

# WHEEL WASHING SYSTEMS

IN A CLASS OF THEIR OWN



The Modular  
Rim washing system



The Modular  
Weehl washing system



The Modular  
Weehl washing system  
with extension module

Black Edition  
Weehl washing  
system



BIG WHEEL  
4-Weehl washing  
system

# YOUR PROCESSES

## our solution

Since 2002, PERFORMTEC GmbH has been developing and producing high-performance wheel and rim washing systems for professional use. We offer complete solutions – from the initial idea to the finished product. Everything from a single source. Our systems represent true quality „Made in Germany.“ Products of the highest quality are manufactured in our factory in Kirchheim unter Teck from many individual components, from the stainless steel washing body to the high-pressure unit and control cabinet. We deliver, install, and train on-site. Even after commissioning, we support our customers – for many years and thousands of washing processes – with reliable service.



### What makes our weehl washing systems so unique:

- ✓ Minimal handling effort throughout the entire process
- ✓ Washing including wheel hub caps and centering rings
- ✓ Washing with mounted wheelcover or Aeroblades
- ✓ Washing of wheels with protruding rim flanges
- ✓ All single- and two-wheel wash systems can also wash just the rim (without any additional equipment)
- ✓ Wheels can be labeled or tagged on the tread aerea before washing
- ✓ Marking systems can be washed without any loss of information

# BLACK EDITION

## Wheel washing system

A sophisticated design combined with excellent washing technology

### The Black Edition System

- » Derived from our modular wheel washing system, the „Black Edition“ completes the portfolio with a pure single-wheel washing system.
- » Washing unit made entirely of stainless steel
- » Huge wheel capacity (Ø 800mm x width 350mm)
- » Suitable for all painted rims (steel, aluminum, carbon, chrome) Gentle on surfaces
- » No damage to the rim surface due to mechanical washing components
- » Consistently high-quality washing results, as each wheel is rinsed clean with three flat jet nozzles with high pressure
- » Always ready for use, as no time-consuming water changes or heating up are necessary
- » Four preset, automatic cleaning programs
- » Extremely easy to maintain and low-wear



Optional work table with two plastic casters for ergonomic working



More Infos  
[www.performtec.de](http://www.performtec.de)

The „Black Edition“ wheel washing system is an excellent and inexpensive introduction to the world of automated wheel washing.

# MODULAR Weehl Wash System

## Modular System

With this innovative wheel washing system, you can start with a single wheel washing system (basic module). The system can be easily expanded on site at the customer's premises with the extension module. The extension module is significantly cheaper because it utilizes the existing technical components (drive, high-pressure unit, cleaning and neutralization pump) of the basic module.

## Reduce personnel costs – increase productivity.

By washing two wheels in one go, the operator can use the washing time for other tasks. This means that an even faster return on investment can be achieved!

- » Space-saving, innovative modular technology
- » Up to two wheels are washed fully automatically
- » High investment security thanks to the option of subsequent expansion
- » Largest wheel capacity (Ø 800 mm x width 350 mm)
- » Fast return on investment through increased productivity

**Sets new standards in terms of flexibility and washing results!**  
**Wash up to two wheels in one go!**

Start off with the basic module at low price ... then upgrade later with the extension module and wash two wheels in one go!

Expansion module



Basic module

Optional damp-proof luminaire



Optional high-pressure nozzle for cleaning the tread



Optional work table with two plastic casters for ergonomic working



Optional dynamic 2D high-pressure nozzle on the right



Optional soundproofing for high-pressure unit



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# MODULAR Rim Washing System



More Infos  
[www.performtec.de](http://www.performtec.de)

Derived from the modular wheel washing system, the „Modular Rim Washing System“ completes the product portfolio with the single- and double-rim washing system.

Optional damp-proof luminaire

## The rim washing system

- » Washing unit made entirely of stainless steel
- » Huge wheel capacity (Ø 650 mm x width 330 mm)
- » Suitable for all painted rims (steel, aluminum, carbon, chrome)  
Gentle on surfaces
- » No damage to the rim surface due to mechanical washing components.
- » Consistently high-quality washing results, as each rim is rinsed with high pressure through two dynamic nozzles
- » Always ready for use, as no time-consuming water changes or heating up are necessary
- » Four preset, automatic cleaning programs
- » Also available as a double rim washing system (basic & expansion module)



Optional work table with two plastic casters for ergonomic working

Optional soundproofing for high-pressure unit

# BIG WHEEL

## 4-Wheel Washing System



More Infos  
[www.performtec.de](http://www.performtec.de)



**With the 4-Wheel Washing System, you optimize work processes and thus demonstrably reduce your costs. It pays off!**

### **BIG WHEEL 4-Wheel Washing System**

- » Four wheels can be washed fully automatically in parallel.
- » Workshop-compatible machine size (footprint 2.01 x 1.10 m)
- » Automatic process water neutralization
- » Consistently high cleaning results thanks to eight dynamic flatjet nozzles with up to 200 bar cleaning pressure
- » Combination of the proven chemical high-pressure washing method
- » Aluminum and steel wheels – optionally with hubcaps/Aeroblades – can be washed
- » Large wheel capacity (Ø 800 mm x width 330 mm)

# Performtec Wheel- and Rim wash Systems: Technical Data

Technical data/model	Black Edition	Modular Wheel washer Modular Rim washer	Modular Wheel washer Modular Rim washer	BIG WHEEL
Short name	BE	M-RWA	EM-RWA	BW
Indication	1-Wheel washer	1-Wheel washer <b>basis module</b> 1-Rim Washer <b>basic modul</b>	<b>Extension module</b> for 1-Wheel washer <b>Expansion modul</b> for 1-Rim washer	4-Wheel washer
Chassis	Stainless steel and powder-coated steel	Stainless steel and powder-coated steel	Stainless steel and powder-coated steel	stainless steel
Width in mm	780 mm / ca. 1070 mm with open door	780 mm / ca. 1070 mm with open door	Total width with basis module ca. 1480 mm; Total width with doors open on both sides ca. 2140 mm	1100 mm (1170 mm incl. bearing)
Depth in mm	920 mm; 1300 mm with Prewash table „20300005“ (with open door ca. 1550 mm)	920 mm; 1300 mm with Prewash table „20300005“ (with open door ca. 1550 mm)	920 mm; 1300 mm with Prewash table „20300005“ (with open door ca. 1550 mm)	2010 mm (2660 mm with the tailgate open)
Height in mm	ca. 1650 mm (ca. 2300 mm with open control cabinet)	ca. 1750 mm (ca. 2300 mm with open control cabinet)	ca. 1750 mm	2200 mm
Emission sound insulation level (Measurement according to DIN EN ISO 3744 K12 Information according to DIN 45 649 Part 1)	ca. 78 dB(A)	ca. 78 dB(A)	ca. 78 dB(A)	ca. 78 dB(A)
Sound insulation for high-pressure unit	Optional	Optional	only basis module possible	Standard scope
Damp-proof luminaire	Optional	Optional	Optional	Optional
Wash cycle duration in minutes (min) / seconds (s)	30s <sup>1)</sup> / 2min <sup>2)</sup> / 2min 30s <sup>3)</sup> / 3min 30s <sup>4)</sup>	30s <sup>1)</sup> / 2min <sup>2)</sup> / 2min 30s <sup>3)</sup> / 3min 30s <sup>4)</sup>	30s <sup>1)2)</sup> / 1min <sup>3)4)</sup>	3min 30s <sup>1)</sup> / 5min 15s <sup>2)</sup> / 6min 30s <sup>3)</sup> / 10min <sup>4)</sup>
WHEEL diameter for RWA / RIM diameter for FWA in mm	500 - 800 mm	500 - 800 mm 350 - 650 mm	500 - 800 mm 350 - 650 mm	530 - 800 mm
WHEEL width for RWA/ RIM width for FWA in mm	155 - 350 mm	155 - 350 mm 200 - 330 mm	155 - 350 mm 200 - 330 mm	155 - 330 mm
Max. WHEEL weight at RWA / max. RIM weight for FWA in kg	70 kg	70 kg 50 kg	70 kg 50 kg	50 kg
Nozzle configuration	3x flat jet nozzles (2x left / 1x right)	Dynamic nozzle on the left, fixed nozzle on the right Option: Dynamic 20 nozzle on the right instead of fixed nozzle	Dynamic nozzle on the left, fixed nozzle on the right Option: Dynamic 20 nozzle on the right instead of fixed nozzle	2x 4 (right / left) dynamic flat jet nozzles
Injection pressure	140 bar	150 bar	150 bar	max. 200 bar
Tread nozzle (for cleaning the wheel tread)	not available	Optional (not available in conjunction with expansion module)	not available	not available
Machine weight	195 kg	230 kg / 235 kg	140 kg / 145 kg	690 kg
Power connection	400 V AC 50 Hz, 3P+N+PE	400 V AC 50 Hz, 3P+N+PE	internal	400 V AC 50 Hz, 3P+N+PE
Electrical Protection	16A (Characteristics C16)	16A (Characteristics C16)	internal	16A (Characteristics C16)
High-pressure pump	5,5 kW	5,5 kW	internal	7,5 kW
Controller	Siemens Logo <sup>®</sup>	Siemens Logo <sup>®</sup>	internal	Siemens SPS S7-1200
Water consumption per wheel in l (liters); approx. values	8,5 <sup>1)2)</sup> / 18,5 <sup>3)</sup> / 21,5 <sup>4)</sup>	9,0 <sup>1)2)</sup> / 18,5 <sup>3)</sup> / 21,5 <sup>4)</sup>	9,0 <sup>1)2)</sup> / 18,5 <sup>3)</sup> / 21,5 <sup>4)</sup>	15 <sup>1)</sup> / 13,3 <sup>2)</sup> / 15 <sup>3)</sup> / 25 <sup>4)</sup>
Detergent consumption per wheel in l (liters); approx. values	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> / 0,06 <sup>2)</sup> / 0,09 <sup>3)</sup> / 0,12 <sup>4)</sup>	0,0 <sup>1)</sup> / 0,10 <sup>2)</sup> / 0,11 <sup>3)</sup> / 0,12 <sup>4)</sup>
Neutralizing agent consumption per wheel in l (liters); approx. values	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> / 0,02 <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>
Water connection point (thread provided by customer); in inches (")	R3/4" (external thread)	R3/4" (external thread)	internal	R3/4" (external thread)
Water inlet volume (minimum) in l/m in (liters/minute)	25 l/min	25 l/min	internal	25 l/min
Water inlet temperature (minimum / maximum)	5 °C / 50 °C	5 °C / 50 °C	internal	5 °C / 50 °C
Water connection on the machine side	3m PVC fabric hose with R 3/4" connector (female thread)	3m PVC fabric hose with R 3/4" connector (female thread)	internal	3m PVC fabric hose with R 3/4" connector (female thread)
Process water leakage	PVC fabric hose (25 mm Ø inside / 4,5 m length)	PVC fabric hose (25 mm Ø inside / 4,5 m length)	internal	PVC fabric hose (19 mm Ø inside / 6,25 m length)
Submersible pump for process water	optional	optional	internal	integrated (pump capacity up to max. 5m 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)	Closed room, min. 5°C (Recommendation: > 15°C)
Instructions for submission	Forklift; note dimensions!	Forklift; note dimensions!	Forklift; note dimensions!	<b>To unload from the truck:</b> Forklift min. 1000kg load capacity <b>In-house transport:</b> Suitable pallet truck or forklift; note dimensions! <b>There must be a constant height of 2300mm!</b>

<sup>1)</sup> Information about the RINSE program    <sup>2)</sup> Information about the ECO program    <sup>3)</sup> Information about the NORMAL program    <sup>4)</sup> Information about the SUPER program

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