

we redefine
Ultrasonic
Cleaning Technology



ActOn Finishing is authorised distributor of Brio Ultrasonics Cleaning Systems. This technology is designed to clean, descale and strip a large range of components, for industries such as automotive, aerospace, energy, electronics, food, graphics, jewellery, manufacturing, marine, mould cleaning, medical, optical and more.

we redefine:

- Surface Finishing
- Shot Blasting & Peening
- Ultrasonic Cleaning
- Consumables
- Precision Polishing
- Subcontract Services

Why Choose Us?

We're a family run business that pride ourselves on working as a strong, unified team of specialists.

We believe in British

Born in the United Kingdom, we are unique in our product design and the manufacture of our specialist machines and consumables.

We're here for you

Being based in the heart of the country means we have easy access to all of our clients.

We have experience

With five decades of experience and knowledge in the finishing industry, we know what works for you.

We provide options

We have an impressive range of media and compounds to choose from, including one of the best polishing compounds in the market. We also provide a wide range of machinery and subcontract services to meet all of your needs.

We go the extra mile

We'll tailor our services to your needs, not the other way round. Our service is all about you.

Table of Contents

About Ultrasonic Technology	pg. 4
Finishing Applications	pg. 8
Lab Series	pg.10
Work Table Series	pg.14
Manual Series	pg.18
PRO Series	pg. 24
Multi-Stage Series	pg. 30
Anilox Series	pg. 40
BR-FOOD Series	pg. 42
Special Ultrasonic Series	pg. 44
ActOn Technology	pg. 46
Subcontract Services	pg. 48
Quality You Can See	pg. 50



Ultrasonic Cleaning Technology

How it works?

Ultrasonic cleaning is a finishing process, which works on the principle of ultrasound waves created in a liquid (usually water or/ and chemical), to clean the parts.

Component is placed in the ultrasonic tank, in a mix of water and/ or chemical. A generator and ultrasound emitter agitate the liquid mix and create the waves, resulting in small bubbles. This action penetrates the particles that should be removed from the component, such as dirt, rust, grease, oils or any other materials that have to be removed.

Benefits of ActOn Ultrasonic Cleaning Technology



Tailored to client's application



Tailored chemical solutions

High-Quality Durable Made Ultrasonic Tanks



Optimised design



Maximum insulation



Superior durability

Ultrasonic Emitters System Uniquely Designed



20-30 kHz
High power
for tough dirt



30-60 kHz
Low power
for mild dirt



Superior cleaning
100% of parts
geometry is reached



Cleans parts of any
shape in minutes



Cost effective due to
autonomy and low
consumption



Ecological and
efficient by saving
water and energy



Superior cleaning and
reduced processing
times



Maximum
energy efficiency



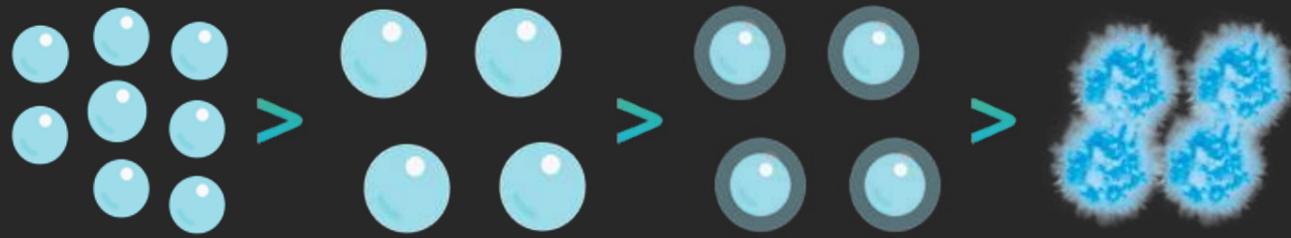
Modular emitter
system & optimised
electrical installation

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Benefits of ActOn Ultrasonic Cleaning Technology

To achieve various applications & ensure superior cleaning, disinfection, and hygiene outcomes, it's important to know how to choose the optimal ultrasonic frequency and power. Ultrasonic waves create a micro-brushing effect on surfaces, which changes based on the frequency and power used. In the following sections, we will detail how this effect is generated and offer an overview of the ideal frequency ranges for different applications.

Cavitation Principle



The pressure decreases and a large amount of bubbles are generated.

The bubbles grow in a greater or lesser measure and power according to the frequency.

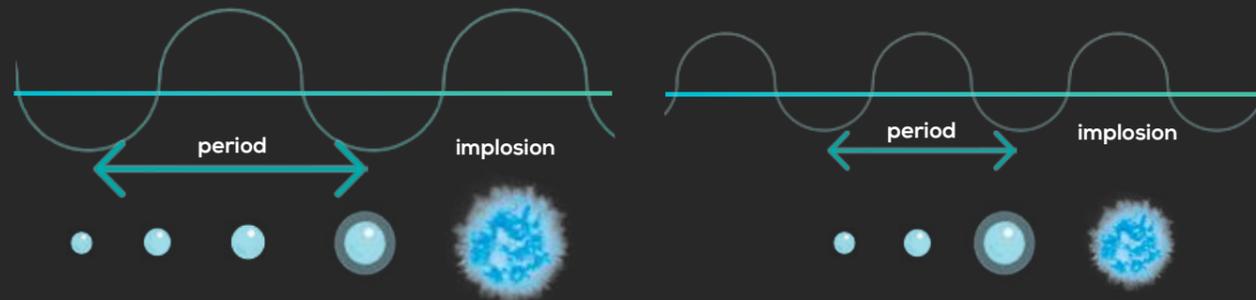
The temperature is increased until the bubbles implode, producing the micro-brushing.

The pressure increases and the bubbles are compressed.

Based on dirt to be cleaned, power can be set up as it follows:

20-30 kHz
High power for tough dirt

30-60 kHz
Low power for mild dirt



When a lower number of large size bubbles are generated, the bubbles implode with high power.

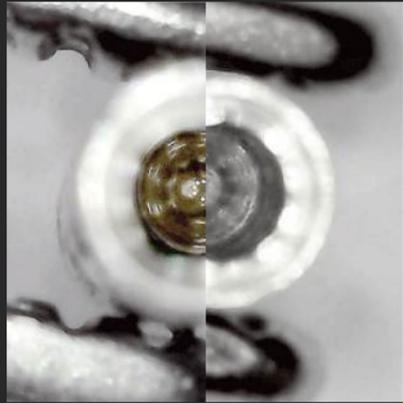
When a greater number of small size bubbles are generated, the bubbles implode with low power.

Optimal for removing tough dirt, incrustations, carbon deposits, and similar contaminants. Ideal for mechanical components, injection molds, and parts that are heavily soiled or require high-power treatments.

Perfect for mild cleaning processes, including use in clean rooms and for final finishes. Recommended for medical, surgical, pharmaceutical, optical, & prosthetic equipment, as well as any parts needing gentle treatment.



Finishing Applications



Medical, pharmacy,
optical and implants



Automotive industry



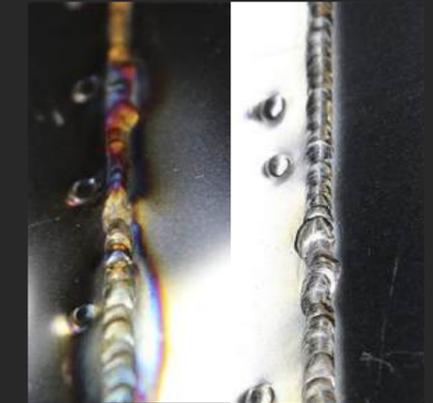
Industrial engines



Machining and bar
cutting



Food industry



Surface finishing



Naval industry



Paint stripping



Injection moulds



Aerospace industry

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LAB Series

The Lab Series includes the compact desktop equipment ranging from 3 to 30 litres. It has been designed to provide the most efficient ultrasonic cleaning technology in a lightweight and reduced size. These machines are ideal for laboratory work, perfectly sized for sanitizing small components across various sectors, including clockwork, medical, optical, veterinary, jewellery, and more. Whether you need to clean delicate instruments or intricate items, the Lab Series ensures thorough and effective cleaning.

Isolated circuit with ventilation. Adjusted design, specific for each model to prevent any possible overload from occurring. With thermal insulation to protect the circuits and transducers.

Manual stainless steel cover with a handle designed to prevent vapour leaks.



A user-friendly and intuitive control panel, which allows the user to:

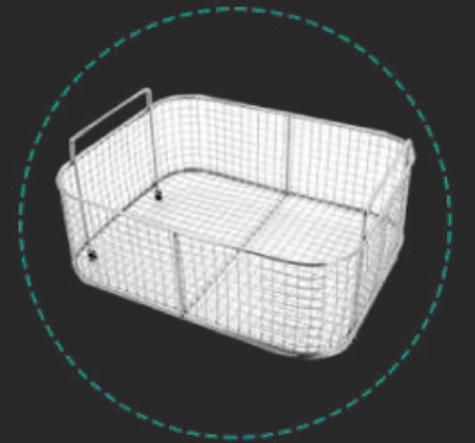
- select the working frequency
- utilise bi-frequency functions to enhance the bath's effectiveness
- control the temperature
- start or stop the ultrasounds

Designed for easy operation and transport, this equipment adapts seamlessly to any workspace, including laboratories and workshops. Built-in side handles ensure safe relocation without the risk of tipping, and rubber slip-resistant feet provide additional stability.

Interior view



The work basket is made out of stainless steel. Components can be placed manually in the tray to be cleaned. It is shaped like a grate, which allows the fluid to flow through it.



It has been built without edges, allowing to quickly and conveniently remove the accumulated dirt.

Key Features and Benefits

- Models with volumes from 3L to 30 L.
- Suitable for cleaning small parts.
- Reduced size to suit any space.
- Integrated ultrasonic generator.
- Multifrequency 40 - 33 kHz. 40 kHz for light soiling in laboratory, medical, dental, optical and watchmaking applications. 33 kHz for higher intensity suitable for cleaning heavy dirt.
- Bi-frequency Stop & Go function: for effective removal in hard-to-reach areas.
- Frequency sweep function: for a homogenous clean finish.
- Perfect for industries where a sanitised surface is mandatory.
- Energy efficient.
- Fast and low cost.
- Manufactured in AISI 304/316 for maximum durability.
- Stainless steel manual lid to prevent vapour leakage.
- Non-slip rubber feet.
- Stainless steel work basket.
- Time and temperature control with digital display.
- Interior without edges for easy cleaning.



Drain valves for changing or recycling the cleaning fluid

Technical Information

Model	Tank capacity		External Machine Dimensions in mm/ inch	Internal Machine Dimensions in mm/ inch	Heating element (kW)	Ultrasonic power (W)*
	Litres	Cu. Ft.				
BR-3 Lab	3	0.10	270 x 170 x 240 10.6 x 6.7 x 9.4	240 x 140 x 100 9.4 x 5.5 x 3.9	0.1	100
BR-6 Lab	6	0.21	330 x 180 x 310 12.9 x 7.1 x 12.2	300 x 155 x 150 11.8 x 6.1 x 5.9	0.3	150
BR-10 Lab	10	0.35	330 x 270 x 310 12.9 x 10.6 x 12.2	300 x 240 x 150 11.8 x 9.4 x 5.9	0.3	200
BR-20 Lab	26	0.91	550 x 330 x 310 21.6 x 12.9 x 12.2	530 x 325 x 150 20.8 x 12.8 x 5.9	0.5	400
BR-30 Lab	34	1.2	550 x 330 x 360 21.6 x 12.9 x 14.2	530 x 325 x 200 20.8 x 12.8 x 7.8	0.5	500

Note:
 Sizes indicated above are standard. Custom sizes can be manufactured to suit specific applications.
 Dimensions are subject to change due to design improvements.

Click [here](#) to request a quotation today!



BR-3 Lab



BR-20 Lab



BR-10 Lab



Work Table Series

Experience the full power of ultrasonic technology in a compact form with the Work Table Series equipment. This desktop solution offers all the features of the Manual series, making it ideal for small parts in workshops, factories, and industrial settings. This series includes machines with volumes from 6 L to 30 L, available with either an integrated or stand-alone ultrasonic generator.



Manual stainless steel cover with a handle designed to prevent vapour leaks. Thermal-acoustic insulation available as optional.

A user-friendly and intuitive control panel, which allows the user to:

- power switch
- safety push-button,
- digital thermostat with temperature control and
- push-button for turning on the heat and ultrasounds



Drain valves for changing or recycling the cleaning fluid

The work basket is made out of stainless steel. Components can be placed manually in the tray to be cleaned. It is shaped like a grate, which allows the fluid to flow through it.



The design and power of the ultrasonic emitters is unique for each model in order to achieve the maximum performance.

Support points for the basket that protects the emitter against impacts caused by parts.

Key Features and Benefits

- Models with volumes from 6L to 30 L.
- Suitable for cleaning small parts.
- Durable and efficient emitters due to unique hot bonding process.
- Emitters can be installed inside or outside the machine.
- Homogenous clean finish in 100% of the fluid.
- Low power consumption
- Energy efficient.
- Fast and low cost.
- Manufactured in AISI 304/316 for maximum durability.
- Stainless steel manual lid to prevent vapour leakage.
- Frequency can be set up according to the materials and dirt.
- Thermal-acoustic insulation based on closed cell elastomer. Available as optional for the lid.
- Manual control with analogue panel.
- Stainless steel work basket.
- Digital thermostat for temperature control.
- Adjustable legs in stainless steel and rubber.
- Safety module and emergency stop.

Technical Information

Model	Tank capacity		External Machine Dimensions in mm/ inch	Internal Machine Dimensions in mm/ inch	Heating element (kW)	Ultrasonic power (W)*
	Litres	Cu. Ft.				
BR-6 WT	6	0.21	440 x 345 x 445 15.5 x 12.2 x 15.7	250 x 170 x 150 8.8 x 6 x 5.3	0.3	200
BR-10 WT	10	0.35	490 x 405 x 445 17.3 x 14.3 x 15.7	300 x 230 x 150 10.6 x 8.1 x 5.3	0.5	300
BR-20 WT	20	0.70	690 x 480 x 445 24.4 x 16.9 x 15.7	400 x 300 x 150 14.1 x 10.6 x 5.3	1	500
BR-30 WT	30	1.06	690 x 480 x 500 24.4 x 16.9 x 17.6	400 x 300 x 230 14.1 x 10.6 x 8.1	1	600

Note:

Sizes indicated above are standard. Custom sizes can be manufactured to suit specific applications. Dimensions are subject to change due to design improvements.

Optional Extras

- Lid thermal-acoustic insulation.
- Filtering system.
- Stainless baskets made to customer requirements.
- Automatic filling.
- Bath saturation control.
- Automatic dosing of cleaning solution.
- Vapours extraction system.
- Features of PRO Ultrasonic Series.

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BR-6 WT



BR-20 WT



BR-30 WT

Manual Series

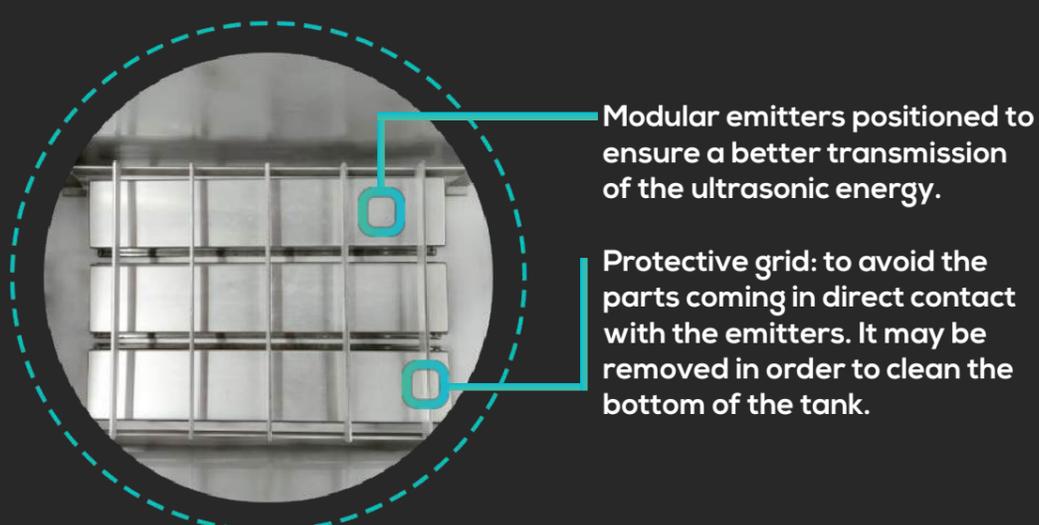
The manual series has been built with models from 60 Litres to 8000 Litres. The design includes touch screen or analogue control panel with cleaning time and temperature control. If required the key features of PRO Series can be included on these machines. Moreover the Manual Series is known for its high cleaning power and maximum energy efficiency.



The work basket is made out of stainless steel. Components can be placed manually in the tray to be cleaned. It is shaped like a grate, which allows the fluid to flow through it.



The design allows it to be fixed above the tank, leaving the parts in draining position. In addition, this worktop-height fixing allows the components to be loaded more comfortably.



Key Features and Benefits

- Models with volumes from 60L to 8000 L.
- Durable and efficient emitters due to unique hot bonding process.
- Emitters can be installed inside or outside the machine.
- High power ultrasonic generators, which provide maximum performance.
- Homogenous clean finish in 100% of the fluid.
- Low power consumption.
- Energy efficient.
- Fast and low cost.
- Manufactured in AISI 304/316 for maximum durability.
- Stainless steel lid to prevent vapour leakage.
- Frequency can be set up according to the materials and dirt.
- Thermal-acoustic insulation based on closed cell elastomer. Available as optional for the lid.
- Manual control with push-button controls and digital thermostat.
- Touch panel & PLC with temperature module available as an optional extra.
- Stainless steel work basket.
- Adjustable legs in stainless steel and rubber.
- Safety module and emergency stop.

Technical Information

Model	Tank capacity		External Machine Dimensions in mm/ inch	Internal Machine Dimensions in mm/ inch	Useful Dimensions of the Basket in mm/ inch	Height of the Worktop in mm/ inch	Heating element (kW)	Ultrasonic power (W)	Power Supply Voltage (V)	Cover	Drain Valve
	Litres	Cu. Ft.									
BR-60	88	3.10	920 x 600 x 970 36.2 x 23.6 x 38.2	550 x 400 x 400 21.6 x 15.7 x 15.7	500 x 350 x 230 19.6 x 13.7 x 9.1	970 / 38.1	2.4	600	230 - 400	Manual	11/4"
BR-80	110	3.88	970 x 670 x 970 38.2 x 26.3 x 38.2	600 x 400 x 460 23.6 x 15.7 x 18.1	550 x 350 x 250 21.6 x 13.7 x 9.8	970 / 38.1	3	800	230 - 400	Manual	11/4"
BR-150	183	6.46	1070 x 720 x 970 42.1 x 28.3 x 38.2	710 x 500 x 540 28 x 19.6 x 21.2	680 x 435 x 400 26.7 x 17.1 x 15.7	970 / 38.1	3.75	1000	230 - 400	Manual	11/4"
BR-300	351	12.40	1490 x 900 x 970 58.6 x 35.4 x 38.2	900 x 600 x 640 35.4 x 23.6 x 25.1	870 x 525 x 400 34.2 x 20.6 x 15.7	970 / 38.1	7.5	2000	230 - 400	Manual	11/4"
BR-450	465	16.42	1680 x 900 x 970 66.1 x 35.4 x 38.2	1110 x 645 x 650 43.7 x 25.4 x 25.5	1080 x 560 x 435 42.5 x 22 x 17.1	970 / 38.1	9	3000	230 - 400	Manual	11/2"
BR-650	680	24	1930 x 1040 x 970 76 x 41 x 38.2	1300 x 780 x 680 51.1 x 30.7 x 26.7	1250 x 675 x 510 49.2 x 26.5 x 20	970 / 38.1	15	4000	230 - 400	Manual	11/4"
BR-1000	1182	41.74	2360 x 1360 x 1120 93 x 53.5 x 44.1	1510 x 860 x 910 59.4 x 33.8 x 35.8	1450 x 730 x 700 57 x 28.7 x 27.5	1120 / 44	18	5000	230 - 400	Manual	11/4"
BR-2000	2228	78.68	2610 x 1700 x 1380 102.7 x 67 x 54.3	1760 x 1195 x 1170 69.2 x 47 x 46	1700 x 1050 x 880 66.9 x 41.3 x 34.6	1380 / 54.3	27	10000	230 - 400	Manual	11/4"
BR-3000	3776	133.34	2970 x 1750 x 1660 116.9 x 68.8 x 65.3	2120 x 1250 x 1425 83.4 x 49.2 x 56.1	2070 x 1190 x 1135 81.4 x 46.8 x 44.6	1660 / 65.3	36	14000	230 - 400	Manual	11/2"
BR-4000	4665	164.74	2970 x 1945 x 1733 116.9 x 76.5 x 68.2	2120 x 1445 x 1523 83.4 x 56.8 x 60	2070 x 1290 x 1215 81.4 x 50.7 x 47.8	1733 / 68.2	36	16000	230 - 400	Manual	11/4"
BR-6000	6673	235.65	3280 x 2192 x 1833 129 x 86.3 x 72.1	2430 x 1692 x 1623 95.6 x 66.6 x 63.8	2380 x 1512 x 1335 93.7 x 59.5 x 52.5	1833 / 72.1	45	18000	230 - 400	Manual	11/4"
BR-8000	8634	304.90	3650 x 2400 x 1833 143.7 x 94.4 x 72.1	2800 x 1900 x 1623 110.2 x 74.8 x 63.8	2750 x 1800 x 1335 108.2 x 70.8 x 52.5	1833 / 72.1	63	25000	230 - 400	Manual	11/4"

Note:

Sizes indicated above are standard. Custom sizes can be manufactured to suit specific applications.

Dimensions are subject to change due to design improvements.

Optional Extras

- Automatic or manual cover.
- Thermal-acoustic insulation of the cover.
- Filtering system.
 - Filtering cloth with automatic advance system.
 - Sleeve or cartridge filtering system.
 - Filter press systems.
- Tailor-made stainless baskets.
- Automatic filling.
- Bath saturation control.
- Automatic dosing of cleaning solution.
- Vapours extraction system.
- Pro series features.
 - Oil Push System with auxiliary vat.
 - Elevator with sway.
 - Intuitive touch panel.
 - Automatic mode.
 - Schedule programming.

Click [here](#) to request a quotation today!



BR-150



BR-4000



BR-60



BR-8000

PRO Series

Streamline your cleaning process with a premium unit equipped with optimised ultrasonic technology. PRO Standard models are available in sizes ranging from 150 to 8000 litres. These ultrasonic cleaning machines feature a lift with a load grid for effortless part handling, a sway system for effective dirt separation, the OPS (Oil Push System) for efficient oil removal, an intuitive touch screen, and more.

Lift With Load Grid and Sway Function:

To easily load and unload 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 sturdy and reliable design, with stainless thickness and density much higher than other equivalent models on the market. For example, the reinforced structure of our 150 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.

Control Panel with Touch Screen:

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

Load Grid:

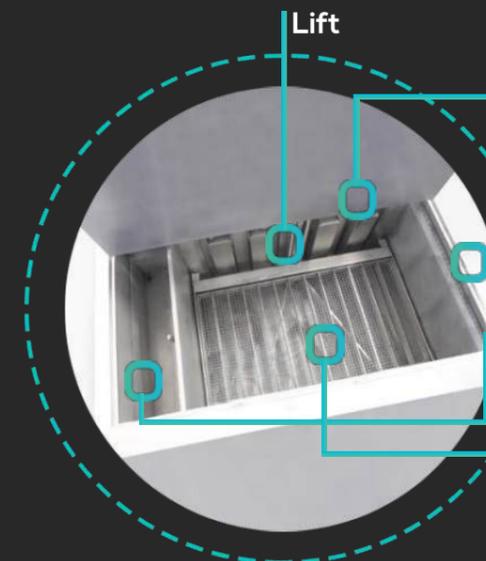
Removable parts-holder grid that allows cleaning the base of the tank. Made using a 25 x 5 x 6 mm stainless plate.

With a stainless entwined mesh measuring 2 mm ϕ 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.



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

OPS System:

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

Load Grip

OPS (Oil Push System):

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



Technical Information

Model	Tank capacity		Capacity of the auxiliary tank (Litres / Cu. Ft.)	External Machine Dimensions in mm/ inch	Internal Machine Dimensions in mm/ inch	Height of the Worktop in mm/ inch	Useful Dimensions of the Load Grid in mm/ inch	Heating element (kW)	Ultrasonic power (W)	Power Supply Voltage (V)	Maximum Load of the Hydraulic Lift (kg)	Drain Valve
	Litres	Cu. Ft.										
BR-150 PRO	183	6.46	28 / 0.9	1500 x 980 x 1510 59 x 38.5 x 59.4	710 x 500 x 540 27.9 x 19.6 x 21.2	970	680 x 435 x 400 26.7 x 17.1 x 15.7	3.75	1000	230 - 400	80	1 1/4"
BR-300 PRO	346	12.21	36 / 1.2	1680 x 1130 x 1720 66.1 x 44.4 x 67.7	900 x 600 x 640 35.4 x 23.6 x 25.1	970	870 x 525 x 400 34.2 x 20.6 x 15.7	7.5	2000	230 - 400	250	1 1/4"
BR-450 PRO	465	16.42	53 / 1.8	2055 x 1260 x 1670 80.9 x 49.6 x 65.7	1110 x 645 x 650 43.7 x 25.3 x 25.5	970	1080 x 560 x 435 42.5 x 22 x 17.1	9	3000	230 - 400	300	1 1/2"
BR-650 PRO	680	24	65 / 2.2	2260 x 1560 x 1700 88.9 x 61.4 x 66.9	1300 x 780 x 680 51.1 x 30.7 x 26.7	970	1250 x 675 x 510 49.2 x 26.5 x 20	15	4000	230 - 400	400	1 1/2"
BR-1000 PRO	1182	41.74	191 / 6.7	2700 x 1955 x 2265 106.2 x 76.9 x 89.1	1510 x 860 x 910 59.4 x 33.8 x 35.8	1,210	1450 x 730 x 700 57 x 28.7 x 27.5	18	5000	230 - 400	800	2"
BR-2000 PRO	2446	86.37	204 / 7.2	2950 x 1900 x 2520 116.1 x 74.8 x 99.2	1760 x 1195 x 1170 69.2 x 47 x 46	1,455	1700 x 1050 x 880 66.9 x 41.3 x 34.6	27	10000	230 - 400	1100	2"
BR-3000 PRO	3776	133.34	292 / 10.3	3530 x 2275 x 3164 138.9 x 89.5 x 124.5	2120 x 1250 x 1425 83.4 x 49.2 x 56.1	1,760	2070 x 1190 x 1135 81.4 x 46.8 x 44.6	36	14000	230 - 400	1500	2 1/2"
BR-4000 PRO	4665	164.74	338 / 11.9	3530 x 2380 x 3407 138.9 x 93.7 x 134.1	2120 x 1445 x 1523 83.4 x 56.8 x 59.9	1,860	2070 x 1290 x 1215 81.4 x 50.7 x 47.8	36	16000	230 - 400	1800	2 1/2"
BR-6000 PRO	6673	235.65	395 / 13.9	3840 x 2707 x 3640 151.1 x 106.5 x 143.3	2430 x 1692 x 1623 95.6 x 66.6 x 63.8	1,900	2380 x 1512 x 1335 93.7 x 59.5 x 52.5	45	18000	230 - 400	2000	2 1/2"
BR-8000 PRO	8634	304.90	425 / 15	4120 x 3400 x 3640 162.2 x 133.8 x 143.3	2800 x 1900 x 1623 110.2 x 74.8 x 63.8	1,950	2750 x 1800 x 1335 108.2 x 70.8 x 52.5	63	25000	230 - 400	2000 - 7500	2 1/2"

Note:

All above models include manual lid, OPS system and touch screen 4.3"

Sizes indicated above are standard. Custom sizes can be manufactured to suit specific applications.

Dimensions are subject to change due to design improvements.

Key Features and Benefits

- Models with volumes from 150L to 8000 L.
- Durable and efficient emitters due to unique hot bonding process.
- Emitters can be installed inside or outside the machine.
- High power ultrasonic generators, which provide maximum performance.
- Homogenous clean finish in 100% of the fluid.
- Low power consumption.
- Energy efficient.
- Fast and cost effective.
- Manufactured in AISI 304/316 for maximum durability.
- Pneumatic elevator up to 1,000 kg of load or hydraulic from 1,000 kg of load.
- Elevator sway. Process that separates detached dirt from parts.
- Frequency can be set up according to the materials and dirt.
- Thermal-acoustic insulation based on closed cell elastomer. Available as optional for the lid.
- Manual and automatic mode, with control/monitoring of the functions and complete cleaning cycle programming.
- Intuitive Touch control with PLC. Includes time slot programming.
- Parts grid to insert and remove parts.
- Oil Push System (OPS). Exclusive system that extends the life of the fluid against saturation.
- Auxiliary vat for the decanting of oils through OPS.
- Automatic lid starting 1000 litres equipment. Optional for smaller capacities.
- Adjustable legs in stainless steel-rubber.
- Safety module and emergency stop.



BR-1000 PRO

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BR-150 PRO



BR-3000 PRO

Optional Extras

- Filtering systems. Filter press, cloth, sleeve systems, etc.
- Tailor-made stainless baskets.
- Automatic filling.
- Bath saturation control.
- Automatic dosing of detergent.
- Vapours extraction systems.

Multi-Stage Series

We specialise in creating custom-designed and manufactured multi-stage ultrasonic cleaning systems that cater to each client's unique cleaning and treatment requirements. The equipment includes manual, semi-automatic, and fully automatic solutions, each with comprehensive function programming. By leveraging the latest advancements in washing technologies, we guarantee maximum optimisation and superior results. Our versatile systems can include multiple stages, such as ultrasonic cleaning, rinsing, passivation, blowing, various drying systems, and more

Automatic Filters

To easily load and unload 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.

Lids

Manual or automatic lids with the option to include lagging, heat-acoustic insulation and pre-frame to prevent any steam from leaking.

Filtering System

Filtering systems to remove particles and contaminants that may be present in the cleaning vat.

- Filtering cloth with automatic advance system
- Sleeve or cartridge filtering system.
- Filter press systems.

OPS (Oil Push System)

This is designed to remove oils, lubricants, grease and impurities via a laminar sweep and to settle to the auxiliary vat. This function extends the useful life of the bath against saturation thus increasing the efficiency of the equipment.

1. Ultrasonic Cleaning Stage

Components are cleaned, disinfected or sanitised. The vats and emitters are tailored made in order to produce the best results in each application.

2. Dual Rinsing

To remove any traces of detergent from the treated parts.

A filtering system is available to ensure a good rinsing and optimising the water consumption.

A water treatment plant is available for producing distilled water, softened water, reverse osmosis water, etc.

3. Passivation

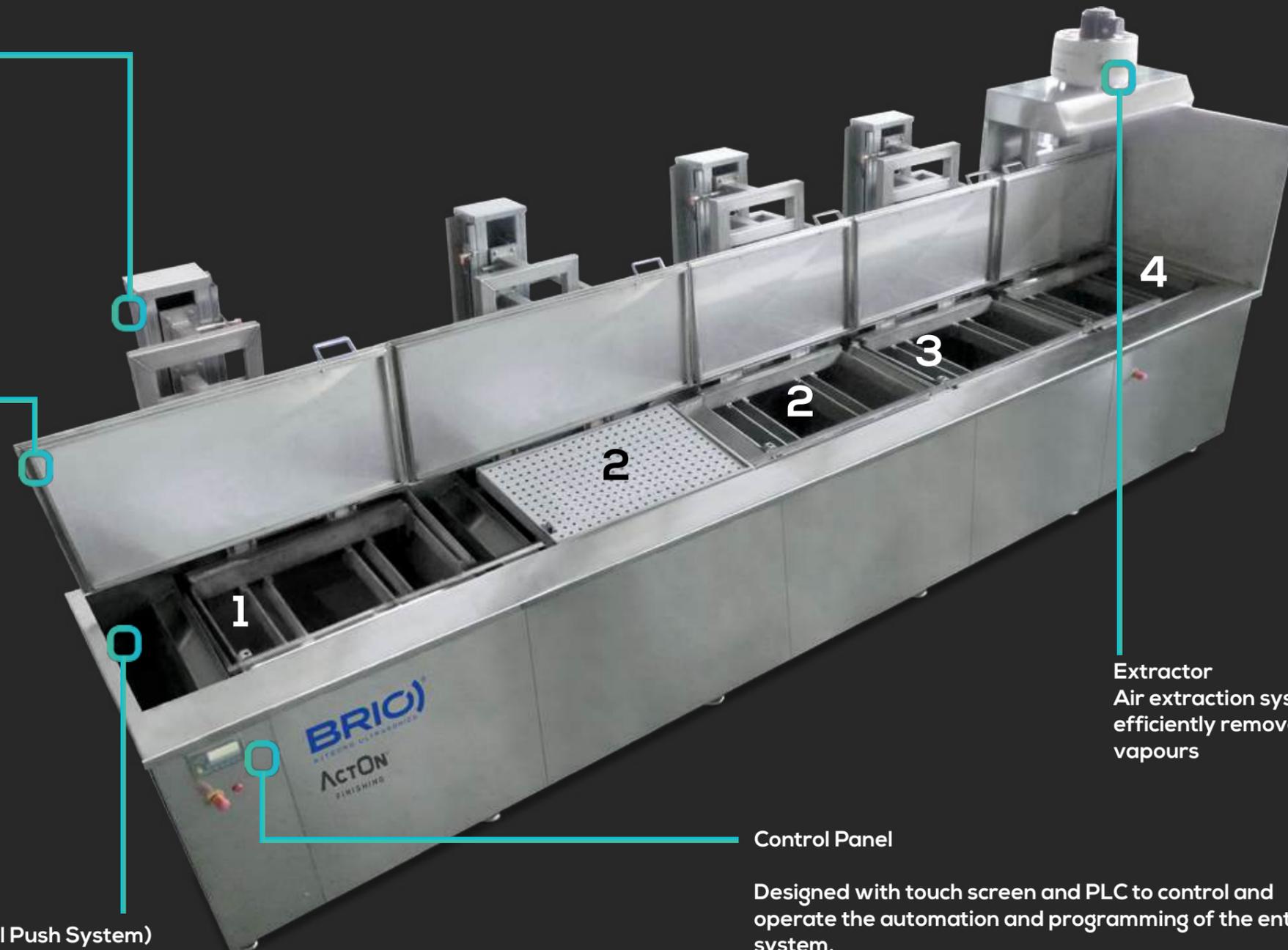
This is to protect components from corrosion, through different processes:

- Passivation treatments.
- Water-repellents.
- Oiling, etc.

4. Drying

The ultrasonic machine can be equipped with different systems:

- Hot air through convection.
- Air blade blowing.
- Vacuum drying.



Control Panel

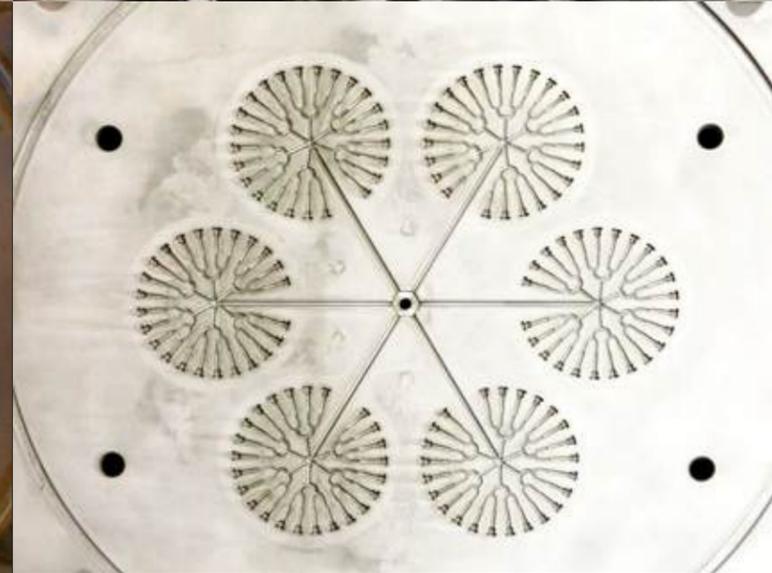
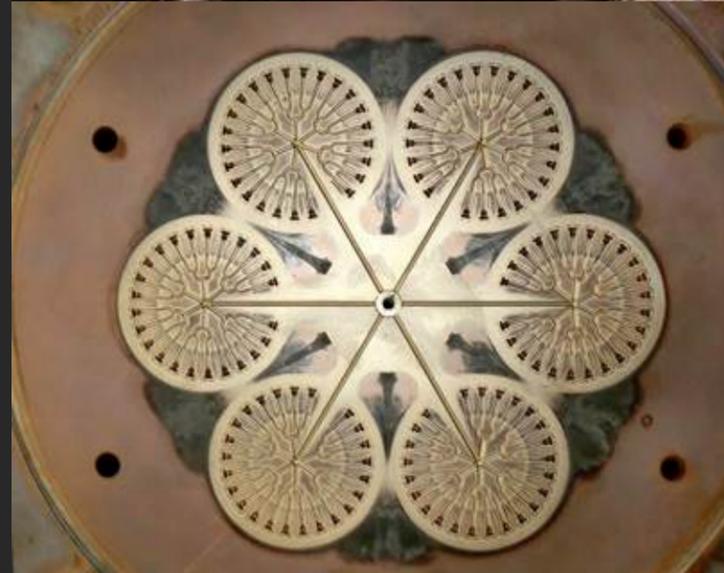
Designed with touch screen and PLC to control and operate the automation and programming of the entire system.

Extractor

Air extraction system that filters the air and efficiently removes the mist, gases and oil vapours

Key Features and Benefits

- Specific dimensions tailored to the parts being treated.
- Custom stages based on client needs, including ultrasonic cleaning, rinsing, drying, etc.
- The toughest and most efficient ultrasonic emitters in the market, thanks to the advanced hot bonding process.
- Multi-frequency technology ensures perfect cleaning finishes.
- High-power ultrasonic generators deliver maximum performance.
- Superior cleaning system ensures homogeneous cleaning throughout 100% of the fluid.
- Maximum energy efficiency with low power consumption.
- Fast and cost-effective cleaning.
- Automated processes. No need for operator.
- Constructed with high-thickness AISI 304/316 for maximum durability.
- Available with automatic basket displacement systems, stage-specific automatic elevators, automatic lids, and filling, emptying, and filtering systems, guaranteeing timely and consistent results.
- Tailored to various applications
- Baskets designed according to the size and distribution of the parts, rotating drums, etc.
- Frequency and power can be optimised based on the type of dirt, material of the parts, and installation size.
- Superior thermal-acoustic insulation using closed cell elastomer, optionally available for the lid.
- Adjustable stainless steel-rubber legs.
- Safety module and emergency stop included.



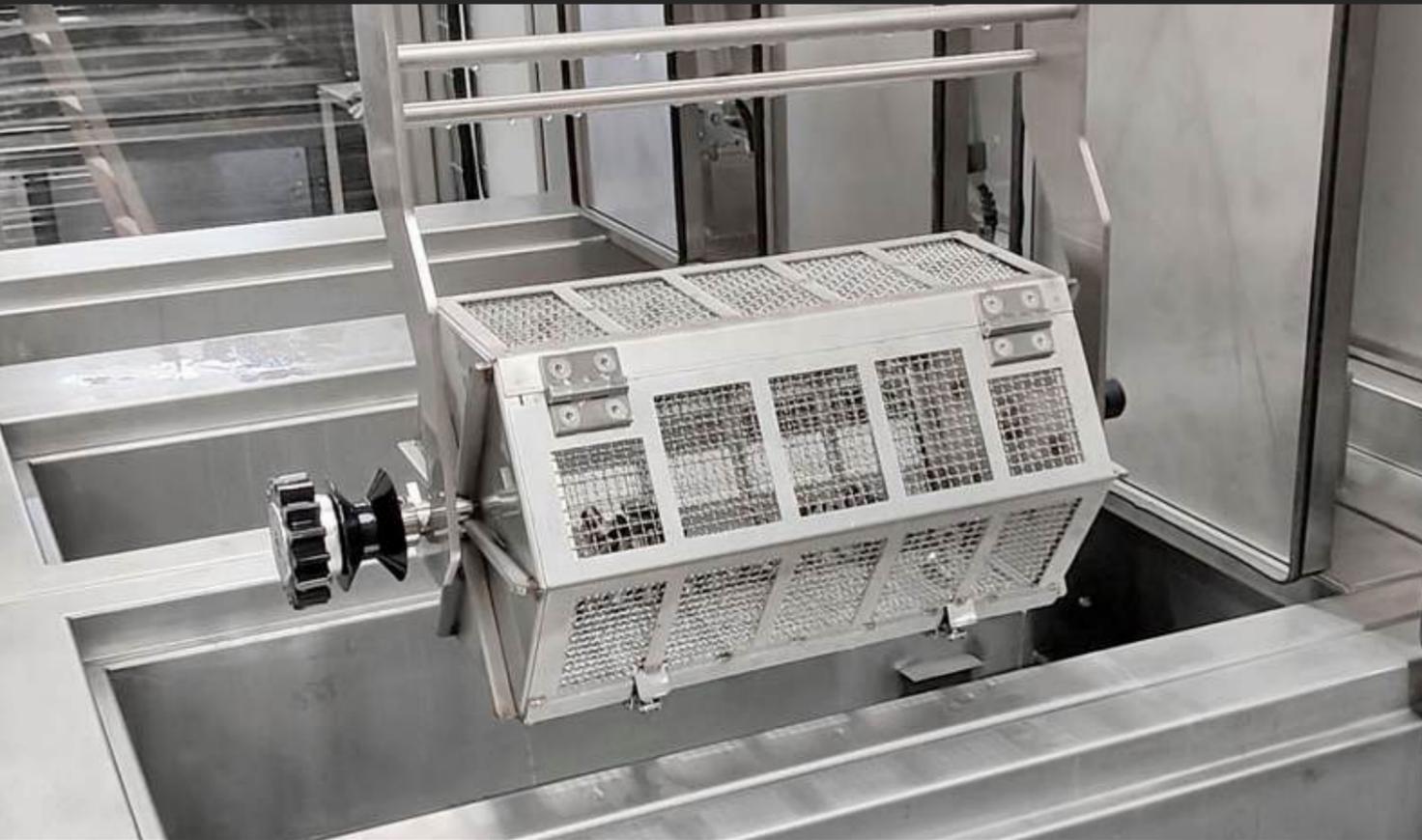
Finishing Processes Available

- Ultrasonic cleaning.
- Rinse with available filtration systems to optimise water consumption.
- Corrosion protection by passivates, water repellents, oilings, etc.
- Drying by systems such as hot air through convection, air blade blowing, vacuum drying, etc.
- Tailored stages specific to customer requirements.

Click [here](#) to request a quotation today!

Load & Unload Systems

The multi-Stage Ultrasonics machines include customised baskets and loading tools. We develop rotary loading (rotary drums) and/or bulk loading systems. The loading and unloading areas of the machine have the possibility of buffer belt feeding and can be integrated with the upstream and downstream process.



Multifrequency Technology

The new multi-frequency technology has been designed to meet the demands of applications requiring maximum precision and flawless cleaning finishes. This technology is ideal for manufacturers in the automotive, aerospace, contact lens, medical, and pharmaceutical industries (including prosthetics and implants), as well as for all types of precision mechanical components and other applications.

Our new range of multi-frequency ultrasonics includes bi-frequency configurations of 28 - 40 kHz and 40 - 80 kHz, as well as tri-frequency configurations of 80 - 100 - 120 kHz. Each configuration is tailored to the specific characteristics of the parts and the application, achieving exceptional cleaning precision and surface finishes that are nearly impossible to attain with existing technologies.

Other Features and Optionals

- Automatic elevators with sway, to remove detached dirt from the parts.
- Oil Push System (OPS). Our exclusive process of removing oils, lubricants and others from the bath to extend its useful life.
- Automatic and/or manual operation can be set up for every stage and the entire installation altogether.
- Automatic basket displacement systems. Robot arms and X - Y electric displacement systems with the size, load capacity and anchoring systems needed.
- Manual or automatic lids, with the possibility of including lagging, thermal-acoustic insulation, etc.
- Custom control panel, with touchscreen, push buttons, etc.
- Extraction systems to filter the air and remove mist, gases and oil vapours.
- Filtering systems. Filter press, filtering cloth, sleeve systems, etc.
- Water treatment systems. According water purity level needed by the process.
- Automatic filling.
- Bath saturation control.
- Automatic dosing of detergent.



BR-2000 MOLD

BR-AMS Series

Multi-Stage Automatic Ultrasonic Machines

The Automatic Multi-Stage (AMS) series comprises multi-phase installations that carry out all processes fully automated. We engineer and fabricate bespoke AMS systems tailored to the specifications of our clients. Our ultrasonic cleaning machines can be seamlessly integrated into continuous production lines, eliminating the need for manual intervention. For standalone units, the operator's role is limited to loading and unloading parts. We recommend the AMS series for a wide range of industries, from optical, medical and pharmaceutical to industrial sectors.

BR-150 AMS, Automatic Cleaning Machine with Rotating Baskets

This ultrasonic multi-stage machine has been built for the final stage of cleaning automotive components, according to strict specifications. The stages include: ultrasonic cleaning, double rinsing, hot passivation and vacuum drying. It also has a double filter system with filter bag, rotating baskets and a complete enclosure.



Automatic Displacement Systems

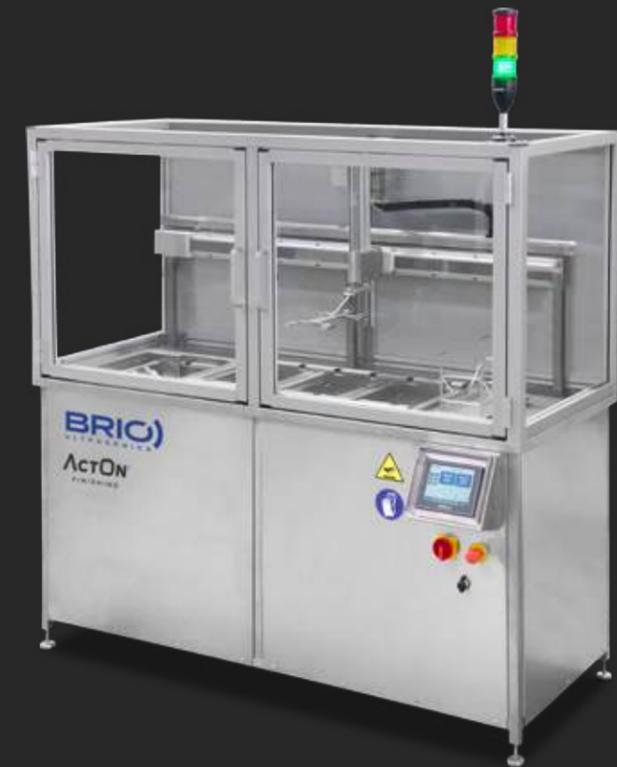
Includes: inter-stage movement systems with gantry carriage, PLC-controlled robot arm and other systems according to the needs of each customer.

Customised Tools & Baskets

specific tools/ baskets for each type of part to ensure the best results. They can be part-holder fixtures or baskets, with oscillation, rotation, etc.

BR-10 AMS, Multi-Stage Automatic Machine for Small Parts

BR10-AMS ultrasonic machine is perfect for cleaning small parts that require a multi-step process. These parts can be implants, printer nozzles, contact lenses, etc. It is built with tailored baskets and robot arm to perform the complete cycle automatically. Also, the programmes are developed based on customer's request. Available with full enclosure, filter systems, coloured warning beacon and other optional features.



BR-AMS LENS, Multi-Stage Automatic Machine for Contact Lenses

Specifically designed for contact lens manufacturers, the BR-AMS series aims to optimise the final stages of lens production. Traditionally, removing blocking wax and performing the final cleaning of lenses has been a labour-intensive and tedious manual process, often risking damage to the lenses.

With the BR-AMS series, these processes are now automated, significantly reducing time and ensuring a 100% success rate while maintaining the total integrity of the lenses. The ultrasonic cleaning stage operates by immersion: lenses are placed in a custom-designed holder and submerged in the cleaning fluid, where the ultrasonic action thoroughly cleans them. Subsequently, the lenses are rinsed and/or dried as per the customer's requirements.



BR-MOLD Series

Multi-Stage Injection Mold Cleaning Machines

BR-MOLD series has been built based on the extensive experience gathered while working with manufacturers from the sector. The machines are designed according to the mold size and the production and automation requirements of the customer. They incorporate stages such as ultrasonic washing, rinsing, anti-corrosion protection, drying, and more. BR-MOLD expedite the mold change process with minimal consumption and maximum efficiency, delivering optimal results for injection molds made of zamak, magnesium, plastic, rubber, and other materials.

BR-MOLD 800, Mold Cleaning Machine with Gantry Carriage

This system has been designed for aluminium, magnesium and zamak injection moulds. Stages include ultrasonic cleaning, rinsing and anti-corrosion protection stages. It is built with automatic lids, made-to-measure baskets, active carbon filter and gantry carriage for moving between stages.

Customised Displacement Systems

We manufacture manual, semi-automatic BR-MOLD systems with gantry carriage or fully automatic with X-Y displacement governed from the PLC.

Automatic Lids

Automatic opening and closing by means of a pneumatic arm system, all controlled from the touch screen with PLC.

Tailored Basket

Baskets designed for the cleaning of different mould models in two heights, making the most of the capacity of the tanks.

Activated Carbon Filtering System

Closed circuit filtration with filter tank, recirculation pump, anti-spill tray and all necessary piping.



Click [here](#) to request a quotation today!

ANILOX Series

ANILOX Series has been created for cleaning rollers and sleeves. To achieve maximum performance from an anilox roll, it is essential to implement preventive cleaning and maintenance practices. Poor cleaning practices are a significant factor, leading to 80% of rolls being replaced before reaching their expected lifespan. Common issues include the use of aggressive chemicals to remove dried ink, which cause micro fractures in the cell walls and shorten the anilox roll's life. Additionally, inadequate maintenance results in a gradual loss of volume, causing deviations in the final tone desired by customers.

After extensive laboratory testing with anilox roll manufacturers and printers, an ultrasonic system was developed that provides a definitive solution for the cleaning and maintenance of these rollers. Our exclusive ultrasonic cleaning technology ensures the best possible care and maintenance for anilox rollers of any size.



BR-700 ANILOX

Key Features and Benefits

- Models available for cleaning more than one roller.
- Reaching the maximum useful life of the rollers.
- No production rejects due to printing defects.
- Great savings in ink consumption.
- 100% volume recovery at all line depths after each wash.
- Exclusive system of continuous rotation.
- The most durable and efficient emitters on the market thanks to our hot bonding process.
- High power ultrasonic generators. They provide maximum performance ultrasonics.
- Maximum energy efficiency and low power consumption.
- Fast and cost effective.
- Cleaning in record time without the need for an operator during the process.
- Manufactured in high thicknesses AISI 304/316 for maximum durability.
- Superior thermal-acoustic insulation based on closed cell elastomer. Optional for the lid.
- Intuitive Touch control with PLC. Includes time slot programming.
- Adjustable legs in stainless steel-rubber.
- Safety module and emergency stop

Click [here](#) to request a quotation today!

BR-FOOD Series

The BR-FOOD line has been specially designed for maximum cleaning, sanitising and disinfection results. Our technology is the only one capable of meeting the industry's high safety and hygiene standards. We manage not only to completely eliminate bacteria, but also to inhibit the growth of microorganisms.

We have continuous cleaning machines, which we adapt and integrate into the production lines of each customer. We also manufacture single-stage and multi-stage automatic machines. These can be equipped with a lifting system, oil decanter, intuitive PLC control and touch screen. All machines are manufactured in AISI 316, with maximum anti-corrosion protection for the food sector.

Special Cleaning Detergents

For Food Industry

The chemicals we offer for this industry enhance the effect of ultrasound for sanitising, cleaning and disinfection applications. The following are tailor-made for all the needs of the food industry.

BRCLEAN US12: alkaline sanitising detergent with cationic surfactant additives.

BRCLEAN US11: alkaline sanitising detergent with fatty amines.

BRCLEAN US21: acid sanitising detergent with organic acids and cationic surfactants.

BRCLEAN US31: neutral sanitising detergent with non-ionic and cationic surfactants.

Click [here](#) to contact us for a Free Finishing Trial today!



BR-150 PRO FOOD

Technical Information

Model	Tank capacity		Internal Tank Dimensions in mm/ inch	Useful Internal Tank Dimensions in mm/ inch	Heating element (kW)	Ultrasonic power (W)*	Maximum Load in kg
	Litres	Cu. Ft.					
BR-150 PRO FOOD	192	6.78	710x500x540 27.9x19.6x21.2	680x435x330 26.7x17.1x12.9	3.75	1200	80
BR-300 PRO FOOD	346	12.21	900x600x640 35.4x23.6x25.2	870x520x385 34.2x20.4x15.1	7.5	2400	250
BR-450 PRO FOOD	480	16.95	1120x660x650 44x25.9x25.5	1080x550x435 42.5x21.6x17.1	9	3600	300
BR-650 PRO FOOD	680	24.01	1300x780x670 51.1x30.7x26.3	1250x670x510 49.2x26.3x20	15	4800	400
BR-1000 PRO FOOD	1200	42.37	1500x930x880 59x36.6x34.6	1470x740x670 57.8x29.1x26.3	18	6000	800
BR-2000 PRO FOOD	2228	78.68	1730x1120x1150 68.1x44x45.2	1700x1050x880 66.9x41.3x34.6	24	10000	1100
BR-3000 PRO FOOD	3024	106.79	2100x1200x1200 82.6x47.2x47.2	2070x1110x1115 81.5x43.7x43.8	36	14000	1500
BR-5000 PRO FOOD	5152	181.94	2300x1600x1400 90.5x62.9x55.1	2250x1500x1315 88.5x59x51.7	48	20000	2000
BR-7000 PRO FOOD	7560	266.97	2700x2000x1400 106.2x78.7x55.1	2650x1900x1315 104.3x74.8x51.7	60	25000	2000 - 7500



BR-FOOD PO 6K

Special Ultrasonic Equipment

At ActOn Finishing, we excel in developing tailored solutions to meet any customer need. Treating pieces with unique characteristics requires custom design and manufacturing to ensure optimal results. Our bespoke developments can include specialised systems for holding and transporting parts, lifting mechanisms for heavy loads, custom dimensions for cleaning tanks, and seamless integration into customer facilities. Regardless of the type of dirt, shape, material, or weight of the parts, we consistently deliver the best cleaning and treatment solutions for each customer.

Ultrasonic Cleaning Machine for Large Components

This is a 15000 L machine built for cleaning large parts, with an elevator designed for very heavy loads. Made for all the industrial sectors that need to treat pieces of large dimensions, especially naval, energetic, nuclear and aeronautical



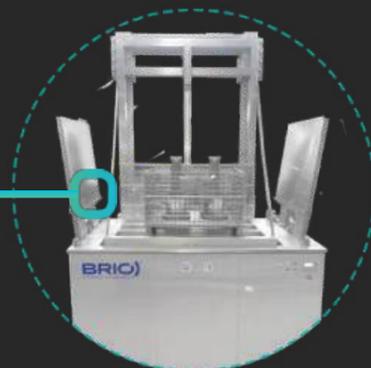
BR-700 ANILOX

Custom Parts Support Design

We design specific supports for all types of components, regardless of their shape or size. We carry out the necessary optimisations so that our machines perform to the maximum with both the largest and the smallest piece.

Heavy Loads Elevators

We build reinforced elevators with hydraulic technology that allow us to work with heavy parts.



Ultrasonic Cleaning Machine for Production Lines

At ActOn we also offer automated ultrasonic systems that can be installed in a continuous production line. Producing for 24 hours, 7 days a week, with maximum cleaning times per piece of 45 seconds. We meet the cleaning requirements of the customer in specifications under cleaning standard or ISO.

Automation for Production Lines

Our machines can be coordinated with robot arms, work in continuous lines and adapt to all types of automations of our customers, ensuring their production objectives.

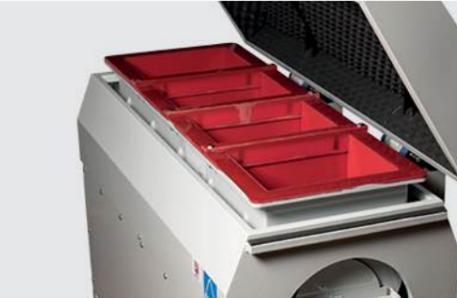


we manufacture



Bowls

Each of our Bowls are simple to operate, highly efficient, and manufactured in classic designs and sizes to meet your unique applications.



Troughs

We offer Troughs in many different sizes and an infinite choice of length and width combinations, making them one of our most versatile. These are particularly useful for larger components.



Duals

The orbital Dual finisher works to both deburr and dry in one single unit. This is both an excellent and economical finishing option.



Dryers

Our unique, elliptical-shaped Vibratory bowl drying machines are compact in size, and simple to operate. The design provides the flexibility to use it as an effective 1 lap drying process or a multi lap process. We also offer centrifugal dryers, conveyorised ovens and rotary dryers.



Wheel Polisher

Suitable for achieving a highly polished finish on wheels with different sizes (up to 610 mm), the AWP188 machine has been designed to be simple to operate and to produce excellent results. The wheel polisher is great for grinding, smoothing and polishing processes.



Centrifugal High Energy

Engineered with the latest technology, the drive mechanism is designed to produce high g-forces, resulting in shorter process times. This technology can be used for both wet and dry processes.



Centrifugal Disc Finishing

Centrifugal Disc finishing machines have been designed to be reliable and easy to operate. The spinning motion of the disc machine is given by the disc situated at the bottom of an open barrel. The rotating disc makes the media, compound and parts to move in a rolling motion, resulting in effective finishing process in the shortest time.



Waste Water Treatment

During the finishing operation, the effluent can be polluted with oil, media and metal fines. Our customers trust us to help select a waste water treatment system that complies with the industry's growing regulations. Once processed, the effluent is treated in the ActOn centrifuge system before being discharged to the drain or recycled.



Shot Blasting Cabinets

We offer a range of Shot Blast Systems to help our customers achieve the surface finish they need every time. Whether you require to descale, remove corrosion, mill scale, paint or rust, achieve a smooth finish, deflash, polish or strengthen the metal we will offer you full support every step of the way.



Wheel Blasting Systems

At ActOn we now offer a range of Wheel Blast Systems to help you achieve the surface finish you need. We can cater to all your application requirements including descaling, removal of corrosion or rust, paint stripping, de-flashing, achieving a smooth finish, shot peening, polishing and surface preparation prior to coating.



DLyte Technology

DLyte Finishing Technology is a fully automatic finishing system which enables you to deburr, grind, surface finish & mirror polish in one step. It is used for metal parts which require high performance or superior finishes, including steel and stainless-steel, cobalt chrome, titanium, nickel and other common metal alloys.

Subcontract Service

On top of our state-of-the-art machinery and consumables, we also supply a range of support & training services. Moreover, we'll tailor our services & products to your needs, not the other way around. Our finishing service is all about you.

We suit our Finishing Technology and Subcontract Services to cover your needs. From a proved surface finishing technology we will adapt it according to your requirement. Just [contact us](#). We will do the rest.

Custom project development:



Don't just think about it.
It's now time to **ActOn** it.



CHEF, CLM, CDF, Shot Blasting & Vibratory Finishing Subcontract



Inspection Services



Installation, Training, Maintenance Services



Equipment Refurbishment & Spare Parts Service

What Our Customers Say

“Professional, knowledgeable, on-time, good value and friendly. You couldn’t want for more. ActOn are always the first place on our list for part finishing.”

Samuel Nottage-McNeice, MAVEN Technology

“ActOn were quick to develop a solution for the shell cleaning system. The disc finishing machine has improved our throughput significantly and we are pleased with the quality of machine that they have manufactured and installed. We look forward to working with ActOn on future collaborative projects.”

Henry Illsley (Shell Process Engineer), Rolls Royce Bristol



Quality You Can See

We pride ourselves on our excellence, and over the years we have successfully demonstrated an ongoing compliance with ISO quality and environmental standards. We’re also an approved supplier for many of our industries, including medical and aerospace.

For ISO, we currently hold:



We're proud members of the 'Made in Britain' campaign.

“The bitterness of poor quality remains long after the sweetness of low price is forgotten.”

Benjamin Franklin

we redefine

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