

BIO-CIRCLE Parts Washer

**MAKING
GREEN
WORK.**



www.bio-circle.com

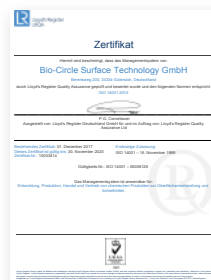


Bio-Circle Surface Technology GmbH, headquarters Gütersloh

A PIONEER IN ITS INDUSTRY: BIO-CIRCLE SURFACE TECHNOLOGY

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

- ▶ **essential:** product performance
- ▶ **elementary:** reduction of volatile organic compounds = solvents (VOC)
- ▶ **topical:** reduction of hazardous substances
- ▶ **central:** eco-compatibility
- ▶ **vital:** occupational health and safety
- ▶ **extensive:** certifications (NSF, Ö-Norm, Halal)



FUTURE IS NOW.

MAKING GREEN WORK.

These three words stand for the corporate vision of saving and protecting mankind and the environment by means of products that are manufactured in a responsible manner.

NATURAL – NATURE

- ▶ Efficient products with natural active ingredients: more than 80 % of all Bio-Circle cleaners are non-labelled, low-labelled, VOC-free or VOC-reduced (in accordance with the CLP Regulation)
- ▶ Use of surfactants of plant origin, with high and fast bio-degradability
- ▶ Use of 'White Biotechnology' (microorganisms) in the BIO-CIRCLE cleaning systems: the effective alternative to cold cleaners and solvents
- ▶ Carefully selected raw materials, plus reduced VOC content
- ▶ Bio-degradable and water-based products

NATURAL – PROTECTION

- ▶ Good skin compatibility (many products have been tested dermatologically), dispensing for the most part with preservatives, minimal or no use of perfumes
- ▶ Protection of resources by using recirculation systems
- ▶ Less waste by using Bio-Circle products in refillable spray bottles with triggers
- ▶ Boosting energy efficiency by means of low-temperature products

NATURAL – WITHOUT

- ▶ Without complexing agents such as EDTA or NTA
- ▶ Without substances from the current EChA Candidate List (REACH)





THE BIO-CIRCLE PRODUCTS

A matter that is near to our hearts

Conscientious handling of resources. Sustainability. Environmental awareness. Occupational health and safety.

That's what we stand for. That's what our Bio-Circle products stand for.

Parts washers and our automatic parts washing systems, all being filled with their own specifically developed BIO-CIRCLE Liquids – naturally label- and VOC-free.

MAKING GREEN WORK.

**BY REDUCING OR DISPENSING WITH SOLVENTS
WE ARE TAKING A STANCE. FOR THE ENVIRONMENT,
THE USER, THE ENTREPRENEUR. FOR YOU.**



Cleaning with the BIO-CIRCLE GT Maxi



The right solution to every cleaning requirement

In most industry sectors, cleaning activities have become indispensable. In fields such as maintenance, plastic injection moulding, foodstuffs, transportation, traffic, logistics, automotive, CNC, the trades, energy, agricultural engineering or forestry, contaminations are a highly topical subject wherever you look. As manufacturers, our working focus is on meeting the continuously increasing requirements and on finding the best cleaning solution for our customers. Our cleaning products help every industrial company save time and maintain a high quality, or simplify and cost-optimize the process within the value chain. More than 80 % of our cleaner portfolio require no labelling under the CLP Regulation. Cleaning performance is extremely high, and the cleaners are very versatile. They are advocates for topics such as occupational health and safety, user-friendly and environmentally compatible applications, and for HAZMAT reduction in the companies.

| | | |
|---|--|---|
|  <p>BIO-CIRCLE GT Systems for natural, biological parts cleaning</p> |  <p>BIO-CIRCLE GT Blue Systems for natural, biological parts cleaning</p> |  <p>CLEAN BOX The mobile solution in parts cleaning</p> |
|  <p>HP Vigo Manual high-pressure cleaning for every need</p> |  <p>BIO-CIRCLE HP The parts washer with the cleaning power of high-pressure cleaning</p> |  <p>BIO-CIRCLE Turbo 2 in 1 – automatic and manual cleaning</p> |



BIO-CIRCLE PARTS WASHING SYSTEMS

The parts cleaning pros

Natural, biological parts cleaning – The Bio-Circle parts washers are available in two versions, as BIO-CIRCLE GT Compact and BIO-CIRCLE GT Maxi. Thanks to their easy handling, to the fast, safe and eco-friendly cleaning also of extremely contaminated parts, and to the use of water-based cleaners with microorganisms these parts washers are parts washing pros. The stable devices are made of synthetic material (PE) and are recyclable, the VOC-free Liquids have long service lives, and maintenance is easy and simple, as the control box contains the entire technology (electrics, heating, float switch, and temperature sensor). **The BIO-CIRCLE systems operate without solvents, and they are an excellent alternative to conventional cold-cleaner parts washers. By using them you are making an active contribution to your employees' occupational health and safety and to environmental protection.**

BIO-CIRCLE GT Compact and BIO-CIRCLE GT Maxi

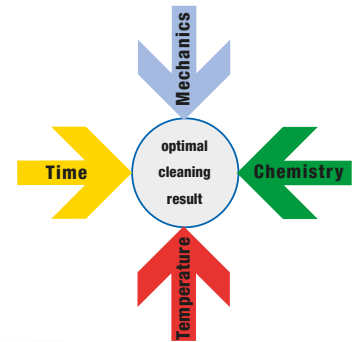
Difference between the two devices: size and payload

- ▶ Cleaning and degreasing of strongly contaminated parts
- ▶ Optimized depth of the basin ensures good splash protection
- ▶ Easy transport by means of a lift truck or a rail system with castors (optional)
- ▶ Easy handling of the liquid pump by means of a push-button switch
- ▶ The hinged upper section ensures easy servicing, maintenance and repair
- ▶ Control box with easier access to the components
- ▶ Filter system in the basin drain (coarse-, fine- and bag filter plus magnet)
- ▶ 8 years of BIO-CIRCLE Device Protection especially for parts washers with brushes
- ▶ Minimization of employee exposure and HAZMAT reduction
- ▶ Protection of man and environment



RECOMMENDED CLEANERS FOR BOTH DEVICES:

| | |
|-------------------------------|---|
| BIO-CIRCLE L | Cleaner with natural microorganisms. Optimally adjusted to most standard cleaning processes. Compatible with oil separators. |
| Liquid EVO | Low-foaming cleaner with microorganisms, for manual and automatic cleaning, ideal cleaning temperature: 45 °C |
| BIO-CIRCLE L Aluminium | Aluminium cleaner with natural microorganisms. For the gently cleaning of aluminium and non-ferrous metals. |
| BIO-CIRCLE L Ultra | Ultra-strong cleaner with natural microorganisms. Removes tenacious contaminations, such as bitumen, anti-rust waxes, burnt-in greases and oils, carbon deposits, and paint. |



BIO-CIRCLE Service

| | BIO-CIRCLE GT Compact | BIO-CIRCLE GT Maxi |
|--------------------------|---|---|
| Dimensions (H x W x D) | 1060 x 830 x 600 mm | (front) 1015/(back) 1110 x 980 x 705 mm |
| Work surface (W x D) | approx. 700 x 480 mm | approx. 810 x 520 mm |
| Payload | 100 kg | 250 kg |
| Working height | 970/800 mm | 1030/860 mm |
| Operating temperature | 15 – 45 °C, factory-set at approx. 41 °C | 15 – 45 °C, factory-set at approx. 41 °C |
| Heating | approx. 650 W | approx. 650 W |
| Pump | 40 W | 40 W |
| Optimum filling quantity | 90 litres | 100 litres |
| Material | LDPE | LDPE |
| Empty weight | approx. 45 kg | approx. 60 kg |
| Power supply | 230 V, 50 Hz | 230 V, 50 Hz |
| Order no. | 650030 | 660030 |

BIO-CIRCLE BLUE – THE COOL ONES

Parts cleaning at ambient temperature

Resource-efficient and sustainable cleaning at ambient temperature. The BIO-CIRCLE Blue parts washers facilitate maximum cleaning performance with low energy consumption. The parts washers and the BIO-CIRCLE L Blue and CB 100 Blue cleaners form a perfect symbiosis in parts cleaning. **100 % performance at ambient temperature already – and all that without any solvents, benzines or cold cleaners.** As cleaning occurs at ambient temperature, electricity is only needed for the pump. The employee and the environment are protected from highly volatile vapours. Oil biodegradation guarantees a long service life. No HAZMAT, no hazardous goods, no fire hazard.



Clean Blue by Bio-Circle

Clean Blue stands for:

- ▶ Cleaning without solvents, benzines, cold cleaners, etc.
- ▶ Cost savings
- ▶ Environmentally compatible cleaning, a minimum of waste
- ▶ High energy efficiency
- ▶ Maximum cleaning performance

| | BIO-CIRCLE GT Compact Blue | BIO-CIRCLE GT Maxi Blue |
|--------------------------|-------------------------------|----------------------------|
| Work surface (W x D) | 700 x 480 mm | 810 x 520 mm |
| Payload | 100 kg | 250 kg |
| Working height | 970/800 mm | 1030/860 mm |
| Pump | 40 W | 40 W |
| Optimum filling quantity | 90 litres | 100 litres |
| Material | LDPE | LDPE |
| Empty weight | approx. 45 kg | approx. 55 kg |
| Power supply | 230 V, 50 Hz | 230 V, 50 Hz |
| Order no. | G50040 | G60040 |





BIO-CIRCLE GT Maxi Blue and BIO-CIRCLE GT Compact Blue

- ▶ Water-based cleaning with natural microorganisms
- ▶ Working at ambient temperature
- ▶ Easy maintenance and servicing
- ▶ Filter system in the basin drain (coarse-, fine- and bag filter plus magnet)
- ▶ Long service life, not much waste – safety and quality in cleaning

RECOMMENDED CLEANERS FOR BOTH DEVICES:

| | |
|--------------------------|---|
| BIO-CIRCLE L Blue | The optimal cleaner and degreaser with natural microorganisms specifically designed for use in the BIO-CIRCLE GT Blue. |
| CB 100 Blue | Nature Boost cleaner for removing persistent contaminations specifically designed for use in the BIO-CIRCLE GT Blue. FIELD OF USE: Suited for use in maintenance, production, parts cleaning, service, and all sectors of the industry. |

STAINLESS-STEEL TOP PIECE FOR BIO-CIRCLE GT MAXI

The stainless-steel top piece for the **BIO-CIRCLE GT Maxi** with its large work surface and high payload (up to **1000 kg**) offers exceptional working comfort. It is ideally suited for the cleaning of big and heavy parts, and its particularly large work surface (1500 x 950 mm) can be used by two operators at the same time. The stainless-steel top pieces feature a conical drain with a sieve filter and a bag filter (25 µm); PE grids for surface protection are available as an optional extra.



| | | |
|---------------------|---|---------------------------------------|
| G60030-18-01 | BIO-CIRCLE GT Maxi with stainless-steel top piece | payload 250 kg, 1500 x 950 x 300 mm |
| G60030-17-01 | BIO-CIRCLE GT Maxi with stainless-steel top piece with base frame | payload 500 kg, 1504 x 1004 x 300 mm |
| G60030-19-01 | BIO-CIRCLE GT Maxi with stainless-steel top piece with base frame | payload 1000 kg, 1504 x 1004 x 300 mm |

GREEN AND SWIFT

BIO-CIRCLE equipment and accessories

We provide you with the right original accessories for every BIO-CIRCLE device. From lid to protective bottom, from Mobility Kit to angled brush: the perfect all-round package for your BIO-CIRCLE.



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



Lid

Protects from contamination and reduces evaporation of cleaning fluid.

G50327 for BIO-CIRCLE GT Compact

G60330 for BIO-CIRCLE GT Maxi



Protective bottom

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 Compact

G60230 for BIO-CIRCLE GT Maxi

Protective bottom made of plastic, black

G50330 for BIO-CIRCLE GT Compact

G60230-01 for BIO-CIRCLE GT Maxi



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.



Aerator

G484340 3D Air-Booster incl. hose

G484340-01 3D Air-Booster



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



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 activity. 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, hence 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/105.8 °F.

BIO-CIRCLE L



- ▶ Universally applicable, 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 |

BIO-CIRCLE L Heavy Duty



- ▶ Ideal cleaning temperature: 45 °C/113 °F, i.e. increased cleaning activity

| | |
|--------|---------------|
| A02098 | 20 L jerrycan |
| A20098 | 200 L drum |
| A10098 | 1000 L IBC |

BIO-CIRCLE L Aluminium



- ▶ Especially for the cleaning of sensitive materials, such as aluminium, non-ferrous metals, and zinc-coated surfaces
- ▶ Special aluminium formula for heat-tinting protection

| | |
|--------|---------------|
| A02099 | 20 L jerrycan |
| A20099 | 200 L drum |
| A10099 | 1000 L IBC |

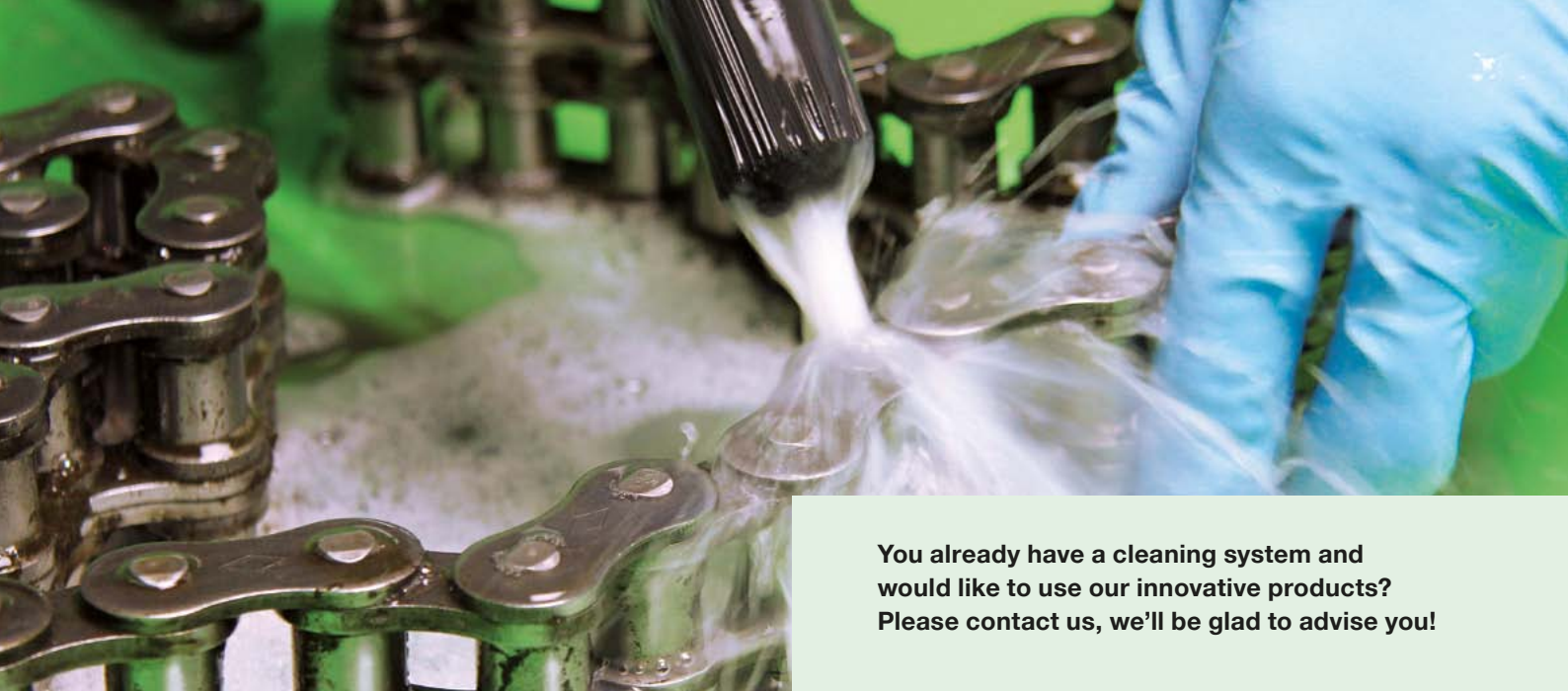
BIO-CIRCLE L Turbo



- ▶ Low-foaming machine cleaner for automatic parts washers (BIO-CIRCLE Turbo, HTW, BIO-CIRCLE HP and HP Vigo)
- ▶ Ideal cleaning temperature: 50 °C/122 °F

| | |
|--------|---------------|
| A02082 | 20 L jerrycan |
| A20082 | 200 L drum |
| A10082 | 1000 L IBC |

* The microorganisms used are non-pathogenic bacteria belonging to risk group 1 (classified in accordance with the Ordinance on Biological Substances BioStoffV 2000/54/EC, TRBA 466). Risk group 1 = No risk for human beings and vertebrate animals, according to the current state of the art.



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

Liquid EVO

NEW!



VOC free!

A02093 20 L jerrycan

A20093 200 L drum

A10093 1000 L IBC

- ▶ For medium to heavy contaminations
- ▶ Environmentally friendly and safe
- ▶ For manual and mechanical use:
 - in BIO-CIRCLE parts washers with brush, parts washing machines and high-pressure parts washers
- ▶ Cleans virtually all materials:
 - aluminium, zinc-plated surfaces and non-ferrous metals as well as steel/stainless steel and plastics (such as PE)

BIO-CIRCLE L Star



VOC free!

A02075 20 L jerrycan

A20075 200 L drum

A10075 1000 L IBC

- ▶ Removes extremely persistent incrustations and carbonizations
- ▶ Low-foaming machine cleaner for automatic parts washers (BIO-CIRCLE Turbo, HTW, BIO-CIRCLE HP and HP Vigo)
- ▶ Ideal cleaning temperature: 50°C/122°F

BIO-CIRCLE L Blue



VOC free!

A02090 20 L jerrycan

A20090 200 L drum

A10090 1000 L IBC

- ▶ For cleaning at ambient temperature

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. In certain cases, 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. In certain cases, also: aluminium, non-ferrous metals.

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

Across all industries: automotive, foodstuffs, metal processing/CNC, railways, the trades.

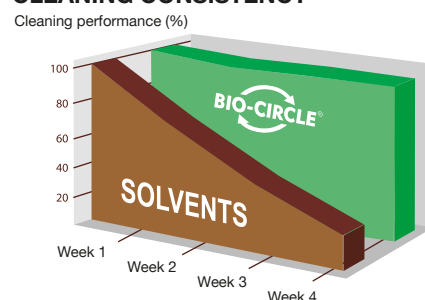
SERVICE AND CLEANING

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

CLEANING CONSISTENCY



TEST THE BIO-CIRCLE

We'll get the BIO-CIRCLE parts washer rolling – right up to your doorstep.

See it for yourself on site and satisfy yourself of the functionality and the excellent cleaning performance in combination with the best possible protection for the user and the environment.

Check whether the BIO-CIRCLE could be something for your company.

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.



BIO-CIRCLE TURBO

2 in 1 – automatic and manual cleaning

The perfect combination of the precision of manual cleaning and the efficiency of the automatic cleaning system. In the manual mode, the flow-through brush can be used for the cleaning of nooks and crannies that are difficult to reach. In the automatic mode the system cleans fully automatically.

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

Across all industries:

automotive, metal processing/CNC, etc.

RECOMMENDED CLEANERS

| | |
|--------------------------|--|
| Liquid EVO | Low-foaming cleaner with microorganisms, for manual and automatic cleaning, ideal cleaning temperature: 45 °C |
| BIO-CIRCLE L Star | Low-foaming machine cleaner for automatic parts washers, removes extremely persistent incrustations and carbonizations Ideal cleaning temperature: 50 °C/122 °F |

BIO-CIRCLE Turbo 800, 1000, 1200, 1500

- ▶ Solid stainless-steel design with a high payload
- ▶ Heatable, factory-set to an optimal 50 °C/122 °F
- ▶ Sturdy stainless-steel rack with mechanical spinning, touch button to spin the rack in idle mode for easy loading and unloading
- ▶ High spray pressure
- ▶ Precise manual cleaning by means of a flow-through brush or a nozzle
- ▶ A safety switch prevents the pump motor from running with the lid open – safe handling guaranteed
- ▶ Lid with inspection window and gauntlet gloves, interior lighting
- ▶ Ergonomic hand spray gun with quick-release fastener for cleaning brush and variable cleaning nozzle (generates a point jet or a fan-shaped jet); fast drying possible by means of a pneumatic spray gun
- ▶ Tank with slightly tilted bottom for faster emptying, tank cover with filter elements beneath the rack, dry running protection



| | BC Turbo 800 | BC Turbo 1000 | BC Turbo 1200 | BC Turbo 1500 |
|---|----------------------|----------------------|----------------------|----------------------|
| Overall width x overall depth (mm) | 1170 x 1075 | 1320 x 1240 | 1563 x 1510 | 1965 x 1885 |
| Height with lid closed/open with angled exhaust duct (mm) | 1585/2035 | 1580/2200 | 1734/2380 | 1730/2780 |
| Inner diameter of rack, approx. (mm) | 775 | 975 | 1175 | 1495 |
| Useful height max. (mm) | 400 | 450 | 620 | 650 |
| Payload max. (kg) | 350 | 350 | 350 | 350 |
| Cleaning liquid tank – capacity (L) | 160 | 275 | 380 | 570 |
| Total weight of the cleaning device (kg) excl. tank filling, payload and supplementary equipment (kg) | 350 | 370 | 420 | 590 |
| Connected value total (kW) excl. supplementary equipment approx. (kW) | 7,5 | 9 | 9 | 21 |
| Power supply – 3-phase current (V)/ frequency (Hz) | 400/50 | 400/50 | 400/50 | 400/50 |
| Compressed-air hose Ø 10 mm (bar) | max. 6 | max. 6 | max. 6 | max. 4 |
| Pump – automatic cleaning: flow rate (m³/h / delivery head m H ₂ O) | 12.0/38 | 12.0/38 | 12.0/38 | 14.4/45 |
| Pump – manual cleaning: flow rate (m³/h / delivery head m H ₂ O) | 4.8/27 | 4.8/27 | 4.8/27 | 4.8/27 |
| Electric heating in the washing tank (kW) | 4.5 | 6 | 6 | 9 |
| Treatment temperature (guide value) (°C/°F) | 50+/-2 / 122 +/- 3,6 | 50+/-2 / 122 +/- 3,6 | 50+/-2 / 122 +/- 3,6 | 50+/-2 / 122 +/- 3,6 |
| Order no. | G40027 | G42027 | G43027 | G45027 |

BIO-CIRCLE HP AND BIO-CIRCLE 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 / 113 °F
- ▶ 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 HP |
|--|--------------------|
| Overall width x overall depth | 1150 x 1229 mm |
| Height with loading hatch closed/open | 1800/2430 mm |
| Feeding height top edge washing chamber | 1083 – 1228 mm |
| Overall width of available surface W x D x H | 860 x 580 x 480 mm |
| Maximum payload | 350 kg |
| Cleaning liquid tank – capacity | 100 L |
| Total weight of the cleaning device (kg) excl. tank filling, payload and supplementary equipment | 190 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 | max. 6 bar |
| Spray pressure adjustable approx. | 10 – 80 bar |
| High-pressure pump | 1.6 kW |
| Electric heating in the washing tank | 0.65 kW |
| Treatment temperature (guide value) | 45 °C / 113 °F |
| Order no. | G30028 |





| RECOMMENDED CLEANERS FOR BOTH DEVICES: | |
|--|---|
| Liquid EVO | Low-foaming cleaner with microorganisms, for manual and automatic cleaning, ideal cleaning temperature: 45 °C |
| CB 100 | Suitable for the food industry |

HP Vigo

- ▶ Manual cleaning with lid closed
- ▶ Cleaning temperature adjustable up to 45 °C
- ▶ Operating pressure adjustable up to 80 bar, optimum handling via a high-pressure nozzle
- ▶ Compressed-air pistol for drying the parts
- ▶ Payload up to 150 kg
- ▶ Integrated oxygen supply
- ▶ Significantly longer bath service life due to microorganisms
- ▶ Switching off at low level via a float switch (protection of the heating element and pump)
- ▶ Optimal low-foaming cleaners and degreasers:
- ▶ BIO-CIRCLE L Star, Liquid EVO and CB 100
- ▶ VOC- and label-free
- ▶ Increase of occupational safety, reduction of operating costs



| | HP Vigo |
|---|-----------------------------|
| Overall width | 1443 mm |
| Height with the device lid closed/open | 1574 mm/1927 mm |
| Feeding height (top edge washing chamber) max./min. | 954 mm/1031 mm |
| Overall width of available surface W x D x H | 1157 x 768 x 520 mm |
| 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) | 195 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) | 0 – 80 bar |
| Operating temperature (factory-set) | 0 – 45 °C |
| Noise level | < 70 dB |
| Compressed air supply | Max. 6 bar |
| Maximum air consumption in pane cleaning | 0,06 m ³ /h |
| Order no. | G30027 |



CLEAN BOX

Efficient pre-cleaning

The different variants of the CLEAN BOX are effectively suited for the pre-cleaning of small and large parts, as well as extremely large and bulky workpieces. This makes them suitable for use in many factory and production areas, such as maintenance, machine construction or industrial engineering. The CLEAN BOXes are characterised by their easy handling and the use of low-temperature cleaners.

The use of CLEAN BOX systems protects the environment and the health of employees. For example, each CLEAN BOX Max (1 and 2) and CLEAN BOX Flex contains a circulation system that facilitates a long service life of the cleaner. The cleaning fluid is conveyed through the brush by a feed pump and then flows back into the tank.

Suited for use with water-based acidic and alkaline cleaners:

With the portable CLEAN BOX, the parts can be lifted out with the help of the immersion basket, the fluid remains in the Box.

CLEAN BOX

- ▶ Stackable and space-saving
- ▶ Suitable for transport due to handles
- ▶ Optional: immersion basket
- ▶ Optional: lid (protection against odour or evaporation)

CLEAN BOX Mobil

- ▶ Extended by a trolley
- ▶ Can be rolled to the place of work



| | | CLEAN BOX | CLEAN BOX Mobil |
|-------------------------|-------------------------------|---|---|
| Immersion box | External dimensions W x D x H | 600 x 400 x 300 mm | 600 x 400 x 300 |
| | Material | bottom and sides closed with HDPE handle openings, green | bottom and sides closed with HDPE handle openings, green |
| | Filling quantity | approx. 50 L | approx. 50 L |
| Immersion basket | External dimensions W x D x H | 600 x 400 x 300 mm | 600 x 400 x 300 mm |
| | Material | bottom and sides perforated with HDPE handle openings, green | bottom and sides perforated with HDPE handle openings, green |
| | | | |
| Lid | External dimensions W x D x H | 600 x 400 mm | 600 x 400 mm |
| | Material | made of HDPE, green | made of HDPE, green |
| Trolley | External dimensions W x D x H | - | 620 x 420 x 155 mm |
| | Material | - | ABS frame (black) with A castors (white), ø 100 mm with locking brake |
| | Maximum payload (kg) | - | 250 kg |
| Order no. | | H00040 | H00042 |



A shelved trolley is available as an alternative to the trolley.





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

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

CLEAN BOX Max

- ▶ Big, bulky or complex parts can be positioned on the working platform and cleaned manually by means of the integrated flow nozzle with washing brush
- ▶ Cleaning platform available in two sizes (Max 1 and Max 2)
- ▶ With feed pump for cleaning agent
- ▶ Electro-pneumatic ON/OFF foot switch incl. control lamp

A flexible and modular system

CLEAN BOX Flex

- ▶ Suited for big work pieces, with grid on the working platform
- ▶ Can be ordered in prefab sizes (1.2-m steps), with a feed pump for the cleaner
- ▶ With integrated drip tray in compliance with WHG (Water Resources Act) with leakage control, tank with lid
- ▶ Integrated flow nozzle with washing brush

| | CLEAN BOX Max 1 | CLEAN BOX Max 2 | CLEAN BOX Flex |
|-----------------------------------|---------------------|---------------------|---|
| Overall dimensions L x W 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 |
| Useful work surface L x W (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, hart
green
- G15001-03** Flow hand brush, soft
green
- G15001-04** Flow hand brush, hart
blue
- G15001-05** Curved flow brush, soft
green/red
- G15001-06** Curved flow brush, hart
black

The devices need an appropriate connector.
The brushes have 1/2" internal threads.

A STRONG GLOBAL PARTNER:



Present around the globe

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

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Our products are sold and used in 63 countries.

We have a global network of own subsidiaries, production sites, and trade partners.

