

SONIHULL

Ultrasonic Anti-foul Protection



DAME
NOMINATED



THE FUTURE OF ANTI-FOULING, NOW

ANTI-FOULING PROTECTION INSIDE & OUT



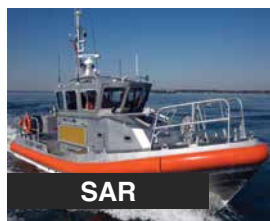
Sonihull is a complete range of fit-and-forget anti-fouling solutions for any solid surface that is exposed to raw seawater.

From hulls, shafts, propellers and waterjets, to sea-chests, tanks, keel-coolers, box-coolers, pipework, intakes and valves.

Fit-and-forget anti-fouling solutions for any solid surface exposed to raw seawater

Unlike biocidal coatings and impressed-current systems, Sonihull is low cost, low maintenance with zero poisonous environmental legacy.

Sectors Covered



Items Protected

INSIDE	Waterjets , Potable Water, Diesel Bug , Sea-chests, Tanks , Box-coolers, Pipework
OUTSIDE	Hulls , Structures, Propellers and Shafts , Waterjets, Stern Drives , Steering Gear

Headline Figures

27,500

Total number of Sonihull installations worldwide

By our global network of dealers and installers on fixed and floating applications

30%

Reduce operating costs and improve profit margins

A fouled hull, propeller and steering gear can increase fuel consumption by 30%

95%

Sonihull8 saves up to 95% of Cap-Ex and maintenance costs

No costly anodes to replace, no through-hull fittings or current isolation required

Background

Bio-fouling on your hull and propellers can increase fuel consumption by up to 30% and, in raw water pipes, bio-fouling will block cooling systems and cause premature equipment failure.

Environmental legislation covering the use of poisonous metallic biocides in anti-fouling systems is tightening and marine-based industries are looking for more effective means of preventing unwanted marine growth on their vessels and inside their equipment.

Since 2006, over 27,500 Sonihull systems have been installed worldwide, making Sonihull the world's leading ultrasonic anti-fouling specialist.

For decades, ultrasound has been used in the food, brewing and hydroponic farming industries to prevent algal blooms and to keep water-handling equipment clean and free from blockages.

By focusing the same technology into marine applications, Sonihull has become an effective anti-fouling solution.

From superyachts to fish-farms, sailing boats to oil tankers, we are working with industry leaders to create cost-effective antifouling solutions that reduce drag and cut fuel consumption, increase service intervals and leave no poisonous environmental legacy.

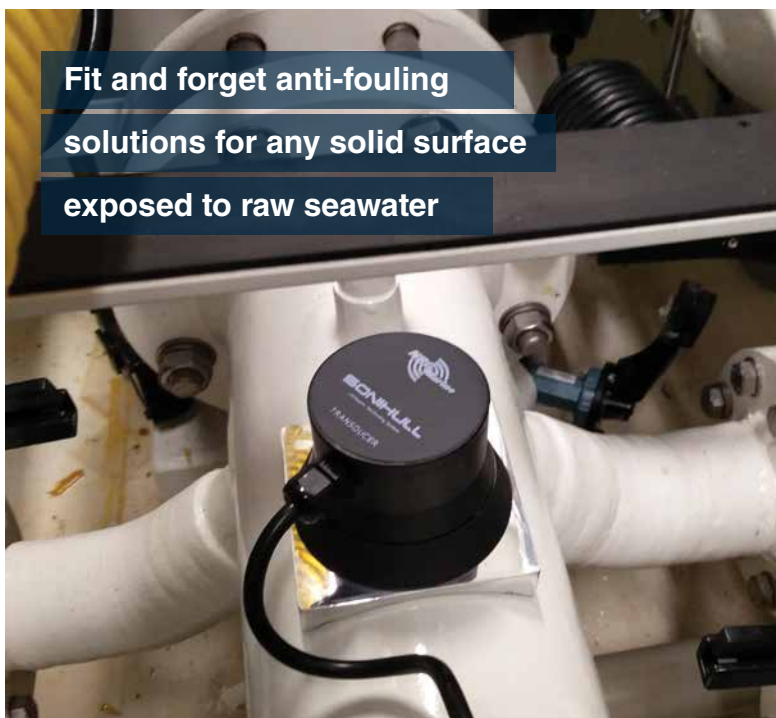
How It Works

Sonihull systems produce multiple bursts of ultrasonic energy in a range of targeted pulse frequencies. These pulses are transmitted through the material that the transducer is attached to.

The ultrasound produces a pattern of alternating positive and negative pressure on the surface of the material. Microscopic bubbles are created during the negative cycle and are imploded during the positive cycle.

This microscopic agitation has a cleansing effect which destroys surface algae.

Disrupting this first link in the food chain keeps the surface clean and makes it a much less inviting habitat for larger organisms that feed on the algae. The microscopic movement of water also prevents barnacle and mussel larvae from embedding on the surface.



Fit and forget anti-fouling solutions for any solid surface exposed to raw seawater

KEY FEATURES



Effective bio-fouling without the poisonous environmental legacy of biocides or metal compounds



Inaudible to humans and marine life with no interference to sonar and electronic equipment



Low power consumption - at about 3.6 Watts per transducer Sonihull is ideal for shore or battery power



Easy Installation - no boat lifting, no through-hull fittings, no expensive anodes to replace



Reduced fuel consumption - clean hull, propellers and rudders can reduce fuel bills by up to 30%



Reduced maintenance - clean propellers and shafts will reduce vibration and drivetrain wear



Extended maintenance intervals mean more boating, less downtime and reduced running costs



Microbial Control - Sonihull suppresses Diesel bug and keeps potable water fresher for longer



Fully Programmable & Integratable with RS232 / RS422 and Modbus communication interface for wired/wireless remote control with critical path fault monitoring

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Products



Sonihull Accessories

ALUMINIUM MOUNTING RING – These marine-grade weldable aluminium mounting rings are ideal for aluminium hulls, jet drives, sea chests or other aluminium structures. The rings can be fitted as part of the standard build where Sonihull systems are offered as a buyer option.

STERN DRIVE ADAPTOR – This bolt-on device allows ultrasonic transmission into surfaces that are hard to reach, like stern drives. Results show an impressive average of 80% reduction in fouling on sterndrives using Sonihull via a stern drive adaptor.

SHAFT ADAPTOR – This universal vibration-absorbing mount enables Sonihull's ultrasonic antifouling pulses to be transmitted directly into a rotating prop shaft and along through to the propeller blades. A clean propeller can reduce fuel consumption by 20%.

PIPE ADAPTOR – With our full range of standard-diameter pipe adaptors, Sonihull can be attached to almost any kind of pipework. Protecting box coolers, valves, inlets, sea chests or other raw water handling equipment from being clogged by unwanted marine growth.



TECHNICAL SPECIFICATIONS

MODEL	Sonihull Mono	Sonihull Duo	Sonihull8
APPROVALS	CE and UL	CE and UL	CE and UL
VOLTAGE	110-240V 50/60Hz AC or 12-24V DC		110-240V 50/60Hz AC or 22-30V DC
TRANSDUCERS	1	2	8 Per Control Unit (extendible up to 256)
AVERAGE POWER	3.6 Watts	7.2 Watts	<30 Watts
CONTROL BOX RATING	IP65	IP65	IP65
TRANSDUCER RATING	IP68	IP68	IP68
TRANSDUCER CABLE	6.5m	6.5m	7.5m (extendable up to 80m)
WEIGHT	2kg	2kg	9kg (control box)
	1.2kg	2.4kg	9.6kg (1.2kg per transducer)
	4.2kg	5.4kg	20.6kg (total boxed weight)
DIMENSIONS	175mm x 130mm x 75mm		388mm x 340mm x 100mm (control box)
	Ø 95mm x 75mm (transducers & mounting rings)		
WARRANTY	2 Years		
EFFECTIVE BIO-FOULING PROTECTION FOR	Steel, Stainless Steel, Aluminium, GRP, FRP, Kevlar, Titanium, Rigid Plastics		



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NRG MARINE LTD.
1&2 Mercia Village, Torwood Close
Westwood Business Park
Coventry, CV4 8HX, UK
+44 (0) 845 900 2171
www.nrgmarine.com
info@nrgmarine.com



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