

MANUAL PARTS CLEANING

INTELLIGENT PARTS CLEANING



bio-circle.com

VISION

WE FOR YOU



Bio-Circle Online Shop 24/7:
Order around the clock



More info in our shop!



THINK HOLISTICALLY. ACT SUSTAINABLY.

Bio-Circle Surface Technology GmbH – your reliable partner for industrial products for **cleaning, welding, protecting, and lubricating**.

Environmentally friendly and user-friendly. For manual and automatic parts cleaning. With almost 40 years of know-how and experience in research, product development, process optimization, sales, and service.

With a global network and with production sites and partners. With around 190 employees, the Gütersloh site is the Bio-Circle headquarters. All products are developed and manufactured here for Germany, Europe and beyond. Made in Germany.



SUSTAINABILITY AND QUALITY

Aware of our responsibility for the environment, we introduced an environmental management system **as early as 1996**, which has been **continuously certified by LRQA** in accordance with the requirements of the **globally valid DIN ISO 14.001 standard**. **Since 2020**, we have also participated in ecovadis – the independent sustainability ranking for companies – and have had ourselves evaluated.

With our activities in the field of sustainability, labour and human rights, ethics, and sustainable procurement, we were **once again** able to achieve the **ecovadis Bronze Ranking in 2023**.

As a sustainably-minded company, we not only attach great importance to the best product performance, but also to the best environmental compatibility.



SET HIGH STANDARDS!

The way the company works is reflected in the six building blocks of the circle. They are constantly reviewed and optimized. Transparency and sustainability are the basis of all these building blocks that interlock like cogwheels. Bio-Circle products cannot save the world, but they can contribute to the conscious treatment of the environment and our fellow human beings.

A clean world with you at the centre – this vision has shaped the company's thoughts and actions for almost 40 years. Especially nowadays there is a lot of talk about sustainability. But the only thing that counts is to act sustainably.



Sustainable raw materials

As a manufacturer of industrial cleaners and cleaning systems, Bio-Circle has a great responsibility. After all, these products have a high value in the maintenance of machines, plants, and components. They are an important part of the production chain in every industry. We take a close look and use sustainable raw materials to produce **environmentally friendly and user-friendly industrial cleaners**.



Innovative products

Bio-Circle has always been committed to sustainability in an industry where the harmful effects of solvents on the environment, humans and animals are still being glossed over. Our innovative products for the cleaning sector stand for **safe application** in manual and automatic parts cleaning.

We are pioneers, we do things differently and we walk a straight path. We formulate and produce industrial cleaners that are non-labelled and low-labelled. In our own laboratory and in our own production facilities.



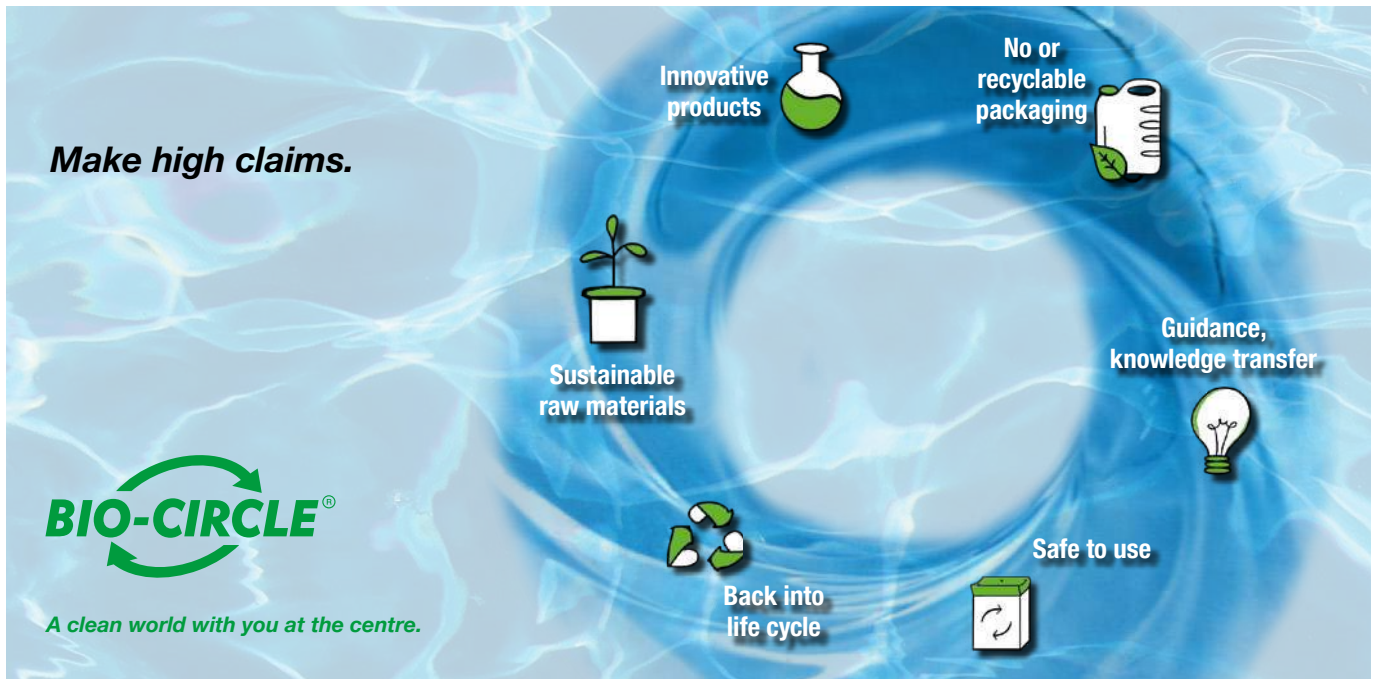
No or recyclable packaging

The piles of rubbish are getting higher and higher, the plastic vortexes in the oceans are getting bigger and bigger. These are just two problems – we all know that. When it comes to packaging, Bio-Circle is constantly moving forward and developing.

The best bottle is no bottle, because refillable application systems are the solution – they make bottles dispensable! And if there's no other way, we have recyclable 500 ml PET bottles made from **100% recycled material**.

To make your work easier, cleaners in IBCs and 200-litre drums can be transferred into 20-litre jerrycans with hand pumps. Of course, the IBCs, drums and jerrycans are made of the **easily recyclable** plastic HDPE.

In **shipping**, only **recycled and recyclable paper** that has been awarded the 'Blue Angel' eco-label is used as filling material. In addition, we ship **CO₂-neutral** through our parcel service provider and our freight forwarder.



Sound advice and knowledge transfer

We share our experience and know-how with you so that you can clean easily, quickly, safely, cost-efficiently and in an environmentally friendly way.

You have questions, we provide answers. If you are satisfied with the cleaning performance and with your work, if we have been able to optimise your work processes – then we are satisfied too.



Safe to use

Working with non-labelled and low-labelled industrial cleaners and recirculating cleaning equipment can trigger a domino effect:

For the company, the longer service lives, the reduced health and safety measures and the increased productivity are just a few reasons to be happy about savings because **costs are reduced**.

The user, who has **more fun and motivation at work**, feels fitter because they are exposed to far fewer pollutants and toxic fumes, and they are happy about a better quality of life. For both sides, there is also the **time saving**. Not only thanks to the effectively cleaning industrial cleaners, but also because of the energy-saving, recirculating parts washers.



Back into the life cycle

At Bio-Circle, we live and breathe life cycle thinking. **We place great emphasis on sustainability in production and application.** Longer service lives and VOC-free or VOC-reduced cleaners reduce your disposal effort and make it safer.

MAKING GREEN WORK.

WE GIVE YOU MORE

To make you happy

More optimal cleaning processes

Your process optimization is important to us! We take you and your cleaning problem seriously and offer you individual solutions. We come to you, or you come to us in Gütersloh for cleaning trials.

More occupational safety

Reduce VOCs and hazardous substances in your cleaners! Protect your employees and the environment. We show you new possibilities in the world of cleaning.

More profitability

Identify your savings potential in your cleaning processes. Lower storage- and disposal costs due to long service lives and non-labelled cleaners speak for themselves.

THE PIONEER

Continuous improvement of existing products. Development of new, alternative cleaning agents.

- **Essential:** the product performance
- **Elementary:** the reduction of volatile organic compounds = solvents (VOC)
- **Topical:** the reduction of hazardous substances
- **Crucial:** environmental compatibility
- **Vital:** occupational safety
- **Comprehensive:** the certifications (NSF, ISO 14001, Ecovadis)
- **Intelligent:** the new BIO-CIRCLE-i technology for our parts washer



Any questions?

We are already looking forward to providing you with help and advice.

bio-circle.com



AT A GLANCE

Your page references

MANUAL

 BIO-CIRCLE GT-i Systems for natural, biological parts cleaning p. 10	 BIO-CIRCLE HP-isi The parts washer with flow brush yet the cleaning power of high-pressure cleaning p. 18	 HP Vigo Manual high-pressure cleaning for all needs p. 19
 CLEAN BOX The mobile solution for parts cleaning p. 20	 PROLAQ Cleaning of painting tools and spray guns p. 22	 VARIO SL Compact Parts washer with flow brush for removing water-resistant contaminations p. 26



	pH value* – Values from MSDS	VOC content in %	Flashpoint in °C	BIO-CIRCLE GT-i	BIO-CIRCLE HP, HP Vigo	PROLAQ	Steel/Stainless steel	Aluminium	Non-ferrous metals	Plastics	Painted surfaces	Zinc-coated surface	Hazardous substance symbol	VOC-free	VOC-reduced	NSF	Label-free	Page
BIO-CIRCLE L	8,5	0	-										-	VOC free	-	NSF		17
BIO-CIRCLE L Evo	8	0	-										-	VOC free	-	NSF		16
BIO-CIRCLE L Ultra	8,5 – 9,5	0	-										-	VOC free	-	NSF		17
CB 100	10,8	0	-										-	VOC free	-	NSF		21
CB 100 Alu	8,6	0	-										-	VOC free	-	NSF		21
FOR CLEAN F	9	0	-										-	VOC free	-	NSF		21
GS 200	-	19	118										-	-	VOC reduced	NSF		27
OMNI 200	-	0	240										-	VOC free	-	-		27
PROLAQ L 50	7	2,5	-										-	-	VOC reduced	-		25
PROLAQ L 100	7	13	65										-	VOC free	-	-		25
PROLAQ L 400	-	45	63										-	-	-	-		25
PROLAQ L 500	-	20	61										⚠	-	VOC reduced	-	-	25
PROLAQ L US	7	10	-										⚠	-	VOC reduced	-	-	25
BIO-CIRCLE Maxi stainless-steel tops																		12
BIO-CIRCLE Service and Cleaning																		14
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Accessories BIO-CIRCLE GT-i																		15
Accessories / Chemical Products																		29

 recommended
  limited use
  not usable



MANUAL CLEANING SYSTEMS

Sustainable cleaning in the industry

Cleaning work is almost indispensable in most industries. Whether in areas such as maintenance, the plastic injection moulding industry, the food industry, transport, traffic, logistics, automotive, CNC, skilled crafts and trades, the energy industry, agricultural technology or forestry, soiling is an issue everywhere.

As a manufacturer, we always strive to meet the growing demands and find the best cleaning method for our customers. **Our cleaning products help every industrial company to save time and maintain quality or to make the process within the value chain easier and more cost-optimized.**

More than 80 % of our cleaner volume is non-labelled according to the CLP regulation. The cleaning performance is enormously strong, and the cleaners are versatile. They are advocates for topics such as occupational safety, environmentally friendly and user-friendly application, and the reduction of hazardous substances in the company.

A close-up photograph of a green leaf with several clear water droplets resting on its surface. The background is a soft, out-of-focus green, suggesting a natural environment. The text is overlaid on the lower portion of the image.

SAVING time and costs

INCREASING productivity

PROTECTING & SAVING people & environment

BIO-CIRCLE GT-i

intelligent parts cleaning



BIO-CIRCLE-i TECHNOLOGIE

Intelligent system in action

The new BIO-CIRCLE-i technology has it all.
The latest upgrade to our classic offers you what you've always wanted:

Your intelligent BIO-CIRCLE GT-i parts washer and BIO-CIRCLE HP-isi are always ready for use and offers consistent, optimum cleaning quality. We take care of them, you can sit back and relax.

The BIO-CIRCLE-i technology checks the status of the system, such as the filling level and temperature of the cleaner, as well as the oxygen supply to the microorganisms. Our customer service will contact you and we will coordinate the next steps with you. Data protection is a standard feature.



BIO-CIRCLE GT-i intelligent control unit

Gefördert durch:



Bundesministerium
für Wirtschaft
und Energie

aufgrund eines Beschlusses
des Deutschen Bundestages

BIO-CIRCLE GT-i PARTS WASHER

Pleasure in cleaning

For decades, the BIO-CIRCLE GT parts washer has been our centrepiece in parts cleaning.

Our classic BIO-CIRCLE GT now becomes BIO-CIRCLE GT-i. The latest upgrade of our classic offers you what you have always wanted: with **BIO-CIRCLE-i technology**, your parts washer is **always ready for use and provides consistent, top-quality cleaning** without you having to worry about it.

Convenient, economical, safe, user-friendly, environmentally friendly

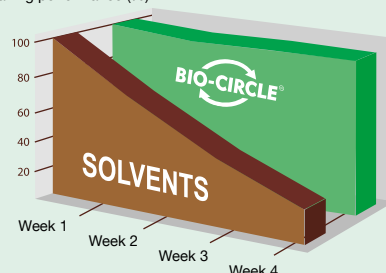
BIO-CIRCLE GT-i Compact und BIO-CIRCLE GT-i Maxi

Difference between the two devices: size and payload

- ▶ BIO-CIRCLE-i technology, installed as a powerful chip in the control box of the BIO-CIRCLE GT-i parts washer
- ▶ Easy transport by means of a pallet truck
- ▶ Optimal depth of the basin for good splash protection
- ▶ Filter system in the drain of the basin (coarse, fine and bag filters and magnet)
- ▶ Drainage system
- ▶ 8 years of BIO-CIRCLE device protection
- ▶ To be booked separately:
 - Filter housing with various filter inserts
 - Rail system with castors for mobility
 - and much more

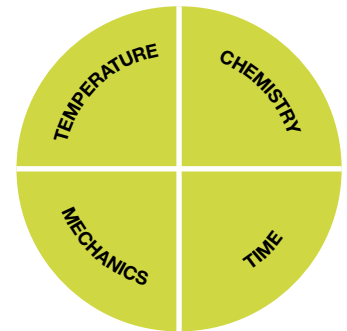
CLEANING CONSISTENCY

Cleaning performance (%)



Cleaning oil-contaminated parts in the BIO-CIRCLE GT-i





RECOMMENDED CLEANER FOR BOTH DEVICES:		Page
BIO-CIRCLE L Evo	Low-foaming cleaner with microorganisms, for manual and automatic cleaning; ideal cleaning temperature 41 °C	16



BIO-CIRCLE GT-i Maxi

BIO-CIRCLE GT-i Compact



Technical unit

	BIO-CIRCLE GT-i Compact	BIO-CIRCLE GT-i Maxi
Dimensions (W x H x D)	1060 x 830 x 600 mm	980 x 1110 x 705 mm
Work surface (W x D)	700 x 480 mm	810 x 520 mm
Payload	100 kg	250 kg
Working height	800 mm	860 mm
Operating temperature	up tp 41 °C	up tp 41 °C
Heating	650 W	650 W
Pump	40 W	40 W
Optimum filling quantity	100 L	120 L
Material	LDPE	LDPE
Empty weight	45 kg	60 kg
Power supply	230 V, 50 Hz	230 V, 50 Hz
Order number	G50030-i	G60030-i

STAINLESS STEEL TOP PIECES

for the BIO-CIRCLE GT-i Maxi

The stainless-steel top piece for the BIO-CIRCLE GT-i Maxi offers special working comfort due to its large working surface and high payload (up to 1000 kg). The stainless-steel top piece with its extra-large work surface (approx. 1500 x 950 mm) is particularly useful where large and heavy parts have to be cleaned. This allows even two users to work on the parts washer at the same time. The stainless-steel top pieces are equipped with a conical drain, sieve- and bag filters (25 µm) and (as an optional extra) with grids made of PE to protect the surfaces.



G60030-17-i	BIO-CIRCLE GT-i Maxi with stainless-steel top piece	Payload 250 kg, 1500 x 950 x 300 mm
G60030-18-i	BIO-CIRCLE GT-i Maxi with stainless-steel top piece with frame	Payload 500 kg, 1504 x 1004 x 300 mm
G60030-19-i	BIO-CIRCLE GT-i Maxi with stainless-steel top piece with frame	Payload 1000 kg, 1504 x 1004 x 300 mm

Stainless-steel top piece for the BIO-CIRCLE GT-i with two brush connections and protective plastic base



MULTI BOX GT COMPACT

Even more pleasure in cleaning

With the Multi Box GT Compact you can get to the bottom of almost any dirt!
The pressure spray gun precisely and easily removes even the thickest grime from components.

And this is how it works: Just place the low-maintenance multifunction box in the cleaning basin of the BIO-CIRCLE GT-i and connect it to compressed air. You do not need any additional electrical units and can clean with the top piece closed and open. The adjustable pane cleaning (with compressed air) ensures good visibility through the viewing window.

- ▶ For existing BIO-CIRCLE GT and GT-i Compact
- ▶ Easy to install
- ▶ Rapid ROI
 - low investment, high savings, low maintenance
- ▶ Even faster and more effective work
 - power up to 6 bar max.
- ▶ The right thing for every type of soiling:
 - Cleaning with the top closed or open
 - Cleaning with a flow brush as before
 - Powerful cleaning with the pressure spray gun
 - Blowing off/drying the components with the compressed air gun



BIO-CIRCLE GT-i Compact with
Multi Box GT Compact

Multi Box GT Compact – easy installation



G50130

Multi Box GT Compact

Multi Box GT Compact inside



SERVICE AND CLEANING

Regular service and care ensure the safety and reliability of our devices. Just like your car, also the BIO-CIRCLE requires regular cleaning and servicing in order to ensure the functionality of the device.

In order to ensure perfect functionality of our devices, we offer you a special service:

- ▶ Thorough internal and external cleaning of the BIO-CIRCLE with environmentally compatible Bio-Circle products
- ▶ Checking your device for the functionality of the all component parts
- ▶ Cleaning and replacing if necessary of aerator, hoses, filter inserts, pump, etc.
- ▶ Cleaning of the BIO-CIRCLE Liquid by means of a fine mesh filter
- ▶ Removing the sludge residues from the bottom
- ▶ Refilling with the cleaned BIO-CIRCLE Liquid and, if necessary, topping up with fresh BIO-CIRCLE Liquid to the optimum filling level

The advantages at a glance

Aqueous-based biological parts cleaning with natural microorganisms. Oils and greases are immediately decomposed ecologically, which guarantees long lifetimes with a constantly high cleaning performance.

- ▶ No solvents, no cold cleaners
- ▶ Aqueous cleaning medium, no fire hazard
- ▶ No hazardous substance and no hazardous materials, hence no special regulations for storage, handling and transportation



USER CONTRACT – THIS IS HOW IT WORKS

Effective solutions for work processes

You need a device for your cleaning processes; however, you don't want to buy it but only use it over a certain period of time.

We have the perfect solution for you. **With our user contracts you can use devices over a longer period of time without having to buy them.** We can offer different possibilities matching our stainless steel cleaning devices and our BIO-CIRCLE parts washers.

If you have any further questions, please feel free to contact us.





GREEN AND SWIFT

BIO-CIRCLE GT-i equipment and accessories

We provide you with the appropriate original accessories for every BIO-CIRCLE GT-i device.
No matter if it is a lid, protective base, mobility kit or an angled brush.
We supply you with the perfect all-round package for your BIO-CIRCLE GT-i.



Lid

Protects from contamination and reduces evaporation of cleaning fluid.

G50327 for BIO-CIRCLE GT-i Compact

G60330 for BIO-CIRCLE GT-i Maxi



Protective base

Facilitates tilt-free work and protects the basin from sharp-edged parts. Protective bottom made of perforated stainless-steel sheet metal

G50326 for BIO-CIRCLE GT-i Compact

G60230 for BIO-CIRCLE GT-i Maxi



Protective bottom made of plastic, black

G50330 for BIO-CIRCLE GT-i Compact

G60230-01 for BIO-CIRCLE GT-i Maxi

Brushes

(flushed with cleaning agents)



G20726 Flow-through brush

Supports cleaning

G20729 Flow-through brush

with medium-hard bristles, straight

G28526 Flow-through brush, angled

Supports cleaning in nooks and crannies that are difficult to reach.

G20727 Flow-through brush wide, angled

G27326 Flow-through brush

with soft bristles (Nylon 0.3 mm)

For cleaning sensitive parts

without damaging the material



Mobility Kit

The sturdy guiderails, with castors (fitted with wheel stop and non), make the device mobile and hence flexible to use.
2 SS guiderails with wheel stop/swivel castors.

G50427 for BIO-CIRCLE GT models



Filters

Inserts for filter housings (nylon filters, washable; coil cartridge filters, non-washable)

G22026 Nylon filter core support

Supports the replaceable nylon filter

G28326 Nylon filter 100 µm, blue

G28726 Nylon filter 150 µm, brown

G28426 Nylon filter 200 µm, green

G21926 Nylon filter 350 µm, grey

G22726 Coil cartridge filter 100 µm

PU: 6 pcs.

G22826 Coil cartridge filter 200 µm

PU: 6 pcs.



Fine Filter Housing with connection and bracket

G48D314-30 Fine Filter Housing incl.

1 Coil cartridge filter 200 µm



Filter accessories

G54126 Wrench for filter housing



Filter bags

The filter bags are fixed under the basin drain by means of a bracket.

G54626 Filter bag nylon 50 µm washable

G54726 Filter bag nylon 100 µm washable

G54426 Filter bag polypropylene needle felt 5 µm

G54526 Filter bag polypropylene needle felt 25 µm



Overflow Plug

incl. filter

G48D743-01 Overflow Plug for

BIO-CIRCLE GT-i Compact a. Maxi,

PROLAQ Compact

BIO-CIRCLE LIQUIDS

Parts cleaning at its best



CLEANING AT A HIGH LEVEL: EASY, FAST, SAFE.

The water-based, alkaline BIO-CIRCLE Liquids are solvent-free and non-labelled and feature a fantastic cleaning power. They are a user-friendly and environmentally compatible alternative to solvents. Using them means more occupational health and safety and reduced operating costs; a win-win situation for users and entrepreneurs. The BIO-CIRCLE Liquids, which are used in combination with the BIO-CIRCLE parts washers, contain microorganisms* that degrade the removed oil, thus guaranteeing long bath lives. Cleaning results remain at a constantly high level, even with increased dirt ingress. The BIO-CIRCLE Liquids are ready for use and provide temporary corrosion protection; the ideal cleaning temperature is 41 °C.

BIO-CIRCLE L Evo



A02093 20 L jerrycan

A20093 200 L drum

A10093 1000 L IBC

- The versatile one among the BIO-CIRCLE Liquids
- For moderate to heavy soiling
- Environmentally friendly and safe
- For manual and automatic use:
 - in BIO-CIRCLE parts washers, parts washing systems and high-pressure parts washers
- VOC- and label-free according to the CLP Regulation
- Cleans materials such as:
 - aluminium, zinc-coated surfaces, non-ferrous metals as well as steel/stainless steel and plastic

Manual use

	Everyday soiling*	TOP SELLER The right choice for your applications.		Persistent soiling*
	BIO-CIRCLE L	BIO-CIRCLE L EVO	BIO-CIRCLE L Ultra	
Mechanics	parts washer with flow brush	parts washer with flow brush, parts washing machine, high-pressure parts washer	parts washer with flow brush	
Operating temperature	41 °C	41 – 45 °C	41 °C	
Residues	virtually residue-free	virtually residue-free	forms a light protective film	
Aluminium protection	-	ALU	-	
Food areas	NSF	NSF	NSF	
Corrosion protection	temporary	temporary	temporary	
Environmental aspect of raw material	Surfactants based on renewable raw materials; label-free according to the CLP Regulation, VOC-free according to 2010/75/EU			
Labelling				

* Everyday soiling: oils, greases

* Persistent soiling: bitumen, anti-corrosion wax, burnt-in grease and oil, oil carbon, paint

Cleaning with BIO-CIRCLE L Evo



*The microorganisms used are non-pathogenic bacteria of risk group 1 (classified according to BioStoffV 2000/54/EC, TRBA 466).
Risk group 1: Substances that are unlikely to cause disease in humans.



BIO-CIRCLE L



- The versatile one among the BIO-CIRCLE Liquids
- Suitable for the food industry
- Dermatologically tested

A02026 20 L jerrycan

A20026 200 L drum

A10026 1000 L IBC

BIO-CIRCLE L Ultra



- Removes persistent contaminations
- Suitable for the food industry

A02072 20 L jerrycan

A20072 200 L drum

A10072 1000 L IBC

The BIO-CIRCLE Liquids remove a variety of contaminations, depending on requirements and the cleaning system: grease, oil, separating agents, smoke residues, soot, wear particles, and swarf. To some extent also burnt-in organic contaminations, rust, oxidation and heat tinting, bitumen, and corrosion protection waxes.

Material: stainless steel, steel, tiles, plastics, varnished and zinc-coated surfaces. To some extent also aluminium and non-ferrous metals.

FIELD OF USE: Maintenance of components, work pieces and motors.

Across all industries: automotive, foodstuffs, metal processing/CNC, railways, skilled crafts and trades.

You already have a cleaning system and would like to use our innovative products?
Please contact us, we'll be glad to advise you!
www.bio-circle.com

BIO-CIRCLE HP-ISI AND HP VIGO

The power of high-pressure cleaning

Two closed washing chambers, with the BIO-CIRCLE HP simultaneously serving as a parts washer with brush (fulfilling this function with the lid open as well as closed). Both washing chambers operate with the power of high-pressure cleaning. They are recyclable and remove oils and greases from heavily contaminated steel-, stainless-steel-, plastics- and other parts with complex geometries.

Their only mission: Making work easier for the user! For the components will be beautifully clean and shiny, and the workflow is simple, fast, and safe (provided the recommended cleaners are used).

FIELD OF USE: Maintenance of components, work pieces and motors.

Across all industries: automotive, metal processing/CNC, etc.

BIO-CIRCLE HP

- Manual cleaning using a flow brush, with the lid open or closed
- Cleaning temperature 45 °C
- The insulated tank prevents heat loss
- Working pressure of 10 – 80 bar, optimal handling by means of a high-pressure pistol
- Payload up to 350 kg
- Facilitates crane loading
- Integrated oxygen supply
- Significantly longer bath service life thanks to microorganisms
- Enhanced occupational health and safety, reduced operating costs
- Rotary table for manual operation as an optional extra
- BIO-CIRCLE-i technology, installed as a powerful chip in the control box of the BIO-CIRCLE HP-isi



	BIO-CIRCLE HP
Overall width x overall depth (mm)	1150 x 1229
Height with loading hatch closed/open (mm)	1800/2430
Overall width of available surface W x D x H (mm)	860 x 580 x 480
Maximum payload	350 kg
Cleaning liquid tank – capacity	100 L
Total weight of the cleaning device excl. tank filling, payload and supplementary equipment	235 kg
Connected value total (kW) excl. supplementary equipment approx.	2.5 kW
Power supply/frequency	230 V/50 Hz
Compressed-air hose Ø 10 mm	6 bar max.
Spray pressure adjustable approx.	10 – 80 bar
High-pressure pump motor	1.6 kW
Electric heating in the washing tank	0.65 kW
Treatment temperature (guide value)	45 °C
Order number	G30028





RECOMMENDED CLEANERS FOR BOTH DEVICES:

	Page
BIO-CIRCLE L Evo Low-foaming cleaner with microorganisms, for manual and automatic cleaning; ideal cleaning temperature: 45 °C	16
CB 100 Suitable for use in the food industry	21

HP Vigo

- Manual cleaning with the lid closed
- Adjustable cleaning temperature of up to 45 °C
- Adjustable working pressure of up to 80 bar, optimal handling by means of a high-pressure nozzle
- Compressed air pistol for parts drying
- Payload up to 150 kg
- Significantly longer bath service life thanks to microorganisms
- Automatic switch-off via float switch if the level is too low (to protect the heating and the pump)
- Optimal low-foaming cleaners and degreasers: BIO-CIRCLE L Evo and CB 100
- VOC-free and non-labelled
- Enhanced occupational health and safety, reduced operating costs



	HP Vigo
Overall width x overall depth (mm)	1443 x 855
Height with the device lid closed/open (mm)	1574/1927
Overall width of available surface W x D x H (mm)	1157 x 768 x 520
Maximum payload (crane loading is possible with the cleaning system!)	150 kg
Cleaning liquid tank – capacity	90 L
Total weight of the cleaning device (empty)	125 kg
Voltage, frequency, total output	230 V, 50 Hz, 2 kW
High-pressure pump	1.85 kW, 80 bar, 12.5 l/min
Working pressure (adjustable)	up to 80 bar
Operating temperature (factory-set)	45 °C
Noise level	< 70 dB
Compressed air supply	6 bar max.
Maximum air consumption in pane cleaning	0.06 m³/h
Order number	G30027



CLEAN BOX

Your washing station

The **CLEAN BOX Max and Flex** are the perfect washing station for large parts and extremely bulky workpieces. This makes them applicable in many factory- and production areas, such as maintenance, machine- or industrial construction. The CLEAN BOXes are characterized by their easy handling and the use of low-temperature cleaners.

Due to built-in pump only suitable for water-based alkaline cleaners:

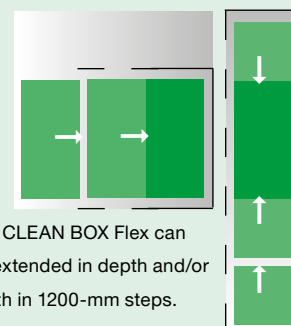
CLEAN BOX Max

- For large, bulky workpieces
- Flow gun with integrated washing brush
- Grid on the working platform
- Available in two sizes (Max 1 und Max 2)
- Feed pump for the cleaner
- Electro-pneumatic foot switch to switch the pump on and off



CLEAN BOX Flex

- Extendable modular design
- Can be ordered in prefab sizes, with a feed pump for the cleaner
- Integrated WHG [Water Resources Act]-approved collecting tray with a leakage inspection hole and a storage tank with lid



The CLEAN BOX Flex can be extended in depth and/or width in 1200-mm steps.

	CLEAN BOX Max 1	CLEAN BOX Max 2	CLEAN BOX Flex
Overall dimensions W x D x H (mm)	1420 x 1420 x 520	2400 x 1420 x 740	Standard 2725 x 1505 x 390 variable working surface can be extended in 1200-mm steps only when ordering
Useful work surface W x D (mm)	1220 x 1220	2250 x 1220	variable
Material	PE	PE	PE-HD
Payload	1000 kg	1000 kg	1000 kg
Useful volume min./max.	200 L / 300 L	700 L / 1000 L	250 L / 350 L
Total useful volume	590 l	1400 l	355 L
Working pressure	0.2 bar	0.2 bar	0.2 bar
Weight	100 kg	160 kg	250 kg
pH-value working range	4.5–12	4.5–12	4.5–12
Rated input voltage	230 V / 1.3 A / 50 Hz	230 V / 1.3 A / 50 Hz	230 V / 1.3 A / 50 Hz
Power input	330 W	330 W	330 W
Operating temperature	Ambient temperature	Ambient temperature	Ambient temperature
Operating pressure max.	2 bar	2 bar	2 bar
IP protection class	68	68	68

Flow cleaning brushes for CLEAN BOX Max, Flex

G15001-01 flow brush, soft green/red
G15001-02 flow brush, hard green
G15001-03 flow hand brush, soft green
G15001-04 flow hand brush, hard blue
G15001-05 curved flow brush, soft green/red
G15001-06 curved flow brush, hard black

The devices need an appropriate connector.

The brushes have 1/2" internal threads.

SUITABLE CLEANERS

for BIO-CIRCLE HPs & CLEAN BOX

Water-based, slightly alkaline industrial cleaners: VOC- and label-free, with **excellent dissolving power**. They are all ready-to-use and can also be applied manually.

User-friendly and environmentally friendly, with a long service life due to their recyclability and temporary corrosion protection – what more do you want?

CB 100

- Suitable for the food industry
- ready-to-use



A02025 20 L jerrycan

A20025 200 L plastic drum

A10025 1000 L IBC

CB 100 Alu

- Special aluminium formula for heat-tinting protection



A02049 20 L jerrycan

A20049 200 L plastic drum

A10049 1000 L IBC

FOR CLEAN F

- Low foaming
- Also for mechanical applications, e.g. in the HTW, in pressure washers, floor cleaning systems, etc.
- Low residue: subsequent processes such as bonding, welding and varnishing are possible



A02013 20 L jerrycan

A20013 200 L plastic drum

A10013 1000 L IBC

Cleaning agent	Miscibility		Mixing ratios for parts washers		
	with water	in manual applications	BIO-CIRCLE HP	HP Vigo	CLEAN BOX
FOR CLEAN F	yes	5 % – 100 %	2.5 % – 7 %	5 %	10 % – 20 %

The cleaners remove soiling such as grease, oil, separating agents, smoke residues, soot, wear particles, and swarf from steel and stainless steel; to some extent also from aluminium, non-ferrous metals, zinc-coated surfaces, etc.

FIELD OF USE: across all industries, maintenance of machines and engines, etc. Can be used manually, in an immersion bath, in an ultrasonic cleaning device, and more.

PROLAQ

Safe varnish removal? You bet!

The PROLAQ cleaning systems have been especially developed for cleaning paint tools, e.g. paint spray guns, brushes, hoses, etc.

In contrast to conventional thinners, the PROLAQ systems work with paint removers that are reduced in hazardous substances, **making work more pleasant, simplifying storage, and protecting the environment.**

With only 60 litres you have a service life that is 5 to 10 times longer!

FIELD OF USE: in all industrial areas where painting is carried out, in automotive workshops, paint shops, automotive refinishers.

Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages

PROLAQ Compact

Manual cleaning unit for all painting tools and spray guns

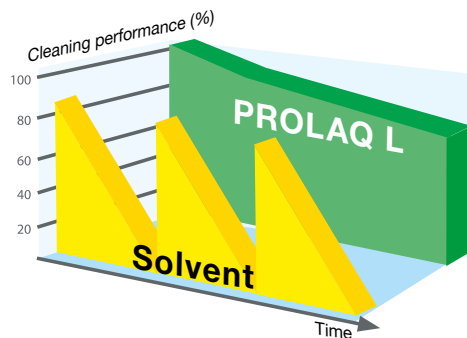
The mobile, robust cleaning unit made of plastic (PE) is operated with compressed air and controlled by a foot switch. A high-quality flow brush ensures optimum cleaning results. An additional compressed air pistol offers a quick way to dry the cleaned parts.

- ▶ Operated with compressed air
- ▶ Integrated funnel
- ▶ Movable due to mobility kit
- ▶ High-quality flow brush,
- ▶ available in different degrees of hardness (optional)
- ▶ Lid with splash protection function (optional)
- ▶ Incl. external filter



	PROLAQ Compact
Dimensions (W x H x D)	840 x 1060 x 600 mm
Work surface (W x D)	740 x 450 mm
Payload	100 kg
Working height	980/840 mm
Pump	Pneumatic diaphragm pump (AODD) PTFE diaphragm
Optimum filling quantity	40 – 60 L
Material	LDPE
Empty weight	50 kg
Air pressure	6 bar max.
Order number	G90010

CLEANING CONSISTENCY



RECOMMENDED CLEANERS:

Page

PROLAQ L 100	Paint remover for water-based paints and varnishes	25
PROLAQ L 400	Paint remover for water- and solvent-based paints and varnishes; dries quickly and leaves virtually no residue	25
PROLAQ L 500	Paint remover for water- and solvent-based paints and varnishes	25

PROLAQ Auto

Manual and automatic cleaning of all painting tools and spray guns

Cleaning in explosion-proof areas can be done both manually and automatically. Afterwards, the cleaned parts can be blown dry by means of an air shower. The integrated extraction device and the hood minimize odours effectively, thus guaranteeing a safe workplace.

- Simultaneous automatic cleaning of two spray guns at a time
- For flow- and suction cup guns
- Subsequent air shower
- Option of manual cleaning by means of a flow brush
- Can be closed with a hood
- Integrated sedimentation- and filter unit



PROLAQ 400 and two-component varnish (undiluted)



Sedimentation process

	PROLAQ Auto
Dimensions (W x H x D)	857 x 1554 x 508 mm
Manual work surface (W x D)	415 x 415 mm
Working height	1040 mm
Pump	Pneumatic diaphragm pump (AODD) PTFE diaphragm
Output (pump)	12 l/min
Air consumption (pump)	58 l/min
Capacity	60 L
Material	Steel/stainless steel
Empty weight	94 kg
Air pressure	5 – 6 bar
Automatic cleaning	14 nozzles; cleans 2 spray guns
Noise level	<70 dB
Diameter exhaust pipe	76 mm
ATEX	Zone 1 and 2
Order number	G90055

PROLAQ CONVERSION KIT

The **PROLAQ Conversion Kit for existing systems** can be installed quickly and easily in all paint spray gun cleaning systems. The label-free PROLAQ L 400 paint remover replaces conventional solvents, and minute particles that have been removed from the system are **separated from the fluid by sedimentation**.



ECONOMICAL

- On average 10 times longer service life with PROLAQ L 400
- Approx. one tenth of the usual disposal quantity

CONVENIENT

- Suitable for all paint spray gun cleaning systems
- Easy and quick to install → the system remains unaltered
- Incl. ball valve and lateral handles

SAFE

- Conductive → stainless steel
- Increased occupational safety → non-labelled paint remover PROLAQ L 400



Material	Stainless steel
Capacity	35 L
Outlet	Ball valve
Dimensions	Ø = 350 mm, h = 485 mm
Order number	G90053



THE PROLAQ L RANGE

Make a choice – it's time for a change!

The **unique PROLAQ Liquids** are the alternative to cellulose thinner: **VOC-reduced and low-labelled varnish removers** and paint strippers for the removal of paints, varnishes, inks, and printing inks.

Recyclable. Reduced costs. Optimal cleaning performance. User-friendly. Environmentally compatible.

Fewer protective measures, operating cost reductions, and a safe and healthy workplace.

Systematic cleaning: The PROLAQ paint removers are ready for use and have been especially designed for use in the PROLAQ Compact and PROLAQ Auto cleaning systems, and in ultrasonic cleaning devices.

PROLAQ L 50

- Ready for use, water-based cleaner for the removal of undried varnishes and paints
- Can be used in PROLAQ systems as well as manually: wet, flood or immerse, allow to react if necessary



A50060 500 ml rPET bottle 500 ml

PU: 20 x 500 ml

A02060 20 L jerrycan

A20060 200 L plastic drum

A10060 1000 L IBC

PROLAQ L 100

- Paint remover for water-based paints and varnishes



A02063 20 L jerrycan

A20063 200 L plastic drum

A10063 1000 L IBC

Hazard notice: Eye Irrit. 2

PROLAQ L 400

- Paint remover for water- and solvent-based paints and varnishes
- Fast and virtually residue-free drying



A02069 20 L jerrycan

A20069 200 L plastic drum

A10069 1000 L IBC

PROLAQ L 500

- Paint remover for water- and solvent-based paints and varnishes



A02017 20 L jerrycan

A20017 200 L plastic drum

A10017 1000 L IBC

Hazard notice: Eye Irrit. 2

PROLAQ L US

- Paint stripper for hardened varnishes and paints
- For use in the Ultrasonic Cleaning Device for cleaning complex geometries and minute bores and orifices
- Temperature-stable up to 80 °C



A00566 5 L jerrycan

A02066 20 L jerrycan

A20066 200 L plastic drum

A10066 1000 L IBC

Hazard notice: Eye Irrit. 2

The **PROLAQ Liquids dissolve paint**, varnish, ink, printing ink, and pigmented ink.

Material: All painting tools and spray guns are cleaned, as well as stainless steel, steel, and aluminium.

To some extent also: non-ferrous metals and zinc-coated surfaces.

FIELD OF USE: across all industries, wherever paint and varnish are used, cleaning of spray guns, hoses, print rollers, stencils, et al. For manual and mechanical applications in the PROLAQ cleaning systems, in immersion baths, and in ultrasonic cleaning devices.

VARIO SL COMPACT

For tough cases

The parts washer for the removal of water-resistant contaminations.

Resins, epoxy resin, fibre-reinforced plastic, glue, and rubber don't stand a chance.

For the manual cleaning of tools, equipment, etc.

RECOMMENDED CLEANERS:		Page
GS 200	Cleaner with excellent dissolving power on water-resistant contaminations.	27
OMNI 200	with excellent cleaning- and penetration effect, protects from corrosion..	27

- User-friendly and environmentally friendly
- Safe → VOC-free or -reduced and label-free cleaners
- Can be used directly in the production or processing process
- Operated with compressed air
- No heating
- Incl. external filter

FIELD OF USE: production, maintenance, automotive industry, food industry, etc.



	VARIO SL Compact
Dimensions (W x H x D)	840 x 1060 x 600 mm
Work surface (W x D)	740 x 450 mm
Payload	100 kg
Working height	980/840 mm
Pump	Pneumatic diaphragm pump (AODD) PTFE diaphragm
Optimum filling quantity	40 – 100 L
Material	LDPE
Empty weight	50 kg
Air pressure	6 bar max.
Order number	G90030

Removing thermal paste with GS 200





Cleaning ball bearings with OMNI 200

OMNI 200

The **non-labelled cleaner** with fabulous capillarity dissolves, lubricates and cleans.

- Odourless
- Higher viscosity



E02018 20 L jerrycan

E20018 200 L metal drum

E10018 1000 L IBC

GS 200

Cleaner for the removal of very strong contaminations

- VOC-reduced, non-flammable
- High flashpoint (~ 100° C) guarantees high application safety
- NSF-certified



A02065 20 L jerrycan

A20065 200 L plastic drum

A10065 1000 L IBC



„SAFE CLEANING? YOU BET!“

(Bio-Circle Surface Technology GmbH member of staff)



Nature Boost –

optimal performance, employee protection and reduction of environmental impacts. Successful cleaning in the industry with the power of Nature. Nature Boost cleaners are based on renewable raw materials. They stand out for their excellent dissolving powers, especially with strong greases, oils, adhesives as well as paint and inks. What makes Nature Boost even more impressive is that it stands for non-combustible, VOC-free, and non-labelled products.



VOC-free, VOC-reduced

The European VOC Solvents Directive (1999/13/EC) aims to considerably reduce the use of solvents and VOC emissions into the environment, thus protecting human health. In the development and manufacturing of our products we pay close attention to developing and manufacturing VOC-free or VOC-reduced products. In plenty of applications, the water-based Bio-Circle products can replace solvents completely.



Non-labelled

With the aid of efficient systems and non-labelled products we succeed in optimizing the processes at our customers'. The cleaning quality is maintained although the cleaning is done without labelled products. The laborious handling of hazardous substances is obsolete. HAZMAT storages, HAZMAT trainings, and the preparation of operating instructions are a thing of the past. The employees' health and the environment are protected. Even trainees and apprentices are allowed to handle the products.



NSF – Cleaning in the foodstuffs industry

The NSF-certified water-based Bio-Circle cleaners are completely miscible with water, and because of their residue-free rinsability they are suitable for applications in the foodstuffs industry according to sec. 31 LFGB (German Food, Consumer Goods and Feed Code).



Water-miscible

Many of our cleaners are concentrates. They are easy to mix with water and hence very economical. Please make sure the mixing ratio corresponds to the application and the contamination.



Clean Blue – for low-temperature cleaning only

The Bio-Circle low-temperature cleaners – Clean Blue – have been developed for mechanical and manual use. They save energy and efficiently remove strong contaminations already at ambient temperature.



Ready to use

These cleaners are applied ready for use. Depending on the cleaner, their application is manual or mechanical. The user is relieved of one work step, as calculating the mixing ratio is no longer necessary.

PRODUCT ACCESSORIES:

Work made easy:
your practical helpers for
opening containers and
transferring fluids.



Tap

H00003 for 5 L and 10 L jerrycans
H00004 for 20 L and 30 L jerrycans
H00015 for 200 L plastic drum, 3/4" incl. adapter



Stainless steel hand-operated pump

H00006 for 200 L plastic drum
(discharge 0.3 L hoist) 2" standard drum thread
incl. thread adapter and 1 m hose



Plastic hand-operated pump

H00007 for 200 L plastic drum
(discharge 0.3 L hoist)
2" standard drum thread
incl. thread adapter
and 1 m hose



Jerrycan cap spanner/ bung wrench

H00016 Jerrycan cap spanner
for both DIN 51 and DIN 61,
plastic, colour: green
H00030 Bung wrench, metal,
for 200 L drums

Our delivery service (Germany)

Delivery time: approx. 2–3 days.

Delivery:

Free domicile incl. packaging for order values of € 600.00 or higher.
For order values (OV) under € 600.00, we invoice the following service charges (SC):

Service charge: OV up to € 100.00	SC of € 16.50
OV up to € 200.00	SC of € 19.50
OV up to € 600.00	SC of € 22.50

Collection by the customer:

You are welcome to pick up your products Monday thru Thursday between **8:00 a.m. and 4:30 p.m.** and Friday between **8:00 a.m. and 3:00 p.m.** directly from our production facilities in Gütersloh. Please call ahead on **+49 (0) 5241 9443 0**, so that we can prepare your order for pick-up.

Payment terms:

Our invoices are payable within 8 days with a 2 % discount, or within 30 days net without deduction. Upon request, we will debit the invoice amount from your account within 8 days. In that case you will receive a 3 % discount. For this, we require a direct debit authorization from you.

Reservation of title:

All items delivered by us shall remain our property until all present and future claims arising from the business relationship with the customer have been settled in full.

All prices are subject to VAT at the applicable rate.



**AS FLEXIBLE
AS OUR
APPLICATIONS**



AS FLEXIBLE AS WE ARE

We are committed to ensuring that you have your soiling under control and that your work processes run smoothly with clean machines, moulds, pipes, hoses, etc.:

- ▶ Through our research and development department
- ▶ Through our expert staff in the office and in the field
- ▶ Through our service technicians, who cover the entire German territory and come to your company. They maintain your equipment, depending on the service package, and are there for you on site after making an appointment.

Oils, greases, rust, limescale, resins, varnish ... the list of **contaminants** is long.

Stainless steel, steel, plastic, aluminium, non-ferrous metals ... the **surfaces** also pose special requirements.

The **areas of application** are just as varied: in parts cleaning, maintenance, pipes, heat exchangers, plastic injection moulds, painting tools and spray guns, CNC machines and more.

The same applies to the industries: metal processing, automotive, plastics processing, transport, traffic, agricultural technology, forestry, food technology, skilled crafts and trades, etc.



A STRONG GLOBAL PARTNER:



- ▶ CLEANING
- ▶ PROTECTING
- ▶ LUBRICATING
- ▶ WELDING

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Present around the globe

Our products are sold and used in 63 countries.
We have a global network of own subsidiaries,
production sites, and trade partners.



bio-circle.com