

Manual Powder Systems

MANUAL POWDER APPLICATIONS



- Efficient handling of powder
- Perfected control modules
- High level of efficiency
- Intelligent powder feeding technology

PRIMA manual systems, Corona or Tribo – perfect results are what count!

Rapid color change can be achieved because powder feed comes directly from the powder container



PRIMA 60 L
Large 60 liter stainless steel hopper holds 50-65 lbs. powder – ideal for medium sized series productions



The new generation of manual systems

CONSISTENT UPGRADING FOR EVEN MORE EFFICIENCY AND PERFORMANCE

PRIMA Airfluid / 60 L

The powder is conveyed directly from the original container – or as an alternative, from the 60 l stainless steel container.

- Sturdy equipment trolley with pneumatic vibrating table
- PEM-C4 Corona or PEM-T3 Tribo manual powder guns
- A fluid base ensures the optimum preparation of the powder as it leaves the stainless steel container
- The injector PI-P1 allows for continuous and shock-free conveyance of the powder

Intelligent control technology – EPG PRIMA

The manual system controller is very simple to operate.

- Single hand control for easy adjustment of the powder volume – without changing the powder cloud
- Adjustment knob for setting the air flow
- Adjustment knob for setting the atomized air on the nozzle type or for setting the Tribo air
- Four preset and easily programmable recipes for flat and complex parts as well as for re-coating save on making time consuming adjustments to the electrostatics
- Integrated module for high-voltage and current limit/ mains voltage mechanism

Specifications	PRIMA manual powder systems	
	Airfluid	60 L
Width	532 mm	486 mm
Height	1067 mm	1067 mm
Depth	663 mm	663 mm
Weight	approx. 26 kg	approx. 39 kg
Electrical		
Mains	85 VAC to 250 VAC	85 VAC to 250 VAC
Frequency	47 Hz to 440 Hz	47 Hz to 440 Hz
Power input	max. 25 Watt	max. 25 Watt
High-voltage	max. 100 kV	max. 100 kV
Corona current limit	5 µA to 120 µA (adjustable)	
Tribo current limit	higher than 12 µA	higher than 12 µA
Valve control voltage	24 VDC	24 VDC
Pneumatic		
Air inlet	pressure range 6 to 8 bar air volume max. 20 m ³ /h	
Injector	feed and dosing air 2 to 12 m ³ /h (PI-P1)	
Spray	0.05 to 4.5 m ³ /h	0.05 to 4.5 m ³ /h
Compressed air (connected)	6 bar	6 bar

- Two LED-displays indicate the current settings and the output voltage during Corona or Tribo operation when activating the manual gun
- Automatic gun detection for Tribo or Corona guns
- Adjustable current limit 5-120 µA

BRAVO manual systems, intelligent control technology and easy to use

BRAVO Airfluid



Specifications	BRAVO manual powder systems	
	Airfluid	60 L
Width	480 mm	480 mm
Height	1100 mm	1100 mm
Depth	725 mm	725 mm
Weight	approx. 39 kg	approx. 39 kg
Electrical		
Mains	115 V / 230 V	85 to 250 V
Frequency	50 to 60 Hz	50 to 60 Hz
Power input	max. 130 W	max. 40 W

Top quality both in technology and results

LARGE GRAPHIC DISPLAY FOR EASY VIEWING – EPG BRAVO

Navigating through the menu is easy and all information is displayed clearly on the LCD screen. Only one press of a button is needed to access all of the Corona, Metallic or Tribo powder coating functions. Twelve different coating programs can be selected directly. The electronic Airflow-Control Technology (AFC) and the three stage characteristic curve adjustment for the high-voltage ensure that the powder is applied in a safe and efficient manner.

The powder cloud settings are carried out on the controller or directly from the spray gun. Even the selection of the powder composition can be selected on the gun.

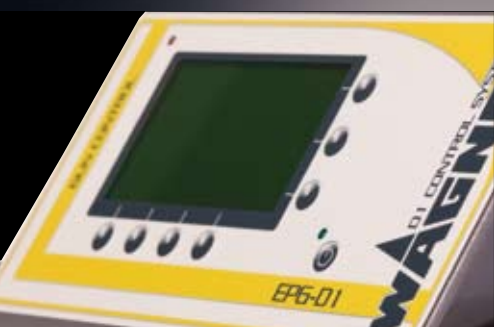
- Initial selection: Corona, Tribo or metallic function
- Three typical workpieces can be pre-selected with adapted high-voltage characteristic curve for large surface parts, small parts, sections as well as re-coating functions
- The correct high-voltage and the associated volume of powder output are adjusted
- High penetration capacity, high level of efficiency, and high surface coverage

BRAVO 60 L



- Separate activation/deactivation of fluid mixing
- Automatic memory function of coating parameters when the device is switched off
- Easy function operating level
- Professional operating function level
- Service level

Technology and expertise – simple and precise



Controller
EPG BRAVO



Controller
EPG PRIMA

Specifications	Manual powder guns	
	PEM-C4 and C4/R	PEM-CG4
Weight	498 g	890 g
Input voltage	max. 22 Vpp	max. 22 Vpp
Input current	max. 0.9 A	max. 0.9 A
Frequency	19 to 30 kHz	19 to 30 kHz
Output voltage	max. 100 kV DC	max. 100 kV DC
Output current	max. 160 µA DC	max. 160 µA DC
Polarity	negative	negative
Design	according with EN 50050	
Protection rating	IP 54	IP 54
Pneumatic		
Air inlet pressure	max. 3 bar	max. 2 bar
Powder output volume	max. 550 g/min	max. 200 g/min
	Tribo PEM-T3	PEM-TG3
Weight	590 g	990 g
Electrical		
Design	according with EN 50050	
Protection rating	IP 54	IP 54
Pneumatic		
Tribo air	max. 3 bar	max. 2 bar
Powder output volume at 3 bar	max. 300 g/min	max. 200 g/min
Protection rating	IP 54	IP 54

Specifications	Controllers	
	EPG BRAVO	EPG PRIMA
High-voltage		
Adjustment range	20 to 100 kV	10 to 100 kV
Resolution	1 kV	10 kV
Current limit		
Adjustment range	20 to 120 µA	5 to 120 µA
Resolution	1 µA	5 µA
Characteristic curve unit	3 stage	permanent
Tribo current measurement	0 to 8 µA	0 to 8 µA
Pneumatic		
Air inlet pressure	6 to 8 bar	6 to 8 bar
Conveyer air	0.05 to 6 Nm ³ /h	0.05 to 6 Nm ³ /h
Dosing air	0.05 to 6 Nm ³ /h	0.05 to 6 Nm ³ /h
Atomized /Tribo air	0.05 to 6 Nm ³ /h	0.05 to 6 Nm ³ /h
Fluid air	0.05 to 6 Nm ³ /h	direct
Operating temperature	5 to 45° C	5 to 45° C

The best equipment for all coating jobs



The new C4 guns – integrated remote control interface



The feed-cup gun with convenient carrying case



The C4 generation of guns

The new generation of guns by WAGNER have attained new levels of efficiency and perfection. The integrated high-voltage cascade with up to 100 kV high-voltage are very safe and function flawlessly. The electronic components are integrated in the robust plastic housing of the gun. This results in lower maintenance costs and a significantly longer service life.

Save on the cost of changing powder! The new system for quick and effective cleaning features:

- Safe automatic cleaning of the powder channel in the gun
- Solid positioning of the spray nozzle components
- Expendable parts are easy to reach when replacing

THE PRODUCT LINE FOR ALL TYPE OF COATING JOB

The advantages of WAGNER gun technology:

- Significant optimization of the powder charging and powder flow
- Increased application efficiency through higher voltage production for an optimum charge
- Highest level of quality when using metallic, effect, and UDS powders
- Even distribution of the coating layer and optimization of the surface covering through a homogenous and soft powder cloud

PEM-C4

- Application with PRIMA Airfluid / 60 L
- Very light, easy to handle electrostatic-manual gun

PEM-C4 R

- Application with BRAVO Airfluid / 60 L
 - Electrostatic-manual gun with remote control
- PEM-C4 R is equipped with the remote control conveniently located on the gun. For greater efficiency, coating recipes and powder output volume can be set via the integrated remote control interface.

PEM-CG4

- Powder cup gun for small volumes
- The perfect lab set for testing, sample coating or small series productions. The cup gun comes complete with a convenient self contained carrying case that is extremely portable and easy to set-up and demonstrate.

PEM-T3 – FOR DIFFICULT PART GEOMETRIES

Proven technology at a high level of reliability. The Tribo guns PEM-T3 and PEM-TG3. The guns can be used in combination with all WAGNER manual systems.



The modular system of accessories for individual coating jobs



Nozzle extensions

Injector PI-P1 / PI-F1



Suction unit

Corona nozzles



Tribo nozzles

Accessories for WAGNER manual systems

Each system has its own accessory equipment – the system grows as jobs become more complex always ensuring professional results – tailored exactly to your needs.

Nozzle extensions

Nozzle extensions can be used with flat jet, nozzle, or deflectors. Best suited for work pieces with large depth dimensions such as radiators, drawers, etc.

Nozzle sets

Our multifunctional nozzle system makes practically every type of coating job possible.

Suction unit and retainer arm

The new retainer arm fixes the suction unit exactly where it is needed. Ease of use and positioning ensures for the optimum suction of the powder liquid out of the container.

All of the manual systems are delivered with the current technology as standard equipment. The conveyor unit can be upgraded as an accessory on existing units at any time.

Injector PI-P1 / PI-F1

The injector PI-P1 is used in the PRIMA Airfluid / 60 L. The PI-F1 injector is used in the BRAVO Airfluid / 60 L. Both injectors deliver the powder smoothly and continuously to the powder gun and are characterized by their low compressed air consumption.



For additional information and a larger selection of accessories such as chokes, nozzles, and hoses please refer to the complete WAGNER catalogue.

www.wagner-group.com

