

# WHEEL WASHING SYSTEMS

IN A CLASS OF THEIR OWN



Market leader in wheel washing systems  
with high-pressure washing techniques

PERFORMTEC

# YOUR PROCESS

## - OUR SOLUTION

Since 2000, PERFORMTEC GMBH has been developing and producing highly efficient wheel washing systems for professional use.

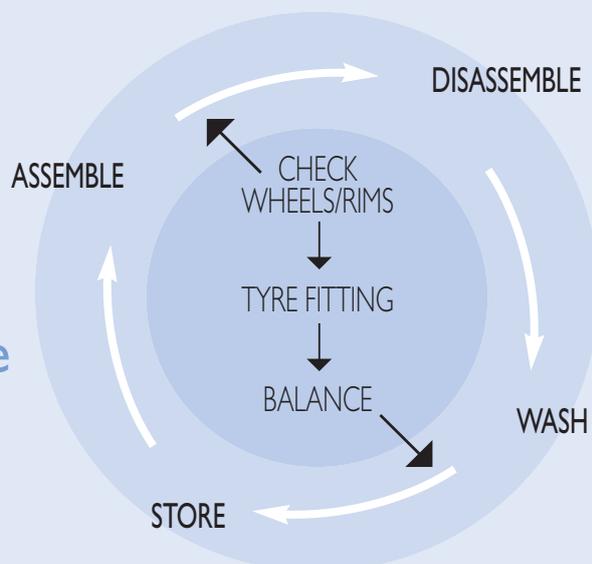
A one-stop service, from the idea to the product.

We spell "MADE IN GERMANY" in capitals.

From many individual high-quality components – from the stainless steel chassis to the switch cabinet construction in accordance with German industrial standards, with controls by Siemens and Klöckner-Möller – products of the highest class are created.

### THE WASHING SYSTEMS ARE ALIGNED TO YOUR PROCESSES – NOT THE OTHER WAY ROUND

Wheel cycle



# AN OVERVIEW OF THE MOST IMPORTANT FEATURES

## 1. Innovative and patented washing techniques

- A biodegradable cleaner is automatically sprayed on and dissolves even stubborn burnt-in brake dust
- After a short application time, the dirt is sprayed off with several high-pressure nozzles
- Each wheel receives a clear rinse with clean water
- Consistent wash results with high-pressure clear rinsing
- No expensive water changes necessary
- Pure "made in Germany" service – excellent results with steady technology

## 2. Space-saving, innovative 4-wheel or modular technology

- One, two or four wheels are cleaned at the same time and fully automatically
- The washing systems are aligned to your processes – not the other way round

## 3. Quick amortisation

- The whole process sequence during wheel changes is significantly optimised
- Labour costs are greatly reduced
- Productivity is increased
- Customer satisfaction is increased
- Space required for wheel washing (e.g. at a wash facility) is minimised and is available for other activities
- The lifetime of workshop equipment (balancing and assembly machines) is extended

## 4. Machine-compatible and sparing application, even for the environment

- Practically all types of rims/wheels can be washed with the recommended biodegradable original DeepForce chemical:  
• alloy rims • high gloss polished rims • rims with stainless steel applications • sealed chrome rims • steel wheels with wheel trims • steel wheels without wheel trims • etc.
- The washing water can be automatically regulated to a pH-neutral value with a simple neutralisation agent
- The high pressure is arranged/ designed so that tyres and rims are not damaged at all
- The wheels are fixed with no mechanical contact, even with protruding rims  
This excludes scratching by pressure rollers
- Absolutely no mechanical (brushes, granulates) or other material-eroding washing components are used

## 5. Washing without compromises

- Even heavily burnt-in brake dust is dissolved with the recommended, high-quality chemical
- Clear high-pressure rinsing means that every wheel is washed with consistent quality (no circulating dirty water)
- Throughout the season, the machine does not need to be cleaned or maintained... Simply wash, wash and wash...

## 6. Easy to use

- Place wheel/wheels inside, press one of the four programme buttons and the system does the rest automatically

## 7. Wheel version capacities and weight

- Max. Ø 800 mm/width 350 (330) mm
- Max. Ø 500 (530) mm/width 135 (155) mm
- SUV wheels with or without run-flat tyres can also be washed
- Unparalleled 50/70kg individual wheel weight can be carried

## 8. Programmable logic controller

- Individual adjustment of the wash programmes is simple with the programmable logic controller
- Siemens PLC (four-wheel washing system)
- Klöckner-Möller SPS (modulares Radwaschsystem)

## 9. Value

- All components are manufactured in Germany, in accordance with German industrial standards
- Only the best materials are used
- Magnificent stability and lifetime

...And don't forget to offer the wheel washes all year round, with all works where the wheels are being dismantled anyway!

Advantages for you: high customer satisfaction and even faster amortisation!

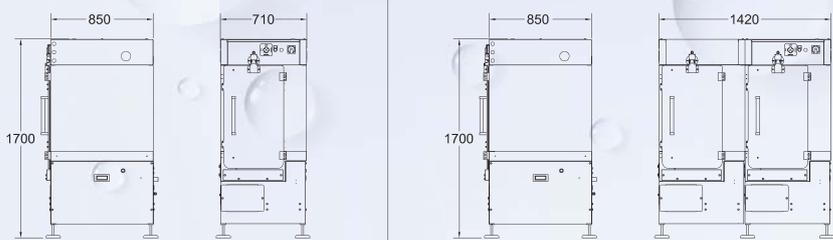


More details...



Optional dynamic, right-hand high-pressure nozzle

Optional workbench with 2 plastic rollers for the modular wheel washing system



M-RWA

M-RWA + expansion module

# MODULAR

## Wheel washing system

Sets new standards for flexibility and wash results!  
Wash up to two wheels at the same time!

### MODULAR SYSTEM

With this innovative wheel washing system, an affordable single-wheel washing system can be started. A second module can subsequently be retrofitted at any time without any great expense. The second module is significantly cheaper, as the available resources (propulsion, high pressure, pumps etc.) of the base module will be used!

### REDUCE STAFF COSTS – INCREASE PRODUCTIVITY

By washing two wheels at the same time, the operator can use the washing time sensibly for other activities. This means that quick amortisation can be achieved!

- Space-saving, innovative module technology
- Up to two wheels are washed fully automatically
- Quick amortisation by increase in productivity
- Largest wheel version capacities (Ø 800 mm x width 350 mm)
- All common car wheels (aluminium, steel, SUV, run-flat etc.) can be washed
- No damage to rim varnish caused by mechanical washing components
- Consistent high-quality wash results
- Always ready for use, as no water change is necessary
- Combination of proven chemical and high-pressure washing methods  
... This is the only way to remove burnt-in brake dust!
- Automatic process water neutralisation = environmentally friendly washing method!
- Four default cleaning programmes
- Most wheel markings remain undamaged during washing

Expansion module



Base module

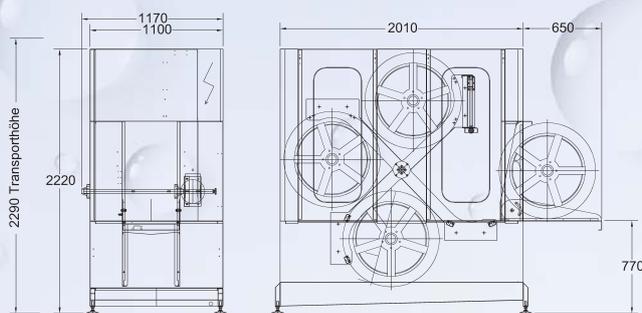


Mehr Details ...

**PATENTED**  
**MADE IN GERMANY**

PERFORMTEC  
**BIG WHEEL**

Optional internal  
lighting



BIG WHEEL

# BIG WHEEL

## Four-wheel washing system

Also holds heavy run-flat and large SUV wheels

PERFORMTEC is the first company to have developed a four-wheel washing system that fits in any workshop. The external dimensions are only 2.01 x 1.10 m. This system therefore revolutionises wheel washing!

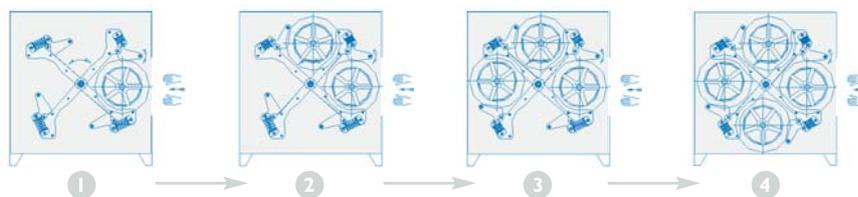
### BIG WHEEL FOUR-WHEEL SYSTEM

- Four wheels are washed at the same time fully automatically  
... Or just one, two or three wheels can be washed
- Machine dimensions that are suitable for workshops (2.01 x 1.10 m floor space)
- Automatic process water neutralisation = environmentally friendly washing methods!
- Consistent, excellent cleaning results as a result of 8 dynamic flat-spray nozzles
- Combination of proven chemical and high-pressure washing methods  
... This is the only way to remove burnt-in brake dust!
- Aluminium and steel wheels can be washed, or alternatively wheels with wheel trims
- All common car wheels (SUV, run-flat, PAX wheels etc.) can be washed
- No damage to rim varnish caused by mechanical washing components (e.g. plastic granulate, brushes etc.)
- Always ready for use, as no water change is necessary
- Extremely maintenance-friendly and low-wear
- Adheres to German industrial safety guidelines
- Siemens PLC controlled (Programmable Logic Controller)
- Four default, fully automatic cleaning programmes  
Short: slightly dirty wheels  
Normal: usual dirty wheels  
Super: very dirty wheels  
Rinse: high-pressure only
- Approx. 520 kg of stainless steel guarantees a long lifetime

With the four-wheel washing system, you will optimise your work processes, thereby reducing your costs significantly. It pays off!



4 x is faster – and better!



	Modular wheel washing system (base module)	Modular wheel washing system (expansion module)	BIG WHEEL four-wheel washing system
<b>Technical specifications</b>			
Chassis	Stainless steel/ powder-coated steel	Stainless steel/ powder-coated steel	Stainless steel
Width	710 mm	710 mm	1100 (1170) mm
Depth	850 (950) mm	850 (950) mm	2010 (2660) mm
Height	1700 mm	1700 mm	2200 mm
Wash cycle in minutes	30s <sup>1)</sup> /2min <sup>2)</sup> /2min 50s <sup>3)</sup> /3min 40s <sup>4)</sup>	30s <sup>1)</sup> 2)/1min <sup>3)</sup> 4) each plus the times of the base module	3min 30s <sup>1)</sup> /5min 15s <sup>2)</sup> /6min 30s <sup>3)</sup> /10min <sup>4)</sup>
Wheel diameter	500–800 mm	500–800 mm	530–800 mm
Wheel width	135-350 mm	135-350 mm	155–330 mm
Max. wheel weight	70 kg	70 kg	50 kg
Spray	Dynamic/rigid flat-spray nozzle (2x dynamic optional)	Dynamic/rigid flat-spray nozzle (2x dynamic optional)	2x4 dynamic flat-spray nozzles
Spray pressure	150 bar	150 bar	180/200 bar
Weight	Approx. 185 kg	Approx. 140 kg	Approx. 622 kg
Power connection	400V, 3-Ph, 50 Hz	Internal	400V, 3-Ph, 50 Hz
Electrical fuse protection	16 A, mains fuse time-lag (in accordance with VDE 0100)	Internal	16 A, mains fuse time-lag (in accordance with VDE 0100)
High-pressure pump	5,5 kW	Internal	7,5 kW
Control	Moeller PLC	Internal	Siemens PLC
Water consumption per wheel in l (approx.)	8,5 <sup>1)</sup> 2)/ 22 <sup>3)</sup> 4)	8,5 <sup>1)</sup> 2)/ 22 <sup>3)</sup> 4)	15 <sup>1)</sup> / 13,3 <sup>2)</sup> / 15 <sup>3)</sup> / 25 <sup>4)</sup>
Cleaner consumption per wheel in l (approx.)	0,0 <sup>1)</sup> / 0,06 <sup>2)</sup> / 0,09 <sup>3)</sup> / 0,12 <sup>4)</sup>	0,0 <sup>1)</sup> / 0,06 <sup>2)</sup> / 0,09 <sup>3)</sup> / 0,12 <sup>4)</sup>	0,0 <sup>1)</sup> / 0,09 <sup>2)</sup> / 0,10 <sup>3)</sup> / 0,11 <sup>4)</sup>
Neutralisation agent consumption per wheel in l (approx.)	0,0 <sup>1)</sup> / 0,02 <sup>2)</sup> / 0,03 <sup>3)</sup> / 0,04 <sup>4)</sup>	0,0 <sup>1)</sup> / 0,02 <sup>2)</sup> / 0,03 <sup>3)</sup> / 0,04 <sup>4)</sup>	0,0 <sup>1)</sup> / 0,023 <sup>2)</sup> / 0,024 <sup>3)</sup> / 0,027 <sup>4)</sup>

<sup>1)</sup> Details for RINSE programme, <sup>2)</sup> Details for ECO programme, <sup>3)</sup> Details for NORMAL programme, <sup>4)</sup> Details for SUPER programme

<b>Connection and installation conditions</b>			
Ø water intake line (min.)	¾"	Internal	¾"
Water connection transfer point (thread on site)	R ¾" (male thread)	Internal	R ¾" (male thread)
Feed volume (min.)	25 l/min	Internal	25 l/min
Feed temperature (max.)	50 °C	Internal	50 °C
Water connection in machine	3 m PVC braided hose with R ¾" connection piece (female thread)	Internal	3 m PVC braided hose with R ¾" connection piece (female thread)
Process water outlet	PVC braided fabric (25 mm Ø inside/4.50 m in length)	Internal	PVC braided fabric (19 mm Ø inside/4.50 m in length)
Immersion pump for process water	Optional	Internal	Integrated (pump capacity up to max. 5 m in height)
Temperature conditions	Closed room min. 5 °C Recommendation: > 15 °C	Closed room min. 5 °C Recommendation: > 15 °C	Closed room min. 5 °C Recommendation: > 15 °C
Instructions for insertion	Stacker truck, observe dimensions!	Stacker truck, observe dimensions!	Stacker truck, observe dimensions! A general height of 2300 mm must be available

Performtec GmbH  
Heinkelstrasse 7-9  
D-73230 Kirchheim  
Tel +49 (7021) 57149-0  
Fax +49 (7021) 57149-11  
vertrieb@performtec.de  
www.performtec.de



Item no.: 10000062