

POWERFUL CLEANING MINIMAL ENVIRONMENTAL IMPACT CLEVER CLEANING SYSTEMS & LIQUIDS

Cleaning with an environmental focus has been the mission of BIO-CIRCLE for more than 35 years. Using a combination of technology, chemistry, biology & service we have changed how industry cleans surfaces, parts, tools & machinery. Step away from hazardous, expensive and environmentally damaging processes to safe, cost-controlled processes that have zero or minimal environmental impact.



- ▶ MANUAL PARTS CLEANING
- ▶ AUTOMATIC PARTS CLEANING
- ▶ WASH DOWN PLATFORMS
- ▶ SPECIALIST PAINT CLEANING
- ▶ INTERNAL PIPE CLEANING
- ▶ CLEVER CLEANING CHEMISTRIES

MACHINES FOR ALL CLEANING APPLICATIONS

"The green way to clean"



OPTIMISED & DECARBONISED CHEMISTRIES & PROCESS

1,000,000s OF LITRES OF SUSTAINABLE CLEANING SOLUTIONS SUPPLIED PER ANNUM

"No compromise on cleaning power"

100,000s DAILY USERS TRUST BIO-CIRCLE WITH THEIR CLEANING REQUIREMENTS



BEFORE



AFTER

10,000s OF KGs OF VOCs SAVED EVERY YEAR

FROM THIS:



SIGNIFICANT WATER CONSUMPTION

TO THIS:



CONTROLLED WATER CONSUMPTION

10,000s OF MAN HOURS SAVED THROUGH PROCESS IMPROVEMENT PLANS

We use 100% green power at our Head Office in Gutersloh



SMALL CHANGES, BIG IMPACT

Small improvements to existing production processes can have a large, cumulative improvement on environment impact. At BIO-CIRCLE it is our mission to tackle industries' surface cleaning processes - a daily task carried out by almost every industrial facility in the world; the cleaning, degreasing, preparation and finishing of parts and surfaces.

Over the decades, many sectors have embraced huge advances in technology, yet they are still choosing to use hazardous solvent-based parts cleaners & liquids to clean. This is an outdated, inefficient and expensive process which has a significant impact on the environment, along with employee health and wellness.

BIO-CIRCLE surface technology systems directly replace hazardous systems and cleaners. Our proven **process optimisation strategy**, helps our customers achieve huge VOC reductions, reduced labour costs, improved health and safety performance, reduced energy consumption, lower water consumption and minimised waste generation, without compromising on cleaning performance. Greening up your facility can simply begin with changing the way you clean.

MAKING GREEN WORK.

Sustainability starts from the ground up, and we believe environmental strategies should be woven into every single process - from the largest pieces of machinery right down to the smallest nut or bolt. Environmental protection and quality have been deeply rooted in our corporate values from our origins at our head office in Germany 35 years ago, to our presence in 65 countries today. In design and development we think holistically and sustainably, considering the entire life cycle of our systems and liquids with an environmental focus; in their production, in their use and onward processing.

MANUAL PARTS CLEANING

BIO-CIRCLE parts washers are engineered to powerfully clean small and large machinery/ equipment, whilst also protecting the user and the environment every single day.

BIO-CIRCLE GT Range

The sustainable alternative to solvents-based parts washers

Solvent free = waste chain free, hazard free & no labelling required under CLP regs



- ▶ **Powerful, energy efficient, self recycling**
- ▶ Suitable for cleaning and degreasing **all components and smaller parts**
- ▶ **Cleans and recycles** using naturally occurring **microbes** - taking what **Mother Nature** does naturally and simply **speeding it up**
- ▶ Used in conjunction with non-hazardous VOC-free **pH neutral BIO-CIRCLE** cleaners
- ▶ Efficient cleaning at **ambient 40°C temperatures**

Over **35 years** of research & development



Precision cleaning via the power of air & water

SEMI AUTOMATIC PRESSURE SYSTEMS: BIO-CIRCLE HP, HP Vigo & EKO

The precision of a manual clean with the power of high pressure

- ▶ Versatile **high pressure & low pressure** cleaning (HP)
- ▶ Suitable for cleaning and degreasing **heavily contaminated** components & smaller parts
- ▶ Cleans via **natural microorganisms** and bioremediation recycling.
- ▶ Used in conjunction with **non-hazardous VOC-free pH neutral BIO-CIRCLE** cleaners
- ▶ Insulated tanks **prevent heat loss**
- ▶ Efficient cleaning at **max 60°C temperatures**
- ▶ Large workspace, **high payload**



→ **EKO:** Aerating restrictor creates the water saving 'Champagne Effect'



BIO-CIRCLE CLEAN BOX Range

▶ VERSATILE ▶ POWERFUL CLEANING ▶ SIGNIFICANTLY REDUCED WATER CONSUMPTION ▶ ENERGY EFFICIENT

Portable and stackable immersion units which offer versatile cleaning options, including soaking and whole component cleaning. Suitable for tighter spaces/ cleaning on the go.



Washdown platforms suitable for cleaning larger pieces of machinery & parts. In built circulatory system filter & recycle the cleaning liquid so it can be re-used. Low temperature cleaning.



CLEAN BOX Max
Can be moved
via pallet truck

No
contaminated
water run-off

Create
bespoke
platform size
with modular
CLEAN BOX
Flex Range

AUTOMATIC PARTS CLEANING

BIO-CIRCLE automatic parts washers are ideal for efficient, powerful and reliable one-stage cleaning. Suitable for facilities with a high production output or maintenance load. Machines available in various sizes.

BIO-CIRCLE HTW | High cleaning activity
For high cleaning activity. 4 standard sizes available, custom build options available



Energy
efficient,
VOC-free



- ▶ Powered rotation basket & spray pressure
- ▶ One-stage cleaning & degreasing
- ▶ Energy efficient
- ▶ VOC-free/ VOC-reduced cleaners



Longer
bath life



BIO-CIRCLE Turbo | Combination cleaning
The precision of a manual parts washer, with the power of an automatic. 4 sizes available.

- ▶ Powered rotation basket & cleaning brush or nozzle
- ▶ Compressed air gun
- ▶ VOC-free/ VOC-reduced cleaners

ULTRASONIC CLEANING

Parts with rigid surfaces and complex geometries are effectively cleaned with ultrasonic waves. Wide range of bath sizes available



SPECIALIST AUTOMATIC CLEANING

RWR | Pipe cleaning

The mobile cleaning system for pipes - internal heat exchangers and cooling ducts. No need to dismantle systems to clean - simply connect RWR and flush out the pipes. Ideal for plastic injection. 4 sizes available,



PPT | Plate phase separator

Removes oil, sludge, suspended particles and solids effectively and automatically from aqueous process baths including cutting coolants in CNC.





CLEANING CHEMISTRIES

Used in conjunction with our cleaning systems, or as standalone cleaning liquids, our cleaners harness the natural process of bioremediation to breakdown contaminants into non-hazardous by-products, and speed it up. They can directly replace fluids such as cold cleaners, solvents and paint thinners, but due to being non-hazardous do not need specialist storage, handling or disposal. They do not accumulate dangerous waste or emit by-products back into the environment, therefore can contribute significantly to decarbonisation in production and maintenance processes.

- ▶ Non-hazardous, label-free
- ▶ VOC-free or VOC-reduced
- ▶ Self-cleaning, reusable
- ▶ From trigger sprays to 200L drums

"Clever cleaning chemistry!"



No hazardous chemicals,
no hazardous waste!



BEFORE

AFTER

BIO-CIRCLE COMMERCIALS - MAXIMUM FLEXIBILITY

We are confident that we can make green work in your cleaning processes, and offer flexibility for acquiring our systems and liquids with many accessible commercial options available:

Outright Purchase with warranty & extended warranty options

Flexible Lease & Financing Options to suit a wide range of budgets

Wide Range of Service Rental Package Options - we take care of everything for a simple weekly, monthly or quarterly charge. No capital outlay

Chemistry Only - we recognise you might have your own cleaning systems installed, but you can still choose to 'green up your clean up' with our low VOC/ VOC free chemistry. We will manage the set up and ongoing service too - even when they're not our machines

KLEENHAUS - our new cleaning drop-in initiative. Drop off (or we'll collect) your difficult/one-off/infrequent cleans and we'll clean them for you at our facility and send them back to you

On-site - our fully trained engineers will come to you to carry out regular parts & machinery cleaning



Why not discover how we're MAKING GREEN WORK for our customers on our social channels:

@biocircle_uk @bio-circle-uk

THE SECTORS WE OPERATE IN

Automotive: Production & maintenance

Transportation: Production & maintenance - rail, bus & coach

Aerospace

Technology & Energy

Sport, Leisure & Hospitality

Food & Beverage

Construction, Facilities management & Groundcare

Engineering - CNC & precision engineering

Print, 3D Printing, Additive Manufacturing & Packaging

plus many more

Don't see your sector here? Get in touch today to arrange a free site visit from our engineers. We love a challenge!



This is just a snapshot of our capabilities & equipment. For further options or to discuss your individual requirements, please call **03300 415 396** or email **sales@bio-circle.co.uk**