

MANUAL PARTS CLEANING

# INTELLIGENT PARTS CLEANING



 INTELLIGENT  
SYSTEM  
IN ACTION

**BIO-CIRCLE®**

[bio-circle.com](http://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.



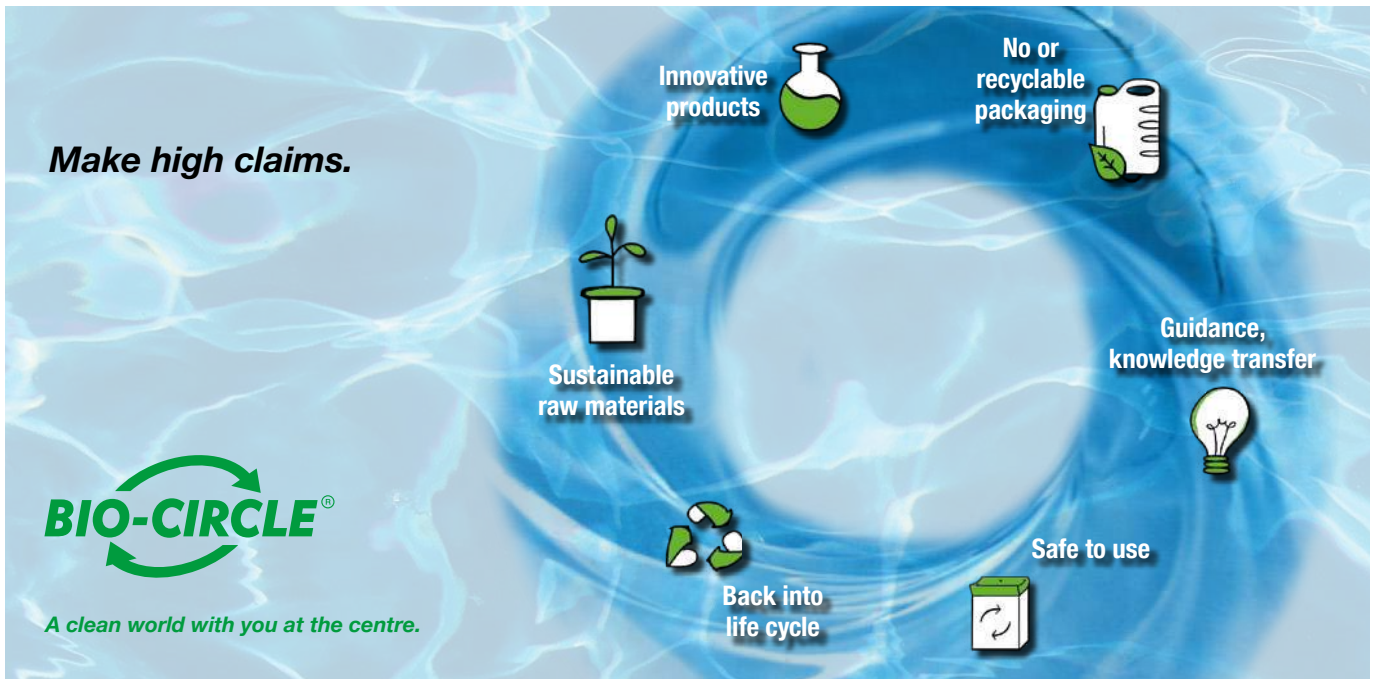
## No or recyclable packaging

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 **CO<sub>2</sub>-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](http://bio-circle.com)



# AT A GLANCE

Your page references

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<p><b>CLEAN BOX</b> The mobile solution for parts cleaning p. 20</p>	<p><b>PROLAQ</b> Cleaning of painting tools and spray guns p. 22</p>	<p><b>VARIO SL Compact</b> Parts washer with flow brush for removing water-resistant contaminations p. 28</p>



	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	Label-free	17
BIO-CIRCLE L Evo	8	0	-										-	VOC free	-	NSF	Label-free	16
BIO-CIRCLE L Ultra	8,5–9,5	0	-										-	VOC free	-	NSF	Label-free	17
CB 100	10,8	0	-										-	VOC free	-	NSF	Label-free	21
CB 100 Alu	8,6	0	-										-	VOC free	-	NSF	Label-free	21
FOR CLEAN F	9	0	-										-	VOC free	-	NSF	Label-free	21
GS 200	-	19	118										-	VOC reduced	NSF	Label-free	29	
OMNI 200	-	0	240										-	VOC free	-	Label-free	29	
PROLAQ L 50	7	2,5	-										-	VOC reduced	-	Label-free	24	
PROLAQ L 100	7	13	65										-	VOC reduced	-	Label-free	24	
PROLAQ L 300	7	30	> 85										-	-	-	Label-free	25	
PROLAQ L 400	-	45	63										-	-	-	Label-free	24	
PROLAQ L 500	-	20	61										⚠	VOC reduced	-	-	24	
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 PROLAQ																		27

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, outdoor setting. The lighting is bright, highlighting the texture of the leaf and the clarity of the water.

**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:



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

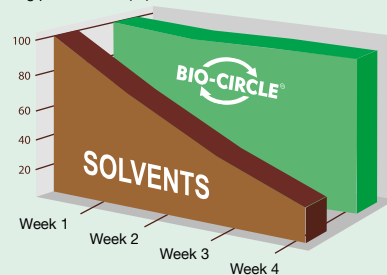
## BIO-CIRCLE GT-i Compact und BIO-CIRCLE GT-i Maxi

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

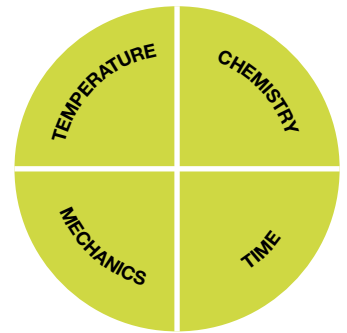
### CLEANING CONSISTENCY

Cleaning performance (%)



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





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



	<b>BIO-CIRCLE GT-i Compact</b>	<b>BIO-CIRCLE GT-i Maxi</b>
Dimensions (W x H x D)	830 x 1060 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 to 41 °C	up to 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	<b>G50030-i</b>	<b>G60030-i</b>

# 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



Stainless steel top piece G60030-18-i  
Special equipment: with two brush connections

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



Filter

# 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*

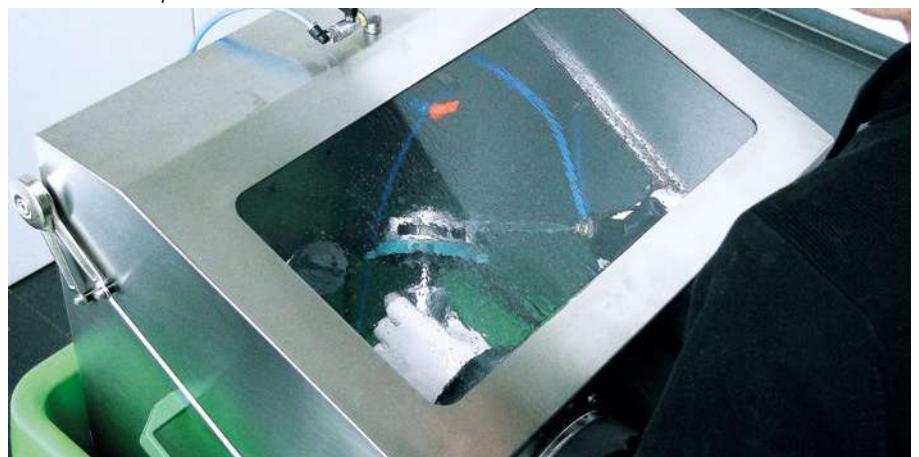
*Multi Box GT Compact – easy installation*



**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



### Overflow Plug

incl. filter

**G48D743-01** Overflow Plug for

BIO-CIRCLE GT-i Compact a. Maxi,

PROLAQ Compact



### 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



# 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

Cleaning with BIO-CIRCLE L Evo



## Manual use

	Everyday soiling*	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>TOP SELLER</b></div> The right choice for your applications.		Persistent soiling*
	BIO-CIRCLE L	BIO-CIRCLE L EVO	BIO-CIRCLE L Ultra	
<b>Mechanics</b>	parts washer with flow brush	parts washer with flow brush, parts washing machine, high-pressure parts washer	parts washer with flow brush	
<b>Operating temperature</b>	41 °C	41 – 45 °C	41 °C	
<b>Residues</b>	virtually residue-free	virtually residue-free	forms a light protective film	
<b>Aluminium protection</b>	-		-	
<b>Food areas</b>				
<b>Corrosion protection</b>	temporary	temporary	temporary	
<b>Environmental aspect of raw material</b>	Surfactants based on renewable raw materials; label-free according to the CLP Regulation, VOC-free according to 2010/75/EU			
<b>Labelling</b>	Surfactants based on renewable raw materials; label-free according to the CLP Regulation, VOC-free according to 2010/75/EU			

\* Everyday soiling: oils, greases

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

\*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

<b>A02026</b>	20 L jerrycan
<b>A20026</b>	200 L drum
<b>A10026</b>	1000 L IBC

## BIO-CIRCLE L Ultra



- ▶ Removes persistent contaminations
- ▶ Suitable for the food industry

<b>A02072</b>	20 L jerrycan
<b>A20072</b>	200 L drum
<b>A10072</b>	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](http://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 – 60 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



ROSTFREI  
Edelstahl

	BIO-CIRCLE HP-isi
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 – 60 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	<b>G30028-i</b>





RECOMMENDED CLEANERS FOR BOTH DEVICES:		Page
<b>BIO-CIRCLE L Evo</b>	Low-foaming cleaner with microorganisms, for manual and automatic cleaning; ideal cleaning temperature: 45 °C	16
<b>CB 100</b>	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	<b>G30027</b>



# 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:

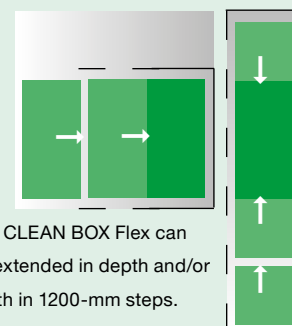
### CLEAN BOX Max

- ▶ 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.

## 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



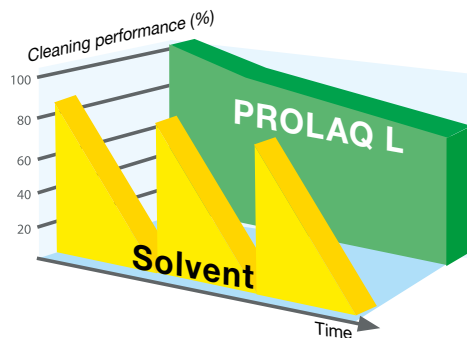
Manual cleaning in the PROLAQ Compact

Manual cleaning of a spray gun in the PROLAQ Compact



	<b>PROLAQ Compact</b>
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	<b>G90010</b>

### CLEANING CONSISTENCY



RECOMMENDED CLEANERS:		Page
<b>PROLAQ L 100</b>	Paint remover for water-based paints and varnishes	24
<b>PROLAQ L 400</b>	Paint remover for water- and solvent-based paints and varnishes; dries quickly and leaves virtually no residue	24
<b>PROLAQ L 500</b>	Paint remover for water- and solvent-based paints and varnishes	24

## PROLAQ Auto

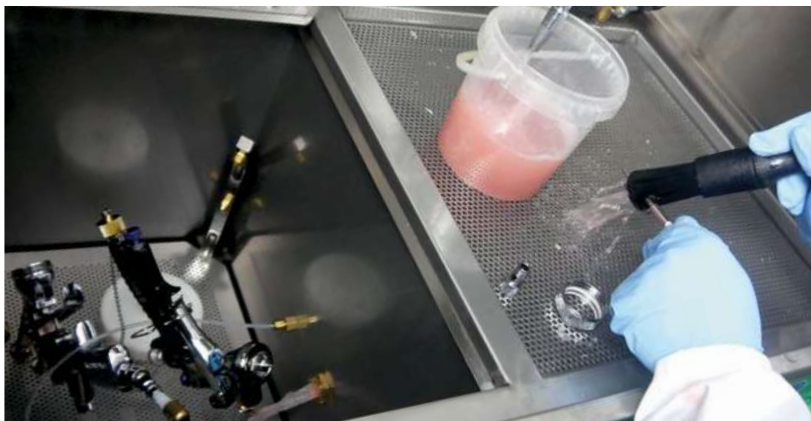
### Manual and automatic cleaning of all painting tools and spray guns

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



Automatic or manual cleaning of a spray gun in the PROLAQ Auto



	<b>PROLAQ Auto</b>
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	<b>G90055</b>

# 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



<b>A50060</b> 500 ml rPET bottle PU: 20 x 500 ml
<b>A02060</b> 20 L jerrycan
<b>A20060</b> 200 L plastic drum
<b>A10060</b> 1000 L IBC

## PROLAQ L 100

- ▶ Paint remover for water-based paints and varnishes



<b>A02063</b> 20 L jerrycan
<b>A20063</b> 200 L plastic drum
<b>A10063</b> 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



<b>A02069</b> 20 L jerrycan
<b>A20069</b> 200 L plastic drum
<b>A10069</b> 1000 L IBC

## PROLAQ L 500

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



<b>A02017</b> 20 L jerrycan
<b>A20017</b> 200 L plastic drum
<b>A10017</b> 1000 L IBC
Hazard notice: Eye Irrit. 2

Cleaning spray guns and accessories in the PROLAQ Compact



Cleaning spray guns and accessories in the PROLAQ Auto





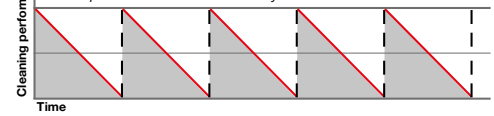


PROLAQ 400 and two-component varnish (undiluted)

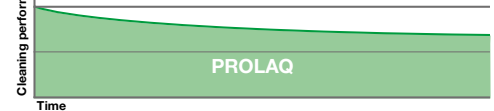
Sedimentation process

## PROLAQ FACILITATES CLEANING AT A CONSISTENTLY HIGH LEVEL

The cleaning performance of conventional solvents decreases drastically over a short period of time. Accordingly, the cellulose thinner has to be replaced with fresh thinner very often.



The PROLAQ System provides cleaning performance at a consistently high level over a long period of time.



## PROLAQ L 300

- ▶ Highly effective, low-solvent, water-based cleaner
- ▶ For the automated cleaning of inks on components, ink-carrying parts and parts and components of printing machines such as doctor blades, rollers, etc.
- ▶ Safety due to high flash point (> 85 °C)
- ▶ No hazardous goods classification



**A500913** bottle 500 ml

**A020913** 20 L jerrycan

**A200913** 200 L plastic drum

**A100913** 1000 L IBC

## 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 dried and hardened paint, varnish, ink, printing ink, and pigmented ink.

**Material:** All painting tools and spray guns are cleaned, as well as stainless steel, steel, tiles and aluminium. In certain cases, 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, screen-printing cleaning systems and in ultrasonic cleaning devices.

Hose system cleaning with PROLAQ Liquid



With PROLAQ L US paint removal in an ultrasonic bath



# 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

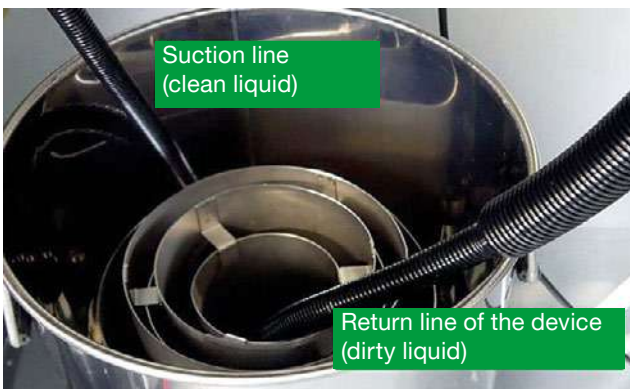
- ▶ Suitable for all paint spray gun cleaning systems
- ▶ Easy and quick to install → the system remains unaltered
- ▶ Incl. ball valve and lateral handles

## 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	<b>G90053</b>



# PROLAQ ACCESSORIES

The extensive range of accessories is the perfect complement to the PROLAQ product range and guarantees fast and thorough cleaning results. The accessories can be ordered separately or together in a practical toolbox. The toolbox contains protective goggles, gloves, a cartridge filter, a pre-filter, and a gun cleaning kit.



## PROLAQ Toolbox

**G90010-01** PROLAQ toolbox with accessories with aluminium carrying handle, colour: green



**G90010-02** PROLAQ coil cartridge filter 25 µm

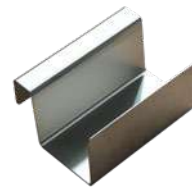
**G90010-03** PROLAQ pre-filter 200 µm

PU: 12 pcs.



**G90010-05** PROLAQ gun cleaning kit,

17 pieces



**G90010-07** PROLAQ toolbox holder



**G90010-04** PROLAQ disposable gloves,

grey, size XL

PU: 50 pcs. (1 box)

## PROLAQ flow brushes

for PROLAQ Compact

**G90010-08** PROLAQ flow brush

**G90010-09** PROLAQ flow brush,

medium-hard



# 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
<b>GS 200</b>	Cleaner with excellent dissolving power on water-resistant contaminations.	29
<b>OMNI 200</b>	with excellent cleaning- and penetration effect, protects from corrosion..	29

- ▶ 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.



	<b>VARIO SL Compact</b>
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	<b>G90030</b>

*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



<b>E02018</b> 20 L jerrycan
<b>E20018</b> 200 L metal drum
<b>E10018</b> 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



<b>A02065</b> 20 L jerrycan
<b>A20065</b> 200 L plastic drum
<b>A10065</b> 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



### Jerry can cap spanner/ bung wrench

**H00016** Jerry can 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):

<b>Service charge:</b> 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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**Tel: +353 45 889 529**

## **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](http://bio-circle.com)