

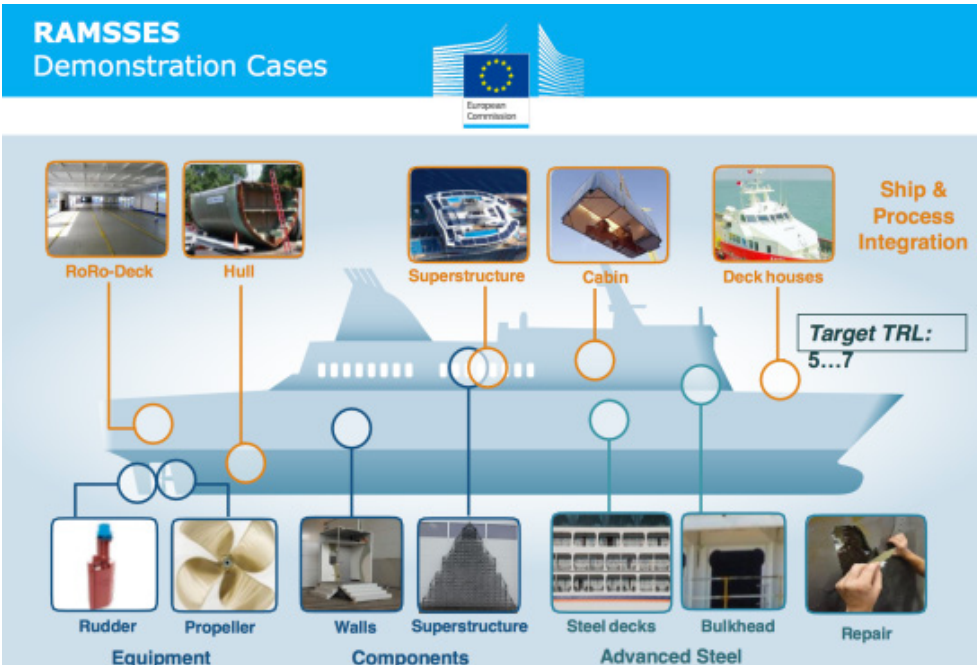


PROJECT SPOTLIGHT

SG300 Provides Its Strength at Scale to Project Ramsses: An 85 Meter Ship Built from Composite Parts

While this isn't the first time SG300 has been used to bond steel and composite parts, it is the first time it has been done with such large-scale parts while also using vertical injection technology.

The Project



Above: The Ramsses Project's demonstrator cases where the new materials will be tested against standard components with the goal to reach a Technology Readiness Level (TRL) of between 6 and 8 under reality conditions and on board. The project is sponsored and funded by the EU.

- At Damen Shipyard in Vlissingen, The Netherlands, The Ramsses consortium is constructing more sustainable and efficient ships through the research and realization of advanced composite materials that could lead to ships that are up to 50 percent lighter, reducing fuel use, greenhouse emissions and vessel draft.
- Along with their production partners, they are preparing "demonstrator" parts and will be testing and comparing them to current standard parts.
- As parts are completed, Damen and other partners are planning testing and assembly at the shipyard and on board.

The Technology

Going Large with Vertical Infusion

Building the ship of the future is no small task. Just one of its components--the huge, six meter high hull panels were successfully achieved through trials backed by the expertise of partners Airborne and InfraCore. They used their technology of sandwich-style structures and reinforcement materials, combined with a vertical infusion technology to make the panels a reality and ready for testing.

For its part, SCIGRIP representatives also worked with InfraCore and MVP dispensing equipment of CT Platon (flow and measurement specialists) to make sure the injection of SG300 was successfully executed for its bonding applications.

Contact us to learn more about using SG300 in your project. For more Ramsses project info, visit: ramsses-project.eu



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