

# ROWASHER

ECO-FRIENDLY PARTS WASHERS

## THE NEW GENERATION BIOREMEDIATING PARTS CLEANING SYSTEM



[www.rozone.co.uk](http://www.rozone.co.uk)



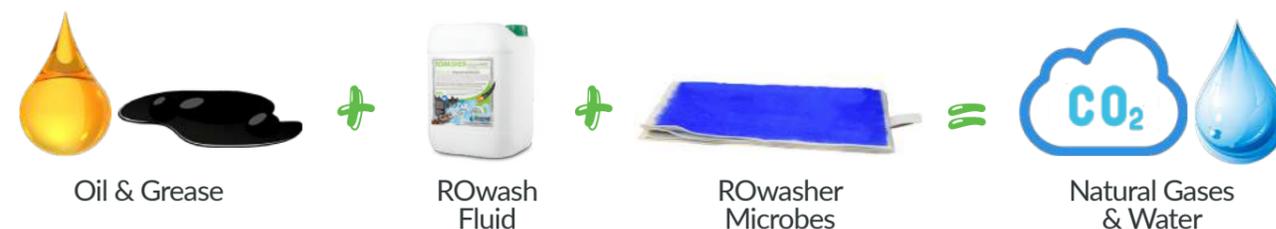
**ROZONE**  
INNOVATE • SUSTAIN • PERFORM



# ROWASHER

ECO-FRIENDLY PARTS WASHERS

Using the innovative technology of bioremediation, the ROWasher provides a powerful cleaning performance whilst dramatically lowering waste fluid generation. This eco-friendly parts washer reduces the expense of hazardous waste removal, brings savings to the user and safeguards the health and safety of employees.



Heated to 42°C, Optimum temp for microbes, cleans better, more pleasant to use.



## CUSTOMER PROMISE

The Rozone team are committed to giving our customers tailor-made cleaning solutions to suit their requirements. Our service and products will provide you with confidence in excellent cleaning results and, at the same time, reduce your impact on the environment and take the best care of your staff. Our business is founded on care and dependability, providing exceptional product quality, reliability and delivery at competitive prices. We unravel our customers' problems, by listening and determining the best outcome. We are proud of our knowledge and quickly respond to customer needs, providing a service that can be counted on.

## KEY BENEFITS OF THE ROWASHER

KEY BENEFITS	ENVIRONMENTAL BENEFITS	HEALTH & SAFETY BENEFITS
<ul style="list-style-type: none"> <li>Solvent free</li> <li>Non-flammable, non-hazardous degreasing fluid</li> <li>Heated to 42°C, better cleaning, more pleasant to use</li> <li>No monthly service contracts</li> <li>Reduced waste disposal costs</li> <li>Energy cost savings with inbuilt Eco-mode</li> </ul>	<ul style="list-style-type: none"> <li>Lower risk to the environment</li> <li>No VOC emissions</li> <li>No "Solvent Emissions Directive"</li> <li>Improved carbon footprint</li> <li>Assists compliance with latest legislation such as ISO14001</li> </ul>	<ul style="list-style-type: none"> <li>No risk to employees</li> <li>Reduced PPE requirement</li> <li>Non-toxic degreasing fluid</li> <li>No vapours</li> <li>Simplified CoSHH reporting</li> </ul>

## HOW THE ROWASHER WORKS

**1**

Oil and grease are washed off the dirty part and flow through the Microbial Filter Mat in the sink into the ROWasher tank.

**2**

The Filter Mat is the KEY to the system - it contains 200 million oil-eating microbes and traps particles down to 50 micron.

**3**

Heated to 42°C, the microbes become active in the ROWash Degreasing solution and eat the oil and grease turning them into harmless CO<sup>2</sup> and water - effectively recycling the fluid.

Pictures are for illustrative purposes only. Rozone reserves the right to change specifications at any time.

## SCIENCE LED CLEANING

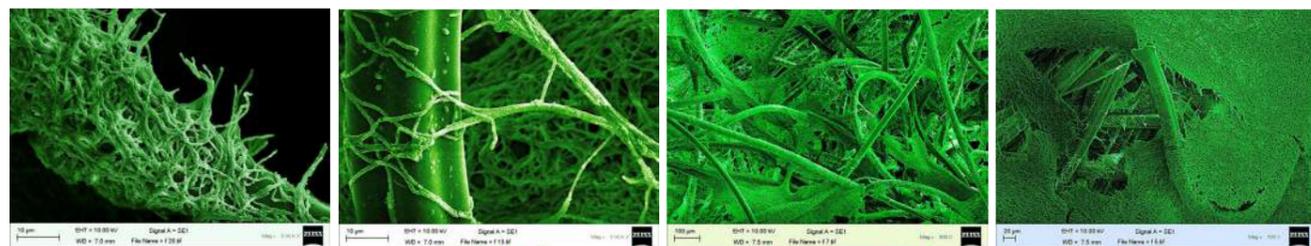
Our ROWasher machine delivers the best cleaning performance possible. We have developed the fluid and the microbial filter mat with our in-house scientists, formulation chemists and the microbiology team at the University of Wolverhampton.

**It has taken 384 laboratory hours, 288 tests analysing 25 prototype fluid variants for compatibility with our microbe selections. We have tested the best surfactant levels, temperature and cleaning effectiveness on multiple industry contaminants.**

Our ROWash fluid, ROWasher Microbial Filter Mat and Microbial Booster provide the best in bioremediation and can be used in any suitable parts washer.

## ROWASHER MICROBIAL FILTER MAT AND MICROBIAL BOOSTER

*"This is not just a mat, this is a ROWasher Microbial Filter Mat. This is a home and a breeding ground for our oil-eating microbes."*



Each organism included within our ROWasher Microbial Filter Mat undertakes a different but important function. The microbes degrade hydrocarbons (components of oil) at different rates. We have selected microbes that thrive in aerobic conditions (with oxygen) to keep the parts washer fluid clean and those which prefer anaerobic conditions (without oxygen) to deal with the sludge at the bottom of the machine. Our microbes grow best in the ROWash formulation - the fluid contains their vital diet of essential salts, nitrogens and phosphors needed for reproduction, growth and activity.

We have proven scientifically that the filter mat is the best way of delivering the microbes into the ROWasher system. It acts as scaffolding for the microbes to cling, grow and breed on the fibres to form a reservoir of oil eating microbes. This bio film means that for the month-long life of the filter, there is a constant supply of microbes degrading the hydrocarbons and maintaining the optimum cleaning performance of the parts washer.

## ROWASH DEGREASING SOLUTION

We set out to develop a degreasing solution that:

- Provides the best cleaning performance
- Is compatible with oil-eating microbes to guarantee the best oil degradation
- Requires no hazardous labelling

Our scientists have formulated ROWash. It is a degreasing solution that is as powerful as solvent but without the hazards.

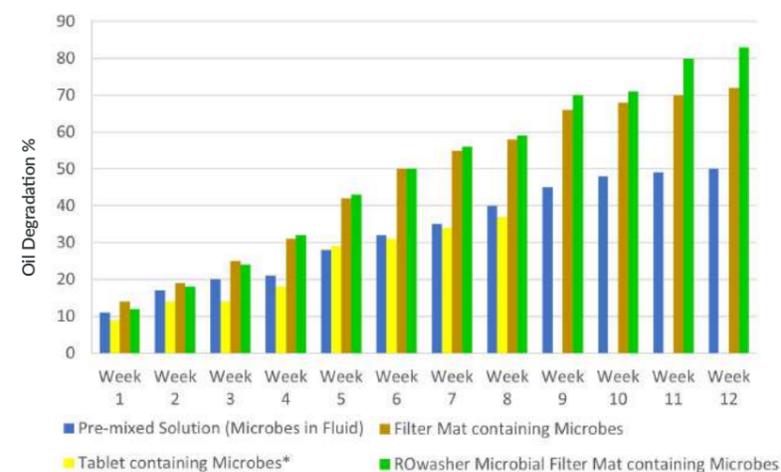
The concentration of surfactant in our ROWash formula has been specially chosen by our Chemists to make the contaminant particles (hydrocarbons) the smallest they can be, so the microbes can easily break them down. This ensures the ROWasher fluid stays cleaner for longer.

The ROWasher heats its ROWash Degreasing Solution to 37°C and maintains this constant temperature to provide consistent cleaning results throughout the year. 37°C provides the optimum growth conditions for our microbes.

Heat is ideal for reducing the viscosity of oil and grease so we have designed the ROWasher to increase its fluid temperature to 42°C when in-use allowing quicker, more effective cleaning of oily parts.

## OUR BIOREMEDIATION LEADS THE WAY

Oil Degradation Rate  
ROWasher v Competitors



The figure shows the oil degradation rate in the ROWasher over 12 weeks compared with competitor bioremediating parts washers.

The key denotes the different microbe delivery methods.

Tests conducted by University of Wolverhampton.

\*Results only recorded to 8 weeks due to machine failure.

## ROWASHER IS THE CHEAPEST TO RUN

ROWasher's running costs are the lowest versus all other bioremediating parts washers on the market.

This data has been collected in controlled laboratory trials using the ROWasher and four competitor machines. Costs have been worked out to include energy, fluid, filter and booster costs. ROWasher is more than twice as efficient as the previous Rozone parts washer, in terms of its fluid evaporation rate. This means cheaper running costs as less fluid needs to be purchased.

## KEY FEATURES OF THE ROWASHER

- Robust double-skinned tank for strength and energy savings
- Automatic energy saving Eco-Mode
- Fully removable electronics module for easy maintenance
- Easily maintained in-house with plug and play features
- No oxygen pump required saving on machine running costs
- Static, Mobile, Large Sink models
- Made in the UK. This has significantly reduced our environmental footprint

## COMPLIANCE

- ROHS • IP65 compliant • EN60335
- EN61000 • EN ISO 12100:2010
- European Machinery Directive MD2006/42/EC

## ECO MODE

The ROWasher features an energy saving Eco Mode, where the temperature drops to 37°C when not in use (overnight and weekends). This saves on energy costs and creates the ideal environment for the microbes to grow.

£

Eco Mode reduces energy consumption

## EASY MAINTENANCE

The ROWasher is safe and easy to maintain in-house:

- Change the Microbial Filter Mat monthly to replenish the microbe colony
- Top-up the ROWash Solution when the low fluid indicator light shows
- Fully removable electronics module for easy maintenance
- All electrical parts are housed in a control box unit
- The control box is completely removable for servicing ease
- This minimises WEEE disposal



£  
Lowest energy consumption of all bioremediating parts washers

The system comprises of three parts: the ROWasher parts cleaning machine, our ROWash Degreasing Solution and ROWasher Microbial Filter Mat.

## CHOOSE THE ROWASHER TO SUIT THE WAY YOU WORK

All machines come with the following as standard:

- Heats to 37°- 42°C
- 1,000 watt industrial thermostatically controlled heater
- Automatic energy saving mode
- 60L tank capacity
- Super capacity pump 15L per minute
- Flow control timer
- Flexible nozzle with highly visible orange tip to control fluid aim
- Powerful adjustable flow rate
- Self-cleaning brush to agitate stubborn dirt
- A 200 micron basket filter in sink tray to trap larger particles
- Safety feature automatic switch off pump and heater if minimum fluid level is reached
- Heavy duty MDPE

### STATIC ROWASHER

The Static ROWasher is the classic design which fits most applications and has everything you need in a manual parts washer.

- 150kg load capacity
- Overall Dimensions: W 71cm x L 86cm x H 106cm  
Inside sink: W 58cm x L 67cm x D 17cm



### MOBILE ROWASHER

The Mobile ROWasher is the ideal solution when you need a cleaning station to come to you. Loaded with all the same features as the Static ROWasher but with high quality 360° rotational front wheel castors and locking brakes for easy, safe manoeuvrability. Cleaning where you need it.

- 150kg load capacity
- Overall Dimensions: W 71cm x L 86cm x H 108cm  
Inside sink: W 58cm x L 67cm x D 17cm

### XL ROWASHER

The XL ROWasher comes with an extra large sink top to manage all jobs large or small. Its two self-cleaning flo-thru brushes means it can be used as a two person work station.

- 200kg load capacity
- Overall Dimensions: W 97cm x L 126cm x H 109cm  
Inside sink: W 80cm x L 101cm x D 19cm



## CHOOSE THE ROWASH SOLUTION FOR THE MATERIAL YOU ARE CLEANING

ROwash Degreasing Solution is designed to degrease oily parts quickly and effectively.

- It is a pH neutral mix of emulsifiers and surfactants that has been specially formulated by our Scientists.
- It contains no known carcinogens, has no flash point and releases no vapours or VOCs.
- ROwash is a biodegradable, non-toxic, non-caustic and non-hazardous oil dispersant and degreaser.
- ROwash is a degreasing solution that is as powerful as solvent but without the hazards.

### ROWASH 03 - GENERAL INDUSTRIAL



ROwash 03 is our general purpose industrial degreasing solution used across a wide variety of industry sectors. It is highly efficient cleaning off contaminants such as motor oil, bearing grease, cutting fluids and hydraulic fluid. NSF certified.



### ROWASH 06 - SPECIALIST METALS

ROwash 06 is our degreasing solution for cleaning specialist metals. It is not corrosive on a wide range of yellow and ferrous metals such as aluminium, copper, iron and steel. The unique blend of surfactants in ROwash 06 effectively reduces the surface tension allowing deposits to be easily rinsed from metal surface without streaking. NSF certified. Suitable for the Aerospace Industry. Tested and approved in accordance with:

- Boeing BSS7432B • AMS1526C • Douglas CSD#1 • Airbus industries AIMS09-00-002

### ROWASH BIKE



ROwash Bike is designed for cleaning bike parts. It has been specially formulated by our Scientists to break down the hydrocarbons in bike oils and greases quickly to leave no residue. Bike Workshops can clean chain rings, cassettes, derailleurs, chains, or an entire drivetrain within seconds using ROwash Bike. It is safe to use on metal, plastic, rubber, and seals.



	Automotive	Agricultural	Aerospace	Cycle Industry	Hydraulic Oils	Food and Beverage	Gear Motor Oil	General Industry	Heavy Industrial	Defence	Marine
ROWASH 03	*	*		*	*	*	*	*	*	*	*
ROWASH 06 Anti-corrosion properties	*	*	*	*	*	*	*	*		*	*
ROWASH Bike				*							

## CHOOSE THE MICROBIAL FILTER MAT TO MEET YOUR CLEANING DEMANDS

The ROWasher Microbial Filter Mat is the key component of the ROWasher parts cleaning system. It is designed to deliver our microbes into the ROWasher system where they break down or "eat" oil and grease washed off dirty parts.

The top white Filter Mat layer is designed to trap large particles up to 50 microns whilst the blue layer provides support for the microbes to breed and grow a microbial reservoir to be released into the ROWasher.

There are different types of microbes in our Filter Mat designed to degrade different types of oil and grease. All are Bio-Safety Level 1 Microbes which are non-pathogenic or no risk to humans or animals.



The ROWASHER MICROBIAL FILTER MAT must be changed every month to keep the microbe colony healthy and maintain the cleaning performance of ROWasher.

**STANDARD SINGLE LAYER FILTER** The Single Layer Filter has one white layer and one blue layer.

**HEAVY USE MULTI-LAYER FILTER** The Multi-Layer Filter works in the same way introducing microbes into the ROWasher system but has four white layers on the mat to trap dirt and debris - designed to be peeled away once a week for optimum performance.

### MICROBIAL BOOSTER

The Microbial Booster is a liquid form of concentrated microbes. Designed to keep microbe activity at optimum performance in your parts washer, it helps fluid stay cleaner for longer.

Our Microbial Booster contains specially selected microbes which offer both anaerobic as well as aerobic bioremediation. This means that they help reduce the sludge deposits that can form at the bottom of the parts washer tank and help extend the life of the parts washer pump and heating element.

We recommend adding 250ml Microbial Booster every 3-6 months dependant on usage or as required.



### MICROBIAL BIKE BOOSTER

Our microbiologists have specifically formulated Microbial Bike Booster for the Cycle Sector. It is a liquid form of concentrated microbes that aid the breakdown of carbon based lubricants typically found in the cycle industry.

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## ACCESSORIES

Our ROwasher Brushes will outperform and outlast all other parts washer cleaning brushes. Made of heavy-duty construction with high quality bristles, we have a brush for every cleaning application. Soft, medium, stiff and brass brushes available.

- More bristles by volume than any other parts washer brush
- Polyester bristles - do not absorb water
- Holds its shape - excellent bend resistance
- Good abrasion resistance
- Ultra-strong two-component Epoxy adhesive construction
- Ergonomic handle design

### SOFT FLOW THROUGH BRUSH

For cleaning delicate areas



### MEDIUM FLOW THROUGH BRUSH

For light cleaning



### STIFF FLOW THROUGH BRUSH

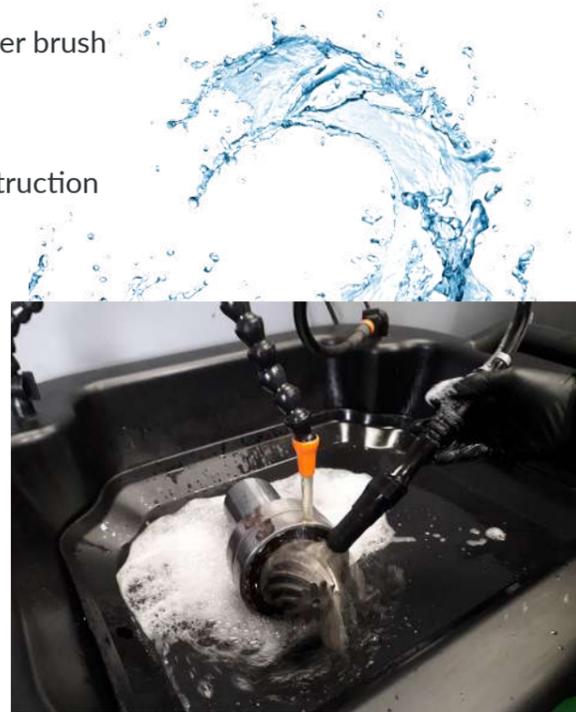
For removing stubborn dirt from tight spaces



## STANDARD PARTS CLEANING BRUSHES - PACK OF 03

This pack of three Standard Parts Cleaning Brushes contains all you need for any cleaning job. A soft brush for delicate areas, medium brush for general cleaning and a stiff brush for those tough, stubborn stains.

- Larger bristle volume
- Better shape retention
- Wooden handle construction
- Ultra strong two-component Epoxy adhesive construction



### BRASS BRUSH

Durable brass bristles for cleaning steel parts and machinery



## AUTOMATIC AQUEOUS SPRAY WASH SYSTEMS

Whilst ROwasher is ideal for the manual cleaning of individual parts or when inspection while cleaning is required; our range of stainless steel cleaning machines are designed to degrease a number of parts in a short space of time or clean components with hard to reach areas.

Our HOTWASH machines provide automated cleaning that leaves technicians free to work on other tasks, increasing workshop productivity and saving on costs.

Parts are loaded manually onto the motorised stainless steel basket and the combined action of temperature, pressure and chemical action allows for the removal of oils, fats, greases as well as incrustations of any kind due to mechanical use.

Hot air accumulated during the wash cycle results in rapid drying of the parts, providing an entirely automatic, cost effective and safe cleaning process.



## SURFACE TREATMENTS

Now that your parts have been cleaned by our ROwasher or Hotwash machine, you may want to look at our surface treatment range.

Whether your industry is automotive, aerospace, engineering, defence, manufacturing, repair, plant hire or commercial kitchen we have a fit for purpose range of professional cleaning products that deliver the best results time after time.

Our solutions have been developed to effectively, clean, protect and restore whilst safeguarding the wellbeing of users, ensuring efficiency, lowering costs and reducing impact on the environment.

It is our aim to help customers replace potentially hazardous chemical products with water-based or safer solvent-based solutions, offering protection to users and environmental benefits to the organisations using them.

Our range includes all-purpose maintenance sprays and penetrants, cleaners and degreasers for many surfaces including electric sensitive areas, restorers for plastics, vinyl and coated surfaces and rust removers.

To complement our cleaning chemicals, we have a range of ancillary products and PPE (Personal Protective Equipment).

**For more information:**

**Visit:** [www.rozone.co.uk](http://www.rozone.co.uk)

**Email:** [info@rozone.co.uk](mailto:info@rozone.co.uk)

**Call:** +44 (0) 121 526 8181



## REDUCE THE USE OF HARSH CHEMICALS

In today's increasingly legislative environment, there is a demand for cleaning, pollution control and other innovative technologies that benefit employees, society and the environment – at the same time delivering a reduction in operating costs and improving efficiency. Our aim with the ROWasher is to help companies reduce the use of harsh chemicals in their cleaning processes, safeguarding the health and safety of staff and customers, whilst lowering their impact on the environment.

The demand for our range of bioremediating parts washers has developed significantly since we began in 1996 and we are proud to work with a wide range of customers including Aerospace, Automotive, Engineering and Manufacturing, Defence, Cycle, Plant Hire, Government and Municipal and many more.



## INTERNATIONAL PARTNERS

We have also built up a significant export business, resulting in our UK developed and manufactured technologies reaching a global audience. We work with international distributors, if you would like to become one, or talk to us about own label branding please call our international team on +44 (0)121 526 8181.

**For more information about the ROWasher or Rozone:**

**Visit:** [www.rozone.co.uk](http://www.rozone.co.uk)

**Email:** [info@rozone.co.uk](mailto:info@rozone.co.uk)

**Call:** +44 (0) 121 526 8181

