

BIO-CIRCLE

The parts cleaner with a new dimension

Highlights

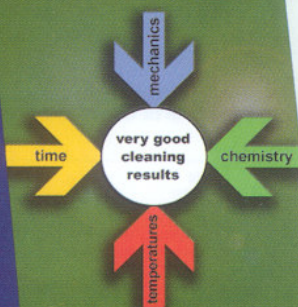
Biological parts cleaning based on an aqueous system containing natural bio cultures. Oil and grease are immediately and biologically changed by micro-organisms. So the cleaning agent kept clean on a continuous basis which considerably prolongs the life-span of the cleaning liquid.



Technical data:

Working height	950 mm
Sink dimension	L 930 x W 545 x H 250 mm
Maximum load capacity	250 kg
Temperature	41°C
Heater	1000 Watts (heating up) average: 400 Watts
Pump	40 Watts
Operating fluid capacity	100 Liter
Material	PE LD
Weight (empty)	55 kg
Electrical configuration	230 V, 50 Hz

Awarded with:



- Without solvents and without cold cleaners
- Water based cleaning agent – non combustible
- No special regulations regarding storage, handling, and transportation
- pH-neutral – low risk of irritating the user's skin
- Free of volatile organic compounds (VOC) – not subject to the European Directive 1999/13/EC on the limitation of VOC
- Economic – Very good cleaning results due to the optimal combination of mechanics, temperatures, chemistry and nature
- Large wash-basin (945 * 545 mm) and a high carrying force (up to 250 kg)

Bio-Circle L

- Excellent cleaning action
- Fresh scent
- User friendly
- Virtual residue-free
- Containing corrosion-inhibitors
- Optimised bioremediation process*



Bio-Circle

G40026.03 Bio-Circle

Bio-Circle L



A02026 Bio-Circle L container 20 l



A20026 Bio-Circle L drum 200 l

Simply natural ...

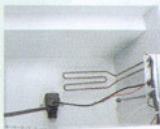
Bio-Circle makes use of natural power for a user- and environmentally-friendly as well as economical cleaning of small parts. Working oils, cutter coolants, corrosion protection products, weak grease and other particles are removed by the cleaning agent Bio-Circle L. The easy to clean filter system separates coarser and finer waste particles, oil and grease are immediately and biologically changed by the micro-organisms. Bio-Circle's bioremediation process not only breaks down the contaminants but also maintains the power and cleanliness of the solution.

Technique

The stable and robust tank is made from plastic and does not corrode. The heating system installed in the Bio-Circle keeps the cleaning agent at its ideal working temperature of 41°C. The air-pump ensures a steady supply of oxygen essential to the micro-organisms. In addition Bio-Circle L contains a selected combination of nutrients, which guarantee working of the microorganisms through the whole service life. A plastic foil keyboard offers the operator an optimal comfort and indicates the status of the process by pictograms. For maintenance purposes the table is hinged for easy access.

Economic efficiency

Our Bio-Circle compared to solvent systems has up to four times longer service life. Even if the soiling is increasing you will still have a constant cleaning result. Bio-Circle means no danger for humans and environment with high effectiveness and economics at the same time.



Comparison between conventional Parts Cleaner with Cold Cleaner and Bio-Circle Parts Cleaner

	Cold Cleaner	Bio-Circle Bio-Circle L
What is the effect of increased contamination?	saturation of the cleaning liquid – cleaning effect falls off	good stable results the whole time 😊
What contaminations can be removed? Organique, apolar (grease, oil) Inorganique, polar (salts) Inorganique, apolar (iron fillings, dust)	Very good results Poor results Poor results	Very good results 😊 Very good results Good results
What materials can be cleaned with? Stainless steel Steel Aluminium Non-ferrous heavy metals	Very good results Very good results Very good results Very good results	Very good results 😊 Very good results Very good results Very good results
Safety and health provisions for workers	☠️ ☹️ ☹️	☹️

	Cold Cleaner	Bio-Circle Bio-Circle L
Health damage <small>(Source: Reinigen und Entfetten, BG Maschinenbau- und Metall-BG 1997)</small>		
Damage to the nervous system	Toluene, xylenes, trichlorethylene, benzenes (hexane isomers, pentane, heptane, octane)	no 😊
Damage to the skin	Yes	no 😊
Damage to the liver	Dichlormethane, Trichlorethylene, Toluene, xylenes, methanol, ethanol	no 😊
Damage to the kidneys	Trichlorethylene, Kerosene, Petrol/gasoline, Hexane, heptane, toluene, xylene, alcohols	no 😊
Damage to the blood cells	Toluene, benzene	no 😊
Mutagens and teratogenes	Organic solvents	no 😊
Cancerogen	Benzene	no 😊

*The used micro-organism are non-pathogen bacteria of group 1 acc. to Directive 2000/54/EC. (Group 1 means that it is unlikely to cause human disease).

