

 **BUPI CLEANER**  
INDUSTRIAL CLEANING TECHNOLOGY



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„OUR CUSTOMERS  
RECEIVE HIGH-QUALITY  
PRODUCTION FROM  
USING DURABLE AND  
RELIABLE TECHNOLOGY“

## FOREWORD

### **BUPI Golser Maschinenbau GmbH at the forefront of industrial parts and container cleaning**

BUPI CLEANER® cleaning systems started their story of success back in the 1950s, when **Buchegger Pius** laid the company's corner stone. Continuous further development has left us a national and international market leader with more than 14,500 cleaning systems installed. A great number of customers rely on us.

With excellent services and customised solutions, we offer true added value in industrial parts cleaning. Our cleaning systems stand out with their high levels of vertical integration, robust materials, and durability. Some of our systems have been in operation for more than half a century. We believe that this clearly proves that our forward- looking approach to technology is the way to go.

We are proud to continue the story of success for our innovative, Austrian family-owned business now and in future!



A stylized, handwritten signature in black ink, appearing to read 'M. Golser'.

**Markus Golser**  
Owner and managing director

# CORPORATE- PHILOSOPHY

Keeping what is tried and tested while promoting innovation

## REGIONALLY BASED

We are an innovative family-owned business characterised by our own high quality standards that have always inspired us to greatest performance. We have always remained down to earth in spite of this: Our closely interlinked team is practising the company's philosophy every single day in a production site surrounded by nature, against an amazing mountain backdrop.

## INNOVATIVE AND FLEXIBLE

Focusing on highly qualified and long-term employees makes us very flexible. This means that we not only do our day-to-day business, we also pursue innovative developments and keep improving our products ever further. Our dynamic team can respond quickly to changing market requirements.

## ALIGNED WITH THE FUTURE

Flexibility covers both adaptation to current requirements and consideration of future developments. Thus, we focus on design for longevity and energy efficiency from the very beginning, ensuring sustainable results. Protection of natural resources is a central aspect of our corporate philosophy.



# FIT FOR THE FUTURE

1954

## FOUNDING OF THE COMPANY

“Buchegger Pius Maschinenfabriksges.m.b.H.” and the start of cleaning-machine construction. The one-man business quickly developed into an increasingly future-oriented company.

1993

## BUSINESS TAKEOVER

and continuation of the production of BUPI CLEANER® cleaning systems by BUPI Golser Maschinenbau GmbH.

2015

## MODERNISATION

of the Hallein site and construction of a test centre for cleaning trials.

2024

## 70TH ANNIVERSARY

and 14,500 cleaning systems delivered, we celebrate with pride and look forward to many more successful years!



„WATER  
IS OUR MOST  
VALUABLE  
RESOURCE“

#### POSITIVE ENVIRONMENTAL FOOTPRINT IN EVERY SYSTEM

We at BUPI Golser, do our best to protect our planet's valuable resources. Electricity from our photovoltaic system is used to produce long-lived systems subject to comparatively low water and energy consumption.

Our systems' high quality standards ensure many years of use, reducing both environmental impact and disposal costs. State-of-the-art cleaning processes keep water consumption low at best results, contributing to preserving valuable bodies of water. The drives we use are from the highest energy efficiency classes. They ensure best energy utilisation and help us reduce our ecological footprint.

We love making a sustainable difference with every single system.

# “OUR PERFORMANCE IS YOUR SUCCESS”

## THE CLEANING PROCESS – BASIC CONCEPT

The cleaning process for the standard series is based on spray cleaning with Aqueous solutions. All systems contain the same high-quality basic components. They employ a tried and tested basic concept of the rotating the goods to be cleaned under and fixed nozzle pipe system for excellent cleaning results.

The POWERTEC series cleaning systems offer different numbers of cleaning cycles related to cleanliness requirements of different parts to be cleaned.

## ALL-ROUND SERVICE – HIGHLY EFFICIENT AND SOLUTION-ORIENTED

We pursue a consistent approach in procurement: The best possible system option is determined by comprehensive analysis and advice to our customers. We also offer trials in our in-house test centre to convince yourself of the cleaning results and quality of our products in advance.

After completion we offer factory acceptance tests and initial training. Our trained and experienced staff will take care of subsequent commissioning, training of the operating personnel, and ongoing support and maintenance of the systems.

### FACTS

- Comprehensive analysis and advice
- Cleaning cycle in the test centre
- Training and commissioning
- Short-term support and spare parts availability
- 10-year availability guarantee for spare parts



## OUR OFFERING AS A MANUFACTURER

- Many years of expertise from more than seven decades in operation
- Full vertical integration at the Hallein site
- Customised system technology – configurable in a modular system
- Purchased parts of the highest quality from renowned suppliers
- Ongoing production development in the scope of circular economy
- Certification in accordance with ISO 9001

## PRODUCT ADVANTAGES

- Environmentally friendly due to CO2 savings
- Sustainable investment thanks to long-term product function
- Robust and space-saving design
- Low operating costs
- Avoiding peak currents from heating loads
- Safety Integrated control system
- Industry 4.0 compatible
- Remote support service



# BUPI CLEANER® POWERTEC SERIES

The BUPI CLEANER® POWERTEC series is an all-round talent with a particularly wide area of use. They consist of the BASIC, PRO and PREMIUM models. The respective standard systems usually are available in four different sizes.

## EQUIPMENT

The units can be fed with a feeder cart or fully integrated as part of a process chain. The parts are then pushed into the cleaning system via a trolley. Selection and combination of suitable standard options permits ideal customisation of the cleaning process for your cleaning requirements.

## CLEANING PROCESS

The cleaning process has the parts rotating in the system while being treated with hot cleaning medium from three sides subject to high pressure and high volume flow.



## OVERVIEW OF OUR POWERTEC SERIES

- 1-, 2-, or 3-tank cleaning system
- All media-contacting parts made of stainless steel
- User-friendly operation
- Safety Integrated Siemens control system
- Highly efficient Grundfos pumps
- Industry 4.0 compatible
- Avoiding peak currents from heating loads
- Opening with lifting door, hinged door, or horizontal sliding door
- Low procurement and operating costs by batch operation in the closed workspace



# BUPI CLEANER® POWERTEC BASIC

## SINGLE TANK SYSTEM WITH LIFTING OR HINGED DOOR

The BUPI CLEANER® POWERTEC BASIC is the basic model for simple cleaning tasks. It typically finds use in interim cleaning or maintenance.



Read more at [www.bupicleaner.com/en/](http://www.bupicleaner.com/en/)



### TECHNICAL DATA

#### STANDARD SIZES WITHOUT ADDITIONAL EQUIPMENT

OVERALL DIMENSIONS APPROX.	SIZE 3	SIZE 4	SIZE 5	SIZE 7
Width	1,730 mm	2,000 mm	2,350 mm	2,900 mm
Depth	1,345 mm	1,600 mm	1,930 mm	2,470 mm
Total depth with open hinged door	2,210 mm	2,530 mm	3,120 mm	3,935 mm
Total height	1,990 mm	1,990 mm	2,140 mm	2,250 mm
Total height with open lifting door	2,550 mm	2,550 mm	2,900 mm	3,200 mm
Transfer height (upper edge grating)	780 mm	780 mm	780 mm	815 mm
Useful height (from upper edge grating)	700 mm	700 mm	900 mm	1,000 mm
Grating square with chamfered outer corners	900 mm	1,060 mm	1,400 mm	1,700 mm
Load weight (payload)	700 kg	900 kg	1,200 kg	1,500 kg
Total weight of the system	770 kg	900 kg	1,100 kg	1,500 kg
<b>POWER SUPPLY</b>				
Electrical connection	13 kW	19 kW	23.5 kW	39 kW
Max. current consumption	22 A	31 A	38 A	62 A
<b>TECHNICAL PUMP DATA - CLEANING</b>				
Recirculation capacity	15.8 m³/h	15.8 m³/h	21 m³/h	29.2 m³/h
Pump head	470 kPa	470 kPa	507 kPa	585 kPa
Pump motor	4 kW	4 kW	5.5 kW	5.5 kW
<b>ELECTRICAL HEATING - CLEANING</b>				
Tank content	250 l	340 l	500 l	720 l
Electrical heating power	9.0 kW	15.0 kW	18.0 kW	31.5 kW

#### EQUIPMENT FEATURES:

- Media-contacting parts made of stainless steel
- Highly efficient Grundfos pump
- Siemens S7-1200F safety control unit with 4-inch touch display
- Screwed flat-jet nozzles
- Back flow filtration

#### RECOMMENDED ACCESSORIES:

- Vapour extraction unit
- Level control
- Three-phase oil separator
- Dosing unit
- Microfilter
- Hot-air dryer
- Feeder cart
- Inspection window, lighting
- 7-inch touch display



# BUPI CLEANER® POWERTEC PRO

## TWO-TANK SYSTEM WITH LIFTING OR HINGED DOOR

The BUPI CLEANER® POWERTEC PRO with two tanks is the standard solution for general mechanical engineering with a cleaning and a rinsing run.



Read more at [www.bupicleaner.com/en/](http://www.bupicleaner.com/en/)



### TECHNICAL DATA

STANDARD SIZES WITHOUT ADDITIONAL EQUIPMENT

OVERALL DIMENSIONS APPROX.	SIZE 3	SIZE 4	SIZE 5	SIZE 7
Width	1,930 mm	2,200 mm	2,550 mm	3,100 mm
Depth	1,345 mm	1,600 mm	1,930 mm	2,470 mm
Total depth with open hinged door	2,210 mm	2,530 mm	3,120 mm	3,935 mm
Total height	2,075 mm	2,075 mm	2,235 mm	2,410 mm
Total height with open lifting door	2,685 mm	2,685 mm	3,100 mm	3,360 mm
Transfer height (upper edge grating)	865 mm	875 mm	875 mm	925 mm
Useful height (from upper edge grating)	700 mm	700 mm	900 mm	1,000 mm
Grating square with chamfered outer corners	900 mm	1,060 mm	1,400 mm	1,700 mm
Load weight (payload)	700 kg	900 kg	1,200 kg	1,500 kg
Total weight of the system	900 kg	1,100 kg	1,700 kg	2,000 kg
<b>POWER SUPPLY</b>				
Electrical connection	22 kW	34 kW	41.5 kW	70.5 kW
Max. current consumption	35 A	52 A	65 A	108 A
<b>TECHNICAL PUMP DATA – CLEANING/RINSING</b>				
Recirculation capacities	15.8/11.2 m³/h	15.8/11.2 m³/h	21/14.7 m³/h	29.2/18.5 m³/h
Pump heads	470/430 kPa	470/430 kPa	507/485 kPa	585/430 kPa
Pump motors	4.0/2.2 kW	4.0/2.2 kW	5.5/4.0 kW	7.5/4.0 kW
<b>ELECTRICAL HEATING – CLEANING/RINSING</b>				
Tank volumes	250/250 l	340/340 l	500/500 l	800/800 l
Electrical heating power values	9.0/9.0 kW	15.0/15.0 kW	18.0/18.0 kW	31.5/31.5 kW

#### EQUIPMENT FEATURES:

- Media-contacting parts made of stainless steel
- Highly efficient Grundfos pumps
- Siemens S7-1200F safety control unit with 4-inch touch display
- Screwed flat-jet nozzles
- Back flow filtration

#### RECOMMENDED ACCESSORIES:

- Vapour extraction unit
- Level control
- Three-phase oil separator
- Dosing unit
- Microfilter
- Hot-air dryer
- Feeder cart
- Inspection window, lighting
- Cascade control
- 7-inch touch display

# BUPI CLEANER® POWERTEC PREMIUM

## THREE-TANK SYSTEM WITH LIFTING OR HINGED DOOR

BUPI CLEANER® POWERTEC PREMIUM is a three-tank cleaning system that ensures that highest cleanliness requirements and complex cleaning processes can be met.



Read more at [www.bupicleaner.com/en/](http://www.bupicleaner.com/en/)



### TECHNICAL DATA

#### STANDARD SIZES WITHOUT ADDITIONAL EQUIPMENT

OVERALL DIMENSIONS APPROX.	SIZE 3	SIZE 4	SIZE 5	SIZE 7
Width	1,930 mm	2,200 mm	2,550 mm	3,100 mm
Depth	1,770 mm	2,010 mm	2,475 mm	3,145 mm
Total depth with open hinged door	2,635 mm	2,930 mm	3,665 mm	4,610 mm
Total height	2,075 mm	2,075 mm	2,235 mm	2,410 mm
Total height with open lifting door	2,685 mm	2,685 mm	3,100 mm	3,360 mm
Transfer height (upper edge grating)	865 mm	875 mm	875 mm	925 mm
Useful height (from upper edge grating)	700 mm	700 mm	900 mm	1,000 mm
Grating square with chamfered outer corners	900 mm	1,060 mm	1,400 mm	1,700 mm
Load weight (payload)	700 kg	900 kg	1,200 kg	1,500 kg
Total weight of the system	1,200 kg	1,400 kg	2,100 kg	2,500 kg
<b>POWER SUPPLY</b>				
Control voltage	24 VDC	24 VDC	24 VDC	24 VDC
Electrical connection	28 kW	43 kW	12 kW	85.5 kW
Max. current consumption	44 A	66 A	83 A	130 A
<b>TECHNICAL PUMP DATA – CLEANING/RINSING/FINAL RINSE</b>				
Recirculation capacities	15.8/11.2/2.31 m³/h	15.8/11.2/2.31 m³/h	21/14.7/3.56 m³/h	29.2/18.5/4.07 m³/h
Pump heads	470/430/272 kPa	470/430/272 kPa	507/485/291 kPa	585/430/279 kPa
Pump motors	4.0/2.2/0.37 kW	4.0/2.2/0.37 kW	5.5/4.0/0.75 kW	7.5/4.0/0.75 kW
<b>ELECTRICAL HEATING – CLEANING/RINSING/FINAL RINSE</b>				
Tank volumes	250/250/180 l	340/340/220 l	500/500/340 l	800/800/400 l
Electrical heating power values	9.0/9.0/6.0 kW	15.0/15.0/9.0 kW	18.0/18.0/12.0 kW	31.5/31.5/15.0 kW

#### EQUIPMENT FEATURES:

- Media-contacting parts made of stainless steel
- Highly efficient Grundfos pumps
- Siemens S7-1200F safety control unit with 4-inch touch display
- Screwed flat-jet nozzles
- Back flow filtration

#### RECOMMENDED ACCESSORIES:

- Vapour extraction unit
- Level control
- Three-phase oil separator
- Dosing unit
- Microfilter
- Hot-air dryer
- Feeder cart
- Inspection window, lighting
- Cascade control
- 7-inch touch display

# BUPI CLEANER® POWERTEC KLT PRO

The BUPI CLEANER® POWERTEC KLT PRO is a two-tank cleaning system characterised by its space-saving and compact design. It is suitable for the cleaning of small load carriers (SLC), transport packages, blister packs, trays, and even plastic pallets.

## EQUIPMENT

The system load is introduced directly with the washing basket. A feeder cart can be used if desired. Upon request, custom washing baskets with telescoping drawer function for lids and blister packs can be offered as well.

## CLEANING PROCESS

The packages will rotate horizontally in the system while cleaning. They are cleaned with cleaning medium subject to high pressure and large volume flow, rinsed, and then hot-air dried. Concurrent loading and unloading of a cleaning basket is possible by using multiple feeder carts, which virtually doubles the system's capacity.



## OVERVIEW OF OUR POWERTEC KLT PRO

- Small footprint at only 2.7 x 2.3 m
- All media-contacting parts made of stainless steel
- User-friendly operation
- Safety Integrated Siemens control system
- Highly efficient Grundfos pumps
- Industry 4.0 compatible
- Avoiding peak currents from heating loads
- Low procurement and operating costs by batch operation in the closed workspace
- Flexible space allocation by height-adjustable, removable shelves and telescopic extensions
- Customised washing basket upon request



# BUPI CLEANER® POWERTEC KLT PRO

## TWO-TANK SYSTEM WITH LIFTING DOOR

Clean production chains require periodic cleaning of the parts containers as well. Therefore, we have designed the KLT (small load carriers) series for this purpose.



Read more at  
[www.bupicleaner.com/en/](http://www.bupicleaner.com/en/)



### TECHNICAL DATA

#### STANDARD SIZES WITHOUT ADDITIONAL EQUIPMENT

OVERALL DIMENSIONS APPROX.	SIZE 5
Width	2,720 mm
Depth	2,250 mm
Total height	2,950 mm
Total height with open lifting door	3,900 mm
Transfer height (upper edge grating)	880 mm
Useful dimensions L x W x H	1,220 x 1,000 x 1,200 mm
Load weight (payload)	200 kg
Total weight of the system	1,900 kg
POWER SUPPLY	
Electrical connection	56 kW
Max. current consumption	84 A
TECHNICAL PUMP DATA – CLEANING/RINSING	
Recirculation capacities	35.3/32.3 m <sup>3</sup> /h
Pump heads	520/420 kPa
Pump motors	7.5/5.5 kW
ELECTRICAL HEATING – CLEANING/RINSING	
Tank volumes	550/550 l
Electrical heating power values	18/18 kW

#### EQUIPMENT FEATURES:

- Media-contacting parts made of stainless steel
- Highly efficient Grundfos pumps
- Siemens S7-1200F safety control unit with 4-inch touch display
- Drilled full-jet nozzles
- Back flow filtration

#### RECOMMENDED ACCESSORIES:

- Vapour extraction unit
- Level control
- Three-phase oil separator
- Dosing unit
- Microfilter
- Hot-air dryer
- Feeder cart
- Inspection window, lighting
- Cascade control
- 7-inch touch display
- SLC cage and shelves

# BUPI CLEANER® POWERTEC RSS PRO

The BUPI CLEANER® POWERTEC RSS PRO is a two-tank cleaning system for bulk goods and special parts. It is characterised by its space-saving, compact design and suitable for cleaning of pallet cages, crates, or large parts.

## EQUIPMENT

The units can be fed with a feeder cart or fully integrated as part of a process chain. The parts are then pushed into the cleaning system via a trolley.

## CLEANING PROCESS

The pallet cage will be rotated horizontally in the system while cleaning. It will be sprayed on from three sides with a hot cleaning agent at high pressure and flow rates and then rinsed.



## OVERVIEW OF OUR POWERTEC RSS PRO

- Cleaning of small boxes, pallet cages, large parts
- All media-contacting parts made of stainless steel
- User-friendly operation
- Safety Integrated Siemens control system
- Highly efficient Grundfos pumps
- Industry 4.0 compatible
- Avoiding peak currents from heating loads
- Low procurement and operating costs by batch operation in the closed workspace



# BUPI CLEANER® POWERTEC RSS PRO

## TWO-TANK SYSTEM WITH LIFTING DOOR

The RSS series has been designed for bulk goods or parts with complex geometries. The PRO design uses a two-tank system and will achieve optimal results even in complex cleaning processes.



Read more at [www.bupicleaner.com/en/](http://www.bupicleaner.com/en/)



### TECHNICAL DATA

STANDARD SIZES WITHOUT ADDITIONAL EQUIPMENT

OVERALL DIMENSIONS APPROX.	SIZE 5
Width	2,750 mm
Depth	1,930 mm
Total height	2,550 mm
Total height with open lifting door	3,850 mm
Transfer height (upper edge grating)	1,000 mm
Useful dimensions L x W x H	1,200 x 800 x 1,000 mm
Load weight (payload)	1,000 kg
Total weight of the system	1,700 kg
POWER SUPPLY	
Electrical connection	49 kW
Max. current consumption	71 A
TECHNICAL PUMP DATA – CLEANING/RINSING	
Recirculation capacities	33.2/26.7 m³h
Pump heads	558/357 kPa
Pump motors	7.5/5.5 kW
ELECTRICAL HEATING – CLEANING/RINSING	
Tank volumes	500/500 l
Electrical heating power values	18/18 kW

#### EQUIPMENT FEATURES:

- Media-contacting parts made of stainless steel
- Highly efficient Grundfos pumps
- Siemens S7-1200F safety control unit with 4-inch touch display
- Drilled full-jet nozzles
- Back flow filtration
- Manual basket lock

#### RECOMMENDED ACCESSORIES:

- Vapour extraction unit
- Level control
- Three-phase oil separator
- Dosing unit
- Microfilter
- Hot-air dryer
- Screwed flat-jet nozzles
- Loading/unloading table
- Inspection window, lighting
- Cascade control
- 7-inch touch display

# BUPI CLEANER® TOPLOADER SERIES

The BUPI CLEANER® TOPLOADER series offers systems that serve as a low-cost compact solution. They comprise two different models specifically developed as workplace systems for component and small batch cleaning. The model range can be equipped with a great number of extras to boot.

## CLEANING PROCESS

Parts to be cleaned, such as small parts or bulk goods, are either placed directly in the attached basket on the turntable, or inserted into the closing basket holder. They are then cleaned vertically or horizontally, based on model.

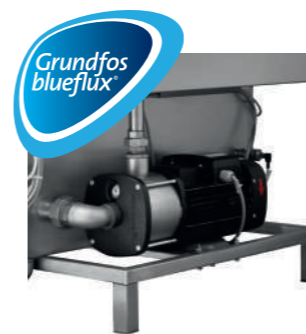
## FURTHER RECOMMENDED ACCESSORIES

- Level control or electrical dry run protection
- Tank cover
- Vapour extraction unit
- Three-phase oil separator
- Microfilter
- Hot-air blow dryer
- Eco fine rinsing
- Dosing unit



## OVERVIEW OF OUR TOPLOADER SERIES

- Toploaders with closing basket or turntable
- All media-contacting parts made of stainless steel
- User-friendly operation
- Electrical and control unit by Siemens
- Highly efficient Grundfos pump
- Low procurement and operating costs



# BUPI CLEANER® TOPLOADER SERIES

The TOPLOADER series serves as the cost-efficient gateway into the world of professional industrial parts cleaning.



Read more on the Toploader TL  
[www.bupicleaner.com/en/](http://www.bupicleaner.com/en/)



Read more on the Toploader TL-K  
[www.bupicleaner.com/en/](http://www.bupicleaner.com/en/)



## TECHNICAL DATA STANDARD SIZES WITHOUT ADDITIONAL EQUIPMENT

OVERALL DIMENSIONS	TL 80	TL 100	TL 120	TL 80-K	TL 100-K
Cleaning basket sizes	X	X	X	471x321x200 mm	600x400x400 mm
Basket round	1,000 mm	1,000 mm	1,200 mm	X	X
Useful height	450 mm	500 mm	700 mm	X	X
Width	1,120 mm	1,320 mm	1,520 mm	1,220 mm	1,470 mm
Depth	920 mm	1,120 mm	1,320 mm	860 mm	1,405 mm
Closed height	1,000 mm	1,200 mm	1,400 mm	1,030 mm	1,250 mm
Payload	200 kg	250 kg	350 kg	50 kg	50 kg
Tank volume	135 l	300 l	430 l	165 l	300 l
Spray pressure at the nozzles	3.0 bar	3.5 bar	3.5 bar	3.5 bar	3.5 bar
Recirculation capacity	4,8 m³/h	12 m³/h	12 m³/h	12 m³/h	12 m³/h
Pump motor	1.1 kW	2.2 kW	2.2 kW	2.2 kW	2.2 kW
Electrical heating power	4.5 kW	6.0 kW	9.0 kW	6.0 kW	6.0 kW
Electrical connection	6 kW	8.5 kW	11.5 kW	9 kW	9 kW
Max. current consumption	9.5 A	14 A	18.5 A	10.5 A	10.5 A



### EQUIPMENT FEATURES TL:

- Media-contacting parts made of stainless steel
- **Vertically** turning basket
- Motor-driven cleaning basket
- High load capacity (max. 350 kg payload)
- Siemens electrical equipment with control unit
- Highly efficient Grundfos pump

### EQUIPMENT FEATURES TL-K:

- Media-contacting parts made of stainless steel
- **Horizontally** rotating, closing basket holder
- Motor-driven cleaning basket
- Siemens electrical equipment with control unit
- Highly efficient Grundfos pump



# BUPI CLEANER® PAINT-STRIPPING SYSTEMS

## YOUR IN-HOUSE-SOLUTION

A special plant series has been developed for paint-stripping with chemicals on aqueous basis. It stands out with its small foot-print and compact design at innovative and environmentally compatible detailed solutions. We will gladly support our customers in individual process optimisation with these innovative paint-stripping solutions.



### PAINT-STRIPPING OF STEEL

The innovative BUPI CLEANER® have been proven to result in good cleaning outcomes in paint-stripping of hanger units in powder-coating. This technology specifically prevents material wear and considerably reduces costs by longer usage times of the hanger units used. The dedicated filter systems for the removed paint sustainably optimise the ecological footprint.



### ALUMINIUM PAINT STRIPPING

Careful processing in separate systems for paint stripping and rinsing stages can be used to subject incorrectly coated parts from production or repaired parts, such as aluminium wheel rims, to cleaning in compliance with the highest quality demands. Concentrated paint-stripping with innovative technology renders scrapping obsolete, thus measurably improving cost efficiency.

Read more  
[www.bupicleaner.com/en/](http://www.bupicleaner.com/en/)



### OVERVIEW OF THE ADVANTAGES

- Quick reuse due to in-house operation
- Less hanger units necessary
- Shorter paint-stripping cycles
- Chemical paint stripping will not attack the parts
- Longer parts service lives



# BUPI CLEANER® CUSTOMISED SOLUTIONS

## FULL INDIVIDUALITY

Every system can be customised to customers' needs. A variable modular system permits customisation of solutions that combine always-stable, long-lived builds with high-quality materials with the latest technical features for continuous, immersion bath, portal, bogie or cylinder cleaning of small or large parts alike. Requirements are often highly specific. About every second BUPI CLEANER® cleaning system, therefore, is a custom solution. Find a few examples for already-implemented projects below.



### FULLY INTEGRATED CLEANING SYSTEMS FOR ROBOT CELLS

Fully automatic production processes lead to ever greater numbers of fully integrated robot solutions. The range goes from Rhönrads systems with attached zero-point clamping systems to direct unloading by a robot or handling system. Integration goes up to handover of the corresponding cleaning program from the control unit and will be adjusted to the part. An integrated pallet clamping system can be provided upon request.



### COMPACT FOR BOGIES

This system will reliably meet cleanliness requirements in the required quality and time. This BUPI CLEANER® bogie cleaning system with two tanks can manage complete bogies as well as disassembled components in two work steps, i.e., cleaning and rinsing with passivation, in a short cycle.



### AUTOMATION WITH IN-LINE-CLEANING

Typically designed as continuous systems, these custom systems combine the tried and tested cleaning method with transport devices for delivery and removal of the cleaned goods. This can be used for anything from belt and roller conveyor systems to overhead conveyor ones. The control unit will react flexibly upon provision of the load to be cleaned. It outputs status messages to downstream units and superordinate systems.



### CLEANING OVERSIZED PLASTIC COVERS

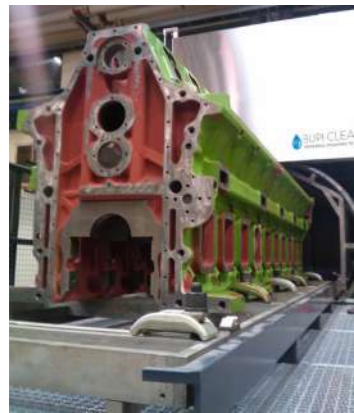
The trolley has a swivel device to clamp parts in the correct position. Following automatic supply to the cleaning chamber, the parts will be cleaned and rinsed in the oscillating procedure with special high impact nozzles. The challenge was in blowing off after cleaning since the plastic parts did not heat up while cleaning. Drying is achieved by adapted blow-off nozzle pipes that can be rotated in.



### THE CHALLENGE OF PIPE AND CYLINDER CLEANING

Inner and outer cleaning of cylinder pipes always has some special requirements. The pipes are entirely cleaned of various kinds of contamination in pre- and final cleaning. Both short cylinders and those with lengths of up to 5 metres and diameters of up to 0.5 metres can be cleaned. Variable part holders permit different sizes and numbers of cylinder pipes in a custom BUPI CLEANER® cleaning system.

# “CONVINCE YOURSELF”



## CLEANING OF HEAVY LOADS AT INCREASED SPACE DEMAND

Every single system, including all of its components, is designed and inspected for the specific application: This is the case, for example, when a system has rotating engine blocks for large diesel engines with weights of 6.5 tons a piece around their horizontal axes for cleaning, large parts require more cleaning space or greater load-bearing capacity, or certain kinds of contamination demand a higher spray pressure.



## AEROPLANE RIM CLEANING WITH BRUSHES

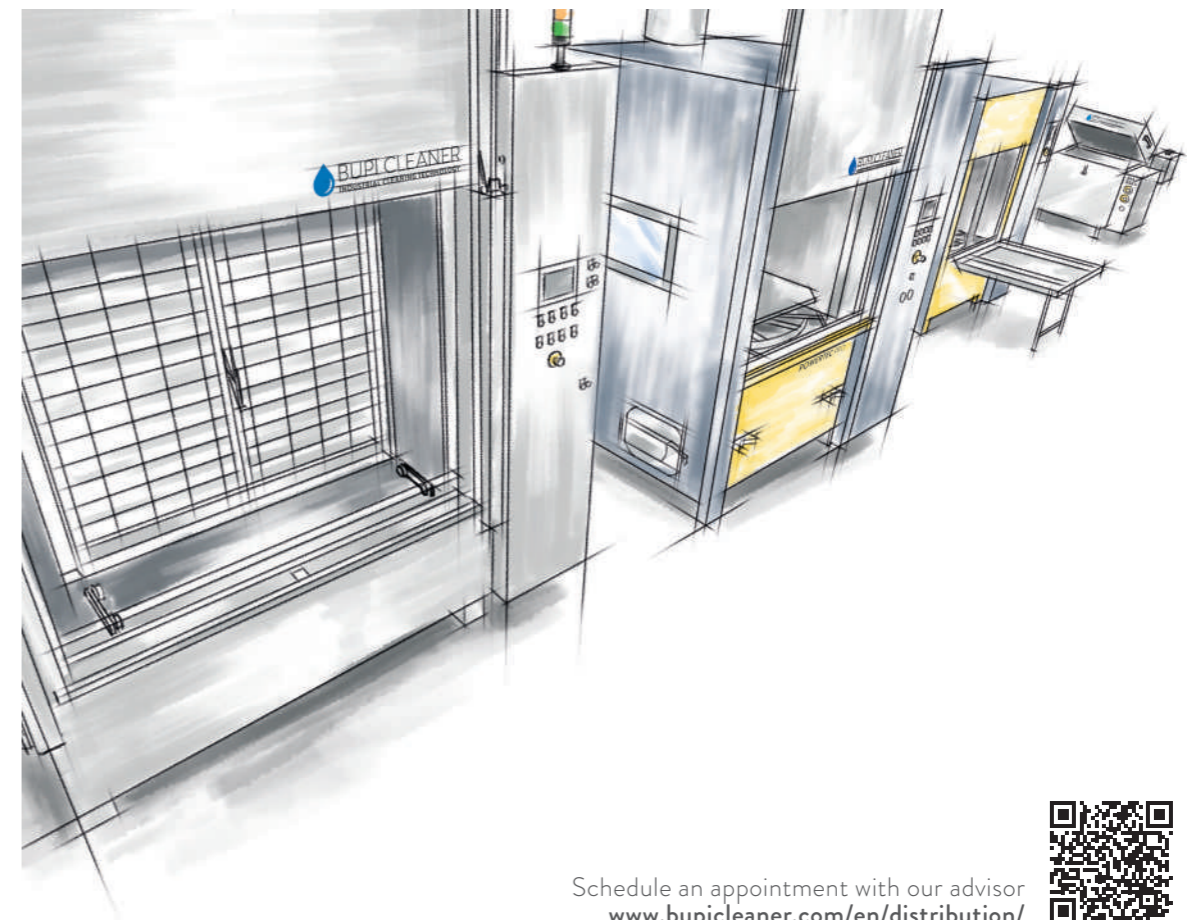
The rims are loaded manually or via an automatic feeder on a roller conveyor. A lateral brush will clean the outer edge while the main brush covers the inside of the rims. These custom brushes will be precisely adjusted to the wheel rim contours. The design also has an exchange-closure for quickly swapping to a different brush.



## A DIFFERENT KIND OF CONTINUOUS CLEANING

Safe integration of the system into the existing conveyor technology formed a challenge and an essential item of system planning and design. Steel pallets with the parts to be cleaned are cycled through two chambers for cleaning and rinsing in linear operation on roller tracks here to achieve the required process times and degree of automation.

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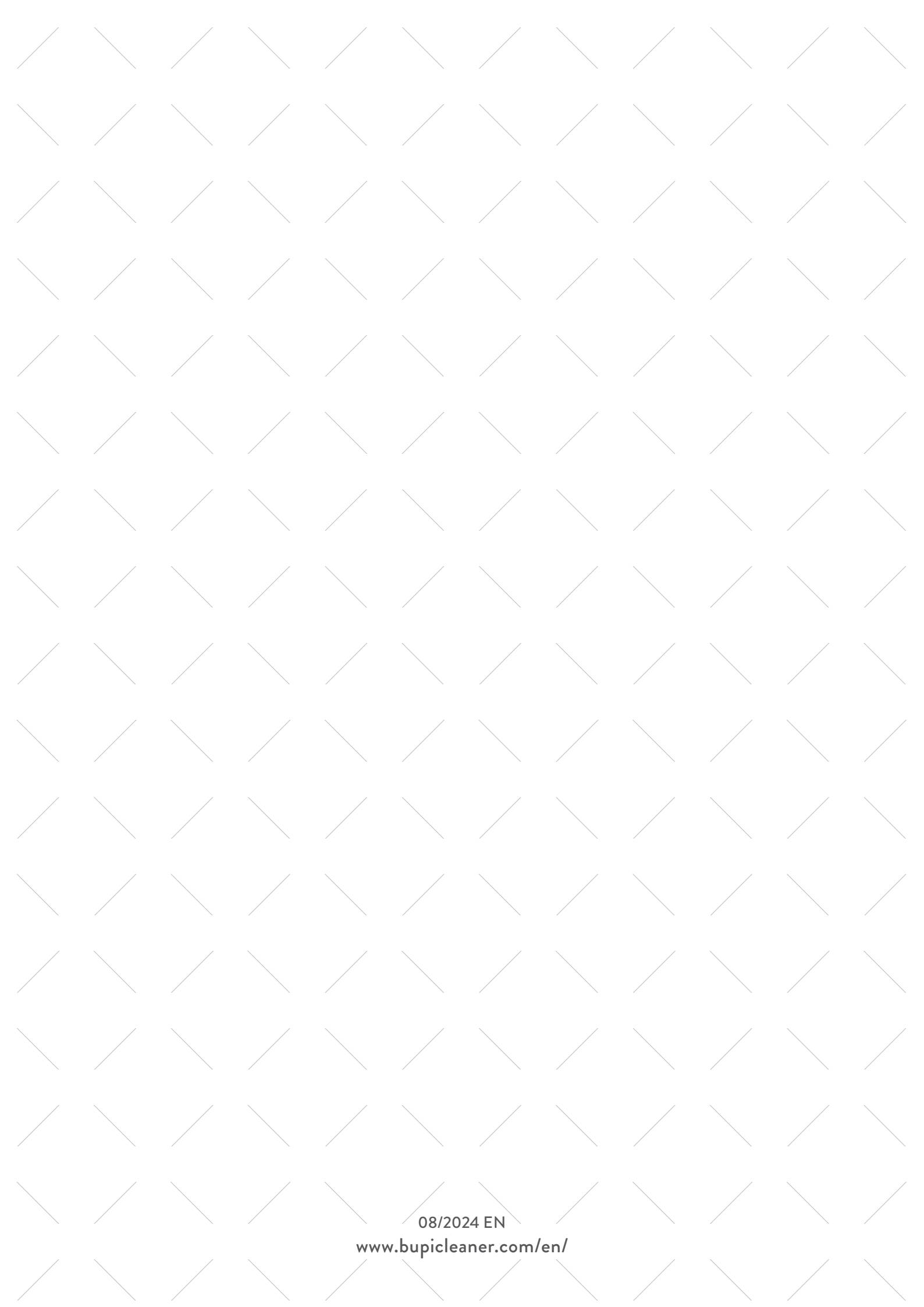
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