



OES
GROUP



WRS Cathodic Protection B.V.

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An Environmentally Friendly Anti Fouling Solution For marine applications



OES Group was formed in 2017 and has offices located in The North East of England and The Hague (NL). OES Group offers over two decades of combined experience within the Maritime sector in supplying traditional Anti Fouling Systems. Due to ever increasing stringent legislation regarding the use of copper as a biocide OES Group have developed the industries only commercially recognised Ultrasonic Anti Fouling System.

The system has multiple applications and can be used in the following installations:

Externally

- Vessels Hulls
- Propulsion Gear
- Seachests / Box coolers

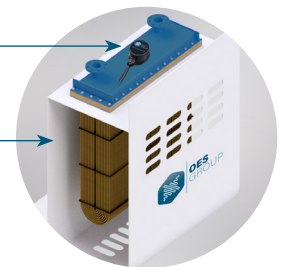
Internally

- Heat Exchangers preventing extensive cleaning routines and plate replenishments
- Cooling Systems & Fire fighting systems keeping pipe-work clean
- Sea Water Lift Pumps
- Pipe works

The system offers a sustainable, reliable, long lasting and environmentally friendly alternative to typical Copper Chlorination systems.

Transducer

Boxcooler



Control cabinets and cables are made to order and are flexible to the requirements of our clients and applicable standards.

As well as supply, OES Group offers a complete design and installation service as standard from our experienced engineers. Our engineers will manage the complete transducer installation, cable management and commission of the system.

The system is maintenance free and comes with a 18 month warranty on all parts.

www.oesgrouppltd.com

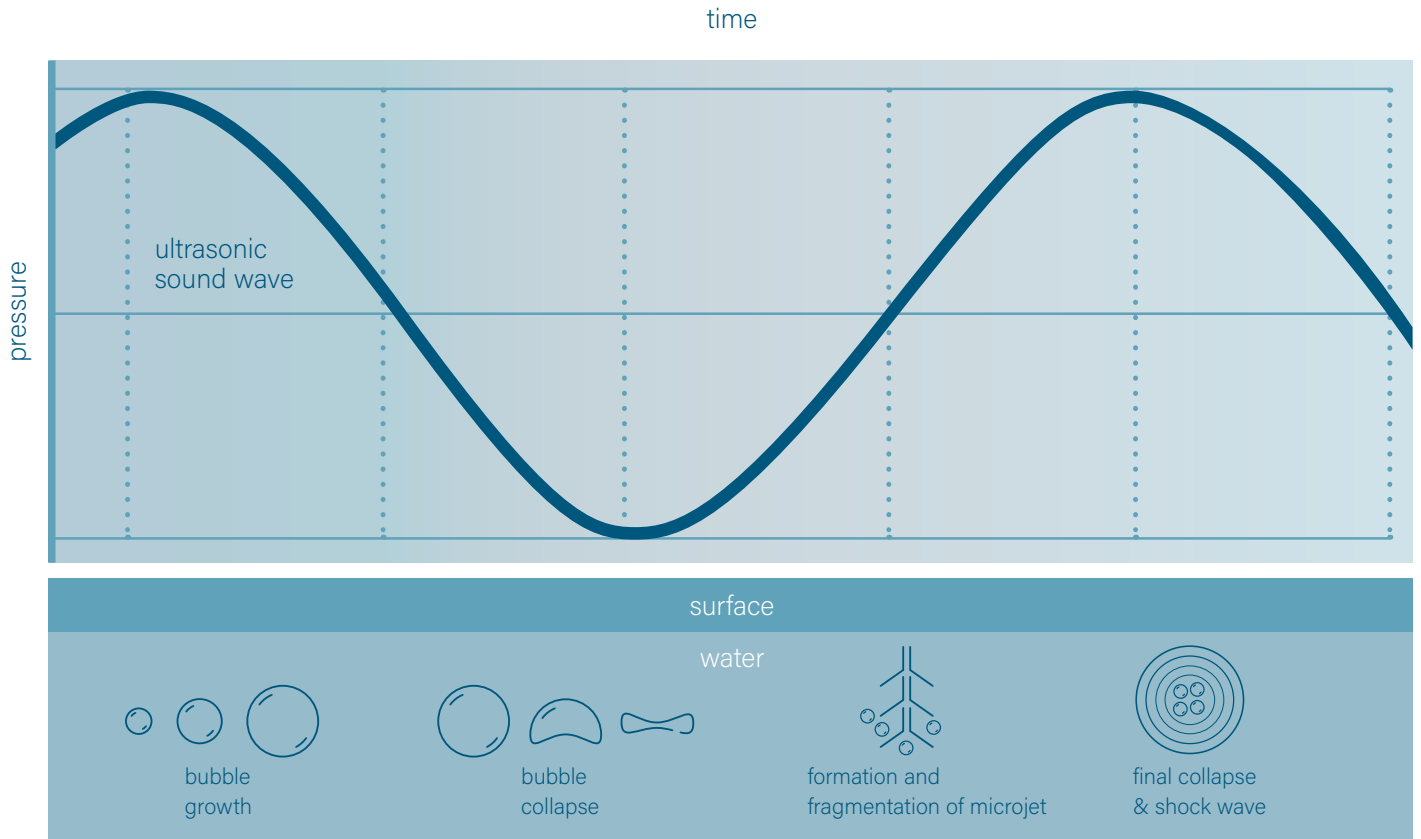
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The technology OES Group uses is based on ultrasonic sound:

- Multiple bursts of ultrasonic energy are produced within a range of targeted ultrasonic pulse frequencies.
- These pulses produce a pattern of positive and negative pressure on the surface of the material being targeted.
- Microscopic bubbles are created during the negative pressure cycle, which then implode during the positive pressure cycle.
- The bubbles have a cleansing effect, destroying surface algae (always the first link in the marine food chain) and preventing fouling from building up.

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