High-speed rotation atomizers

High-speed rotation atomizers are used to achieve extremely efficient coating on both small and large workpieces.

WAGNER high-speed rotation atomizers are flexible in their application and have a variety of advantages:

- Ideally suited for electrostatic application with water-based and solvent-based coatings
- Optimum coating results due to extremely fine atomization
- Great variability thanks to individual adjustment of the spray jet, depending on the requirements of the workpiece geometry
- Low effort for assembly and maintenance as a result of robust turbine technology and durable stainless steel components

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Further general advantages of WAGNER high-speed rotation atomizers

High efficiency
Approximately 20% lower air consumption compared to similar products in the market. Depending on material, flow rate and workpiece, an application efficiency of over 80% can be achieved. An exhaust air concept, which discharges the exhaust air to the rear, additionally optimizes the coating result.

Wide range of applications
Wide range of bell plates available to match the workpiece and material used.

Optimal control
Combination with RBC 1E control unit. Switching of all bell-relevant parameters including high voltage and speed. Control of valves and all safety-related functions according to standards. Voltage or current controlled operation possible. Optionally with external control.

Time savings
Short color change times due to fast internal and external flushing of the bell plate, as well as direct disposal of the excess material via a drain valve. Manual flushing is therefore not necessary.

Processable material
- Solvent-based paint 1K/2K
- Water-based paint 1K/2K
- UV paint
- Sol-gel
- Micro anti-corrosion paint

Solution for universal coating applications

The variants with internal charging are equally well suited as all-round units for water-based and solvent-based coatings.

TOPFINISH RobotBell 1
Mounting on robots

Typical areas of application
- Automotive industry (e.g. interior & exterior components, rims)
- Components for agricultural & construction machinery
- Plastic components
- Furniture, window frames
- Bicycles
- Glass
- Other general industrial applications

TOPFINISH Bell 1S
Mounting on reciprocators and linear axes

Special advantages

Additional acceleration of the color change
Valve block, selectable with two or four valves, together with integrated drain valve, enables fast color change within only five seconds.

Cost-efficient 2K variant
Processing of two components with integrated static mixer.

Flexible production processes
The bell head of the TOPFINISH RobotBell 1 can be easily replaced by an airspray gun adapter. This enables fast switching between airspray and bell applications.

Special solution for water-based coatings

The high-speed rotation atomizers with external charging have been specially developed for demanding coatings with water-based paints. Two different versions are also available depending on the application:

TOPFINISH Bell 1S ECH
Mounting on reciprocators and linear axes

TOPFINISH RobotBell 1 ECH
Mounting on robots

Special advantages

Ideal solution for water-based coatings
The high voltage emitted via the electrode ring ionizes the ambient air in such a way that the sprayed material is charged. The grounded workpiece is electrostatically coated. External charging significantly reduces equipment costs for water-based paint applications.

Flexible use
Thanks to the modular concept, the high-speed rotation atomizers can also be converted in just a few minutes to a version with internal charging for use with solvent-based coatings. Materials with higher viscosities can also be processed well.

Typical areas of application
- Interior & exterior components of automobiles
- Wood
- Metal
- Glass
- General industrial applications

Bell plate 70 mm

Bell plate 30 mm

High-speed rotation atomizers

Technical data

	TOPFINISH RobotBell 1	TOPFINISH Bell 1S	TOPFINISH RobotBell 1 ECH	TOPFINISH Bell 1S ECH
Shaft bearing	Air bearing			
Drive air pressure	0 - 8 bar			
Brake air pressure	0 - 6 bar			
Steering air pressure	0.2 - 4.5 bar			
Material pressure	Typically 0.5 - 2.0 bar Max. 8 bar			
Material connections	G ¼" internal			
Max. material temperature	+ 50 °C			
Ambient temperature	0 °C to + 40 °C			
Temperature turbine air	+ 15 °C to + 50 °C			
Max. voltage	70 / 100 kV	100 kV	80 kV	
Nozzle size	Ø 0.8 / 1.1 / 1.4 / 1.7 mm			
Bell plates	30 mm / 50 mm / 70 mm Smooth, straight or cross serrated Consistal / titanium			
Material volume	50 - 800 ml/min			
Spray jet diameter	ca. 70 - 800 mm			
Bearing air pressure	5.5 bar			
Weight	5.4 kg (1 color)	4 kg (1 color)	8.2 kg	7.4 kg
Valve block / Number of colors	1 / 2 / 4		1	
Certification	CE Ex II 3 G T6 X			

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