The variety of cargo types and the dynamically adjustable design of cargo hatches of a multipurpose vessel (MPV) pose special challenges for a loading computer.

Thanks to intelligent module collaboration, the MPV-specific MACS3 loading computer can be used to optimally load, unload and safely transport complex containerized and non-containerized break bulk, grain, roro loads and project cargo on board a multipurpose carrier in consideration of customizable tween decks and hatch cover handling.

Safety: The onboard MACS3 loading computer does not just cover a wide range of calculations related to hydrostatics, intact stability and longitudinal strength. The high-end instrument also offers advice on loading and stowage, ballast water distribution, ballast water exchange, damage stability and grounding scenarios.

Certificates: MACS3 is approved by the world’s leading classification societies. Ship crews and planners can rely on adherence of current IMO regulations, regular updates regarding dangerous goods, ship-specific lashing rules and the early adoption of new rules such as the IMO polar code.

Stowage: Due to the integrated mixstow module, the loading computer facilitates the best possible utilization of the vessel. Two- and three-dimensional visualizations of ships and their cargo also make it easier to optimally load them. Using the trop module for trim optimization, the planner is able to increase the ship’s utilization by stowing cargo instead of ballast water and assist to reduce fuel consumption.

MACS3 FOR MULTI-PURPOSE CARGO SHIPS

Approved by all major classification societies for stability, intact and damage strength and lashing calculations

Dangerous goods checks regarding the IMDG and IMSBC code indicating potential loading conflicts

Simulation of cargo operations: loading/unloading sequences, operations of onboard cranes

Two-and three-dimensional visualization of various vessel/cargo views

Integrated containerized, non-containerized and bulk stowage functionality

Trim optimization produced by the cargo itself and not ballast water

Service support: remote trouble shooting

Compliance with the IMO polar code
The onboard loading computer MACS3 is being used in a wide range of container vessels, multipurpose vessels, bulk carriers, tanker vessels, offshore vessels, roro vessels and passenger vessels.

Established in 1994, the ship library includes more than 4,500 ship profiles. For the container vessel segment, MACS3 holds a share of approximately 65%. More than 500 multipurpose vessels run their onboard cargo operations with the MPV version of MACS3.

If you have any questions or would like to set up an appointment with one of our sales representatives, please phone or e-mail us:

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