

Fleet Integration with Digital Control of Stabilizers to Boost Energy Savings and Cut Emissions

Corsica Ferries Chooses Pinfabb POSEIDON to Renovate and Upgrade Stabilization Control Systems on Its Vessels

Corsica Ferries - Sardinia Ferries is a prominent Italian-French shipping company engaged in the maritime transport of passengers, vehicles, and goods across the Mediterranean Sea. The company operates routes connecting the ports of France and Italy with the islands of Corsica, Sardinia, Elba, Mallorca, and Menorca. The administrative headquarters are located in Bastia, Corsica, while the operational headquarters are in

Vado Ligure, Savona.

Dedicated to enhancing passenger comfort and reducing CO2 emissions, Corsica Ferries sought a solution to renovate and upgrade the stabilization control systems on its vessels. The partnership with Pinfabb was a natural and smooth match, as the Genoese technology company is renowned in the industry for its exclusive focus on the stabilizer market and its ECO system



Mega Victoria approaching Vado Ligure

POSEIDON4, the world's first Energy Saving Stabilizers Control system designed to optimize fin underwater drag and conserve energy.

The renovation program began with the Mega Andrea. Following a successful trial, the system was subsequently rolled out to Mega Express 2, Mega Express 3, Mega Express 4, Mega Express 5, and recently, the Mega Victoria stabilizers were also upgraded to POSEIDON4, while the two companies are discussing future retrofit as well for the remaining vessels.

Developed by Pinfabb Srl, Poseidon digital stabilizer control systems can be retrofitted on any type of stabilizers plant, regardless of the age or design of the existing system. Notably, among the upgraded vessels of Corsica Ferries are models from Sperry, SKF, and Mitsubishi. The POSEIDON4 systems electronically control each of them using the same hardware and software, adapting to the hydraulic and mechanical units existing on board. This significantly optimizes future spare parts needs and simplifies crew operations.

Following the installations and trials, Corsica Ferries expressed satisfaction with the boost that POSEIDON4 provided to their existing stabilizers, enhancing both stabilization efficiency and passenger comfort.

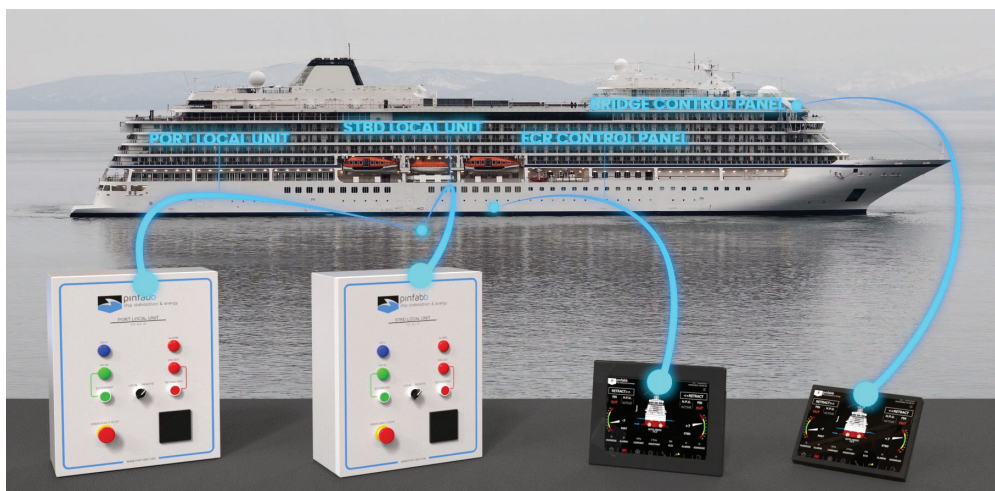
Furthermore, there are two key features that make POSEIDON4 the most advanced stabilizer system in the maritime industry:

1. Underwater Drag Reduction: The underwater drag of stabilizers is reduced by 40-50%, allowing for an average savings of 1-2% on propulsion energy.
2. Predictive Maintenance: The system enables predictive maintenance, allowing for the distribution of overhaul and maintenance costs over the years while keeping stabilizers running efficiently and cost-effectively.

Matteo Fabbriotti, CEO of Pinfabb, stated: "The cooperation with Corsica Ferries has been very positive. We are thankful to the Technical Department, which not only chose the system but also provided the environment to ensure the project's success. The idea that a fleet composed of different stabilizer models can be managed by a single optimized system is at the core of POSEIDON4's success across the entire industry."

For Francesco Ranise, Technical manager of Corsica Ferries, "the integration of POSEIDON4 represents a significant step towards modernizing their fleet, enhancing passenger comfort, and achieving substantial energy savings".

Poseidon also eliminates the stabilizers being a "blind



POSEIDON is designed for a fast and smooth retrofit installation onboard

spot" for the ship operator. Mr. Fabbriotti explains: "Stabilizers are typically used based on subjective decisions. Sometimes, they are deployed as soon as the ship leaves port, even in calm weather, or used sporadically. The shipping line previously couldn't provide guidelines or control their use. But our system's digital platform offers real-time understanding of the ship's movements, ensuring onboard comfort and automatic, independent stabilizer reactions aimed at energy savings and maintaining comfort. Different stabilization modes are automatically selected by the system based on external weather conditions and onboard comfort indices, all controlled smartly without human intervention."



Pinfabb engineer onboard Mega Victoria during system testing