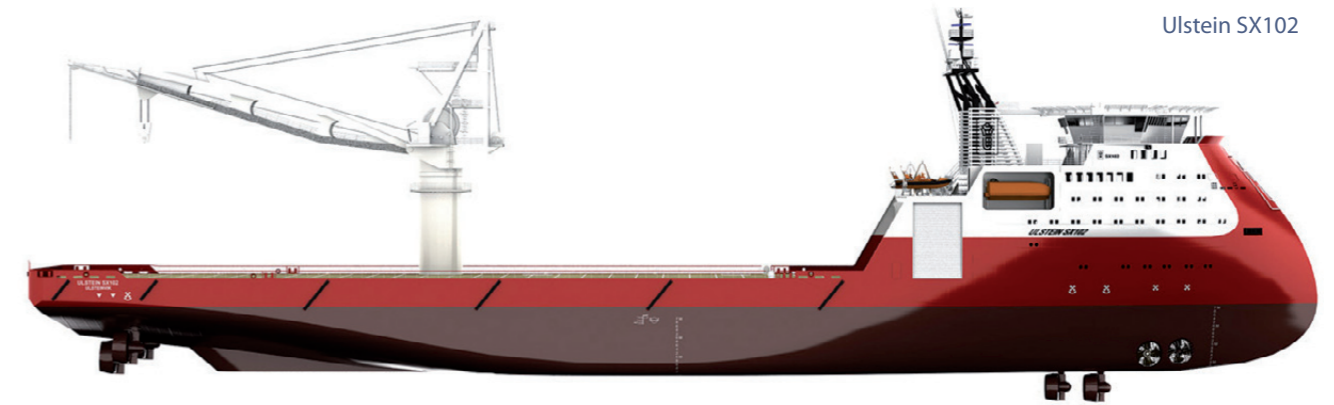
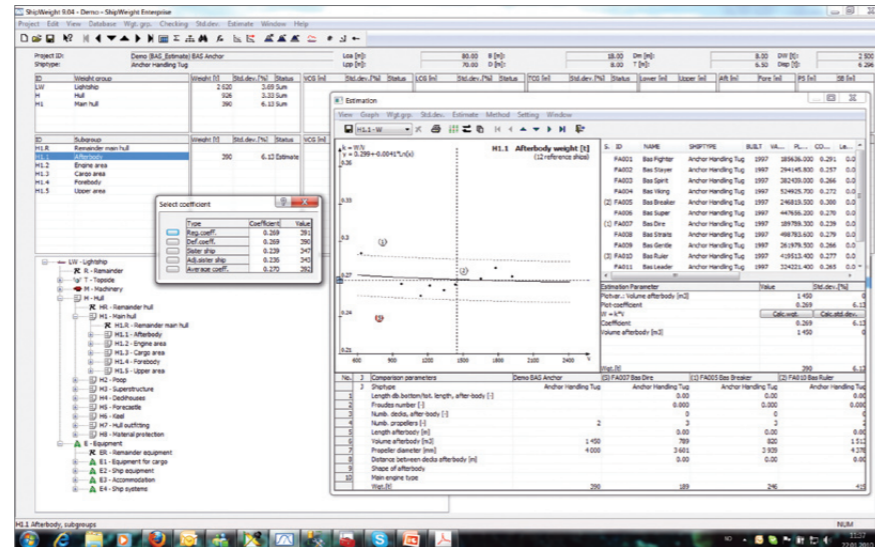
 ShipWeight

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The most Powerful Application for Weight Control

A vessel's performance depends on the LightShip Weight



Ulstein SX102

AVOID CONTRACT CLAIMS

To maintain and ensure important ship parameters such as deadweight, stability, speed, strength and seakeeping a reliable estimation of weight and center of gravity is important. Depending on the vessel type, one or more of these parameters can be crucially influenced by the weight, and a deviation between real and estimated weight can lead to reduced vessel performance. Significant deviation can result in rebuilding and late delivery of the vessel.

WEIGHT AND THE MARKET

In a low-margin market, reduced margins must be met with higher confidence in preliminary weight estimation and better weight control during the construction of the vessel. As the lightship weight often is the most important input for cost estimation, reliable weight estimation is also needed for competitive quotations.

A SCALABLE SOLUTION

ShipWeight can be implemented at any level ranging from a single user system using an Access database to a large multiuser system running on SQL server databases where information can be shared from any number of users and companies. The system can also be used from the early conceptual design phase and all the way until completion and delivery of the vessel.

ONE SYSTEM FOR ALL TYPES OF FLOATING STRUCTURES

ShipWeight can handle any type of floating structures, including all kinds of ships and offshore platforms. Estimation and monitoring can be done according to selected work breakdown system dividing the vessel into weight groups. The user can determine which groups are relevant for his vessel type. Both the English and the metric system are applied to a project and conversion between the unit systems is also easy.

STATISTICAL ESTIMATION APPROACH

Based on a statistical approach utilizing past ship data, ShipWeight can quickly and efficiently estimate weight and center of gravity. Regression is automatically executed on a relevant selection of past ship data, standard deviation is calculated for each weight group and successive calculations are used to obtain an uncertainty quantification of the total weight and center of gravity.

WEIGHT MONITORING

ShipWeight contains all necessary tools to perform weight tracking and monitoring. Numerous import and export functions are available, linking ShipWeight to all the major ship design software in the world. Several reports, both standard and custom made can be produced automatically. As-built weights can be compared to estimated weights and a range of user-defined codes can be tagged to each weight item.

A POWERFUL SYSTEM

In addition to handling both estimation and monitoring in a single integrated system, ShipWeight includes many general weight tasks, such as producing a longitudinal weight distribution curve, gyration values and risk analysis. After completing a vessel, the weight information from the monitoring process is exported to a past ship database and can be utilized when the weight of the next vessel is estimated.

THE USER IS IN CONTROL

ShipWeight is not a black box system. All calculations are controlled by the user, and the user can override any method, parameter or result at any level. All actions and decisions made by the user can be logged and all selections can be saved and documented.

IMPROVE FUTURE WEIGHT ESTIMATIONS

When the system is utilized in the course of systematically following up weight during the building phase, weights, centers of gravity and other parameters are recorded and structured in such a way as to provide an optimal basis of empirical experience for estimating weights and centers of gravity in subsequent projects.

