



ULTRASONIC CLEANING EQUIPMENT



brioultrasonics.com

PRO Series equipment

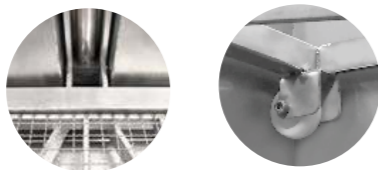
Automate your cleaning process by using a top brand unit with BRIO Ultrasonics optimised technology. PRO Series includes lift with load grid for handling the parts without effort, sway system for separating the dirt, OPS (Oil Push System) for oil removal and an intuitive touch screen. Standard models available from 150 to 7500 liters.

• LIFT WITH LOAD GRID AND SWAY FUNCTION

To easily insert and extract parts. It has a sway function for better cleaning. Pneumatic lifter for loads up to 1000 kg or hydraulic lifter for loads above 1000 kg.

More rugged and reliable design, with STAINLESS thickness and density much higher than other equivalent models on the market. For example, the reinforced structure of our 200 litre model is made using a 40 x 8 mm plate.

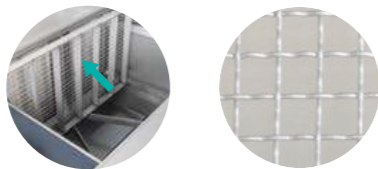
With a solid bar, slide bearings with a metal frame and linear ball bearings for guiding and support.



LOAD GRID

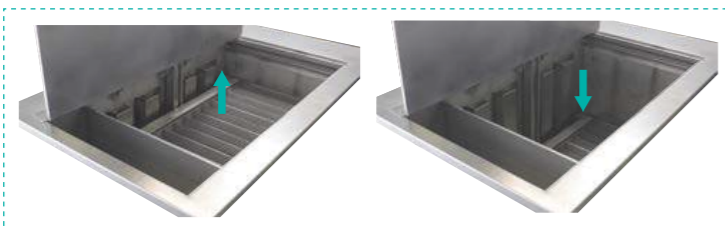
Removable parts-holder grid that allows cleaning the base of the vat. Made using a 25 x 5 x 6 mm STAINLESS plate.

With a STAINLESS entwined mesh measuring 2 mm ø and 20 x 20 mm of clearance to allow water to flow through it.

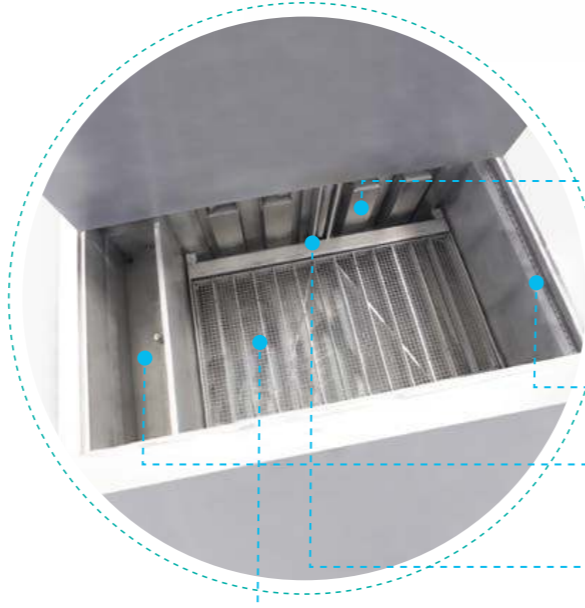


SWAY FUNCTION

Raises and drops the lift to separate the dirt that is on the surface of the parts. With adjustable position sensors for controlling the stops using a PLC.



Interior view



BRIO Ultrasonic Emitters

Modular emitters positioned to ensure a better transmission of the ultrasonic energy.

OPS system

- System that uses laminar sweep for removing oil.
- Auxiliary vat for collecting the oil that is removed.

Lift

Load grid

• OPS (OIL PUSH SYSTEM)

The exclusive process of removing oils, lubricants, grease and impurities via a laminar sweep and settling to the auxiliary vat. This function extends the useful life of the bath against saturation thus increasing the efficiency of the equipment. The auxiliary vat has a drain valve used for recycling the liquid and a detector for controlling the fluid level.

PROCESS OF DECANTING OILS TO THE AUXILIARY VAT



• CONTROL PANEL WITH TOUCH SCREEN

- Careful design with an intuitive user interface.
- Programming and control of the temperature.
- Programming the time and wash cycle.
- Programming of the OPS system for removing oils.
- Programming and control of the sway function.
- Weekly programming by time periods.
- Alerts system for detecting and resolving faults.

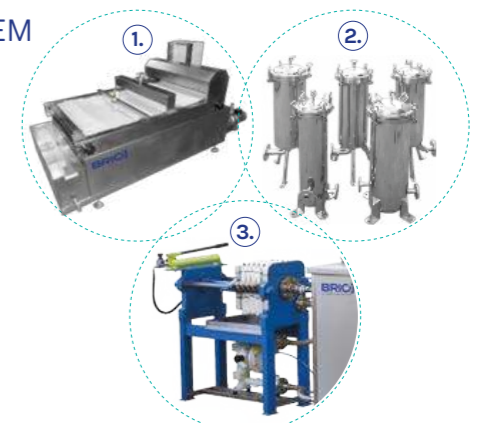
OPTIONAL EQUIPMENT

- AUTOMATIC OR MANUAL COVER
- THERMAL-ACOUSTIC INSULATION OF THE COVER
- FILTERING SYSTEM

1. Filtering cloth with automatic advance system.

2. Sleeve or cartridge filtering system.

3. Filter press systems.



- TAILOR-MADE STAINLESS BASKETS
- AUTOMATIC FILLING
- BATH SATURATION CONTROL
- AUTOMATIC DOSING OF DETERGENT
- VAPOURS EXTRACTION SYSTEM

PRO Series equipment

BR-150 PRO



Exterior dimensions of the machine	1,330x945x1,490 mm
Interior dimensions of the vat	710x500x540 mm
Useful measurements of the load grid	680x435x330 mm
Height of the worktop	970 mm
Capacity of the vat	192 L
Capacity of the auxiliary vat	28 L
Power of the ultrasonic generator	1,200 W
Heating element	3.75 kW
Control panel	Touch screen 4.3"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	80 Kg
OPS system for removing oil	Yes
Cover	Manual
Drain valve	1 1/4"

See the optional equipment on page 18.

BR-300 PRO



Exterior dimensions of the machine	1,680x1,130x1,720 mm
Interior dimensions of the vat	900x600x640 mm
Useful measurements of the load grid	870x520x385 mm
Height of the worktop	970 mm
Capacity of the vat	346 L
Capacity of the auxiliary vat	37 L
Power of the ultrasonic generator	2,400 W
Heating element	7.5 kW
Control panel	Touch screen 4.3"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	250 Kg
OPS system for removing oil	Yes
Cover	Manual
Drain valve	1 1/4"

See the optional equipment on page 18.

BR-450 PRO



Exterior dimensions of the machine	1,920x1,240x1,720 mm
Interior dimensions of the vat	1,120x660x650 mm
Useful measurements of the load grid	1,080x550x435 mm
Height of the worktop	970 mm
Capacity of the vat	480 L
Capacity of the auxiliary vat	53 L
Power of the ultrasonic generator	3,600 W
Heating element	9 kW
Control panel	Touch screen 4.3"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	300 Kg
OPS system for removing oil	Yes
Cover	Manual
Drain valve	1 1/2"

See the optional equipment on page 18.

PRO Series equipment

BR-650 PRO



Exterior dimensions of the machine	2,200x1,540x1,720 mm
Interior dimensions of the vat	1,300x780x670 mm
Useful measurements of the load grid	1,250x670x510 mm
Height of the worktop	980 mm
Capacity of the vat	680 L
Capacity of the auxiliary vat	65 L
Power of the ultrasonic generator	4,800 W
Heating element	15 kW
Control panel	Touch screen 4.3"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	400 Kg
OPS system for removing oil	Yes
Cover	Manual
Drain valve	1 1/2"

See the optional equipment on page 18.

BR-1000 PRO



Exterior dimensions of the machine	2,420x1,570x2,140 mm
Interior dimensions of the vat	1,500x930x880 mm
Useful measurements of the load grid	1,470x740x670 mm
Height of the worktop	1,255 mm
Capacity of the vat	1,200 L
Capacity of the auxiliary vat	133 L
Power of the ultrasonic generator	6,000 W
Heating element	18 kW
Control panel	Touch screen 7"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	800 Kg
OPS system for removing oil	Yes
Cover	Auto
Drain valve	2"

See the optional equipment on page 18.

BR-2000 PRO



Exterior dimensions of the machine	2,660x1,900x2,520 mm
Interior dimensions of the vat	1,730x1,120x1,150 mm
Useful measurements of the load grid	1,700x1,050x880 mm
Height of the worktop	1,455 mm
Capacity of the vat	2,228 L
Capacity of the auxiliary vat	204 L
Power of the ultrasonic generator	10,000 W
Heating element	24 kW
Control panel	Touch screen 7"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	1,100 Kg
OPS system for removing oil	Yes
Cover	Auto
Drain valve	2"

See the optional equipment on page 18.

PRO Series equipment

BR-3000 PRO



Exterior dimensions of the machine	3,020x1,900x2,520 mm
Interior dimensions of the vat	2,100x1,200x1,200 mm
Useful measurements of the load grid	2,070x1,110x1,115 mm
Height of the worktop	1,455 mm
Capacity of the vat	3,024 L
Capacity of the auxiliary vat	275 L
Power of the ultrasonic generator	14,000 W
Heating element	36 kW
Control panel	Touch screen 7"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	1,500 Kg
OPS system for removing oil	Yes
Cover	Auto
Drain valve	2 1/2"

See the optional equipment on page 18.

BR-5000 PRO



Exterior dimensions of the machine	3,220x2,200x2,720 mm
Interior dimensions of the vat	2,300x1,600x1,400 mm
Useful measurements of the load grid	2,250x1,500x1,315 mm
Height of the worktop	1.565 mm
Capacity of the vat	5.152 L
Capacity of the auxiliary vat	355 L
Power of the ultrasonic generator	20,000 W
Heating element	48 kW
Control panel	Touch screen 7"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	2,000 Kg
OPS system for removing oil	Yes
Cover	Auto
Drain valve	2 1/2"

See the optional equipment on page 18.

BR-7500 PRO



Exterior dimensions of the machine	3,520x2,600x2,720 mm
Interior dimensions of the vat	2,700x2,000x1,400 mm
Useful measurements of the load grid	2,650x1,900x1,315 mm
Height of the worktop	1,565 mm
Capacity of the vat	7,560 L
Capacity of the auxiliary vat	400 L
Power of the ultrasonic generator	25,000 W
Heating element	60 kW
Control panel	Touch screen 7"
Power supply voltage	230 - 400 V
Pneumatic lift with sway	Yes
Maximum load of the lift	2,000 - 7,500 Kg
OPS system for removing oil	Yes
Cover	Auto
Drain valve	2 1/2"

See the optional equipment on page 18.

PRO Series equipment

SPECIFICATIONS SUMMARY TABLE

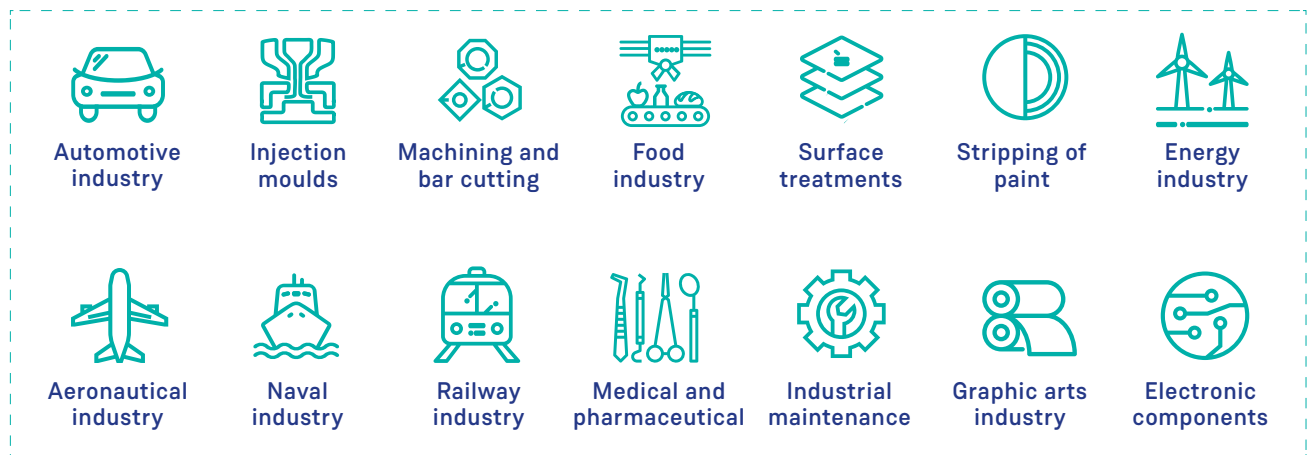
Model	Vat capacity (L)*	Interior dimensions (mm)*	Useful measurements of the Load Grid (mm)*	Heating element (kW)*	Ultrasonic power (W)*	Maximum load of the lift (kg)*
BR-150 PRO	192	710x500x540	680x435x330	3.75	1,200	80
BR-300 PRO	346	900x600x640	870x520x385	7.5	2,400	250
BR-450 PRO	480	1,120x660x650	1,080x550x435	9	3,600	300
BR-650 PRO	680	1,300x780x670	1,250x670x510	15	4,800	400
BR-1000 PRO	1,200	1,500x930x880	1,470x740x670	18	6,000	800
BR-2000 PRO	2,228	1,730x1,120x1,150	1,700x1,050x880	24	10,000	1,100
BR-3000 PRO	3,024	2,100x1,200x1,200	2,070x1,110x1,115	36	14,000	1,500
BR-5000 PRO	5,152	2,300x1,600x1,400	2,250x1,500x1,315	48	20,000	2,000
BR-7500 PRO	7,560	2,700x2,000x1,400	2,650x1,900x1,315	60	25,000	2,000 - 7500

* The measurements, capacities and maximum loads of the machines are provided as a guide. Our continuous improvement process in the designs and performances may cause these characteristics to vary. When requesting a quote, the final price will be provided. Please contact us and we will answer all your questions.



Sectors and Applications

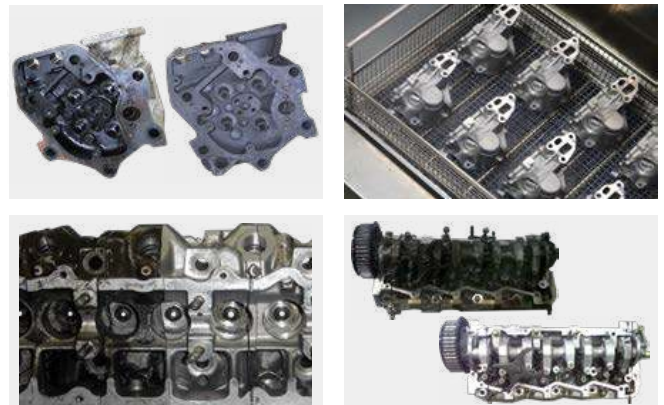
The exclusive BRIO Ultrasonics technology is ideal for cleaning and treating all types of parts and components made of any material. Therefore, even if your case is represented, please contact us so we can advise you and together we will develop the solution that is best suited for your needs.



Automotive industry

BRIO Ultrasonics equipment are the perfect supplement for rectification workshops, re-manufacturing of engines, scrapping, general mechanics and workshops specialised in any part of the engine.

Our exclusive technology fully radiates the inside of the parts to be cleaned, adapting to its size to accomplish a better cleaning and removal of carbon deposits. We achieve the best results on parts and components such as blocks, heads, turbos, injectors, collectors, radiators, coolers, particulate filters and EGR valves.



Injection moulds industry

Our BR MOLD line covers all the cleaning and treatment needs of the sector using tailor-made multi-stage equipment. We install BRIO ultrasonic cleaning stages, rinsing, anti-corrosion protection, etc.

We perform a complete cleaning of any mould, cooling duct, spare parts, extractors, figures, slotted parts, sliding parts, etc. We reach every crevice of parts without needing to disassemble them and we achieve optimum results on injection moulds for zamak, magnesium, plastic, rubber and any other material.



Sectors and Applications

Machining and bar cutting

Cleaning using BRIO ultrasonic equipment is the perfect solution for removing shavings, oxide, oils and any dirt. Also, it is applicable to all types of materials such as Stainless steel, carbon steel, brass, bronze, aluminium, zamak and technical plastics.

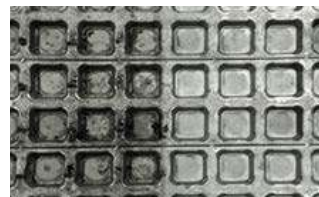
The parts cleaning process for this sector usually requires different treatments. We develop tailor-made multi-stage equipment that allows us to treat the parts in several phases: BRIO ultrasonics cleaning, rinsing, passivation and drying.



Food industry

Our BR FOOD line is developed exclusively to comply with the cleaning, hygiene and disinfection standards of the food sector. We provide superior hygiene results in the elimination of grease, oils, residue, burn deposits, lime deposits, etc.

Our system works perfectly with the materials that are most commonly found in the food industry: Stainless steel and plastics. We achieve optimum results in the cleaning of pallets, trays, cutlery, hooks, continuous processes, etc.



Surface treatments

At BRIO Ultrasonics we have developed multiple cleaning solutions for surface treatments, stripping, degreasing, pre-treatments and baths designed for technical processes, galvanising techniques, nickel plating, chrome plating, paint lines, etc.

Our exclusive technology is used to perfectly treat and prepare parts for subsequent processing. We remove grease, polishing pastes, oils, graphites and dirt of all types on metal and plastic parts. All of this quickly and efficiently, reaching 100% of its geometry.



Stripping of paint

BRIO ultrasonics cleaning fully removes paints such as epoxy, polyester, water based, polyurethane and varnishes. All much faster and more efficiently than using traditional systems and without damaging the parts. It is also the best option for refurbishing scrap parts, stripping of frames, etc.

We are experts in industrialised processes for stripping iron and aluminium. We recover high value parts such as alloy wheels or aluminium profiles in architecture, frames and other scrap parts.

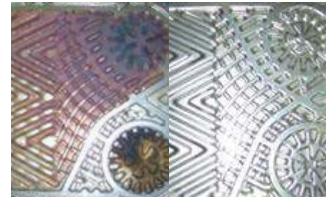


Sectors and Applications

Energy industry

At BRIO we develop solutions that are exclusively for the nuclear, wind, thermal, cogeneration and solar sectors. Some of the main applications are:

- **Nuclear.** Cleaning of heat exchangers, cleaning of heads and removal of radionuclides.
- **Cogeneration.** Removal of carbon deposits, cleaning of engines and cleaning of heat exchangers.
- **Wind.** Maintenance of engines, gear boxes, etc.



Aeronautical industry

Our exclusive ultrasonic cleaning technology provides the best cleaning solution for manufacturers of components for aviation and maintenance, repair and inspection (MRO) centres.

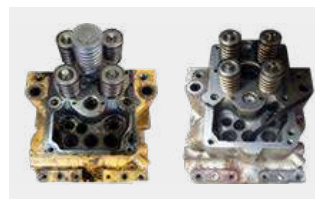
In a sector where safety is paramount, BRIO ultrasonic cleaning equipment do not cause damage to the materials nor do they alter the geometry of the surface of the parts. This makes them ideal for cleaning hydraulic systems, heat exchangers, engine parts, injection pumps, blades, turbines, etc.



Naval industry

The exclusive BRIO technology in installations that are designed and tailor-made for the naval sector. We cover all the cleaning requirements of the sector, while following the most stringent safety regulations.

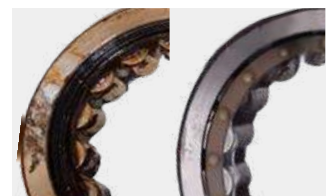
We provide turnkey projects aimed at removing deposits such as lime, carbon, oxides, grease, and paints from components such as heads, exchangers, blocks, inter-coolers, pistons, sleeves, valves and others.



Railway industry

Our BRIO equipment are the best cleaning solution for precision work such as construction and maintenance of railway networks and railway infrastructures. This is because we keep the shape of the parts unaltered, leaving them 100% free of impurities.

We adapt the designs of our machines, in size and shape, to cover any need of the sector. We clean rails, needles, check rails, crossing frogs, wheel sets, boogies, bearings, brake callipers, rotary and drive equipment, etc.



Sectors and Applications

Medical and pharmaceutical

At BRIO we strictly comply with the standards in terms of cleaning processes in production and clean rooms. Our equipment is designed and manufactured according to high standards that allow us to certify a cleaning and sanitising that is compliant with all the requirements of the sector.

We have a wide experience providing solutions for manufacturers of orthopaedic prostheses and trauma, dental implants, instruments and for the medical and pharmaceutical industries in general.



Industrial maintenance

BRIO ultrasonic cleaning equipment offer the best solution for cleaning chains, gear boxes, solenoid valves, transmissions and hydraulic sets, heat exchangers, filters, etc.

The harsh operating conditions that industrial machinery is subjected to make preventive cleaning an essential task if you want to extend their service life and ensure they operate properly. Our ultrasonic cleaning for maintenance helps the machinery work more efficiently, decreasing the risk of unexpected failures from occurring.



Graphic arts industry

We develop systems that are specifically designed for the sector, perfect for cleaning rollers, anilox sleeves and rotogravure. We also design and manufacture equipment for cleaning stereotypes, ink pots, ceramic rollers and other removable printing parts that accumulate grease, water, alcohol based or UV inks.

We completely recover the cells of rollers, leaving them at 100% of their printing capacity. This also occurs with rotogravure cylinders regardless of their size or complexity.



Electronic components

The exclusive technology offered by BRIO Ultrasonics is capable of carrying out an accurate and complete cleaning of electronic boards and circuits, saving time and reaching the smallest parts without causing any damage.

Our equipment is very efficient for treating electronic components on circuit-boards such as resistors, capacitors, transistors, coils, diodes and fuses. They are also the most effective solution for removing impurities deposited by solder flux.

