

Alfa Laval Sonihull

Smart ultrasonic anti-fouling,
engineered for performance
on small and mid-sized vessels



Proven biofouling management

Biofouling is no longer a periodic issue. Today's operational demands require a preventive approach to biofouling management. With Alfa Laval Sonihull, prevention is simple, reliable and cost-effective.



Effective ultrasound protection for small and mid-sized vessels

Smaller vessels are often more exposed to biofouling, due to low speeds, frequent idling and operation in warmer waters. At the same time, local biofouling regulations are tightening and IMO is developing a legally binding regulatory framework. So traditional solutions like biocidal coatings and manual cleaning are increasingly impractical.

Sonihull uses advanced ultrasound to prevent biofouling before it starts, delivering a clean, compliant and low-maintenance solution. As the pioneering ultrasonic anti-fouling technology, Sonihull – now part of Alfa Laval – is trusted worldwide to maintain vessel efficiency and operational readiness.

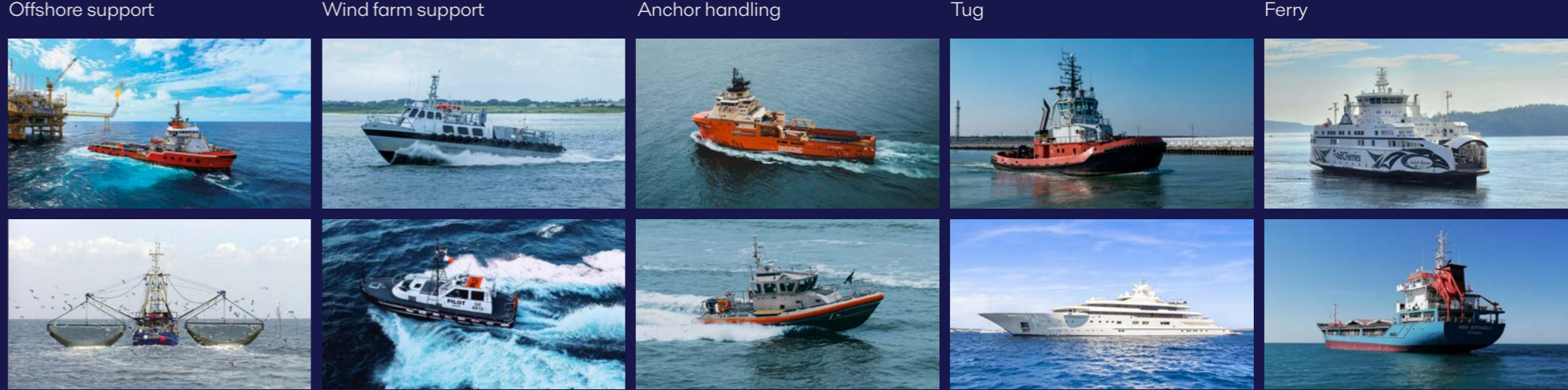
Why choose Sonihull?

- Reliable premium performance – proven ultrasonic technology for consistent, high-efficiency biofouling prevention
- Vessel-specific engineering – precision solutions protecting hull, propulsion and critical seawater systems end-to-end
- Lower lifetime cost – maximized fuel efficiency, extended cleaning intervals and minimized operational disruption
- Low impact, high value – chemical-free protection that avoids harmful biocides while supporting emissions reduction and regulatory compliance
- Supply by Alfa Laval – global reach, trusted engineering and long-term support from an industry leader

Over 3000 vessels protected – and counting

Sonihull systems are deployed across a diverse global fleet of small and mid-sized vessels, where performance, reliability and efficiency matter most. Increasingly, owners are adopting Sonihull as a fleet standard, driven by proven results and long-term value.

Vessel types covered



Offshore support Wind farm support Anchor handling Tug Ferry
 Fishing Pilot Coast guard Superyacht Small cargo

“Sonihull has been an easy tool for improving sustainability in our fleet. Without chemicals, crew burden or any major investments, it has reduced our energy use, emissions and even cleaning-related wear.”

OSV fleet superintendent

“After manual cleaning, the growth and drag always came back quickly. With Sonihull the effect is constant, which I see on both the hull and my bottom line. I’m spending less time fighting growth and less money on fuel.”

Fishing boat owner

“The superyacht stands still much of the time, but it can be sent anywhere at a moment’s notice. Getting turned away at the destination is not an option. With Sonihull, the hull and equipment stay clean and ready.”

Superyacht chief engineer

Make the switch
to smarter anti-fouling

*Side-by-side comparison of marine growth accumulation
with and without Sonihull ultrasonic antifouling protection
on a tug operating in the North Sea.*

Talk to our experts

Contact us at sonihull@alfalaval.com

Visit our website

www.alfalaval.com/sonihull

Simply effective technology

Sonihull provides continuous, non-invasive protection without chemicals or complex equipment. It secures clean surfaces while minimizing manual maintenance, supporting regulatory compliance and uninterrupted operations.

How Sonihull works

Sonihull uses ultrasound to create microscopic agitation, which has a gentle but continuous effect. It keeps hulls and equipment clean by eliminating microorganisms on wetted surfaces. This stops biofilm from forming, which makes the surfaces less inviting for larger organisms. Likewise, the microscopic movement of the water prevents barnacle and mussel larvae from attaching.

The agitation is caused by non-inertial cavitation, a low-energy process that produces no shockwave and no risk of surface erosion or pitting:

- Sonihull generates acoustic pulses in targeted ultrasonic frequencies, which are transmitted through the material the transducers are attached to.
- The pulses create an oscillating pattern of decreasing and increasing pressure on the material surface.
- Microscopic bubbles form as the pressure drops and implode as the pressure increases.



See the film

Sonihull systems

Sonihull is equally suited to newbuilds and retrofits, and its ultrasonic anti-fouling technology is simple to deploy on small and mid-sized vessels. System design is fast and straightforward – and installation just as efficient.

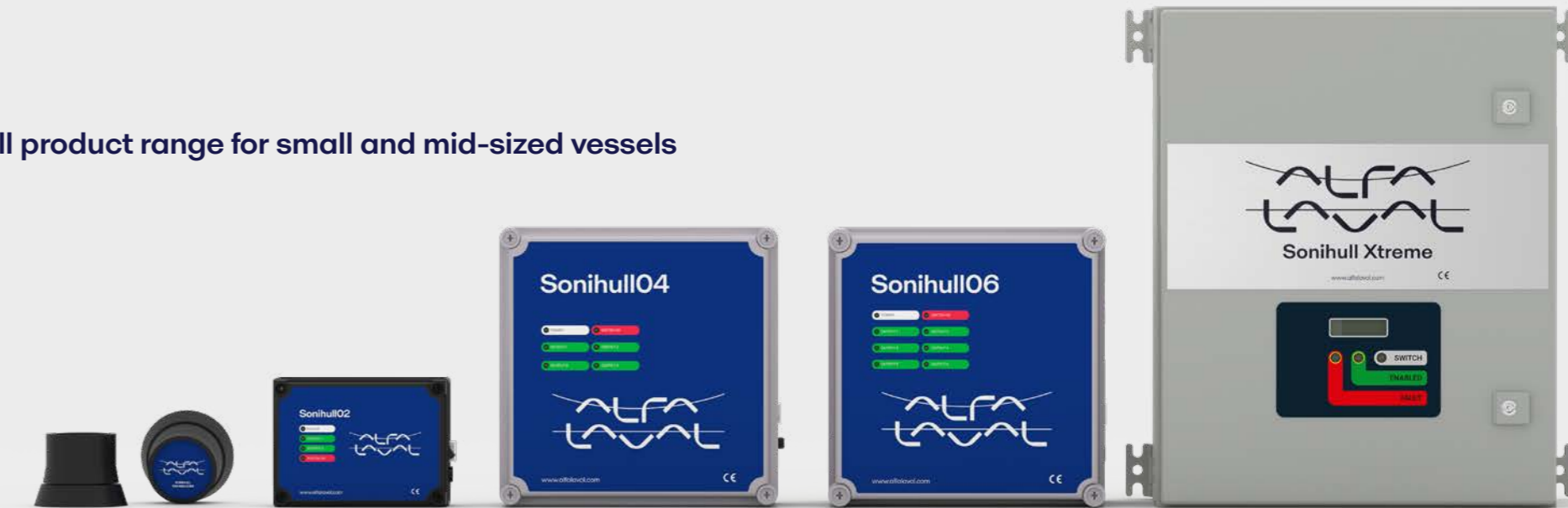
Easy, cost-effective coverage

Sonihull delivers full protection of the hull and critical seawater systems, without complexity or high cost. Designing a system requires little more than your vessel drawings, and installation is completed without dry docking or through-hull penetrations. A complete range of mounting and attachment solutions ensures reliable, long-term performance.

Sonihull fleet agreements

Multi-vessel operators can enjoy consistent protection and scalable deployment across the fleet. Sonihull fleet agreements simplify procurement and administration, while delivering volume advantages, standardization and priority support.

The Sonihull product range for small and mid-sized vessels



Alfa Laval Sonihull

Protect smaller vessels with
ultrasonic anti-fouling technology



Contact Alfa Laval

Up-to-date Alfa Laval contact details
for all countries are always available
on our website at www.alfalaval.com

This is Alfa Laval

The ability to make the most of what we have is more important than ever. Together with our customers, we're innovating the industries that society depends on and creating lasting positive impact. We're set on helping billions of people to get the energy, food, and clean water they need. And, at the same time, we're decarbonizing the marine fleet that's the backbone of global trade.

We pioneer technologies and solutions that free our customers to unlock the true potential of resources. As our customers' businesses grow stronger, the goal of a truly sustainable world edges closer. The company is committed to optimizing processes, creating responsible growth, and driving progress to support customers in achieving their business goals and sustainability targets. Together, we're pioneering positive impact.



Alfa Laval reserves the right to change
specifications without prior notification.

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