CLEANING SYSTEMS FOR THE DEFENCE INDUSTRY

MAKING GREEN WORK.



Bio-Circle Surface Technology GmbH • Defence A101/ 2026 EN
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BIO-CIRCLE®

bio-circle.com

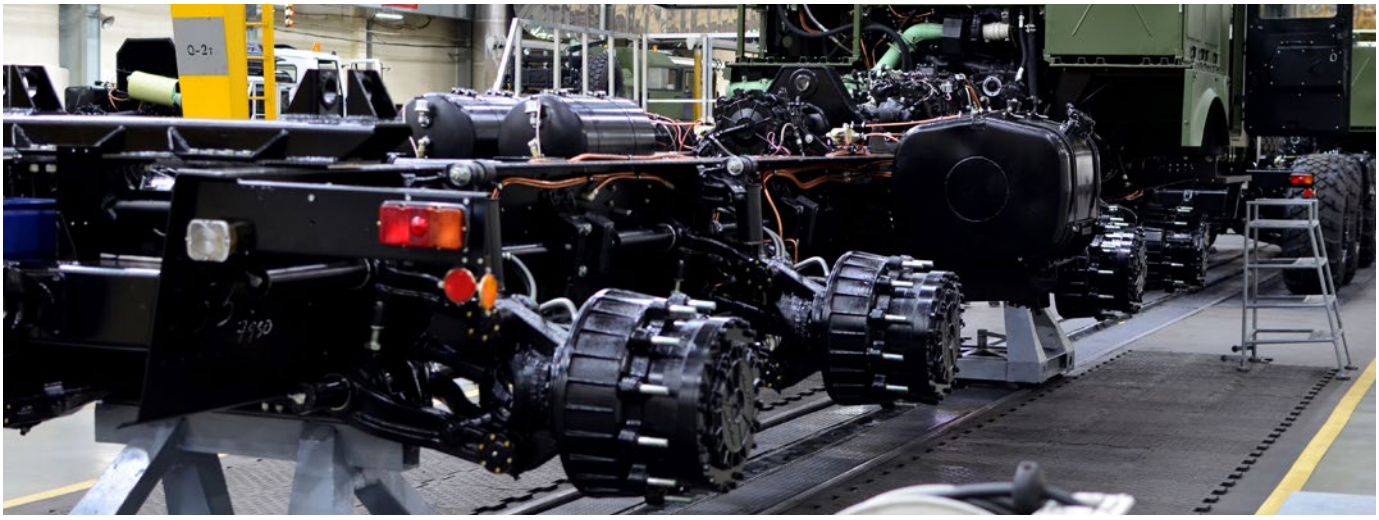
STRAIGHT AHEAD WITH SUSTAINABILITY

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 40 years of knowledge and experience in research, product development, process optimisation, sales and service.
With a global network, production sites and partners.

With around 190 employees, the Gütersloh site is Bio-Circle's headquarters. This is where all products are developed and manufactured for Germany, Europe and beyond. Made in Germany.



APPLICATION IN THE INDUSTRY

- General degreasing tasks, e.g. in maintenance programmes, during maintenance work or in workshops
- General replacement of brake cleaners
- Comprehensive overhaul of armoured vehicles, submarines and ships
- Cleaning of weapon parts in parts washers
- Cleaning of paint spray guns used to apply the characteristic green coating of the military

Sustainable raw materials

As a manufacturer of industrial cleaners and cleaning systems, Bio-Circle bears a great responsibility. These products play an important role in the maintenance of machines, systems 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 manufacture 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 glossed over. Our innovative products for the cleaning industry are **safe to use** in manual and automatic parts cleaning.
We are pioneers, we do things differently and we follow a straight path. Because we formulate and manufacture industrial cleaners that are free of or low in labelling requirements. In our own laboratory and in our own production facilities.

No packaging 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 evolving and developing. The best bottle is no bottle at all, because refillable application systems are the solution – they make bottles unnecessary! And when there is no other option, we have recyclable 500 ml rPET bottles made from **100 % recycled material**.
For ease of use: cleaners in IBCs and 200-litre drums can be transferred to 20-litre canisters using hand pumps. Naturally, the IBCs, drums and canisters are made of **easily recyclable** HDPE plastic.
Only recycled and recyclable **paper** bearing the '**Blue Angel**' eco-label is used as filling material in shipping. We also ship **CO_2-neutrally** through our parcel service provider and our freight forwarder.

Sound advice and knowledge transfer

We pass on our experience and knowledge to you so that you can clean easily, quickly, safely, cost-effectively and environmentally friendly cleaning.
You have questions, we provide answers. If you are satisfied with the cleaning performance and your work, and if we have been able to optimise your work processes, then we are satisfied too.

Safe application

Working with unlabelled and low-label industrial cleaners and recirculating cleaning equipment can trigger a domino effect:
For the company, the longer service life, reduced occupational safety measures and increased productivity are just a few reasons to be happy about **savings, because costs are reduced**. Users who **enjoy their work more and are more motivated**, who feel fitter because they have to breathe in significantly fewer pollutants and toxic fumes, are happy about their improved quality of life.
For both sides, there is also the added benefit of **time savings**. This is not only thanks to the effective, reliable industrial cleaners, but also to the energy-saving, recirculating parts washers.

Back to the life cycle

At Bio-Circle, we live and breathe life cycle assessment. **We are committed to sustainability in manufacturing and use.** Longer service life and VOC-free or reduced-VOC cleaners mean less waste disposal and less risk.

System solutions Sustainable – innovative

Safe and convenient cleaning

Bio-Circle cleaning systems offer a wide range of cleaning devices with water-based cleaners for safe and convenient cleaning and degreasing. The areas of application could not be more diverse. Whether components or machines, with these cleaning systems you can solve your tasks efficiently. Take advantage of our regular maintenance of the cleaning system and the cleaner by our service technicians.

MANUAL



BIO-CIRCLE Parts washer

Systems for natural, biological parts cleaning



BIO-CIRCLE HP

The parts washer with the cleaning power of high-pressure cleaning



HP Vigo

Manual high-pressure cleaning for all requirements



PROLAQ Compact

Manual cleaning of paint application and processing tools



Foam Injector

Manual foam application for large areas

AUTOMATIC



BIO-CIRCLE Turbo

2 in 1 – automatic and manual cleaning



HTW

Robust, fully automatic hot-water parts washers



PROLAQ Auto

Automatic and manual cleaning of paint application and processing tools



Bio-Circle Parts cleaning

Safe, natural and convenient



The award-winning BIO-CIRCLE parts washers are true specialists. They clean without solvents or cold cleaners, protecting employees and the environment from volatile vapours. With its convenient, easy-to-use features and wide range of accessories, BIO-CIRCLE offers you a long-term solution for effective parts cleaning using natural products.

- **Double-walled liquid tank – energy efficiency**
- **Manual or automatic – the choice is yours**
- **System consisting of device, cleaner and maintenance**





Difference between the two devices: size and load capacity

- **Easy transport using a pallet truck**
- **Optimal depth of the basin for good splash protection**
- **Filter system in the basin drain (coarse, fine and bag filters as well as magnet)**
- **Drainage device**
- **Can be booked separately:**
  - **Filter housing with various filter inserts**
  - **Rail system with castors for mobility**
  - **and much more**

	BIO-CIRCLE For U	BIO-CIRCLE GT Maxi
Dimensions (W x H x D)	820 x 1050 x 600 mm	980 x 1110 x 705 mm
Working surface (W x D)	720 x 480 mm	810 x 520 mm
Load capacity	100 kg	250 kg
Working height	1000 mm	860 mm
Operating temperature	up to 41 °C	up to 41 °C
Heating	700 W	650 W
Pump	40 W	40 W
Optimum filling capacity	100 l	120 l
Material	LDPE plastic	LDPE plastic
Weight (empty)	45 kg	60 kg
Electrical connection	230 V, 50 Hz	230 V, 50 Hz







RECOMMENDED CLEANERS

BIO-CIRCLE L Evo Low-foaming cleaner with microorganisms, for manual and automatic cleaning, ideal cleaning temperature: 41 °C– 50 °C

Stainless-steel cleaning systems

BIO-CIRCLE Turbo



2 in 1 – automatic and manual cleaning

- With access for manual cleaning when the hood is closed
- Precise, manual cleaning with a brush or nozzle
- Compressed air gun max. 6 bar in cleaning chamber
- Automatic cleaning pressure: 4 bar
- Insulation of the entire body
- Long service life of the cleaner due to microorganisms
- Basket diameter 800, 1000, 1200 or 1500 mm

ROSTFREI Edelstahl

Stainless steel

BIO-CIRCLE HP



Manual cleaning with lid open or closed

- Manual cleaning with a flow brush with the lid open or closed
- Cleaning temperature 45 °C
- Insulated tank prevents heat loss
- Working pressure 20–60 bar, optimal handling via a high-pressure gun
- Extendable step
- Payload up to 350 kg, crane loading possible
- Significantly longer bath service life thanks to microorganisms
- Manually operated rotating basket available as an option

HP Vigo



Manual cleaning with closed hood

- Cleaning temperature adjustable up to 45 °C
- Working pressure adjustable up to 80 bar, optimum handling via a high-pressure nozzle
- Compressed air gun for drying the parts
- Payload up to 150 kg
- Significantly longer bath service life due to microorganisms
- Shutdown in case of low level via a float switch (protection of the heater and pump)



	BC Turbo 800	BIO-CIRCLE HP	HP Vigo
Dimensions (W x D x H)	1170 x 1075 x 1585 / 2035	1150 x 1229 x 1800 / 2430	1348 x 857 x 1574/1953
Work surface (W x D)	Ø 775	860 x 580 x 480	1200 x 800 x 450
Load capacity	350 kg	350 kg	150 kg
Working height	900 mm	950 mm / 1210 mm	950 mm / 1050 mm
Operating temperature	Variable 40–60 °C	45 °C	45 °C
Heating	4.5 kW	0.65 kW	2 kW
Pump	automatic 220 W / manual 55 W	1.6 kW, AD = up to 60 bar	1.85 kW, AD = 80 bar
Optimal filling capacity	160 L	100 L	120 L
Material	Stainless steel	Stainless steel	Stainless steel
Weight (empty)	350 kg	235 kg	125 kg
Electrical connection	400 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz

HTW Hot-water parts washer

Bio-Circle HTW II

Robust, fully automatic cleaning device
for single-stage cleaning and degreasing of small parts



Stainless steel

A low-maintenance high-pressure spray system, equipped with a special nozzle system, ensures thorough cleaning and degreasing of tools and other parts. Thanks to the powered rotating basket and the spray pressure, the Bio-Circle cleaners in the hot-water parts washer have an optimal effect on the items being cleaned.

- **Tank with sloping bottom for quick emptying**
- **Digitally adjustable thermostat (up to 90 °C), digital timer controls the duration of cleaning**
- **Machine body, basket insert, spray system and switch box made of V2A**
- **Electric rotating basket drive**

	HTW-II 800	HTW-II 1000	HTW-II 1200	HTW-II 1500
Total width x total depth (mm)	1180 x 1145	1370 x 1210	1580 x 1505	2080 x 1681
Height of closed/open lid with exhaust air elbow (mm)	1361 / 1790	1524 / 2005	1580 / 2200	1840 / 2700
Internal basket diameter, approx. (mm)	775	975	1175	1500
Maximum usable height (mm)	400	450	650	700
Maximum payload (kg)	350	350	350	350
Washing fluid tank capacity (litres)	150	300	485	770
Total weight of cleaning system without tank filling, payload (kg)	280	350	350	550
Total electrical connection value / electric heating approx. (kW)	6 / 4.5	8.5 / 6	11.5 / 9	21.5 / 2 x 9
Pump in automatic cleaning: flow rate (m^3/h / bar)	4.8 / 3.8	12.0 / 3.8	12.0 / 3.8	14.5 / 4.5



PROLAQ Auto

Manual and automatic cleaning for all paint application and processing tools

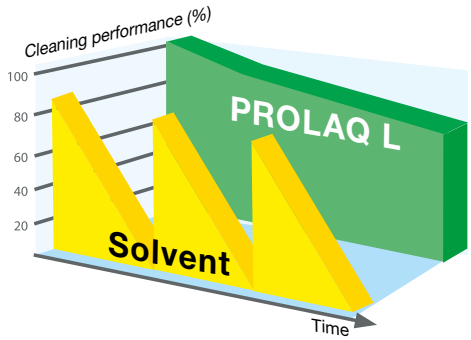


The PROLAQ Auto is a compact cleaning station for paint spray guns and tools. Cleaning in EX-protected areas can be carried out manually or automatically. Flow cups and suction cups can be cleaned automatically.
The cleaned components can then be dried using an air shower. The integrated extraction system and hood effectively minimise odours and ensure a clean workplace.

- Manual and automatic cleaning, even in EX-protected areas
- Automatic cleaning of 2 guns simultaneously
- For suction- and flow cup guns
- Subsequent air flushing
- Manual cleaning with a flow brush is also possible
- Can be closed with a hood
- Sedimentation- and filter unit included

Gefördert durch:
Bundesministerium für Wirtschaft und Energie
aufgrund eines Beschlusses des Deutschen Bundestages

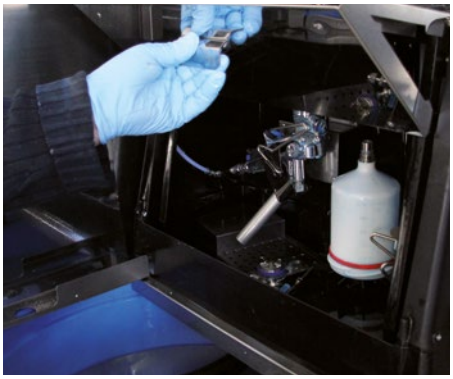
Cleaning effect



	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
Pump	AODD pump PTFE diaphragm
Pump flow rate	12 L/min
Air consumption of the pump	58 L/min
Filling capacity	60 L
Material	Steel/stainless steel
Weight (empty)	94 kg
Air pressure	5–6 bar
Automatic cleaning	14 nozzles; cleans 2 pistols
Noise level	<70 dB
Exhaust pipe diameter	76 mm
ATEX	Zones 1 and 2

RECOMMENDED CLEANERS	
PROLAQ L 400	Paint Remover for water- and solvent-based paints and varnishes, with fast and virtually residue-free drying





PROLAQ Compact

Manual cleaning system for all paint application and paint processing tools

The mobile PROLAQ Compact offers the user a high degree of flexibility. A wide range of paint tools such as nozzles, squeegees, printing plates or hose-fed airless systems can be cleaned. The robust cleaning system made of plastic (PE) is operated with compressed air, via a foot switch. A high-quality flow brush ensures optimum cleaning results. A compressed air gun on the side offers a quick way to dry the cleaned parts.



- **Pneumatically operated**
- **Integrated funnel**
- **Mobility kit**
- **High-quality flow brush, optionally available in different degrees of hardness**
- **Lid with splash guard function (optional)**
- **Accessory box (optional)**
- **Holder for accessory box (optional)**

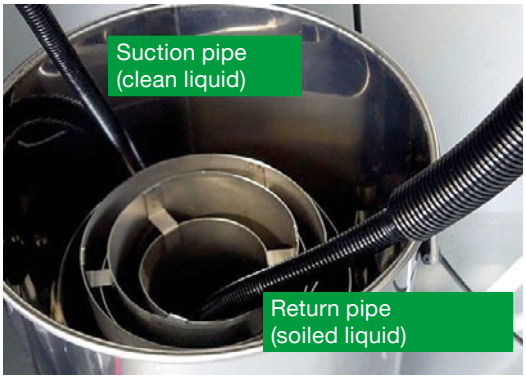


Gefördert durch:
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aufgrund eines Beschlusses des Deutschen Bundestages

	PROLAQ Compact
Dimensions (W x H x D)	840 x 1060 x 600 mm
Work surface (W x D)	740 x 450 mm
Load capacity	100 kg
Working height	980/840 mm
Pump	AODD pump PTFE diaphragm
Optimum filling quantity	40 – 60 L
Material	LDPE plastic
Weight (empty)	50 kg
Air pressure	max. 6 bar

PROLAQ conversion kit

The **PROLAQ conversion kit for existing systems** can be installed quickly and easily in all spray gun cleaning systems. For example, the label-free paint remover **PROLAQ L 400** replaces conventional solvents and **cleaned-off micro-particles are separated from the medium by sedimentation.**







RECOMMENDED CLEANERS	
UNO A V	Highly foaming cleaner for heavy and extremely heavy soiling – to be used with an application system. Long contact time even on vertical surfaces. Ideal for foaming applications in wash halls.

FOAM INJECTOR

The foam injector is easy to use, virtually maintenance-free, with a 10-m hose and foam lance – the perfect tool for large-area cleaning. The firm and long-lasting foam removes stubborn dirt, even on vertical surfaces, depending on the mode of action of the cleaner.



- **Compressed air: 5 bar**
- **Efficiency: 3.1 m² per minute**
- **With AODD pump**
- **Includes adapter for attaching IBC or 200-litre drum**
- **Suitable for foaming Bio-Circle cleaners pH 0 to 14**
- **10-m or 20-m hose**
- **20-m hose with stainless-steel reel**







BIO-CIRCLE LIQUIDS

A spectacular performance

HIGH-LEVEL CLEANING: SIMPLE, FAST, SAFE.
The water-based alkaline BIO-CIRCLE liquids are solvent-free and label-free, yet offer excellent cleaning performance. They are a user-friendly and environmentally friendly alternative to solvents. Their use means greater occupational safety and lower operating costs, benefiting both users and businesses alike. BIO-CIRCLE Liquids, which are used in conjunction with BIO-CIRCLE parts washers, contain microorganisms* that break down the removed oil, thus guaranteeing a long service life. Even with increasing dirt contamination, consistently good cleaning results are achieved.
BIO-CIRCLE liquids are ready to use, offer temporary corrosion protection and have an ideal cleaning temperature of 41 °C.

BIO-CIRCLE L Evo

Available in 20 L, 200 L and 1000 L containers.

- **VOC content below 1 %**
- **The most versatile of the BIO-CIRCLE liquids**
- **For medium to heavy soiling**
- **Environmentally friendly and safe**
- **For manual and machine use:**
  in BIO-CIRCLE parts washers, parts washing machines and high-pressure parts washers
- **VOC-free and label-free in accordance with the CLP Regulation**
- **Cleans materials such as:**
  aluminium, galvanised surfaces and non-ferrous metals as well as steel/stainless steel and plastic

Cleaning with BIO-CIRCLE L Evo





Manual use

Everyday soiling* — Stubborn stains*

TOP SELLER
The right choice for your applications.

	BIO-CIRCLE L	BIO-CIRCLE L Evo	BIO-CIRCLE L Ultra
Mechanics	parts washer	parts washer, parts washing machine, high-pressure parts washing devices	parts washer
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 Not subject to labelling in accordance with the CLP Regulation VOC-free in accordance with 2010/75/EU		
Labelling			

*The microorganisms used are non-pathogenic bacteria in 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

Available in 20 L, 200 L and 1000 L containers.

- **The everyday choice among the BIO-CIRCLE liquids**
- **Suitable for the food industry**

BIO-CIRCLE L Ultra

Available in 20 L, 200 L and 1000 L containers.

- **For heavy soiling**
- **Suitable for the food industry**
- **Can be used in BIO-CIRCLE parts washers, parts washing machines and high-pressure parts washers**

BIO-CIRCLE liquids clean a wide variety of contaminants, depending on requirements and cleaning system: grease, oil, release agents, smoke, soot, abrasion and grinding dust. In some cases, also baked-on organic contaminants, rust, oxidation and tarnish, bitumen and anti-corrosion waxes.
Material: stainless steel, steel, plastic, painted and galvanised surfaces. In some cases, also aluminium, non-ferrous metals.

FIELD OF APPLICATION: Maintenance of components, workpieces and engines. Cross-industry: automotive, food, metalworking/CNC, rail transport, skilled trades.

You already have a cleaning system and would like to use our innovative products? Contact us, we will be happy to advise you!
www.bio-circle.com

PROLAQ-L

Make a new decision!

With our **unique PROLAQ liquids,** we offer you an alternative to nitro-cellulose combination thinners: **VOC-reduced and low-labelling paint removers** for removing paints, varnishes, inks and printing inks.
Recyclable. Lower costs. Optimal cleaning performance. User-friendly. Environmentally friendly.
Fewer protective measures, reduction of operating costs and a workplace in line with occupational health.
Systematic cleaning: PROLAQ ready-to-use paint removers are specially designed for use in PROLAQ Compact and PROLAQ Auto cleaning systems and in ultrasonic cleaning devices.
Available in 20 L, 200 L and 1000 L containers.

PROLAQ L 400

Label-free, solvent-based paint remover

- **Effectively cleans undried lacquers, paints and printing inks from spray guns, rollers, pumps, etc.**
- **Low residue**
- **Label-free in accordance with the CLP Regulation**
- **EU: < 45% VOC content; CH: 16% VOC content**
- **Can be used mechanically and manually**
- **Recyclable**
- **Non-flammable**
- **Removal of graffiti**



Hose system Cleaning with PROLAQ

YOUR ADVANTAGES

- **High cleaning power**
- **Solvent reduction**
- **Safe workplace**
- **Professional cleaning system**

FT 400

Residue-free

The fast-drying FTs are residue- and streak-free cleaners for surface pre-treatment and final cleaning. Perfect for manual cleaning, such as degreasing before painting or removing adhesive residues, processing oils or fingerprints and dust.
They are label-free and VOC-reduced, making them user- and environmentally friendly.
Available in 20 L, 200 L and 1000 L containers.

- **Residue-free and streak-free**
- **Evaporates faster than water-based cleaners**
- **Can be used on all surfaces**

FTs remove oil, release agents, grease, fingerprints, abrasion, grinding dust and adhesive residues.
From: stainless steel, steel, tiles, aluminium, non-ferrous metals and galvanised surfaces. In some cases, also from wood, plastic, rubber and painted surfaces, among others.
FIELD OF APPLICATION: Cross-industry, metalworking/CNC, automotive, 3D printing, plastics processing, rail transport, crafts.

CB 100

This water-based cleaner works on the basis of natural ingredients, which give the cleaner its powerful dissolving properties. It removes carbon deposits, soot, sealants and adhesives, oil carbon, bitumen and protective waxes. CB 100 Alu is gentle on materials and does not attack metallic surfaces.
Supplied in a user-friendly 500 ml spray bottle, refillable from 20 L, 200 L and 1000 L containers.

APPLICATION AREA:
- Universal for manual and automatic removal of the most stubborn dirt throughout in dustry
- Cleaning of roller and ball bearings
- Maintenance of motors
- Replacement of petroleum in cleaning
- Can be used in ultrasonic cleaning systems
- Can be used in HTW and BIO-CIRCLE Turbo
- Degreasing before painting

CB 100 LR

▶ **Reduced residue**



EFFICIENT
- ▶ Extreme cleaning power
- ▶ Can be used cold or warm

ENVIRONMENTALLY FRIENDLY
- ▶ VOC-free
- ▶ Label-free
- ▶ Hazardous substance-free

SUSTAINABLE
- ▶ Very long service life
- ▶ Based on renewable raw materials





GS 200

GS 200 is an alternative to VOC-containing cleaners for removing bitumen, waxes, buffer grease, tar, resins and rubber residues from surfaces. The cleaner does not attack steel, aluminium or painted surfaces. Even burnt-in oil layers on gearboxes and engines are removed. The cleaner is label-free, extremely economical and has a flash point of over 100 °C.
Supplied in 500 ml spray bottles (for manual application), and 20 L, 200 L and 1000 L containers.





EFFICIENT
- Extremely economical when applied to surfaces
- Slow evaporation – long exposure time

ENVIRONMENTALLY FRIENDLY
- No labelling required
- VOC-reduced
- Reduction in hazardous substances

UNO AV

- **For heavy and extremely heavy soiling (energy sector, transport, public transport)**
- **To be used with an application system**
- **Highly foaming, long contact time even on vertical surfaces**
- **Ideal for foaming applications in wash halls**

Even **the toughest dirt** such as oil, grease, release agents, smoke and soot don't stand a chance against UNOs. In some cases, baked-on organic dirt, abrasion, grinding dust, rust, oxidation, tarnish, insect dirt and rubber residues are also removed.

Material: steel, stainless steel, tiles, plastic, some painted and galvanised surfaces, etc.

FIELD OF APPLICATION: Maintenance and degreasing processes in the metal and food industries, among others. For manual and machine use, e.g. in immersion baths, automatic parts washers, floor and high-pressure cleaning equipment, etc.

ALUSTAR 300

VOC free!

Professional, liquid, highly concentrated **cleaner and degreaser for mechanical cleaning and degreasing of parts.** Can be used as a highly alkaline cleaner in maintenance and repair work and as a substitute for solvents. Suitable for use on aluminium and brass components.
Available in 20 L, 200 L and 1000 L containers.

- **Oil separator compatible**
- **Demulsifying – oil and grease contaminations can be removed by mechanical methods (e.g. plate separators)**
- **Very low application concentrations (from 1 %)**
- **Low-foaming formulation**
- **High dirt-carrying capacity**
- **Optimum cleaning temperature at 60 °C**

APPLICATION: • Universal – can be used manually and mechanically (e.g. in high-pressure cleaners, parts cleaning systems and ultrasonic cleaning devices)

Please note:
We will be happy to send you titration instructions and curves for determining concentration.

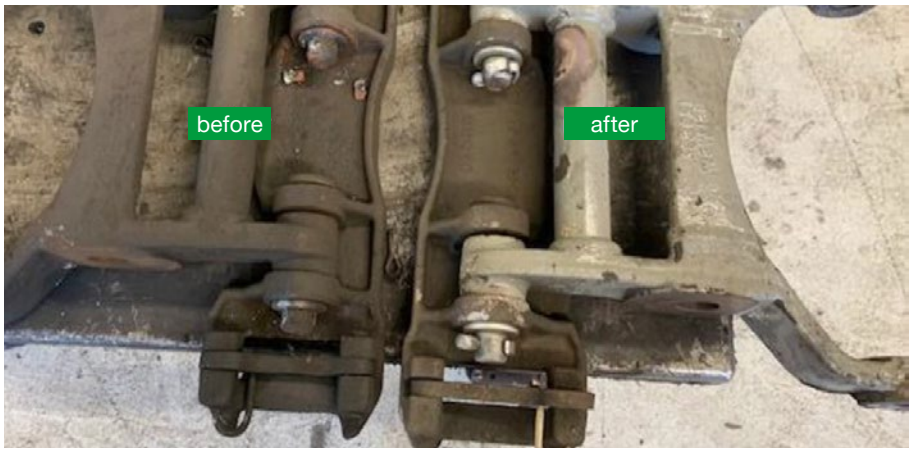
ALUSTAR 500

VOC free!

ALUSTAR 500 is a water-based, low-foaming neutral cleaner designed for use in fully automatic spray cleaning machines. It removes inorganic contaminants such as brake dust and biomass of all kinds, as well as very heavy grease and oil contamination. ALUSTAR 500 can be diluted with water depending on the level of contamination. Thanks to its neutral pH value, not only steel and iron components can be cleaned fully automatically, but also those made of aluminium, non-ferrous metals or composite materials. The service life can be extended with standard coalescence separators (e.g. plate separators) due to the demulsifying behaviour of the cleaning medium.
Available in 20 L, 200 L and 1000 L containers.

- **Biodegradable in accordance with EU directive**
- **VOC-free**
- **Non-flammable, can be used at temperatures up to 90 °C**
- **Viscous, adheres to vertical surfaces**

APPLICATION: • Automatic cleaning of bogie components on freight wagons and passenger vehicles that are heavily contaminated with brake dust and grease.



EMPLOYEE-FRIENDLY
- pH-neutral
- Odourless

COST-EFFICIENT
- Very long bath life
- Easy disposal

ENVIRONMENTALLY FRIENDLY
- VOC-free
- Biodegradable in accordance with EU directive

AF Clean

The perfect combination with Air Force

AF Clean is the best buddy of the refillable Air Force aluminium spray bottle! The alkaline, label-free cleaner is a must-have for your manual surface cleaning, as it **has a strong cleaning performance and is still low-residue. Supplied in 3-L refillable canisters, 20 L, 200 L and 1000 L containers.**



- **REMOVES oils, greases, abrasion, grinding dust, release agents and adhesive residues**
- **CLEANS steel, stainless steel, aluminium, plastic and painted surfaces**
- **Safe: no labelling required, VOC-reduced in accordance with CLP Regulation**
- **Foam-free**
- **Pleasant menthol scent**

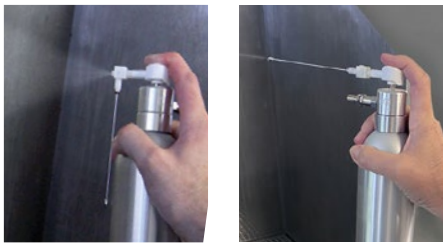
APPLICATION: Metalworking/CNC, automotive, plastics processing, crafts, maintenance

USE: Spray on – leave to take effect – wipe away

AIR FORCE

Sustainably good: the refillable spray can!

From the canister to the spray can – that's the new way of thinking in manual surface cleaning. No more spray can waste, application as usual at the touch of a button.



großflächig Sprühen – punktgenau Fluten



The perfect combination – Air Force & AF Clean!
With compressed air + cleaner, you can do without flammable propellants.

- **Unscrew the spray can – fill with cleaner – screw the cap back on – fill with compressed air – done!**
- **At the touch of a button**
- **Fine spray mist for large areas**
- **Flood and rinse with precision capillary tube**
- **Precise, accurate, overhead, ideal for blind holes**



- **AF Clean: label-free, low residue**
- **Spray on – leave to take effect – wipe away**
- **For all non-labelled products from Bio-Circle**

APPLICATION: Metalworking, plastics processing, crafts, rail transport maintenance; general use: replacement for brake cleaner, pre-treatment and final cleaning, cleaning large surfaces, components such as engine blocks with narrow gaps, overhead work and much more.
USE: A tyre inflator with adapter (for cars) is required to fill with compressed air. Recommended pressure: up to 6.3 bar





Clean oily and greasy components with BIO-CIRCLE

BIO-CIRCLE L Ultra

COST-EFFICIENT
- ▶ Circulation system
- ▶ Consistent cleaning qualitiy

ENVIRONMENTALLY FRIENDLY
- ▶ Reduced VOC
- ▶ Biodegradable

EMPLOYEE-FRIENDLY
- ▶ No labelling required
- ▶ Special sizes available
- ▶ Quick and easy

Application:
Clean contaminated, heavily oiled and greased parts with a brush, applying light pressure. The contaminants are dissolved quickly and easily and washed away by the flow of cleaner. The washing time is between 2 and 5 minutes. Many other components with contaminations such as grease, oil, resin and environmental pollutants can be cleaned easily in this way.

Your advantage:
Simple and quick cleaning of components with various contaminants such as oils, greases, soot and even rubber abrasion that can be removed from metals and plastics. Long service life due to microbiological oil degradation. Employee- and environmentally friendly cleaning system for which we offer a special Bio-Circle maintenance service.

Please note:
High-gloss aluminium surfaces should only be cleaned very gently or with our soft brush, then rinsed with demineralised water!

Cleaning oil-contaminated parts in the BIO-CIRCLE GT





Stainless Steel Attachment
G60030-18-i
Special features: includes two brush connections







Cleaning bearing and gear components – manually and automatically

CB 100

ENVIRONMENTALLY FRIENDLY
- ▶ VOC-free
- ▶ Long bath service life
- ▶ Based on renewable raw materials

EMPLOYEE-FRIENDLY
- ▶ No labelling required
- ▶ Pleasant odour

COST-EFFICIENT
- ▶ Recirculation system
- ▶ Cleaning at 55°C

Application:
Effectively clean contaminated components in the BIO-CIRCLE Turbo parts washer or in the hot-water parts washer and protect them from corrosion. The grease is liquefied by the cleaner and runs out of the roller bearing, even behind the cage. A liquid grease film forms on the cleaning bath in the cleaning system, which can be sucked off and disposed of.



ROSTFREI Edelstahl
Stainless steel



Cleaning of components with brake dust deposits and very heavy oil contamination

ALUSTAR 500

VOC free!



vorher

- ▶ **Biodegradable in accordance with EU Directive**
- ▶ **Not classified as hazardous**
- ▶ **Cleaning at low washing temperatures**
- ▶ **Water-miscible**
- ▶ **pH neutral**
- ▶ **Aluminium-compatible**



nachher



Application:
Place the components to be cleaned in the Bio-Circle Turbo to automatically start the first step of the cleaning process. Following the approx. 30–60-minute cleaning process, the deeper channels and blind holes are cleaned in the Bio-Circle Turbo with the spot jet nozzle. After this manual cleaning, the components are blown dry with compressed air in the device. This is followed by approx. 30 minutes of final cleaning in the ultrasonic cleaning bath. All cleaning steps are carried out with the same cleaner and in the same concentration. The components are then blown dry with compressed air.

Your advantage:
Less manual cleaning with brake cleaners, some of which are hazardous.
Energy cost savings through cleaning at 55 °C
Long service life of the cleaner thanks to our machine service.



"CLEANING? PLAY IT SAFE!"

Nature Boost – optimum performance, protection for employees and reduction of environmental impact. Successful cleaning in industry through the power of nature. Nature Boost cleaners are based on renewable raw materials. They impress with their excellent dissolving power, especially for stubborn grease, oil, adhesives and even paint. Nature Boost is so impressive because it stands for non-flammable, VOC-free and label-free products.

VOC-free, VOC-reduced
The European Solvent Regulation (1999/13/EC) aims to significantly reduce the use of solvents and emissions of volatile organic compounds into the environment, thereby protecting human health. When developing and manufacturing our products, we take care to develop and produce VOC-free or VOC-reduced products. With Bio-Circle's water-based products, solvents can be completely replaced in many applications.

Label-free
Through efficient systems and label-free products, we are able to optimise our customers' processes. Although cleaning is label-free, the cleaning quality is maintained. The very costly handling of hazardous substances is no longer necessary. There is no need for hazardous substance storage, hazardous substance training or the creation of operating instructions. The health of employees and the environment are protected. Even trainees are allowed to work with the products.

NSF – Cleaning in the food industry
The NSF-certified, water-based Bio-Circle cleaners are miscible with water and, due to their residue-free rinsability, are suitable for use in the food industry in accordance with § 31 LFGB (German Food and Feed Code).

Miscible with water
Many of our cleaners are concentrates. They are easily mixed with water and therefore very economical. Please observe the mixing ratio depending on the application and degree of soiling.

Clean Blue – For low-temperature cleaning only
Bio-Circle's low-temperature cleaners – Clean Blue – are designed for machine and manual use. They save energy and powerfully remove heavy soiling already at room temperature.

Ready to Use
These cleaners are ready to use. Depending on the cleaner, they can be used manually or in machines. The user is spared one step in the process, as there is no need to calculate the mixing ratio.



Nato numbers

BIO-CIRCLE GT Compact	4940226289211
BIO-CIRCLE GT Maxi	4940226289207
BIO-CIRCLE HP Vigo	4940226337973
CB 100 LR, 20 litres	6850226405755
FT 400, 20 litres	6850226405751
PROLAQ Compact	4940226316489
PROLAQ L 400	6850226316538

A STRONG GLOBAL PARTNER:

BIO-CIRCLE®

- CLEANING
- PROTECTING
- LUBRICATING
- WELDING

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bio-circle.com

Global presence

Our products are sold and used in 63 countries. With our own branches, production sites and distribution partners, we have a global network.

