



Manual Powder Finishing

SIMPLY SMOOTH COATINGS - THE NEW X GENERATION



- Efficient and economical
- Flexible and user friendly
- Ergonomic design



WAGNER PEM-X1 Manual Gun

The next generation of WAGNER manual guns:

EXCELLENT FINISHING · PERFECT BALANCE · OPTIMAL HANDLING · LIGHTWEIGHT (17 oz)

The new WAGNER manual gun PEM-X1 sets the standard and trend for all kinds of surfaces used today in powder coating. This new generation gun improves perfection and precision even further. The product philosophy combines a balanced finesse on all levels with long life expectancy and optimal handling.

Well-balanced ergonomics are based on experience! WAGNER has incorporated this experience in the design of this new generation gun. WAGNER combines first-class design and functionality for perfect finishing solutions.



Unique Design



- **Weight**
While maintaining its robust design, the PEM-X1 weighs only 17 oz.
- **Balance**
Perfectly balanced, the PEM-X1 gun is flexible and reduces fatigue.
- **Ergonomics**
The integrated remote control allows for a quick adjustment of the powder output. Via a double-click on the trigger, switching between recipes is simple and fast.

- **Nozzles**

The new nozzle concept not only provides a perfect powder cloud, but also an improved finished quality. The flat spray can easily be adjusted for particular coating requirements using a sliding ring.

Manual guns

PEM-X1 and PEM-X1 CG

- High transfer efficiency
- Easy and fast to service
- Enormous flexibility for perfect coating results

Technical Data:	PEM-X1	PEM-X1 CG
Length	335 mm/ 13 inch	365 mm / 14 inch
Weight	490 g/ 17 oz	530 g/ 18.6 oz w/o cup
ATEX-Certification	PTB 12 ATEX 5002 EN50050-2	
FM Certification	2309729	
Maximum Powder Output	450 g (15.8 oz) /min.	200 g (7 oz) /min.





Remote control offers flexibility during application



New nozzle concept for perfect coating



Powder cup laboratory set PEM-X1 CG

The powder cup laboratory set is a useful, handy, flexible but yet high-performing equipment for powder coating component parts and small amounts as i.e. needed for laboratory- and development purposes.

SPECIAL ADVANTAGES

- **Compact and always ready-to-use:** The set is perfectly suitable for small quantity production as well as laboratory applications. Independent of ever-changing conditions, the same coating result is obtained.
- **System for perfect results:** Due to the precise WAGNER regulation technology and the gun-integrated dosing system, small amounts of powder can be applied, while still obtaining incredible results.
- **Clear and user friendly:** Taking advantage of the simple plugging-system, the powder container is easily attached and changed, offering flexibility to change colors.
- **Mobile system with convenient case** Everything needed for powder-application is provided. Even the smallest part has its own spot, creating a clear overview.



Ergonomic handle provides the perfect grip



Quick release coupling for fast and efficient color changes



Tribo – Proven technology for outstanding results

Tribo manual guns:

PEM-T3 Tribo manual gun for difficult parts



Gun technology

Tribo Coating

SPECIAL CHARACTERISTICS

- Light weight gun allows long and fatigue-free working.
- Low maintenance costs on wear parts including the charge body. Single parts can be exchanged separately according to their wearing.
- Flexible for all coating tasks as round and flat jet nozzles are included.
- Easy cleaning and maintenance due to the linear powder duct and gun geometry.

PEM-TG3 Tribo manual gun with integrated powder supply via the attached powder cup.



T3 manual guns

PEM-T3 & PEM-TG3

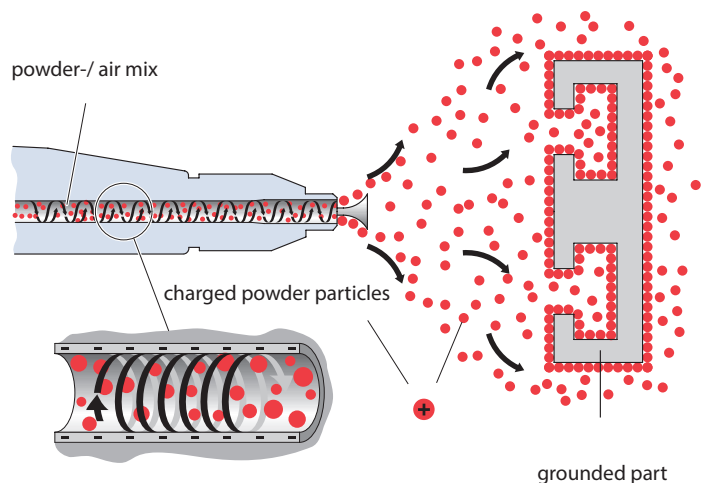
- Ergonomic shape
- Flexible
- High application efficiency

Technical Data	PEM-T3	PEM-TG3
Length	19.7 in.	19.7 in.
Weight	20.8 oz	31.4 oz
Build	according to ATEX regulation 94/9/EG, EN 50050	
Enclosure Class	IP 54	IP 54
Polarity	Positive	Positive
Maximum Powder Output	200 g/min. 7.0 oz/min.	150 g/min. 5.3 oz/min.

Tribo powder coating

The Tribo process is based on frictional charging. In this case, the fluidized powder/air mixture in a PTFE powder tube is charged by means of friction against the inside tube wall. Due to its excellent electrical insulation properties (negative), PTFE is well-suited to charging the particles and its good anti-frictional properties prevent build-up on the walls.

The advantages of the tribo process are the good penetration depth and the better film thickness distribution. In comparison to the corona process, the powder can easily penetrate into depressions (e.g. mailboxes and rims). The coated surface is smoother with no "orange peel" effect.



Precise and Intuitive

The new control-unit EPG-Sprint X

Precise and extremely reliable for optimal coating results – that is the spirit of the new WAGNER control unit EPG-Sprint X. All parameters are arranged logically and can be easily adjusted. Hence guaranteed reproducible results for efficient and high-quality manual coating can be obtained.



Control-units

Control-unit EPG-Sprint X

- Intuitive, easy to operate
- Modular and expandable
- Maximum precision through closed loop regulation



Highest Efficiency



■ Precision

WAGNER Air Flow Control (AFC) guarantees exact powder control and optimal coating results. A high precision, closed loop regulation cycle measures and regulates the air pressure constantly to obtain continuous values.

■ Intuitive User Guidance

Highly visible control elements provide intuitive operation during daily work. The intelligent control unit EPG-Sprint X

can easily be adjusted to any requirements with numerous possibilities.

■ Reproducibility

EPG-Sprint X offers direct access to the most frequently used settings and can save up to 50 coating recipes, allowing high quality and reproducibility.

■ Design

The logical arrangement of the different control parts supports the daily operation. All parameters are always identifiable and guarantee a controlled coating process.

■ Interchangeable

Can be utilized with both Corona and Tribo applications as well as previous WAGNER generation guns.

Technical Data	EPG-Sprint X
Length	270 x 260 x 136 mm (10.6 x 10.2 x 5.3 in.)
Weight	4,6 kg
Type	CE 0102 Ex II 3(2) D IP 64 80°
ATEX-Certification	PTB 102 II DT (Zone 4)
FM Certification	2309729



Simply smooth coatings

WAGNER manual units - Efficiency and flexibility in perfect design

The new manual unit combines functionality and extraordinary design. All parameters can easily and quickly be entered in the EPG-Sprint X. By means of a central and dynamic knob, all parameters –grouped into four functional sections- can be set easily. The unique Cascade characteristic line setting and the TRIBO-compatibility offer a high level of flexibility for any powder. In combination with the new manual gun PEM-X1, the manual unit gives perfect coating results. The powder feeding is carried out directly from the original container or a 60L stainless steel container.



Fast color change

The suction tube can be conveniently secured and out of the way for a quick and easy color change.



Wheels for optimal agility

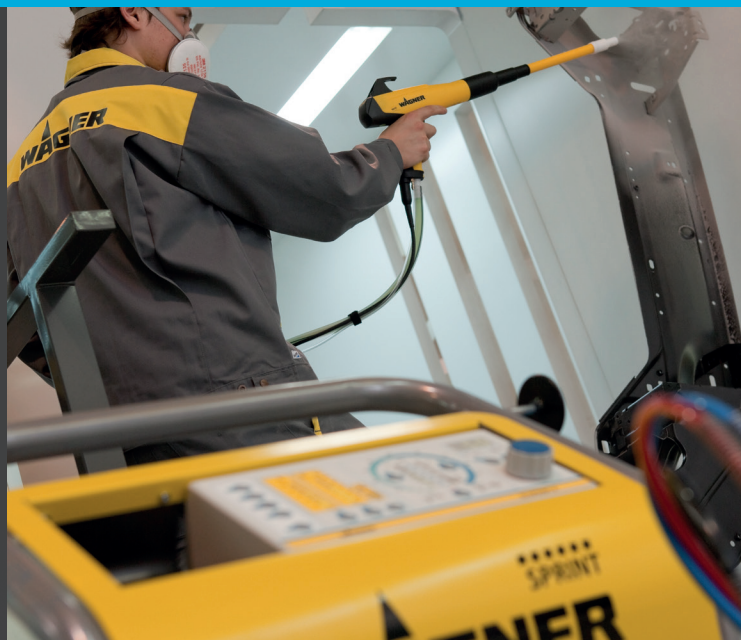
By mounting the small wheels, the manual system can be used and positioned in small places.



Airfluid Model

Your advantages

- Robust trolley with pneumatic vibrating table.
- Powder manual gun PEM-X1 or PEM-T3 Tribo.
- A fluid bed plate in the stainless steel container guarantees an ideal powder fluidization.
- The injector PI-F1 allows for a continuous and calm powder-cloud.



60 L Model

Handling



■ Intuitive user guidance

The logical layout of the control elements make adjusting recipes fast and clear. Up to 50 coating recipes can be saved creating endless possibilities to set parameters to fit your individual needs.

■ Quick color changes

Quick color changes can be achieved by using a pre-programmed button to initiate the process. The position of the suction tube

and the coupling for the powder hose aid a fast and secure color change.

■ Flexibility

The unit can be changed from box feeding to container feeding with ease. Using different powder hoses and injectors, the WAGNER SPRINT can easily be adjusted for any application.

■ Design

The new SPRINT manual unit design is light and modern. Its robust construction and reliable quality output, is the perfect solution for optimal manual coating.

WAGNER ColorSelect X

ColorSelect X

The new WAGNER ColorSelect X is designed for the quickest powder color change while providing the least potential for cross contamination and powder loss.

WAGNER ColorSelect X incorporates a simple, robust pneumatic control system of up to 10 powder feed systems including hopper fluidizing air, powder injector feed air, and dosage air. The operator control panel includes the WAGNER ColorSelect X dial and quick connect ports for 10 colors.

ColorSelect X

- Color Changes in Less than a Minute!
- Easy to Operate and Maintain
- EPG-Sprint Recipe Control
- Lowest Cost of Ownership

Dimensions:

Width	18"
Height	48"
Depth	22"
Weight	approx. 150 lbs

Electrical:

Voltage	100-240 V AC
Input Power	100 W
Protection Class	IP 64
Ex-zone	Ex II 3DT85° C

Pneumatic:

Supply Air Pressure	0.6-0.8 MPa; 6-8 bar; 97-116 psi
Air Consumption	1-2 m/h ³ ; 35 -70 cf
Required Compressed Air Quality	acc. to ISO 8573-1 Class 2 Quality class 5 2 3 3



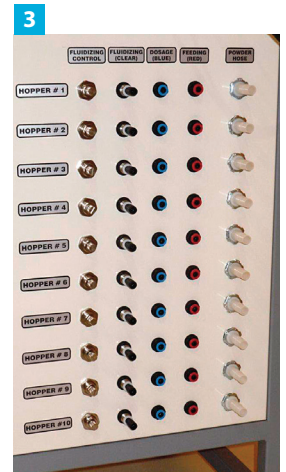
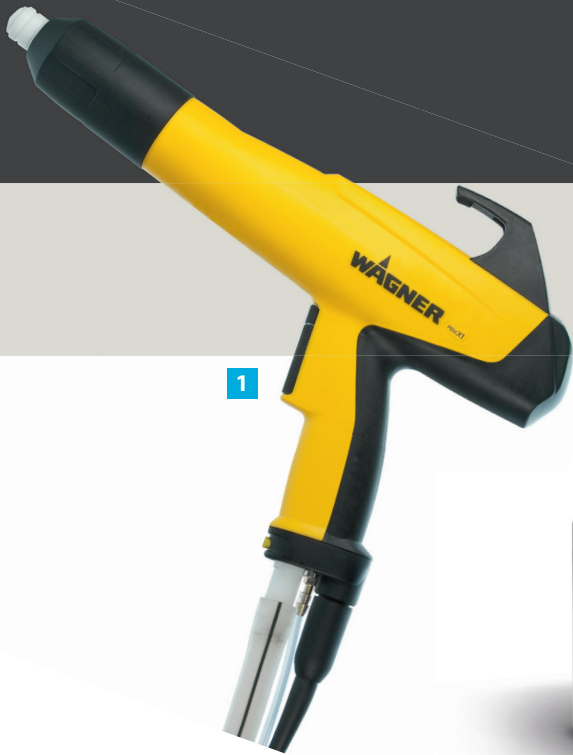
5 Simple Steps to Operate

1. Remove the quick-connect powder hose from the last color used.
2. Connect the powder hose to the purge port, rotate dial to Purge.
3. Automatic purge cycle of powder pathway including gun and powder hose. Operator blows-off gun exterior.
4. Remove the quick-connect powder hose from the purge port and connect to the next color.
5. Rotate dial to the next color and begin coating!

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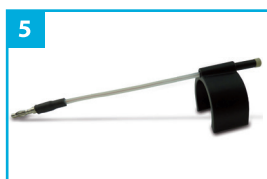
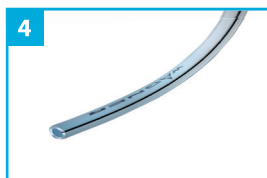
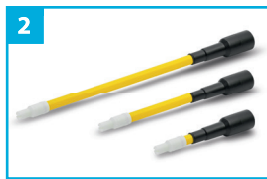
Plug & Play

All cable and hose connections are prepared to make the set-up easy.

Wide range of accessories for perfect results

The perfect accessories for individual requirements!

For every task, the right tool – the system can be easily adjusted according to your requirements for professional coating results.



One for all - the Flexibility



1 Quick release coupling

A variety of quick release couplings guarantee the optimal solution for your application. Depending on the hose diameter, the matching adapter is available.

2 Nozzle-extension

Perfectly suitable for extra deep and hard-to-reach work pieces such as radiators, cabinets, etc. Available in different lengths to suit your application.

3 Nozzles

Whether flat jet or round jet, with the WAGNER nozzle selection you will find the best nozzle to obtain the best results.

4 Powder hose

Powder hoses with different diameters and integrated grounding lead optimize powder consumption and the coating quality.

5 CoronaStar

The CoronaStar is a helpful tool to reduce the "orange peel effect". Following a simple plugin-principle, such accessories can be installed quickly and easily.

Accessories

Description	Item number
Basic units	
Manual Spray Gun PEM-X1	2322587
Manual Spray Set X1	2331090
Manual Unit SPRINT AF USA	2329487
Manual Unit SPRINT 60L USA	2329491
Dual Manual Set SPRINT	2331417
Conversion Set SPRINT 60L V	2309276
Conversion Set SPRINT 3L V	2309277
Manual CupGun PEM-X1 CG	2322588
CupGun Set PEM-X1 CG	2328172
Controller EPG-Sprint X	2324731
ColorSelect X	CSX-2013
Accessories	
Trolley Front Caster Set	2324869
Recipe Sticker	2331223
CoronaStar PEM-X1 assy	2322868
Wedge tool X1	2324205
Wedge tool X1 + 20 wedges	2324124
Spare parts starter kit X1	2331976
Nozzle Extension X1 EXT150	2323366
Nozzle Extension X1 EXT300	2323356
Nozzle Extension X1 EXT500	2323338
Hose Connector D10-D12 assy	2322761
Hose Connector D8-D10 assy	2322768
Gun Holder	2330599
Gun Holder f. Cabinet	2332139
Console	2331558
Wallmount w. Console	2330223
Powder Measuring Adapter X1 assy	2325320
Hopper Kit for ColorSelect X 60 liter	HOP-0060
Hopper Kit for ColorSelect X 3 liter	HOP-0003
Spare parts	
Gun Hook X1 SP	2320330
PT-Pan head screw, self-tapping, Torx	2316896
Outer Nut X1	2320464
Cascade neg. X1 SP	2324136
1x Cup with Cover SP	2324139
5x Cup with Cover SP	2324140
Injector holder Sprint complete	2307117
Electrode Holder X1 R SP	2322490
Electrode Holder X1 R + Spray Nozzle	2322493
Electrode Holder X1 F SP	2322529

Description	Item number
Wear parts	
Wedge X1	2320488
Flat Spray Nozzle X1 assy	2321976
Deflector Cone D18 assy	2321981
Deflector Cone D25 assy	2321980
Deflector Cone D34 assy	2321171
Deflector cone sleeve X1	2320503
Round Spray Nozzle X1 VL SP	2324148
Flat Spray Nozzle X1 VL SP	2324147
Electrode X1 VL150 SP	2324144
Electrode X1 VL300 SP	2324145
Electrode X1 VL500 SP	2324146
Nozzle Insert X1 EXT F	2323401
Nozzle Insert X1 EXT R	2323461
Contact X1 EXT assy	2323361
Electrode CoronaStar X1 SP	2322835
Others	
Tribo Manual Gun PEM-T3	351019
Tribo Cup Gun PEM-TG3	351036

WAGNER is a global leader...

in liquid and powder coating application technology, from manually operated units to completely automated systems. We are strongly committed to innovative marketing, advanced engineering, and quality manufacturing. Headquartered in Markdorf, Germany, WAGNER has manufactured and distributed liquid application equipment since the 1950's and powder application equipment since the 1970's. At our U.S. Headquarters in Elgin, IL, we have state-of-the-art laboratories used for product demonstrations, distribution training, and coating consultation.

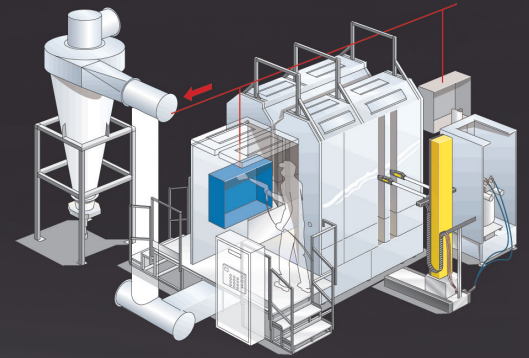
Modern Powder Logistics

SuperCenter



Automatic Booth Systems

SuperCube



Modular Control Systems

Profitech M



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