

INTERNATIONAL DIVING SCHOOLS ASSOCIATION

**iDSA**

**NEWS**

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***THE HONG KONG FIRE SERVICE***

***THE LATEST CLEANING TECHNOLOGY  
FROM CAVIT CLEANER***

***THE IRISH NAVAL DIVING SECTION***

***HOW IDSA BEGAN***







UNDERWATER CAVITATION CLEANING TECHNOLOGY



**Stingray single plate**  
fast, efficient and light!



**2016 NEWS**  
Do not miss them!



**Electra Rocket V3**  
single-phase and three-phase  
compact, powerful and light!

contact us: [cavitleaner@cavitleaner.com](mailto:cavitleaner@cavitleaner.com)

# CAVITCLEANER SYSTEMS

Innovative Underwater  
Cavitation Cleaning  
Technology

Developed BY divers, FOR  
divers.  
By Marco Montanari  
R&D Test Diver



**T**he Cavitcleaner System is the result of years of development work and research focused on finding a new world of underwater cleaning products able to satisfy the huge and growing demand for cleaning and maintenance of underwater structures, commercial, military and coast guard vessels, cruise ships, motor yachts, sailboats, etc.

My goal is to find the right products to meet customer's needs: efficiency, versatility and safety, together with excellent performances, affordable costs, time saving.

Cavitcleaner products sum up all the above. And this is why I focused on cavitation technology, for its obvious advantages in terms of high efficacy, capability and security.

Cavitcleaner is a revolutionary and unique underwater cavitation cleaning system, performed by a stream of implosive microscopic air bubbles that are able to dislodge fouling and any other biological material by using an intense shock-wave.

**O**ur cleaning system is highly effective, works rapidly and at a relatively low pressure and will not harm the surface being cleaned. It is also the safest underwater cleaning system available today.

The performances are pretty high as the power is generated by the implosion of air bubbles so that the machines work at relatively low pressure of 140/160 bar, that can be compared to a water jet working at 500/800 bar. The system gives a higher yield but it is also safe for the divers as the cavitation stream can get in contact with bare skin without causing any injury.

Champions in safety: Cavitcleaner and Kirby Morgan

Cavitcleaner machines are designed to be used both in sea and fresh water, with no need of any chemical additive. Furthermore our new cleaning system does not remove the anti-fouling paint which makes all Cavitcleaner products environmentally friendly.

Cavitcleaner is extremely effective at removing any type of growth or fouling from any underwater surface (risers, columns, hulls, stern gear, propellers, shafts, rudders, thrusters, sea chests, pontoons, chains, ropes, pipes), regardless on the material type (steel, fiberglass, aluminum, wood, concrete, rope) or the structure's shape.

Heavy growth easily removed

Cavitcleaner products are CE-marked. In addition, TUV has certified that the methods used by us with the support of the cavitation cleaning system meets the ISO14000 environmental standards. As of today many Port Authorities have acknowledged the validity of a cavitation cleaning system that preserves paints and coatings and respects the environment. Also many coastguard has authorized and requested cleaning of their vessels using the cavitation system. Cavitcleaner R&D divers team has been involved in creating and testing specific machines and accessories for every different jobs and needs:

Evo2 gun and the new Turbo Jet gun are the



**Champions in safety: Cavitcleaner and Kirby Morgan**





**BEFORE**



**AFTER**

**Heavy growth easily removed**

chief products among the vast range of our tools. These are capable of removing any kind of encrustations, from light fouling to acorn-shells and mussels and ensures manageability and safety.

**2D Double Diver's kit** is a simple and smart system composed by a full stainless steel switch and two cavitation Evo2 guns. This system allows the simultaneous use of two Evo2 guns by two divers using the same machine. The full bronze switch splits the flow, granting the same pressure for the two guns.

**Twin Jet** gun with double cavitation nozzles, it is perfect for quickly cleaning areas covered with light to medium fouling. It is light weighted and easy to use.

**Stingray** underwater cavitation cleaning plate, studied to clean easily and fast big areas covered with medium fouling. It has excellent performances in terms of square meters/hour. The plate creates its own suction and it stays attached at the surface being cleaned, making your work easier and lighter.

**New Double Stingray** plate is our new accessory ideal for treatment of big yachts and vessels. It's very powerful, fast and effective. This tool is composed by two single plates that can be easily separate in a few minutes into two highly efficient Stingray single plates, that can be used by two different divers in two different sites.

**Extensions kit** is a simple and clever accessory composed by two modular extensions that can be used combined with Evo2 and Twin Jet guns. It allows you to reach and clean inaccessible places and it avoids to remove the grids of the sea chest, bow thrust, etc.

All these accessories are supported by reliable and efficient machines powered by diesel, gasoline or electric motors:

**EASY ENERGY 220 and 380** models powered by a single and a three-phase electric motor respectively, a very useful part of the boat's equipment: light and compact in size, they can be easily stored in a small space.

**HOT ROAD DIESEL and PETROL** models, underwater cavitation cleaning machines driven by a powerful and reliable Yanmar 8 kw diesel engine and a Honda 9.5 kw petrol engine respectively. They are our best sellers.

**New ELECTRA ROCKET V3 (single phase and three phase)** our last and new models for underwater cavitation cleaning. The machine comes in two versions: mono-phase and three phase electric motor, same power and performances of the Cavitchleaner Easy Energy series machines but now with an extraordinary compactness and lightness, easy to carry around and to load onboard, extraordinary performances, quietness and affordable price.



Thanks to the evident advantages in terms of cleaning power, safety and ease of use, performances, efficiency and versatility, cavitation systems are set to become a primary choice in the underwater cleaning growing market. With the Cavitchleaner line we intend to lead the way in product innovation and establish ourselves as a global leader.

For further info, please visit [www.cavitchleaner.com](http://www.cavitchleaner.com)



UNDERWATER CAVITATION CLEANING TECHNOLOGY

**UNMISSABLE SPECIAL OFFER 2016!**

**Bombardier Diesel 42 machine and accessories all inclusive**



**Bombardier Diesel 42**  
**Designed for Pro Diving Services**



**1 x Double Stingray**  
**Modular divisible plate**



**1 x Turbo Jet 42/21**  
**Variable flow gun**



**3 x 30 mt. High Pressure Hoses**



**1 x 2D Double Diver**  
**Flow switch device**

**Don't miss this opportunity!**