GAT Group

BPS MARINE
ULTRASONIC ANTIFOULING TECHNOLOGY

RIVA 132 CASE STUDY

BY GAT GROUP & BPS MARINE

INTRODUCTION

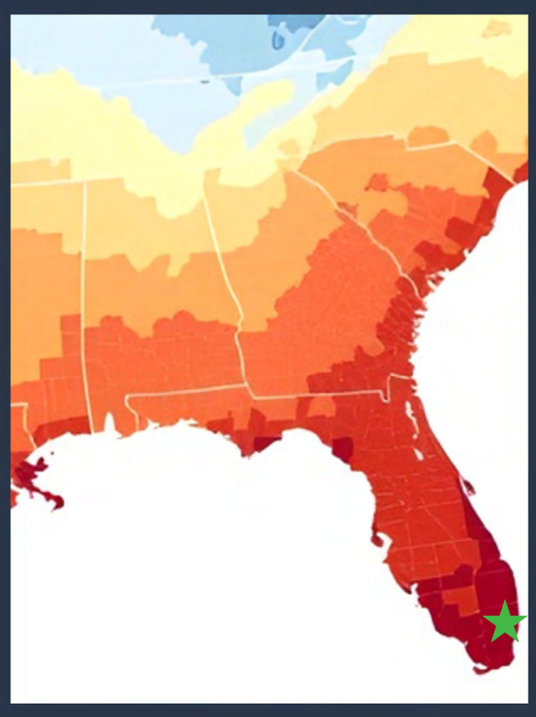
The demanding marine environment of Ft. Lauderdale, Florida, known for its aggressive bio-growth, presents a significant challenge for large yacht maintenance. To protect a 132-foot Riva superyacht from this accelerated fouling, BPS Marine engineered and installed a comprehensive ultrasonic antifouling solution. This case study details the customized application of our system on a large-scale hull and analyzes its real-world effectiveness.

The report validates the system's ability to maintain a clean hull, optimize performance, and significantly reduce the need for traditional, costly haul-out cycles in a high-fouling environment.



LOCATION: FT. LAUDERDALE

The study is being conducted in Ft. Lauderdale, Florida, a premier global yachting destination. Its tropical climate provides intense, year-round sunlight and consistently high water temperatures. This environment, combined with the nutrient-rich waters flowing through the Intracoastal Waterway and its proximity to the Gulf Stream, creates an exceptionally aggressive bio-fouling zone that poses a constant, year-round challenge for vessel maintenance.

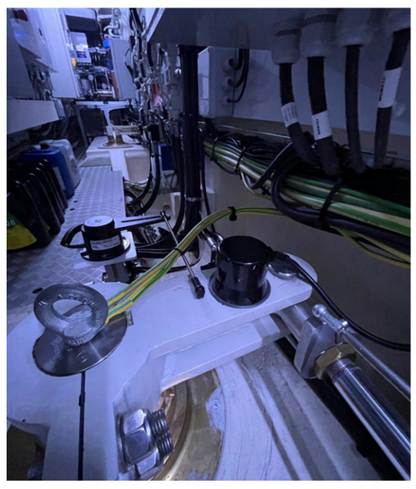




REPORT LOG 1

The installation took place on October 28, 2024, while the 132' Riva was hauled out for scheduled maintenance in Fort Lauderdale. This provided the ideal window for our technicians to install two BPS Marine PRO-8 systems. A total of 16 transducers (eight per PRO-8 system) were strategically mapped and mounted inside the hull to ensure complete ultrasonic coverage for a vessel of this scale. The system's two controller modules were then installed in a protected, central engineering space with convenient access to the vessel's main power supply.







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PROJECT SUMMARY

This report documents an 8-month field study of the BPS Marine ultrasonic antifouling system on a 132-foot Riva superyacht. The study was conducted in Ft. Lauderdale, Florida, a premier location notorious for exceptionally aggressive marine fouling due to its warm, nutrient-dense tropical waters.

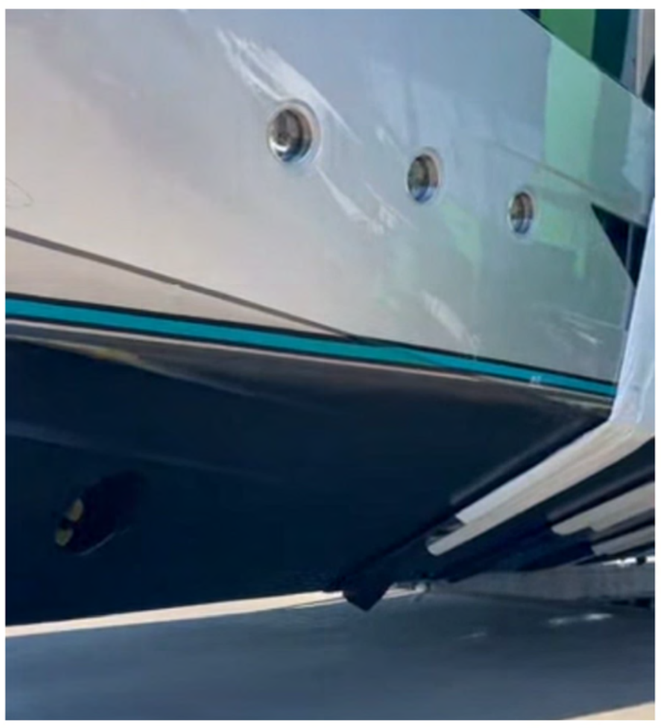
The BPS Marine systems were activated when the vessel was launched in late 2024, and the yacht remained in the water continuously for eight months with no additional hull cleaning or maintenance. This test period was designed to isolate the system's performance against severe, year-round bio-growth.

Upon haul-out and inspection 8 months later, the Riva's hull was found to be spotless and completely free of all hard marine fouling. The systems worked flawlessly, successfully validating the technology's effectiveness in protecting a large-scale vessel in one of the world's most challenging marine environments.



REPORT LOG 2

In July 2025, after 8 continuous months in the water with no bottom cleaning maintenance, the 132' Riva was hauled for routine scheduled maintenance. Upon haul-out inspection, the hull was found to be spotless and completely free of all hard fouling, confirming the BPS Marine systems were working flawlessly.



TEST BOAT: RIVA 132

The vessel selected for this performance evaluation is a 132-foot Riva superyacht. This high-performance motor yacht features a modern, large-scale hull design, making it a representative example for the demanding large-yacht and superyacht market. Its composite hull construction also provides a standard, real-world material for assessing the BPS ultrasonic system's scalability and effectiveness on a vessel of this size.

