BPS MARINE™
ULTRASONIC ANTIFOULING TECHNOLOGY

LASTAVICA CASE STUDY

LASTAVICA CRUISING

INTRODUCTION

The warm, nutrient-dense waters off the coast of Croatia create an aggressive breeding ground for marine bio-growth, posing a constant challenge to commercial charter fleets. For Lastavica Cruise Lines, maintaining their fleet of three 150-foot luxury yachts—including MS Lastavica, Excellence Nera, and Swallow—required a proactive solution to eliminate severe fouling issues on critical operational components.

Prior to treatment, heavy mussel colonization and algae buildup repeatedly clogged onboard raw-water cooling systems and sea strainers. Additionally, bio-growth on hulls, thrusters, propellers, and rudders increased hydrodynamic drag and required frequent, costly manual maintenance. To protect their fleet and ensure operational reliability, Lastavica Cruise Lines installed the BPS-8-24V 120-Watt Ultrasonic Antifouling System across all three vessels.



LOCATION: CROATIA

Operating out of Split, Croatia, the fleet navigates high-growth Mediterranean coastal areas. Extended stationary periods in warm harbor waters combined with high sunlight exposure make these vessels prime targets for rapid mussel settlement and algae accumulation.



REPORT LOG 1

Technicians strategically installed BPS-8-24V 120-Watt ultrasonic systems across each 150-foot yacht. Transducers were bonded directly to raw-water intake housings, sea chests, and strainers to prevent mussels and algae from adhering to internal surfaces. Additional transducers were placed along the hull and near rudder posts and propeller shaft lines, distributing high-frequency acoustic sound waves to prevent micro-organism attachment over all underwater surface area. Following continuous operation, physical inspections confirmed complete protection against bio-fouling across all internal cooling loops and submerged running gear:

- *Cooling Strainers & Piping: Transducers mounted directly to sea chests kept raw-water piping clear of mussel buildup, eliminating overheating risks.*
- *Hulls, Thrusters, Rudders & Propellers: Running gear and hull surfaces remained spotless, preserving engine efficiency and hydrodynamic speed without manual scraping.*









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PROJECT SUMMARY

This report documents the implementation of the BPS Marine ultrasonic antifouling system across the Lastavica Cruise Lines fleet of commercial charter vessels. Prior to treatment, heavy mussel colonization and algae buildup repeatedly clogged onboard raw-water cooling systems and sea strainers. Additionally, bio-growth on hulls, thrusters, propellers, and rudders increased hydrodynamic drag and required frequent, costly manual maintenance.
To protect their fleet and ensure operational reliability, Lastavica Cruise Lines installed the BPS-8-24V 120-Watt Ultrasonic Antifouling System across all three of their 150-foot vessels. The system was chosen as a proactive solution to eliminate severe fouling issues on these critical operational components.



REPORT LOG 2

The BPS-8-24V system provided Lastavica Cruise Lines with a reliable, continuous antifouling defense, ensuring long-term vessel performance and eliminating recurring maintenance downtime. Following continuous operation, physical inspections confirmed complete protection against bio-fouling across all internal cooling loops and submerged running gear. Hulls, thrusters, rudders, and propellers remained spotless, preserving engine efficiency and hydrodynamic speed without the need for manual scraping. The installation resulted in 100% bio-fouling elimination.



TEST BOATS:

The vessels selected for this fleet-wide installation are three 150-foot luxury yachts: MS Lastavica, Excellence Nera, and Swallow. Operating as commercial charter fleets, they face aggressive marine bio growth challenges that require proactive solutions to protect critical operational components and maintain operational reliability.

CUSTOMER TESTIMONIAL:

***"I'm so grateful to all of you, because the equipment is absolutely fantastic. We haven't had any problems at all compared with previous years, and it has made a huge difference** for us"*

