



DCM ULTRASONIC

Trusted ultrasonic
cleaning technology



www.dcmultrasonic.com

Our Company



At DCM Ultrasonic, we design and manufacture high-performance ultrasonic cleaning machines optimized for various industries. We have our own workshop where each and every part is manufactured and assembled. We are also one of the few manufacturers with our own patented ultrasonic generation technology that is 100% Spanish-made.

Committed to offering innovative, efficient, and high-quality solutions in the field of ultrasonic cleaning for the industrial sector.

Quality and Trust

Each of our devices is designed and manufactured to strict technical standards to ensure optimal and long-lasting performance, generating confidence through our 100% Spanish manufacturing and efficient and effective ultrasound technology.

Track Record + Patented Technology

Over a decade of experience in the design and manufacture of ultrasonic cleaning equipment. Patented ultrasonic generators, adaptable to all types of applications, featuring synchronized digital technology.



① Número de publicación: **1 304 918**

② Número de solicitud: 202331228

⑤ Int. Cl.:

B08B 3/12 (2006.01)



Trusted Ultrasonic Technology





GLOBAL VISION

Our global vision is to offer and supply the latest technology in ultrasonic cleaning to meet the diverse needs of industrial cleaning and maintenance across all sectors and continents.

Ultrasound with Environmental Impact - ECO

APPLICATIONS

Cleaning of parts - Degreasing - Removing rust - Industrial maintenance Descaling -
Paint stripping - Surface and mold treatment Removing dirt - Anodizing



INDUSTRIES

Naval Industry - Oil and Gas - Mining Industry - Graphic Industry
Food Industry - Railway Industry - Automotive Industry
Pharmaceutical Industry - Metallurgical Industry





AT THE FOREFRONT OF ULTRASONIC

What sets us apart from other machines in the sector.

Patented Technology

Ultrasonic transmitters and generators patented in Spain. Our proprietary technology is designed and manufactured in our workshop in Rafelbunyol.

Heavy Duty

Tanks built to withstand extreme industrial needs, being the tanks with the highest load capacity on the market

Hot Glued

Transmission surface area three times larger than traditional surfaces. Deep penetration for cleaning and energy savings.

Ultrasonic Submersible

When submerged in the ultrasonic tank, they enhance cleaning, optimize washing time, and generate a more uniform and effective cavitation effect.

ULTRASONIC CLEANING

How does it work?

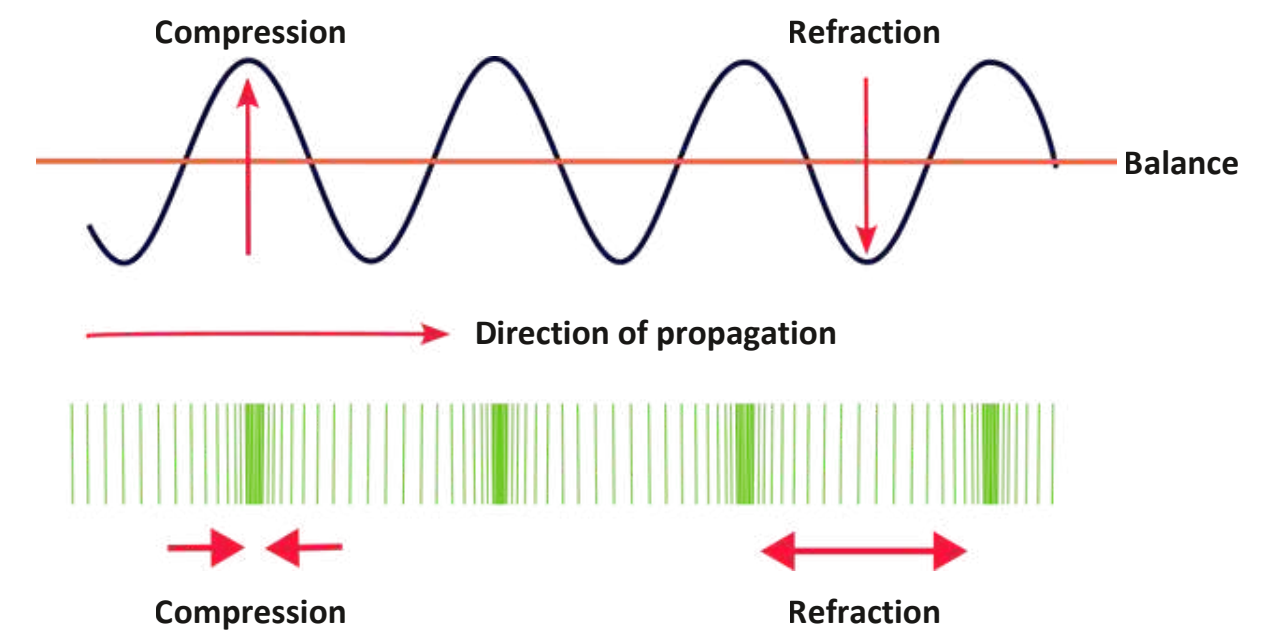
Ultrasonic cleaning is an advanced process used to remove dirt, grease, particles, oxides, and other contaminants from parts and components, especially those with complex or difficult-to-access geometries. It is widely used in sectors such as automotive, aerospace, medical, electronics, energy, pharmaceutical, and general industrial industries.

Ultrasonic cleaning is a highly efficient technical process that combines mechanics, physics, and chemistry to deliver superior cleaning results. Thanks to the action of cavitation, deep, uniform, and non-aggressive cleaning is achieved, even in complex geometries. This technology has become an indispensable tool for industries that require high standards of cleanliness, productivity, and sustainability.

Principle of Ultrasound Transmission (Cavitation Effect)



1. **The reduction in pressure causes the formation of a large number of bubbles.**
2. **The bubbles grow to a greater or lesser extent and power depending on the frequency.**
3. **The pressure rises, compressing the bubbles.**
4. **The temperature/pressure increases until they implode, generating the micro-brushing effect.**





OUR TECHNOLOGY

Patented Technology - Own Manufacturing





DL SERIES

Ultrasonic cleaning machines with dynamic loading

These cleaning devices are suitable for all types of industrial applications and incorporate controlled mechanical motion, which improves the effectiveness of ultrasound compared to static systems. The combination of ultrasound and dynamic motion enhances the cavitation process, generating a more intense and consistent cleaning action.



APPLICATIONS

Cleaning of parts - Degreasing - Removing rust Industrial maintenance Descaling



DCM **SL** SERIES

Ultrasonic

Ultrasonic cleaning machines with static charge

In this type of system, the parts remain stationary inside the tank during the cleaning process, allowing for uniform and controlled cavitation. This type of machine is ideal for fragile or high-precision parts, as the absence of movement prevents potential mechanical and surface damage, thus ensuring thorough cleaning without compromising the integrity of the materials.



APPLICATIONS

Parts Cleaning - Degreasing - Disinfection Mechanical
Maintenance - Workshop - Laboratory



DCM **RL SERIES**

Ultrasonic

Ultrasonic cleaning machines with rotary loading

Ideal system for components with complex geometries, irregular surfaces, or internal cavities where ultrasonic waves may have difficulty reaching all areas if the load remains static. Ideal cleaning machines for the printing industry, especially for cleaning printing rollers and tooling. They are also used for cleaning special mechanical and metal parts.



APPLICATIONS

Cleaning printing rollers - Cleaning tools
Paint stripping - Degreasing - Part maintenance



DCM **LAB SERIES**

Ultrasonic

BENCHTOP machines for industrial cleaning

High-performance ultrasonic cleaning systems, designed to fit on any workbench. Our benchtop cleaning machines are designed to provide deep, even cleaning of small and delicate components in workshops, laboratories, and industrial facilities.



APPLICATIONS

Dental instruments - Small components - Contact lenses
Surgical instruments - Industrial parts - Laboratory





OIL & GAS

Cleaning machines for the petrochemical industry

Ultrasonic cleaning in the petrochemical industry guarantees deep and precise disinfection of tools, components, and industrial parts. Thanks to the cavitation effect, dirt, oils, grease, particles, and other contaminants are removed, even in hard-to-reach areas or on uneven surfaces. This makes this technology the most efficient, effective, and safest, surpassing pressure cleaning, chemical cleaning, and other cleaning solutions.



APPLICATIONS

Exterior Cleaning - Heat Exchangers - Refinery

Cleaning Long Industrial Parts - Pipes & Tanks





DEFOAMING SYSTEM

Technology for foam control in process plants

This ultrasonic system is designed to significantly reduce foam on bottles or cans during the packaging process, generating a more compact foam that adheres more tightly to the can or bottle. This enables the system to offer significant increases in productivity, reduced product waste, reduced pollution, and energy and water savings.



APPLICATIONS

Processing Plants - Packaging Lines - Bottling
Breweries & Soft Drinks





FLOW CELLS

Fluid treatment system

Our flow cells are designed to be integrated directly into the production line, allowing for the treatment of food fluids without increasing their temperature. Effective treatment of fluids without altering their organoleptic properties.



APPLICATIONS

Fluid treatment - production line - bottling plant

Particle decomposition - Disinfection



DETAILS THAT MATTER

Designed to facilitate the handling and use of our machines



CLEANING TEST MOLDS

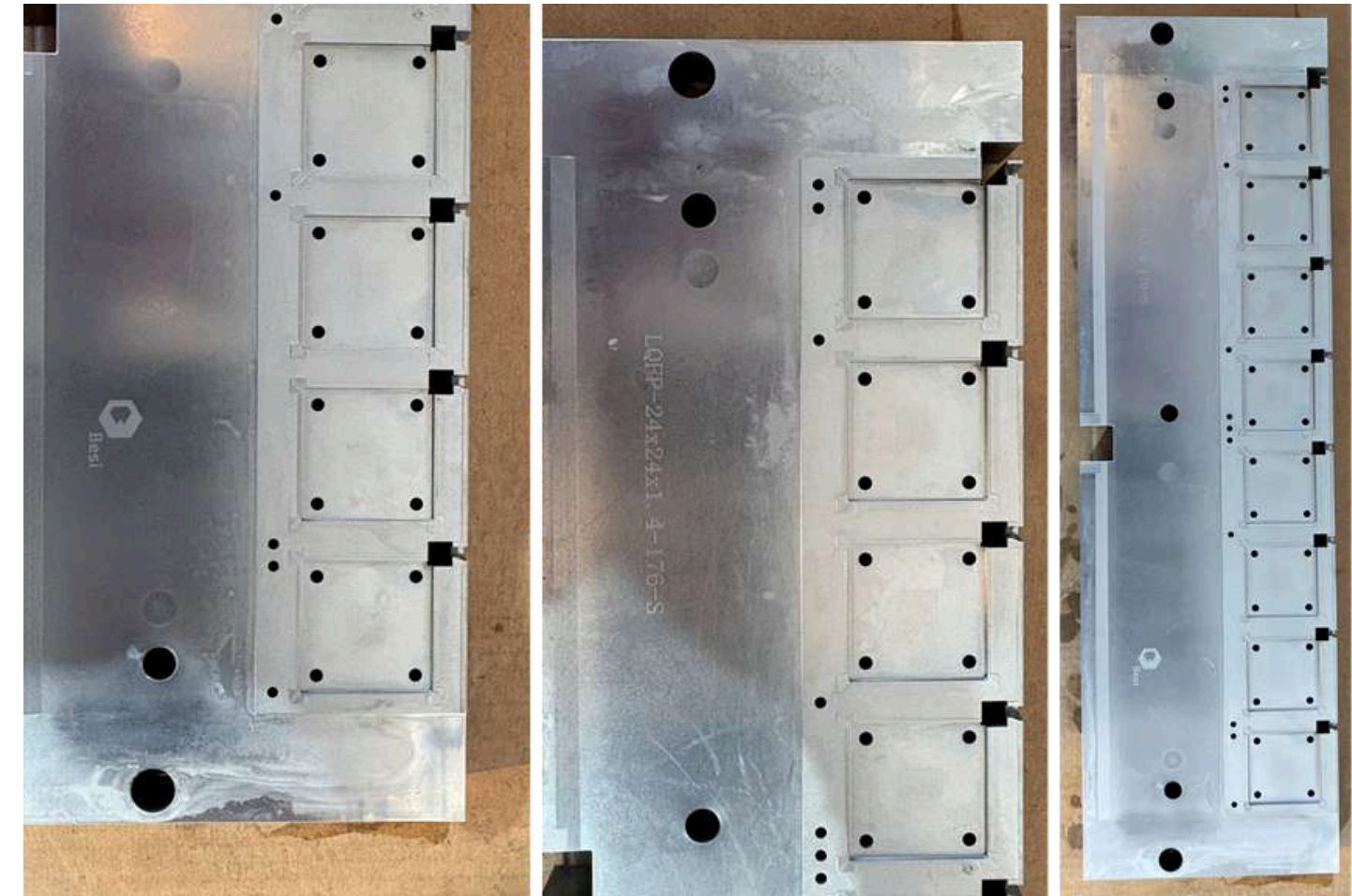


Before vs. After using DCM Ultrasonic ultrasonic cleaning machines.

Before



After



CLEANING TEST CYLINDER HEAD - ENGINE PART



Before vs. After using DCM Ultrasonic ultrasonic cleaning machines.

Before



After



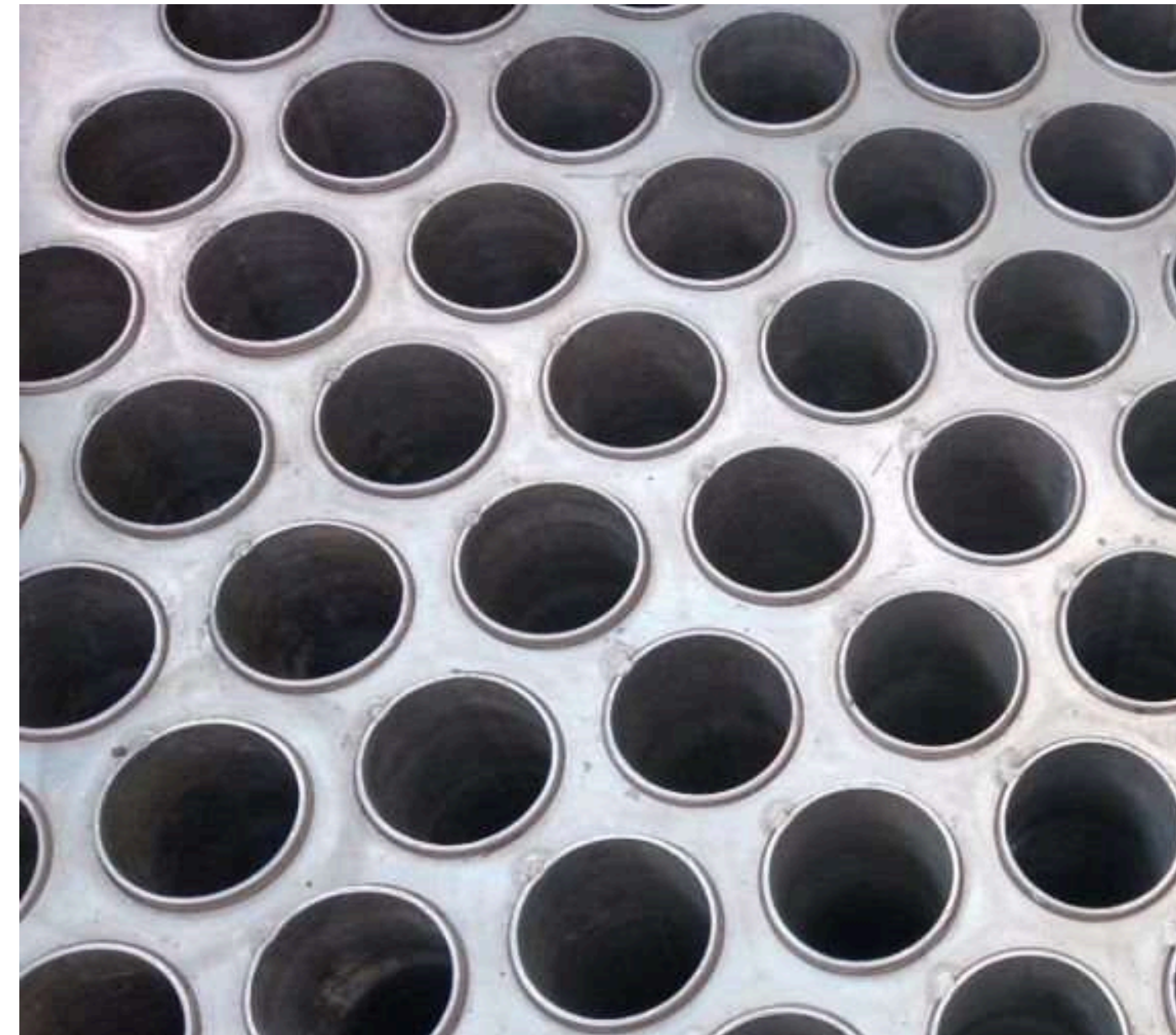
CLEANING TEST HEAT EXCHANGER

Before vs. After using DCM Ultrasonic ultrasonic cleaning machines.

Before



After



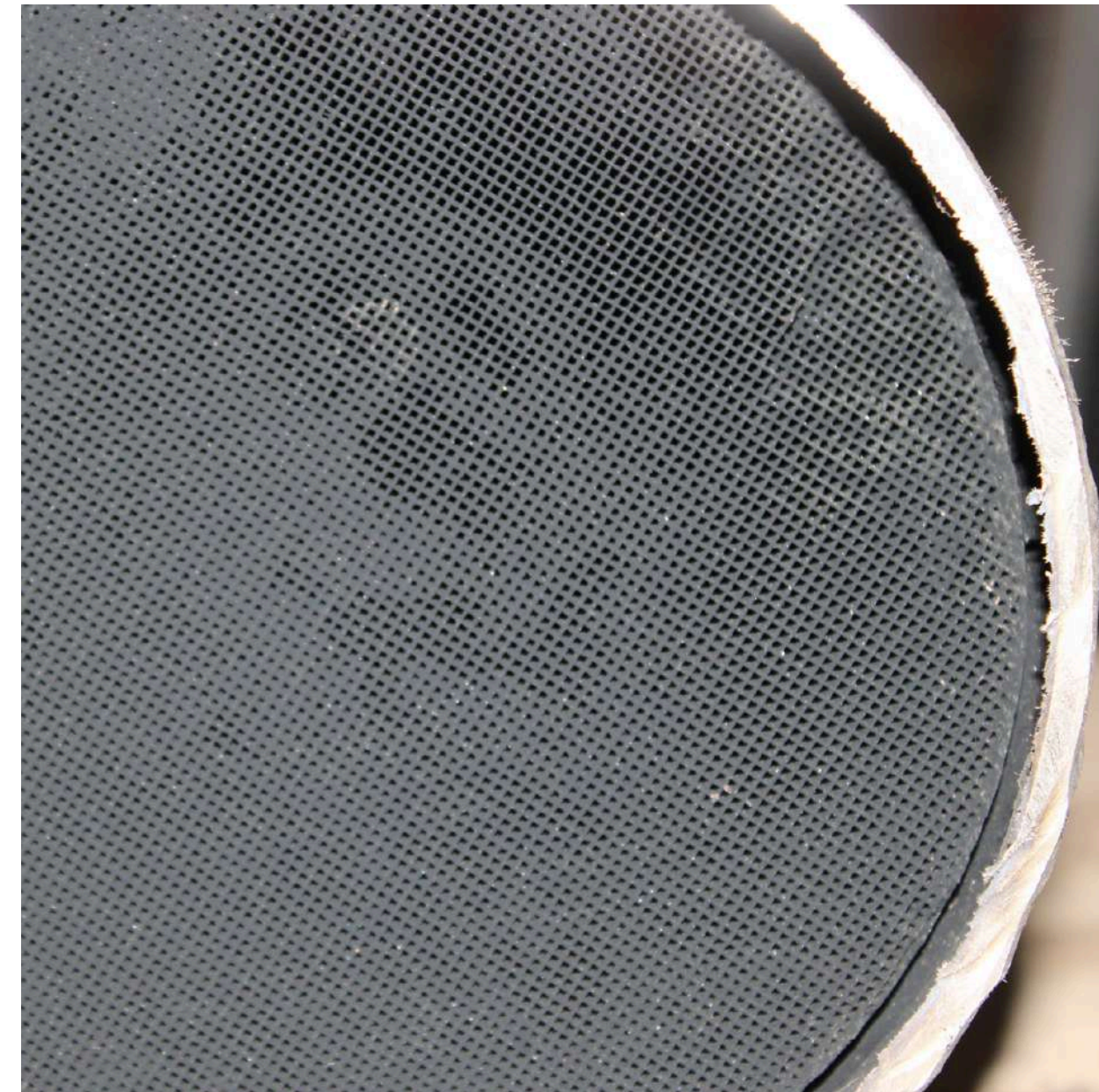
CLEANING TEST **Particle filter**

Before vs. After using DCM Ultrasonic ultrasonic cleaning machines.

Before



After



BENEFITS FOR THE INDUSTRY

3 key benefits of using our ultrasonic cleaning machines.



Reduction of time and costs

Increase efficiency and reduce operating costs.



Environmental Impact

Sustainable technology.
Reduces water and chemical consumption.



Profitability

Rapid return on investment thanks to its level of efficiency and effectiveness.

THEY TRUST US





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