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1 GENERAL INFORMATION

1.1 PREFACE

The operating manual contains information about safely operating, maintaining, cleaning and repairing the device. The operating manual is part of the device and must be available to operating and service staff. Operating and service personnel should be instructed according to the safety instructions. The device may only be operated in compliance with this operating manual. This equipment can be dangerous if it is not operated according to the instructions in this operating manual. Electrostatic manual coating systems may only be operated by qualified personnel.

1.2 WARNINGS, NOTICES, AND SYMBOLS IN THIS OPERATING MANUAL

Warning instructions in this operating manual highlight particular dangers to users and to the device and state measures for avoiding the hazard. These warning instructions fall into the following categories:

Danger - immediate risk of danger. Non-observance will result in death or serious injury.

Warning - possible imminent danger. Non-observance may result in death or serious injury.

Caution - a possibly hazardous situation. Non-observance may result in minor injury.

Notice - a possibly hazardous situation. Non-observance may result in damage to property.

Note - provides information about particular characteristics and how to proceed.
1.3 LANGUAGES

The operating manual is available in the following languages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>German</td>
<td>2354919</td>
</tr>
<tr>
<td>French</td>
<td>2354921</td>
</tr>
<tr>
<td>Spanish</td>
<td>2354923</td>
</tr>
<tr>
<td>Chinese</td>
<td>2354925</td>
</tr>
<tr>
<td>English</td>
<td>2354920</td>
</tr>
<tr>
<td>Italian</td>
<td>2354922</td>
</tr>
<tr>
<td>Russian</td>
<td>2354924</td>
</tr>
<tr>
<td>Chinese</td>
<td>2354925</td>
</tr>
</tbody>
</table>

1.4 ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stk</td>
<td>Number of pieces</td>
</tr>
<tr>
<td>Pos</td>
<td>Position</td>
</tr>
<tr>
<td>K</td>
<td>Marking in the spare parts lists</td>
</tr>
<tr>
<td>Order No.</td>
<td>Order number</td>
</tr>
<tr>
<td>ET</td>
<td>Spare part</td>
</tr>
</tbody>
</table>
# 1.5 TERMINOLOGY FOR THE PURPOSE OF THIS MANUAL

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning</td>
<td>Manual cleaning of devices and device parts with cleaning agent.</td>
</tr>
<tr>
<td>Flushing</td>
<td>Internal flushing with compressed air of parts carrying paint.</td>
</tr>
</tbody>
</table>

**Staff qualifications**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trained person</td>
<td>Is instructed in the tasks assigned to him/her, the potential risks associated with improper behavior as well as the necessary protective devices and measures.</td>
</tr>
<tr>
<td>Electrically trained person</td>
<td>Is instructed by an electrician about the tasks assigned to him/her, the potential risks associated with improper behavior as well as the necessary protective devices and measures.</td>
</tr>
<tr>
<td>Electrician</td>
<td>Can assess the work assigned to him/her and detect possible hazards based on his/her technical training, knowledge and experience in relevant provisions.</td>
</tr>
<tr>
<td>Skilled person in accordance with TRBS 1203 (2010)</td>
<td>A person, who, based on his/her technical training, experience and recent vocational experience, has sufficient technical knowledge in the areas of explosion protection, protection from pressure hazards and electric hazards (if applicable) and is familiar with the relevant and generally accepted rules of technology so that he/she can inspect and assess the status of devices and coating systems based on workplace safety.</td>
</tr>
</tbody>
</table>
2 CORRECT USE

2.1 DEVICE TYPE

Manual powder system for manual coating of grounded work pieces

2.2 TYPE OF USE

The Sprint XE manual system is designed for single and serial coatings for industry and trade. Any other form of use is considered non-intended use. WAGNER disclaims liability for any damage resulting from non-intended use. Electrostatic manual coating systems may only be used in spray areas equipped in accordance with EN 12981 or under equivalent ventilation conditions. The components of the three different versions of the Sprint XE manual system (Airfluid version, 60 L tank version) are mutually compatible.

2.3 USE IN POTENTIALLY EXPLOSIVE AREAS

In explosion hazard areas, only use approved explosion-proof electrical devices. This manual powder system is suitable for processing industrial powder paints for coating electrically conductive objects and can be used in potentially explosive atmospheres (Zone 22). (See Chapter 3.1 Explosion Protection Identification).
2.4 SAFETY PARAMETERS

WAGNER accepts no liability for any damage arising from incorrect use.

→ Electrostatic manual coating systems may only be operated in an undamaged condition. Damaged devices must be decommissioned immediately and repaired immediately.
→ Use the device only to work with the products recommended by WAGNER.
→ Operate only the device as a whole.
→ Do not deactivate safety fixtures.
→ Spare parts and accessories may have safety-relevant properties. Use only WAGNER original spare parts and accessories.

The manual powder system is only suitable for the application of powder lacquer. J. Wagner AG forbids any other use!

The manual powder system may only be operated under the following conditions if:
→ the operating staff have previously been trained on the basis of this operating manual,
→ the safety regulations listed in this operating manual are observed,
→ the operating, maintenance and repair information in this operating manual is observed,
→ and the statutory requirements and accident prevention regulations standards in the country of use are observed.

2.5 PROCESSIBLE WORKING MATERIALS

- Types of powder which can be charged electrostatically
- Metallic powder
2.6 REASONABLY FORESEEABLE MISUSE

- Coating work pieces which are not grounded
- Use of damp powder lacquer
- Working with liquid coating products
- Incorrectly set values for powder discharge
- Incorrectly set electrostatic values
- Use of defective components and accessories
- Use for foodstuffs
- Use in the pharmaceutical sector
- Use with non-permissible control units and spray guns

2.7 RESIDUAL RISKS

Residual risks are risks which cannot be ruled out even in the event of correct use.
If necessary, warning and prohibition signs at the relevant points of risk indicate residual risks.

<table>
<thead>
<tr>
<th>Residual risk</th>
<th>Source</th>
<th>Consequences</th>
<th>Specific measures</th>
<th>Lifecycle phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact with powder lacquers and cleaning agents</td>
<td>Handling powder lacquers and cleaning agents</td>
<td>Skin irritations, allergies</td>
<td>Wear protective clothing, Observe safety data sheets</td>
<td>Operation, maintenance, disassembly</td>
</tr>
<tr>
<td>Powder lacquer in air outside the defined working area</td>
<td>Lacquering outside the defined working area</td>
<td>Inhalation of substances hazardous to health</td>
<td>Observe work and operation instructions</td>
<td>Operation, maintenance</td>
</tr>
</tbody>
</table>
3 IDENTIFICATION

3.1 EXPLOSION PROTECTION IDENTIFICATION

3.1.1 TROLLEY IDENTIFICATION

Device type: Airfluid XE trolley/60 L XE trolley  
Manufacturer: J. Wagner AG  
CH - 9450 Altstätten  
II 3D Dc T100 °C  
CE: European Communities  
Ex: Symbol for explosion protection  
II: Device class II  
3: Category 3  
D: Ex-atmosphere dust  
Dc: Device protection level, suitable for use in Zone 22  
T100 °C: Maximum surface temperature

3.1.2 CONTROL UNIT IDENTIFICATION

The device is suited for use in potentially explosive areas, in accordance with Test Certificate PTB 12 ATEX 5001.

Device type: EPG-Sprint XE  
Manufacturer: J. Wagner AG  
CH - 9450 Altstätten  
II 3(2)D  
CE: European Communities  
0102: Number of notified body which issues the recognition of quality assurance in production  
Ex: Symbol for explosion protection  
II: Device class II  
3: Category 3 (Zone 22)  
(2): Impact on equipment of category 2  
D: Ex-atmosphere dust
3.1.3 SPRAY GUN IDENTIFICATION

The device is suited for use in potentially explosive areas, in accordance with Test Certificate PTB 12 ATEX 5002.

Gun type: PEM-X1
Manufacturer: J. Wagner AG
CH - 9450 Altstätten

CE: European Communities
0102: Number of notified body which issues the recognition of quality assurance in production
Ex: Symbol for explosion protection
II: Device class II
2: Category 2
D: Ex-atmosphere dust
2mJ: Maximum ignition energy 2 mJ

The EC-type examination certificates are listed in Chapter 15.4.

3.2 PERMISSIBLE DEVICE COMBINATIONS

Only use the Sprint XE manual system with the following guns and control units:

<table>
<thead>
<tr>
<th>Control units</th>
<th>Guns</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPG-Sprint XE</td>
<td>PEM-X1 Corona spray gun, PEM-X1 CG</td>
</tr>
<tr>
<td></td>
<td>PEM-C4 Corona spray gun</td>
</tr>
<tr>
<td></td>
<td>PEM-C4-Ergo Corona spray gun</td>
</tr>
<tr>
<td></td>
<td>PEM-C4-Ergo Corona spray gun FM USA</td>
</tr>
<tr>
<td></td>
<td>PEM-T3 Tribo spray gun</td>
</tr>
</tbody>
</table>

Permissible device combinations for the USA and Canada, see Chapter 15.5 "FM Approval".
3.3 TYPE PLATES

3.3.1 TYPE PLATE OF TROLLEY

<table>
<thead>
<tr>
<th>Typ:</th>
<th>Manual Unit SPRINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type:</td>
<td>Handanlage SPRINT</td>
</tr>
</tbody>
</table>

- SPRINT Airfluid XE  2355400  230 VAC  50 Hz
- SPRINT Airfluid XE Jap.  2355800  100 VAC  50/60 Hz
- SPRINT 60L XE  2355403  90-250 VAC  47-63 Hz
- SPRINT Airfluid XE USA  2355402  115 VAC  60 Hz
- SPRINT 60L XE USA  2355404  90-250 VAC  47-63 Hz

- Serial no.   Serie Nr.:
- Year of manufacture: Baujahr:

3.3.2 TYPE PLATE OF CONTROL UNIT

<table>
<thead>
<tr>
<th>Typ:</th>
<th>EPG-SPRINT XE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type / Ty.</td>
<td>EPG-SPRINT XE</td>
</tr>
</tbody>
</table>

- Acceptable equipment combination see operator manual
- Zulässige Gerätekombination siehe Betriebsanleitung

<table>
<thead>
<tr>
<th>Type / Ty.</th>
<th>EPG-SPRINT XE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial No.</td>
<td></td>
</tr>
<tr>
<td>Year of manufacture: Baujahr:</td>
<td></td>
</tr>
<tr>
<td>Voltage:</td>
<td></td>
</tr>
<tr>
<td>Sperrkreis:</td>
<td></td>
</tr>
<tr>
<td>Line Power:</td>
<td></td>
</tr>
<tr>
<td>Eingangsleistung: max. 120 W</td>
<td></td>
</tr>
<tr>
<td>Prot. Class:</td>
<td>IP64</td>
</tr>
<tr>
<td>Schutzart:</td>
<td></td>
</tr>
<tr>
<td>Progn. Class:</td>
<td></td>
</tr>
</tbody>
</table>
3.3.3 TYPE PLATE OF POWDER SPRAY GUN

PEM-X1  Serial Number: 2309729
Made in Switzerland
PTB 12 ATEX 5002 EN 50050-2
For Electro. Fin. Appl. CL. II Spray Materials
Output 100kV max.
Ambient Temperature 45 °C
In accordance with control document: 2309729
4 GENERAL SAFETY INSTRUCTIONS

4.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

→ Keep this operating manual at hand near the device at all times.
→ Always follow local regulations concerning occupational safety and accident prevention.

4.1.1 ELECTRICAL DEVICES AND EQUIPMENT

→ To be provided in accordance with the local safety requirements with regard to the operating mode and ambient influences.
→ May only be maintained by skilled electricians.
→ Must be operated in accordance with the safety regulations and electrotechnical regulations.
→ Must be repaired immediately in the event of problems.
→ Must be decommissioned if they pose a hazard.
→ Must be de-energized before work is commenced on active parts.
→ Secure the device against being switched back on without authorization. Inform staff about planned work.
→ Observe electrical safety regulations.

4.1.2 PERSONNEL QUALIFICATIONS

→ Ensure that the device is operated, maintained and repaired only by trained persons.

4.1.3 SAFE WORK ENVIRONMENT

→ The floor in the working area must be electrostatically conductive (measurements according to EN 1081 and EN 61340-4-1).
→ The footwear worn by the operators must comply with the requirements of EN ISO 20344. The measured insulation resistance must not exceed 100 megohms.
→ The protective clothing, including gloves, must comply with the requirements of EN ISO 1149-5. The measured insulation resistance must not exceed 100 megohms.
→ The powder release must be electrically interlocked with the powder spray system’s exhaust air equipment.
→ Excess coating product (overspray) must be collected up safely.
→ Ensure that there are no ignition sources such as naked flames, sparks, glowing wires, or hot surfaces in the vicinity. Do not smoke.
→ Maintain sufficient quantities of suitable fire extinguishers and ensure that they are serviceable.
→ The operating company must ensure that an average concentration of powder lacquer in the air does not exceed 50% of the lower explosion limit (LEL = max. permitted concentration of powder to air). If no reliable LEL value is available, the average concentration must not exceed 10 g/m³.
4.2 SAFETY INSTRUCTIONS FOR STAFF

→ Always follow the information in this manual, particularly the general safety instructions and the warning instructions.
→ Always follow local regulations concerning occupational safety and accident prevention.
→ Under no circumstances may people with pacemakers enter the area where the high-voltage field between the spray gun and the work piece to be coated builds up!

4.2.1 SAFE HANDLING OF WAGNER POWDER SPRAY DEVICES

→ Do not point spray guns at people.
→ Before all work on the device, in the event of work interruptions and functional faults:
  - Switch off the energy/compressed air supply.
  - Secure the spray gun against actuation.
  - Relieve pressure on spray gun and device.
  - In case of functional faults: Identify and correct the problem, proceed as described in the “Fault Rectification” chapter.

4.2.2 GROUNDING THE DEVICE

The electrostatic charge may, in certain cases, give rise to electrostatic charges on the device. This may result in the formation of sparks or flames when discharging.
→ Ensure that the device is grounded before each coating process.
→ All the system’s conductive elements, such as floors, walls, ceilings, protective grating, transport equipment, work pieces, powder tanks, automatic moving devices or construction parts etc. in the spray area, with the exception of parts which carry high-voltage during operation, must be connected to the grounding system.
Parts of the booth must be grounded in accordance with EN 12981.
→ Ensure that all persons inside the working area are grounded, e.g., by wearing electrostatically conductive shoes.
→ The functionality of grounding cables must be checked regularly (see EN 60204).

4.2.3 PRODUCT HOSES

→ Only use an original WAGNER powder hose.
4.2.4 CLEANING

- Before starting cleaning or any other manual work, the high-voltage in the spray area must be shut down and locked to prevent it from being switched back on.
- Lock the compressed air supply and decompress the device.
- Secure the device against being switched back on without authorization.
- Use only electrically conducting and grounded tanks for cleaning fluids.
- Preference should be given to non-flammable cleaning fluids.
- Flammable cleaning liquids may only be used if, after switching off the high-voltage, all high-voltage conducting parts are discharged to a discharge energy of less than 0.24 mJ before they can be accessed.
- Most flammable solvents have an ignition energy of around 0.24 mJ or 60 nC.
- The cleaning agent’s flash point must be at least 15 K above the ambient temperature.
- Only mobile industrial vacuum cleaners of design 1 (see EN 60335-2) may be used to remove dust deposits.

4.2.5 HANDLING POWDER LACQUERS

- When preparing or processing the powder and cleaning the device, take note of the processing regulations, laid down by the manufacturer of the powder lacquers, being used.
- Take note of the manufacturer’s instructions and the relevant environmental protection regulations when disposing of powder lacquers.
- Implement the prescribed safety measures, in particular the wearing of safety glasses and safety clothing as well as the use of protective hand cream.
- Use a mask or breathing apparatus if necessary.
- To ensure sufficient protection of health and the environment, only operate the device in a powder booth or on a spray wall with activated ventilation (exhaust air).
4.3 PROTECTIVE AND MONITORING EQUIPMENT

→ Protective and monitoring equipment must not be removed, modified or rendered unusable.
→ Regularly check for perfect functioning.
→ If defects are detected on protective and monitoring equipment, the system must not be operated until these defects are remedied.
5 DESCRIPTION

5.1 AREAS OF APPLICATION

The manual system is designed for single and serial coatings for industry and trade. The following WAGNER manual guns can be used with the manual system:

- PEM-X1 Corona spray gun
- PEM-C4 Corona spray gun
- PEM-C4-Ergo Corona spray gun
- PEM-C4-Ergo Corona spray gun FM (US version)
- PEM-T3 Tribo spray gun

To alternately operate a Corona or a Tribo gun, both guns can be connected to the system at the same time through a switchbox, which is available as an accessory. For more details see Chapter 12.5.

5.1.1 OPERATION WITH TRIBO GUN

When operating the manual system with a Tribo gun, the set values (total air volume, feed air volume, Tribo air volume) in recipes 1-4 must be adjusted. The setting of the values is described in the operating manual of the EPG-Sprint XE control unit.

The set values for operating with the Tribo gun should be saved to individually selected recipe locations.

When operating with a Tribo gun, parameter C11 on the EPG-Sprint XE control unit must be changed to Tribo. Please refer to the control unit operating manual for the procedure.

5.1.2 OPERATION WITH CORONA OR TRIBO GUN

To alternately operate a Corona or a Tribo gun, both guns can be connected to the system at the same time through a switchbox, which is available as an accessory. For more details see Chapter 12.5.

The set values for operating with the Tribo gun should be saved to individually selected recipe locations.
5.2 DESIGN VARIANTS

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2355400</td>
<td>Sprint Airfluid XE manual system (standard version)</td>
</tr>
<tr>
<td>2355403</td>
<td>Sprint 60 L XE manual system (standard version)</td>
</tr>
<tr>
<td>2355402</td>
<td>Sprint Airfluid XE manual system (US version)</td>
</tr>
<tr>
<td>2355404</td>
<td>Sprint 60 L XE manual system (US version)</td>
</tr>
<tr>
<td>2355800</td>
<td>Sprint Airfluid XE manual system (Japanese version)</td>
</tr>
</tbody>
</table>

When working with powders that are difficult to feed, the Sprint 60 L XE manual system can be converted into a variant with a vibrator table (see Chapter 12.12).

5.3 SCOPE OF DELIVERY

<table>
<thead>
<tr>
<th>Stk</th>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>see Chapter 13.2</td>
<td>Sprint Airfluid XE manual system</td>
</tr>
<tr>
<td>1</td>
<td>see Chapter 13.3</td>
<td>Sprint 60 L XE manual system without tank</td>
</tr>
</tbody>
</table>

The standard equipment includes:

<table>
<thead>
<tr>
<th>Stk</th>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2354919</td>
<td>Operating manual, German</td>
</tr>
<tr>
<td>1</td>
<td>see Chapter 1.3</td>
<td>Operating manual in local language</td>
</tr>
</tbody>
</table>

5.4 PERMITTED ACCESSORIES

Only the accessories listed in the "Accessories" chapter of this operating manual may be connected to the Sprint XE manual system. The accessories listed in the chapter "Accessories" were included in the EC type examination and are approved for use with the manual system.
5.5 TECHNICAL DATA

Dimensions:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1120 mm; 44.10 inches</td>
</tr>
<tr>
<td>Width</td>
<td>595 mm; 23.43 inches</td>
</tr>
<tr>
<td>Depth</td>
<td>740 mm; 29.13 inches</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 40 kg; 88.18 lbs</td>
</tr>
<tr>
<td>Maximum box size</td>
<td>420x420x400 mm; 16.54x16.54x15.75 inches</td>
</tr>
<tr>
<td>Maximum filling weight of box</td>
<td>30 kg; 66.14 lbs</td>
</tr>
</tbody>
</table>

Electrical:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains (AC) input terminal</td>
<td>90 VAC-250 VAC</td>
</tr>
<tr>
<td>Frequency</td>
<td>47 Hz-63 Hz</td>
</tr>
<tr>
<td>Input power</td>
<td>maximum 120 W</td>
</tr>
<tr>
<td>Mains (AC) output terminal</td>
<td>Vibrator motor maximum 70 W</td>
</tr>
<tr>
<td>Output voltage spray gun</td>
<td>maximum 22 Vpp</td>
</tr>
<tr>
<td>Output current spray gun</td>
<td>maximum 0.9 A</td>
</tr>
<tr>
<td>Corona current limitation</td>
<td>5 μA-120 μA (adjustable)</td>
</tr>
<tr>
<td>Tribo current cut off</td>
<td>greater than 12 μA (ATEX: switching off the unit)</td>
</tr>
</tbody>
</table>

Pneumatic:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed air connection</td>
<td>G1/4&quot;</td>
</tr>
<tr>
<td>Connection hose diameter</td>
<td>18.5 x 12.5 mm</td>
</tr>
<tr>
<td>Pressure range input air</td>
<td>0.6-0.8 MPa; 6-8 bar; 87-116 psi</td>
</tr>
<tr>
<td>Air volume</td>
<td>maximum 15 m³/h; 529.63 cf/h</td>
</tr>
<tr>
<td>Sum of feed and dosing air</td>
<td>2-12 m³/h; 70.6-423.7 cf/h</td>
</tr>
<tr>
<td>Gun air</td>
<td>0.05-4.5 m³/h; 1.765-158.9 cf/h</td>
</tr>
<tr>
<td>WAGNER injector type</td>
<td>PI-F1, HiCoat ED pump F, PI-F1-S</td>
</tr>
<tr>
<td>Compressed air quality according to ISO 8573.1</td>
<td>6.5.2 according to ISO 8573.1, 2010</td>
</tr>
</tbody>
</table>

WARNING

Outgoing air containing oil!
Risk of poisoning if inhaled.
Insufficient paint application quality.

→ Provide compressed air free from oil and water
(Quality Standard 6.5.2 according to ISO 8573.1, 2010)
6.5.2 = particle density ≤ 5 mg/m³; pressure dew point ≤ +7 °C;
oil content ≤ 0.1 mg/m³
Displays:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-voltage</td>
<td>0-100 kV resolution 10 kV</td>
</tr>
<tr>
<td>Corona current</td>
<td>0-120 μA resolution 5-20 μA</td>
</tr>
<tr>
<td>Tribo current</td>
<td>0-5 μA resolution 0.5 μA</td>
</tr>
<tr>
<td>Recipes</td>
<td>50 preset recipes</td>
</tr>
<tr>
<td>Switch over from Tribo to Corona</td>
<td>Automatic</td>
</tr>
<tr>
<td>Connectable spray gun types</td>
<td>WAGNER guns PEM-X1, PEM-C4, PEM-C4-Ergo, PEM-C4-Ergo FM, PEM-T3</td>
</tr>
</tbody>
</table>

Ambient conditions:
If low-melting powders are used, the ambient temperature may have to be lower than 30 °C; 86 °F.

Volume measures:
for volumes specified in Nm³ (standard cubic meters). One cubic meter of a gas at 0 °C and 1.013 bar is called norm cubic meter.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
<td>5-40 °C; 41-104 °F</td>
</tr>
<tr>
<td>Noise development</td>
<td>&lt; 63 dB (mains pressure 0.6 MPa; 6 bar; 87 psi)</td>
</tr>
</tbody>
</table>
5.6 FUNCTIONING OF THE MANUAL POWDER SYSTEM

5.6.1 DESCRIPTION OF SPRINT AIRFLUID XE

The feed unit (4) is inserted directly into the original bundle. The powder is fed through the powder injector (5) to the powder spray gun (3). Due to the special arrangement of the suction crown and the vibration of the tank, a homogeneous powder/air mixture is generated and maintained during the entire duration of the powder feed. The powder quantity and the electrostatic charge of the color powder are regulated by the control unit (2). The fluid air setting is done using the throttle (6).

1. Equipment trolley
2. EPG-Sprint XE control unit
3. PEM-X1 manual gun
4. ST 550/10 suction tube
5. PI-F1 powder injector
6. Fluid air throttle
7. Vibration table
5.6.2 DESCRIPTION OF SPRINT 60 L XE TANK (WITHOUT VIBRATOR TABLE)

Function:

Through the powder injector (5), the powder is transported from the tank (4) to the spray gun (3). By feeding fluid air into the fluid base of the powder tank (4), a homogeneous powder/air mixture is generated and maintained during the entire process of the powder feed from the tank. The powder quantity and the electrostatic charge of the color powder are regulated by the control unit (2). The fluid air setting is done using the throttle (6).

Note:

We recommend using a vibrator table when working with powders that are difficult to feed (see Chapter 12.12).
6 ASSEMBLY AND COMMISSIONING

6.1 TRAINING ASSEMBLY/COMMISSIONING STAFF

**WARNING**

Incorrect installation/operation!
Risk of injury and damage to the device.

→ The commissioning staff must have the technical skills to safely undertake commissioning.
→ When commissioning and for all work, read and follow the operating manual and safety regulations for the additionally required system components.

6.2 ASSEMBLING THE TROLLEY

The manual system’s trolley is supplied unassembled for transport reasons. It must be assembled as described below.

**Procedure:**

1. Open transport packaging with care and carefully take all single parts out of packaging.
2. Place lower trolley section (1) on a clean, level surface.
3. Place upper trolley section (2) on the two guide sleeves on the lower trolley section (1), press down gently until stop is reached and use nuts and bolts (see detail) to screw to lower trolley section (tightening torque 25 Nm; 18.44 lb/ft).
4. Mount the gun holder (3) (see separate assembly manual).
6.3 ASSEMBLING THE CONTROL UNIT

Procedure:

1. Carefully take control unit (1) out of packaging and use the supplied screws (2) to screw into the holes drilled in the angle bracket (3). Mount the control unit such that it is flush with the cover at the front.

6.4 CONNECTION REQUIREMENTS

The assembly of the manual powder system is the same for the Corona spray gun and for the Tribo spray gun.

The manual system is equipped with a filter water separator (4) as a standard feature. Nevertheless, a high compressed air quality is still required for safe operation of the system. The plant operator is responsible ensuring the required compressed air quality.

**WARNING**

Outgoing air containing oil!
Risk of poisoning if inhaled. Insufficient paint application quality.

→ Provide compressed air free from oil and water
(Quality Standard 6.5.2 according to ISO 8573.1, 2010)
6.5.2 = particle density ≤ 5 mg/m³; pressure dew point ≤ +7 °C; oil content ≤ 0.1 mg/m³
**WARNING**

Danger from electric current!
Risk of injury and damage to the device.

→ Switch off main switch (1), on the back side of the device, before connecting the device.

---

**CAUTION**

Missing cover!
Protection class of device not guaranteed.

→ The mains output socket must remain closed in manual systems without vibrator motor with the cover closed.

---

**without vibrator motor:**

![Diagram without vibrator motor](P_02717)

**with vibrator motor:**

![Diagram with vibrator motor](P_02638)
6.5 CONNECTING THE AIRFLUID MANUAL SYSTEM

1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.  
9.  
10. 
11. 
12.
Procedure:

1. Connect the hose (black) for mains pressure.
2. Plug in the control cable from the solenoid valve on the control unit.
3. Connect the dosing air hose (blue).
4. Connect the feed air hose (red).
5. Connect the fluid air hose (black).
   Bundle the three hoses with Velcro cable binders.
6. Connect the powder feed hose.
7. Plug in the gun connection cable on the control unit.
8. Connect the hose (transparent) for the atomizing or Tribo air.
   Bundle the two hoses and the gun cable with Velcro cable binders.
9. Connect the compressed air hose (12.5 x 18.5 mm, Order No. 9981951) to the compressed air connection (G1/4") on the manual system.
10. Connect the trolley grounding cable to the control unit.
    Connect the control unit’s grounding cable with the signal ground!
11. Plug in the connection cable from the vibrator motor on the control unit.
    Fasten the connection cable to the trolley using the mounting material provided.
12. Plug in the control unit mains cable.
13. Connect mains cable to the power supply.

**WARNING**

Danger from electric current!
Risk of injury and damage to the device.

→ Switch off main switch (1), on the back side of the device, before connecting the device.
6.6 CONNECTING THE 60 L TANK MANUAL SYSTEM
Procedure:

1. Place the powder tank on the trolley.
2. Connect the grounding cable to the grounding connection of the powder tank (Detail A).
3. Attach injector to powder tank.
4. Connect the hose (black) for mains pressure.
5. Plug in the control cable from the solenoid valve on the control unit.
6. Connect the dosing air hose (blue).
7. Connect the feed air hose (red).
8. Connect the fluid air hose (black) to the control unit. Pull it through eyelet (Detail B) and connect it to the tank (Detail A).
   Bundle the three hoses with Velcro cable binders.
9. Connect the powder feed hose.
10. Plug in the gun connection cable on the control unit.
11. Connect the hose (transparent) for the atomizing or Tribo air.
    Bundle the two hoses and the gun cable with Velcro cable binders.
12. When the manual system is equipped with a vibrator table, pull the hose (black) for the vibrator motor compressed air supply upwards and connect it to the solenoid valve.
13. Connect exhaust air hose to the connection on the powder tank.
    The other end of the exhaust air hose must be routed to the extraction unit of the powder spray booth.
14. Connect the compressed air hose (12.5 x 18.5 mm, Order No. 9981951) to the compressed air connection (G1/4") on the manual system.
15. Connect the trolley grounding cable to the control unit.
    Connect the control unit’s grounding cable with the signal ground!
16. Attach the cover to the mains output terminal from the controller.
17. Plug in the control unit mains cable.
18. Connect mains cable to the power supply.

**WARNING**

Danger from electric current!
Risk of injury and damage to the device.

→ Switch off main switch (1), on the back side of the device, before connecting the device.
6.7 GROUNDING

DANGER

No Grounding!
Risk of explosion and risk of electric shock.

→ Electrostatic control units and the associated spray equipment may only be connected to mains supplies with a protective conductor connection (PE conductor)!

WARNING

Heavy powder mist if grounding is insufficient!
Danger of poisoning.
Insufficient paint application quality.

→ Ground all device components.
→ Ground the work pieces to be coated.

For security reasons the manual system must be properly grounded. Normally this is done via the mains cable.

Good grounding of the work piece is also necessary for optimum powder coating. It is important to keep the earth cables as short as possible. Earth cables of an excessive length must be shortened. Earth cables of an excessive length must never be wound up on a roller.

A poorly grounded work piece causes:
- dangerous electric charging of the work piece,
- very poor wrap-around,
- uneven coating,
- back spraying to the spray gun, i.e. contamination.

Prerequisites for perfect grounding and coating are:
- Clean work piece suspension.
- Grounding of spray booth, conveyor system and suspension on the building side in accordance with the operating manuals or the manufacturer’s information.
- Grounding of all conductive parts within the working area.
- The grounding resistance of the work piece may not exceed 1 MΩ (megohm). (Resistance to ground measured at 500 V or 1000 V).
- The footwear worn by the operators must comply with the requirements of EN ISO 20344. The measured insulation resistance must not exceed 100 MΩ (megohms).
The protective clothing, including gloves, must comply with the requirements of EN ISO 1149-5. The measured insulation resistance must not exceed 100 MΩ (megohms).

Sparks between conveyor, conveyor hooks (hangers) and work piece can occur if electric contact points between conveyor, conveyor hooks (hangers) and work piece are not sufficiently cleaned and therefore the work pieces are not sufficiently grounded! These sparks can cause heavy radio frequency interference (EMC).

6.7.1 GROUNDING THE POWDER COATING SYSTEM

1 Only use mains cables with grounding strand!
2 Connect the trolley's grounding cable to the grounding connection of the control unit!
3 Connect the control unit's grounding cable with the signal ground!
4 Connect grounding cable to an uncoated metal part of the booth!
5 Remove all paint from hooks and other hanger parts!
6 Wear electrostatically conductive gloves!
7 Wear electrostatically conductive shoes!
8 The floor must be electrostatically conductive!
7 OPERATION

7.1 TRAINING THE OPERATING STAFF

**WARNING**

Incorrect operation!
Risk of injury and damage to the device.

→ The operating staff must be qualified to operate the entire system.
→ Before work commences, the operating staff must receive appropriate system training.
→ The operating staff must be familiar with the provisions of European standard DIN EN 50050-2.

7.2 SAFETY INSTRUCTIONS

**WARNING**

Incorrect operation!
Risk of injury and damage to the device.

→ If contact with powder products or cleaning agents causes skin irritation, appropriate precautionary measures must be taken, e.g., wearing protective clothing.
→ The footwear worn by operating staff must comply with EN ISO 20344. The measured insulation resistance must not exceed 100 megohms.
→ The protective clothing, including gloves, must comply with EN ISO 1149-5. The measured insulation resistance must not exceed 100 megohms.

**DANGER**

High-voltage field!
Danger to life from malfunction of heart pacemakers.

Make sure that persons with pacemakers:
→ Do not work with the electrostatic spray gun.
→ Don't stay inside the area of the electrostatic spray gun/work piece.
### CAUTION

**Electrostatic discharges!**

- Avoid directly spraying the control unit and the trolley.
7.3 OPERATION OF THE CONTROL UNIT

1 Illuminated display: "High-voltage"
   - Lights up green
   - Display range: 0-100 kV
     Resolution 10 kV
   - Single LED display: Nominal voltage
   - Bar display: Working voltage

2 Illuminated display: "Corona or Tribo Current"
   - Lights up green
   Tribo scale:
     - When a Tribo gun is connected and selected
     - Bar display: When powder feed is activated
     - Display range: 0-5 μA
       Resolution 0.5 μA

   Corona scale:
     - When a Corona gun is connected and selected
     - Display and adjusting range: 0 [5]-120 μA,
       0 [5]-20 μA resolution 5 μA
       20-40 μA resolution 10 μA
       40-120 μA resolution 20 μA
     - Single LED display: "Trigger Point of Current Limitation"
     - Bar display: Corona current
3  Display: "Tribo Gun"
   • Lights up when a Tribo gun is connected and selected

4  Display: "Corona Gun"
   • Lights up when a Corona gun is connected and selected

5  Push button: recipe for "Surface Parts"

6  Push button: recipe for "Second Coating"

7  Push button: recipe for "Profiles"

8  Push button: recipe for "Double Click"
   • To access the recipe, press the trigger lever on the spray gun twice in quick succession and hold it down

9  LED display: recipe for "Surface Parts"
   • Lights up green when the recipe for surface part is selected

10 LED display: recipe for "Second Coating"
   • Lights up green when the recipe for "Second Coating" is selected

11 LED display: recipe for "Profiles"
   • Lights up green when the recipe for profile part is selected

12 LED display: recipe for "Double Click"
   • Lights up green, when the recipe for "Double Click" is selected

13 LED display: "Fault"
   • Lights up, when there is a fault on the device

14 LED display: "Automatic Gun"
   • Lights up, when an automatic gun is connected

15 Push button: "Standby"
   • To switch into standby mode
   • High-voltage and powder feed cannot be activated in this mode
   • To reactivate normal mode, press the button again

16 LED display: "Standby"
   • Lights up when the unit is in standby mode
17 **Push button: "Flush"**
- To activate the injector and the hose flushing

18 **LED display: "Flush"**
- Lights up blue, when the flush function is activated

19 **LED display: 7 segments, three-digit number**
- Indicates the exact value depending on the activated function:
  - "Total air volume; atomizing, ionizing and Tribo air; additional recipes; high-voltage; current limitation; powder quantity"
- Display showing error number in the event of warnings and malfunctions

20 **Push button: "Total Air Volume"**
- To activate the function, the value is precisely adjusted with rotary controller 24 and is indicated in LED display 19
- Adjusting range: 2-6 m³/h
- Resolution: 0.05 m³/h

21 **Push button: "Atomizing, Ionizing and Tribo Air"**
- To activate the function, the value is precisely adjusted with rotary controller 24 and is indicated in LED display 19
- Adjusting range: 0.1-4 m³/h
- Resolution: 0.05 m³/h

22 **LED display: "Total Air"**
- Lights up yellow, when the setting "Total Air" is selected

23 **LED display: "Atomizing, Ionizing and Tribo Air"**
- Lights up yellow, when the setting "Atomizing, Ionizing and Tribo Air" is selected

24 **Universal control dial**
- Dynamic digital control dial with 32 positions per revolution
- Adjustment speed is proportional to rotational speed
- Used to set: "Total air volume; atomizer, ionizer and Tribo air; additional recipes; high-voltage; current limitation; powder quantity"
- For setting parameter values in configuration mode

25 **Push button: "Additional Recipes"**
- To activate the function, the additional recipes adjustment is set with the rotary controller (24) and is indicated in the LED display (19).
- Selection of the recipes 5 to 50
26 LED display: "Additional Recipes"
   - Lights up yellow, when an additional recipe is selected

27 Push button: "High-voltage"
   - To activate the function, the high-voltage is set with rotary controller 24 and is indicated in LED Display 19
   - Adjusting range: 10-100 kV
   - Resolution: 1 kV

28 LED display: "High-voltage"
   - Lights up yellow. The high-voltage is selected and can be adjusted using rotary controller 24

29 Push button: "Current Limitation"
   - To activate the function, the current limitation is set with rotary controller 24 and is indicated in LED display 19
   - Adjusting range: 5-120 μA
   - Resolution: 1 μA

30 LED display: "Current Limitation"
   - Lights up yellow. The current limitation is selected and can be adjusted using the rotary controller (24).

31 Push button: "Characteristic Slope"
   - To switch the characteristic slope
   - Display with LED 32

32 LED display: "Characteristic Slope"
   - Lights up green
   - Lower LED characteristic curve, flat
   - Middle LED characteristic curve, medium
   - Upper LED characteristic curve, steep

33 Illuminated display: "Powder Quantity"
   - Lights up green
   - Display range: 0-100%
   - Resolution: 3.33%
   - Single LED display: Set point (high-voltage and powder are deactivated)
   - Bar display: Actual value (high-voltage and powder are activated)
34 **Illuminated display: "Total Air Volume"**
- Lights up green
- Display range: 2-6 m³/h
- Resolution: 0.2-0.5 m³/h
- Single LED display: Set point (high-voltage and powder are deactivated)
- Bar display: Actual value (high-voltage and powder are activated)

35 **Illuminated display: "Atomizing, Ionizing and Tribo Air Volume"**
- Lights up green
- Display range: 0.1-4 m³/h
- Resolution: 0.1-1.0 m³/h
- Single LED display: Set point (high-voltage and powder are deactivated)
- Bar display: Actual value (high-voltage and powder are activated)

36 **Push button: "Powder Quantity"**
- To activate the function, the powder quantity is set with rotary controller 24 and is indicated in LED display 19.
- Adjusting range: 1-100%
- Resolution: 1%

37 **LED display: "Powder Quantity"**
- Lights up yellow, when the powder quantity is selected
7.4 COMMISSIONING THE MANUAL SYSTEM

7.4.1 SWITCHING ON THE MANUAL SYSTEM

To turn the power supply of the manual powder system on, set the mains switch on the back side (A) of the control unit to position “I”.

- After a few seconds the control unit is operational.
- The system switches to recipe 1 “Surface parts” after every restart.
- To switch the manual system off or on, actuate the “Standby” push button (2).

**Note:**
- The fluid air must be adjusted using the throttle (3), when first commissioning the manual system.
- The control unit automatically recognizes the type of gun connected.
- There are 50 recipes available for the spray gun.
- When a Tribo gun is connected, the Tribo current scale is activated, while the high-voltage supply and control unit are deactivated.
- All airs are only switched on once the manual gun’s trigger has been actuated.
7.4.2 ADJUSTING FLUIDIZATION (AIRFLUID)

**Procedure:**

1. Swivel the feed unit (1) to the right side.
2. Place an opened powder tank (25 - 30 kg; 55.11-66.14 lbs) on the vibrator table.
3. Switch on the control unit.
4. Swivel the feed system (1) into the powder tank and lower it down to the powder surface. Actuate the trigger of the spray gun for a short time and release it. The vibrator motor and the fluid air overrun for 10 s (factory setting). This setting can be changed by the user if required (see EPG-Sprint XE control unit operating manual).
5. Adjust the fluid air at the throttle (2) to the point that it makes the feed system sink into the powder due to its own weight.

**Note:**

- The amount of fluid air depends on the characteristics of the powder.
- The powder should be moving in the suction area of the feed unit (gently simmering).
- Avoid a dust build up in the powder tank.
7.4.3 ADJUSTING FLUIDIZATION (60 L TANK WITHOUT VIBRATOR TABLE)

**WARNING**

Dust formation!
Danger of poisoning.
Danger due to escaping dust, contamination of the device and device components.

→ Only fill the powder tank up to the halfway mark, because fluidizing increases the powder volume.

---

**Procedure:**

1. Open the lid and fill the powder tank (1) halfway with powder.
2. Switch on the control unit.
3. Set the "Vibrator motor controller" parameter, on the control unit, to "ON" to permanently activate the fluid air (see the EPG-Sprint XE control unit operating manual).
4. Actuate the trigger of the spray gun for a short time and release it.
5. Adjust the fluid air at the throttle (2) until fluidization is recognizable.

**Note:**

The amount of fluid air depends on the characteristics of the powder. Avoid a build up of powder dust (too much fluid air) in the powder tank!

6. Close the powder tank 1 and check whether the exhaust air hose is leading in the direction of the ventilation system of the powder coating booth.

**Note:**

We recommend using a vibrator table when working with powders that are difficult to feed (see Chapter 12.12).
The following set values are stored in recipe Nos. 1-4 in the factory:

### Notes:
Under normal conditions, metallic powder can be processed well using recipes Nos. 1-4. When operating the system with a Tribo gun, the values for total air, powder flow and Tribo air must be adjusted accordingly and saved. With the 3 L tank variant, the values must also be adjusted individually and saved.

<table>
<thead>
<tr>
<th>Recipe no.</th>
<th>Designation</th>
<th>Characteristic</th>
<th>High-voltage [kV]</th>
<th>Current limitation [μA]</th>
<th>Characteristic curve</th>
<th>Total air [m³/h]</th>
<th>Feed air [%]</th>
<th>Atomizing air [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>G01</td>
<td>Flat part</td>
<td>High surface coverage</td>
<td>90</td>
<td>80</td>
<td>Standard</td>
<td>4.0</td>
<td>70</td>
<td>0.1</td>
</tr>
<tr>
<td>G02</td>
<td>Second coating</td>
<td>Avoidance of spraying back</td>
<td>50</td>
<td>20</td>
<td>Soft</td>
<td>3.6</td>
<td>57</td>
<td>0.1</td>
</tr>
<tr>
<td>G03</td>
<td>Profile part</td>
<td>Penetration and reduced build-up of edges</td>
<td>70</td>
<td>40</td>
<td>Soft</td>
<td>3.6</td>
<td>50</td>
<td>0.1</td>
</tr>
<tr>
<td>G04</td>
<td>Double click</td>
<td>Small components</td>
<td>80</td>
<td>20</td>
<td>Soft</td>
<td>3.6</td>
<td>45</td>
<td>0.1</td>
</tr>
<tr>
<td>P05-50</td>
<td>variable</td>
<td>individual</td>
<td>80</td>
<td>100</td>
<td>Standard</td>
<td>4.5</td>
<td>80</td>
<td>0.1</td>
</tr>
</tbody>
</table>
7.6 INTERRUPING THE COATING PROCESS

7.6.1 AIRFLUID VERSION

**NOTICE**

**Danger of clogging the fluid disk!**
Danger of blockage.

→ Before the control unit is deactivated, the feed system must be pulled out of the powder tank.

**NOTICE**

**Powder residues!**
Danger of damage to the device.

→ At every work interruption, blow through the spray gun and the powder feed components and clean from any powder residues.

**Procedure:**

1. Release the trigger on the spray gun.
   • The high-voltage and the powder feed are deactivated.
2. Lift the feed unit up, underneath the injector, and lift it out of the tank until retaining clamp (H) swivels downwards.
3. Lower the feed system into the parking position and swivel it to the right side so that no more powder is forwarded.
4. Hold the gun in the spray booth and start the flush function by pressing the "Flush" button (17). The injector and hoses are flushed.
5. Now the control unit can be switched off.
7.6.2 60 L TANK VERSION

NOTICE

Powder residues!
Danger of damage to the device.

→ At every work interruption, blow through the spray gun and the powder feed components and clean from any powder residues.

Procedure:

1. Release the trigger on the spray gun.
   - The high-voltage and the powder feed are deactivated.
2. Remove the injector from the holder to stop powder feed.
3. Hold the gun in the spray booth and start the flush function by pressing the "Flush" button (17). The injector and hoses are flushed.
4. Switch off control unit.
7.7 "DOUBLE CLICK" RECIPE (HIGH DYNAMIC REMOTE)

This function is used to change quickly to another recipe during a coating operation. The operator can access a previously set recipe by double-clicking on the trigger lever on the spray gun, for example to recoat parts using different parameters (high-voltage, current limitation, air volumes etc.).

To access the function, press the trigger lever on the spray gun twice in quick succession and hold down. Upon releasing the trigger, the original recipe will be returned to.
8 CLEANING AND MAINTENANCE

8.1 CLEANING

8.1.1 CLEANING STAFF

Cleaning work should be undertaken regularly and carefully by qualified and trained staff. The staff must be familiar with the DIN EN 50050-2 provisions. They should be informed of specific hazards during their training.

The following hazards may arise during cleaning work:
- Health hazard from inhaling powder lacquer
- Use of unsuitable cleaning tools and aids

8.1.2 SAFETY INSTRUCTIONS

DANGER

Explosive powder/air mixes!
Danger to life and equipment damage.

- Before starting cleaning or other manual work, the high-voltage must be shut down and locked to prevent it from being switched back on!
- The spray gun must be separated from the high-voltage supply and compressed air supply before any cleaning work is started!
- Use only electrically conductive tanks for cleaning liquids! Ground the tank!
- Preference should be given to non-flammable cleaning fluids.
- Flammable cleaning liquids may only be used if, after switching off the high-voltage, all high-voltage conducting parts are discharged to a discharge energy of less than 0.24 mJ before they can be accessed.
  Most flammable solvents have an ignition energy of around 0.24 mJ or 60 nC.
- The cleaning agent’s flash point must be at least 15 K above the ambient temperature.
- Only mobile industrial vacuum cleaners of design 1 (see EN 60335-2) may be used to remove dust deposits.
8.1.3 CLEANING PROCEDURES

The cleaning intervals should be adapted by the operator depending on the level of use and if necessary the level of soiling. If in doubt, we recommend contacting J. Wagner AG’s specialist personnel. The valid health and safety specifications and the safety instructions provided in Chapter 4 must be adhered to for all cleaning work.

---

**WARNING**

Incorrect maintenance!
Risk of injury and damage to the device.

→ If contact with powder products or cleaning agents causes skin irritation, appropriate precautionary measures must be taken, e.g., wearing protective clothing.
→ The footwear worn by operating staff must comply with EN ISO 20344. The measured insulation resistance must not exceed 100 megohms.
→ The protective clothing, including gloves, must comply with EN ISO 1149-5. The measured insulation resistance must not exceed 100 megohms.
8.2 MAINTENANCE

8.2.1 MAINTENANCE STAFF

Maintenance work should be undertaken regularly and carefully by qualified and trained staff. They should be informed of specific hazards during their training.

The following hazards may arise during maintenance work:

- Health hazard from inhaling powder lacquer
- Use of unsuitable tools and aids

Once the maintenance work is complete, the device must be checked by a qualified person to ensure a reliable condition.

8.2.2 SAFETY INSTRUCTIONS

DANGER

Incorrect maintenance/repair!
Danger to life and equipment damage.

→ Repair or replacement of devices or parts of devices are only allowed to be performed outside the hazard area by qualified personnel.
→ Before starting maintenance or other manual work, the high-voltage must be shut down and locked to prevent it from being switched back on!
→ The spray gun must be separated from the high-voltage supply and compressed air supply before any maintenance work is started!

DANGER

Incorrect maintenance/repair!
Risk of injury and damage to the device.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
  - Switch off the energy/compressed air supply.
  - Relieve spray gun and device pressure.
  - Secure the spray gun against actuation.
→ Observe the operating manual and service manuals at all times when carrying out work.
The maintenance intervals should be adapted by the operator depending on the level of use and if necessary the level of soiling. If in doubt, we recommend contacting J. Wagner AG’s specialist personnel.

The valid health and safety specifications and safety instructions provided in Chapter 4 must be adhered to for all maintenance work.

### 8.2.3 MAINTENANCE PROCEDURES

The maintenance intervals should be adapted by the operator depending on the level of use and if necessary the level of soiling. If in doubt, we recommend contacting J. Wagner AG’s specialist personnel.

The valid health and safety specifications and safety instructions provided in Chapter 4 must be adhered to for all maintenance work.

<table>
<thead>
<tr>
<th>Maintenance work</th>
<th>Time stamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blow out gun and check for sintering</td>
<td>x</td>
</tr>
<tr>
<td>Check gun settings</td>
<td>x</td>
</tr>
<tr>
<td>Check gun discharge pressure</td>
<td>x</td>
</tr>
<tr>
<td>Blow out powder hoses</td>
<td>x</td>
</tr>
<tr>
<td>Check grounding</td>
<td>x</td>
</tr>
<tr>
<td>Check compressed air quality</td>
<td>x</td>
</tr>
<tr>
<td>Check gun voltage</td>
<td>x</td>
</tr>
<tr>
<td>Check powder hoses for bends and sintering</td>
<td>x</td>
</tr>
</tbody>
</table>
8.3 PERIODIC CHECKING AND CLEANING OF THE MANUAL SYSTEM

8.3.1 AIRFLUID VERSION

Procedure:

1. Release the trigger on the spray gun. 
   - The high-voltage and the powder feed are deactivated.
2. Lift the feed unit up, underneath the injector, and lift it out of the tank until retaining clamp (H) swivels downwards.
3. Lower the feed system into the parking position and swivel it to the right side so that no more powder is forwarded.
4. Hold the gun in the spray booth and start the flush function by pressing the "Flush" button (17). The injector and hoses are flushed.
5. Switch off control unit.
6. Remove the union nut on powder feed hose (3) and disconnect powder feed hose (3) from injector (4).
7. Disconnect powder feed hose (5) (red) from injector (4).
8. Disconnect dosing air hose (6) (blue) from injector (4).
9. Pull the fluid air hose (black) off suction connector (2).
10. Pull injector (4) out of feed unit (1).
11. Check injector 4 for wear and replace worn parts if necessary. The wearing and spare parts can be found in the powder injector's operating manual.
12. Pull feed unit (1) out of the holder arm.
13. Blow out the suction tube of the feed unit (1) thoroughly and rub it clean with a dry cloth.
14. Check whether the fluid disk on the bottom of the feed unit is blocked and replace if necessary.
8.3.2  60 L TANK VERSION

Procedure:

1. Release the trigger on the spray gun.
   - The high-voltage and the powder feed are deactivated.
2. Remove powder injector (1) from holder (2).
3. Hold the gun in the spray booth and start the flush function by pressing the "Flush" button (17). The injector and hoses are flushed.
4. Switch off control unit.
5. Release the union nut on powder feed hose (3) and disconnect powder feed hose (3) from injector (1).
6. Disconnect the red feed air hose (4) from injector (1).
7. Disconnect the blue dosing air hose (5) from the injector (1).
8. Check powder injector for wear and replace worn parts if necessary. The wearing and spare parts can be found in the powder injector’s operating manual.
9. Loosen the exhaust air hose (6) from the connection (7) of the powder tank (8).
10. Pull the black fluid air hose (9) off the powder tank (8).
11. Loosen the grounding cable (10) from the powder tank (8).
12. Lift the powder tank off from the equipment trolley for cleaning.
13. Open the lid of the powder tank to empty the powder tank and thoroughly blow out the powder tank.
14. Completely remove all residual powder from the suction system.
15. Pay special attention when cleaning the fluid base, check it for blockage or damage and replace it if necessary.
   The wearing and spare parts are in the "Spare Parts" chapter of this operating manual.
**8.4 PERFORMING A PAINT CHANGE (AIRFLUID)**

**Note:**
For a paint change, all components of the powder feed system must be thoroughly cleaned.

**Procedure:**

1. Release the trigger on the spray gun.
   - The high-voltage and the powder feed are deactivated.
2. Lift the feed unit up, underneath the injector, and lift it out of the tank until retaining clamp (H) swivels downwards.
3. Lower the feed system into the parking position and swivel it to the right side so that no more powder is forwarded.
4. Hold the gun in the spray booth and start the flush function by pressing the "Flush" button (17). The injector and hoses are flushed.
5. Switch off control unit.
6. Clean all powder feeding parts of the unit, such as the spray gun, the injector and the powder feed hose.
7. Place an opened powder tank (25-30 kg; 55.11-66.14 lbs) with the new powder on the vibrator table.
8. Swivel retaining clamp (H) away, lower the feed unit to the powder surface, actuate the trigger of the spray gun for a short time and then release it.
9. Adjust the fluid air at the throttle to the point that the feed unit sinks into the powder due to its own weight.

To adapt the programs to the new applications proceed as described in the EPG-Sprint XE control unit's operating manual.
8.5 PERFORMING A PAINT CHANGE (60 L TANK)

8.5.1 CLEANING PROCESS WHEN USING A SINGLE POWDER TANK

Note:
For a paint change, all components of the powder feed system must be thoroughly cleaned.

Procedure:

1. Release the trigger on the spray gun.
   - The high-voltage and the powder feed are deactivated.
2. Remove the injector from the holder to stop powder feed.
3. Hold the gun in the spray booth and start the flush function by pressing the "Flush" button (17). The injector and hoses are flushed.
4. Switch off control unit.
5. Open the powder tank and clean all powder feeding parts of the unit, such as the spray gun, the injector, the powder feed hose and the suction system.
6. Clean the powder tank and pay special attention to the fluid base.

Note:
Proper fluidization is not possible with a damaged and/or clogged fluid base.

To adapt the programs to the new applications proceed as described in the EPG-Sprint XE control unit’s operating manual.
8.5.2 CLEANING PROCESS WHEN USING MULTIPLE POWDER TANKS (60 L TANK)

Procedure:

1. Release the trigger on the spray gun.
   - The high-voltage and the powder feed are deactivated.
2. Remove the injector from the holder to stop powder feed.
3. Hold the gun in the spray booth and start the flush function by pressing the "Flush" button (17). The injector and hoses are flushed.
4. Switch off control unit.
5. Loosen the powder feed hose from the powder injector and clean the spray gun and the powder feed hose thoroughly.
6. Loosen the blue dosing air hose and the red feed air hose from the powder injector.
7. Disconnect the black fluid air hose from the powder tank.
8. Loosen the grounding cable from the powder tank.
9. Replace the powder tank.
10. Reconnect all the hoses and ground the powder tank by connecting to the grounding cable.

Note:
Proper fluidization is not possible with a damaged and/or clogged fluid base.
8.5.3 RESTARTING THE MANUAL SYSTEM

Procedure:

1. Check if the control unit is switched off.
2. Open the powder tank and fill it halfway with powder.

3. Switch on the control unit and activate the "Powder Feed Quantity" function by pressing the "Powder Quantity" button (36).
4. Adjust the powder quantity to 0% with the universal rotary controller (24).
5. Actuate the trigger and keep it actuated.
6. Adjust the fluid air at the throttle until fluidization is recognizable.

Note:

The amount of fluid air depends on the characteristics of the powder. Avoid a build up of powder dust (too much fluid air) in the powder tank!

7. Close the powder tank and check whether the exhaust air hose is leading in the direction of the ventilation system of the powder coating booth.

To adapt the programs to the new applications proceed as described in the EPG-Sprint XE control unit's operating manual.
If the system is used for electrostatic coating with flammable coating powders, testing should be undertaken in accordance with DIN EN 50050-2: 2014 as per Table 1.
### 9.1 Overview of Inspections

<table>
<thead>
<tr>
<th>Section</th>
<th>Type of inspection</th>
<th>Requirements</th>
<th>Inspection by</th>
<th>Type of inspection</th>
<th>Inspection interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Resistance to ground of work piece’s locating point</td>
<td>The resistance to ground of every work piece’s locating point must not exceed 1 megohm (measurement voltage must be 1000 V). The design of the work piece receiver must ensure that the adapters remain grounded during coating.</td>
<td>CP</td>
<td>ME/CI</td>
<td>weekly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Measure resistance to ground (work piece receiver - ground potential) max. 1 megohm @ 1000 V.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Interlock between technical ventilation and high-voltage, compressed air and coating product supply</td>
<td>The technical ventilation should be interlocked such that the powder feed and high-voltage cannot be switched on, while the technical ventilation is not working effectively.</td>
<td>CP</td>
<td>Fi</td>
<td>annually</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test whether the system is safely stopped and the product supply, supply air, and high-voltage are switched off when the ventilation is shut down.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Checking the electrostatic manual coating system for damage</td>
<td>Electrostatic manual coating systems may only be operated in an undamaged condition. Damaged devices must be decommissioned immediately and repaired immediately.</td>
<td>CP</td>
<td>Fi</td>
<td>weekly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inspect and test (e.g., by measurement) whether all parts carrying high-voltage do not result in discharge which puts people at risk.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- MA = Manufacturer
- EM = Employer
- CP = Capable person
- FSE = Fire safety engineer
- ELC = Electrician
- TP = Trained person
- FI = Function inspection
- ME = Measurement
- SI = Standard inspection
- VI = Visual inspection
- CI = Continuous inspection
- TI = Technical inspection
10 DISASSEMBLY AND DISPOSAL

10.1 DISASSEMBLY

⚠️ WARNING

Incorrect disassembly!
Risk of injury and damage to the device.

→ Before starting disassembly:
  - Switch off the energy/compressed air supply.
  - Ensure that all system components are grounded.
  - Secure system against being switched back on without authorization.
→ Observe the operating manuals for any work.

Procedure:

1. Switching off the system.
2. Pull the connection cable out of the socket.
3. Lock the compressed air supply and decompress system.
4. Separate the connection cable from the compressed air connection.
5. Separate the grounding cable from the signal ground.

10.2 DISPOSAL

NOTICE

Do not dispose of used electrical equipment with household refuse!
In accordance with European Directive 2002/96/EC on the disposal of used electrical equipment and its implementation in national law, this product may not be disposed of with the household refuse, but must be recycled in an environmentally correct manner.
WAGNER or one of our dealers will take back your used WAGNER waste electrical or electronic equipment and will dispose of it for you in an environmentally friendly way. Please contact one of our service points, one of our representatives or us directly to arrange this.
11 TROUBLESHOOTING AND RECTIFICATION

⚠️ DANGER
Incorrect maintenance/repair!
Risk of injury and damage to the device.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
→ Before all work on the device and in the event of work interruptions:
  - Switch off the energy/compressed air supply.
  - Relieve spray gun and device pressure.
  - Secure the spray gun against actuation.
→ Observe the operating manual and service manuals at all times when carrying out work.

⚠️ DANGER
Incorrect maintenance/repair!
Danger to life and equipment damage.

→ WAGNER devices, protective systems and safety, monitoring and control equipment may only be maintained/repaired as defined in Directive 94/9/EC (ATEX) by trained WAGNER service personnel or capable persons in accordance with TRBS 1203!
Note national regulations!
→ Repair or replacement of devices or parts of devices may only be performed outside the hazard area!
11.1 FAULTS ON THE MANUAL SYSTEM

<table>
<thead>
<tr>
<th>Malfunction</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| Power indicator does not light up No Corona power supply | • Mains supply not switched on.  
• 1 AT fuses defective.  
• The connection cable to the powder spray gun is interrupted.  
• The powder spray gun is too close to the work piece.  
• The grounding between control unit and powder spray gun is interrupted. | • Turn on mains.  
• Replace fuses.  
• To replace the connection cable, notify WAGNER services or your qualified personnel.  
• Switch off the high-voltage, increase the distance between the spray gun and the work piece and then switch the high-voltage on again.  
Should an error message be displayed again, inform the WAGNER service center.  
Inform WAGNER service center |
| Sputtering powder feed                           | • The flow rate in the powder feed hose is too low.  
• The cross section of the powder feed hose is reduced by movement.  
• Fluctuations in the compressed air caused by short-term increase of the compressed air consumption in the supply system. | • Increase the total feed and dosing air and readjust the ratio of the airs to each other.  
• Use a powder hose that prevents the cross section from narrowing (Select a hose with a thicker wall.).  
• Install compressed air storage directly in front of high consumption system components. |
| Dust buildup above the drum or the powder tank   | • Too much fluid air.  
• The throttle is not connected to the fluid air connection of the control unit. | • Reduce the fluid air at the throttle.  
• Connect the throttle to the fluid air connection of the control unit and readjust the fluid air volume. |
| Bad wrap around, back-spray                      | • Insufficient grounding.                                             | • Make sure that all components are well grounded, see Chapter 6.7 “Grounding”. |
### Malfunction Cause Remedy

<table>
<thead>
<tr>
<th>Malfunction</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No powder feed</td>
<td>● Tank or powder tank empty.</td>
<td>● Refill the powder.</td>
</tr>
<tr>
<td></td>
<td>● The spray gun is clogged.</td>
<td>● Blow through the spray gun.</td>
</tr>
<tr>
<td></td>
<td>● The powder feed hose is clogged.</td>
<td>● Blow through the powder feed hose.</td>
</tr>
<tr>
<td></td>
<td>● The powder suction system in the powder tank is clogged.</td>
<td>● Blow through the powder suction system.</td>
</tr>
<tr>
<td></td>
<td>● The feed air hose is bent.</td>
<td>● Straighten or replace the feed air hose.</td>
</tr>
<tr>
<td></td>
<td>● The powder feed hose is kinked.</td>
<td>● Straighten or replace the powder feed hose.</td>
</tr>
<tr>
<td>The feed unit does not sink into the powder</td>
<td>● The guide of the feed unit holder is jammed.</td>
<td>● Enable the guide to move smoothly.</td>
</tr>
</tbody>
</table>
12 ACCESSORIES

12.1 FEED SYSTEM SN-2 550/10

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>265272</td>
<td>Feed system SN-2 550/10</td>
</tr>
</tbody>
</table>

12.2 MAINTENANCE UNIT

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2314265</td>
<td>Maintenance unit</td>
</tr>
<tr>
<td>2314308</td>
<td>Filter cartridge (spare part)</td>
</tr>
<tr>
<td>2314309</td>
<td>Fine-filter cartridge (spare part)</td>
</tr>
</tbody>
</table>
12.3 QUICK COUPLING SET

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2312543</td>
<td>Quick coupling set</td>
</tr>
<tr>
<td>935658</td>
<td>Compressed air hose Ø 9.5 mm</td>
</tr>
</tbody>
</table>

12.4 ADAPTER PLATE SWITCHBOX

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2308079</td>
<td>Adapter plate switchbox</td>
</tr>
</tbody>
</table>
12.5 SPRAY GUN SWITCHBOX

Order No. | Designation
----------|-----------------|
265911    | Spray gun switchbox
           | When alternately a Corona or a Tribo gun is operated
2313993   | Hose (black, Ø 4x6 mm)

12.5.1 INSTALLATION OF THE SWITCHBOX

⚠️ WARNING

Danger from electric current!
Risk of injury and damage to the device.

→ Before starting with the installation of the switchbox, the manual system must be switched off and the mains plug disconnected.

Procedure:

1. Screw switchbox (1) to adapter plate (3) with screws (2).
2. Use screws (4) to screw adapter plate with fitted switchbox onto the back side of trolley's front plate.

3. Pull the spray gun cable out of the socket (A) on the control unit.

4. Plug the switchbox's electrical cable (B) into the socket (A) on the control unit and secure it with the protective sleeve.

5. Connect the spray gun to the appropriate connection on the switchbox and secure it with the protective sleeve of the spray gun cable.

6. Set the switch (C) on the switchbox to the desired spray gun type.
12.5.2 SWITCHING THE GUN TYPES

**Note:**
Clean the powder residues from all powder-conveying parts thoroughly, before changing to another gun type.

**Procedure:**
(For example: switching from Corona to Tribo)

1. Switch off control unit with switch (1) on the back side or with "Standby" button (15) on the front.
2. Change the coating powder from Corona to Tribo.
3. Disconnect the hose (2) (transparent, atomizing air) from the Corona gun and connect it to the Tribo gun (Tribo air).
4. Disconnect the powder feed hose of the Corona spray gun from the powder injector and connect the Tribo gun hose to the powder injector.
5. Set the switch (C) on the switchbox to Tribo.
6. Switch on control unit with switch (1) on the back side or with "Standby" button (15) on the front.

**Note:**
Parameter C11, in the EPG-Sprint XE control unit device configuration, must be set to "aut". No gun is selected at first after the control unit is switched on. This will however be automatically selected and displayed after 1 second.
12.6 PEM-T3 MANUAL GUN

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>351019</td>
<td>PEM-T3 Tribo manual gun</td>
</tr>
</tbody>
</table>

12.7 PEM T3 300 EXTENSION

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>260934</td>
<td>PEM T3 300 extension</td>
</tr>
</tbody>
</table>
12.8 SWIVEL CASTERS SET

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2324869</td>
<td>Swivel casters set</td>
</tr>
</tbody>
</table>

12.9 POWDER HOSE

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>351794</td>
<td>Powder hose Ø 9 mm</td>
</tr>
<tr>
<td>2310699</td>
<td>Powder hose Ø 10 mm</td>
</tr>
<tr>
<td>2307502</td>
<td>Powder hose Ø 11 mm</td>
</tr>
<tr>
<td>2310700</td>
<td>Powder hose Ø 12 mm</td>
</tr>
</tbody>
</table>

12.10 SPRINT DUAL MANUAL COATING SET

This accessory is used to operate two manual guns with the manual system. The set consists of the control unit, the manual gun, a feed unit and different connecting parts and cables.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2331417</td>
<td>Sprint dual manual coating set</td>
</tr>
</tbody>
</table>
12.11 WALL MOUNT

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2330223</td>
<td>Wall mount with bracket</td>
</tr>
</tbody>
</table>

12.12 CONVERSION SETS

When working with powders that are difficult to feed, the manual system can be converted into a variant with a vibrator table.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2309276</td>
<td>Sprint 60 L V conversion set</td>
</tr>
<tr>
<td>2309277</td>
<td>Sprint 3 L V conversion set</td>
</tr>
</tbody>
</table>
12.13 RECIPE LABEL

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2331223</td>
<td>Recipe label</td>
</tr>
</tbody>
</table>

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12.14 EXTENDED OPERATING MANUAL

If additional information regarding the individual components is desired, the operating manuals listed below can be resorted to.

This extended operating manual includes:

- important notes regarding connecting, commissioning and the operation (e.g., paint change) of the relevant components,
- the very important chapter "Maintenance and Cleaning" for the relevant components,
- troubleshooting and error correction for the relevant components,
- spare parts, wearing parts and accessories.

<table>
<thead>
<tr>
<th>Description</th>
<th>Operating manual</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPG-Sprint XE control unit</td>
<td>2354911</td>
<td>German</td>
</tr>
<tr>
<td></td>
<td>2354913</td>
<td>English</td>
</tr>
<tr>
<td>PI-F1 powder injector</td>
<td>241890</td>
<td>German</td>
</tr>
<tr>
<td></td>
<td>241891</td>
<td>English</td>
</tr>
<tr>
<td>Hicoat ED-Pump F powder injector</td>
<td>241885</td>
<td>German</td>
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<td></td>
<td>241886</td>
<td>English</td>
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<tr>
<td>PEM-X1 manual gun</td>
<td>2326019</td>
<td>German</td>
</tr>
<tr>
<td></td>
<td>2326020</td>
<td>English</td>
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<td>PEM-T3 manual gun</td>
<td>351708</td>
<td>German</td>
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<tr>
<td></td>
<td>351709</td>
<td>English</td>
</tr>
</tbody>
</table>
13 SPARE PARTS

13.1 HOW CAN SPARE PARTS BE ORDERED?

Always supply the following information to ensure delivery of the right spare part:

Order number, designation and quantity

The quantity need not be the same as the number given in the quantity column "Stk" on the list. This number merely indicates how many of the respective parts are used in each component.

The following information is also required to ensure smooth processing of your order:
- Address for the invoice
- Address for delivery
- Name of the person to be contacted in the event of any queries
- Type of delivery (normal mail, express delivery, air freight, courier etc.)

Identification in spare parts lists

Explanation of column "K" (labeling) in the following spare parts lists.

◆ = Wearing parts
   Note: These parts are not covered by warranty terms

● = Not part of standard equipment, available, however, as additional extra.

---

**WARNING**

Incorrect maintenance/repair!
Risk of injury and damage to the device.

→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.

→ Before all work on the device and in the event of work interruptions:
   - Switch off the energy/compressed air supply.
   - Ensure that all system components are grounded.
   - Secure the device against being switched back on without authorization.

→ Observe the operating manual and service manuals at all times when carrying out work.
### 13.2 SCOPE OF DELIVERY AND SPARE PARTS LIST OF SPRINT AIRFLUID XE MANUAL POWDER SYSTEM

<table>
<thead>
<tr>
<th>Pos</th>
<th>K</th>
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</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>2355400</td>
<td>Sprint Airfluid XE manual system (standard version)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2355402</td>
<td>Sprint Airfluid XE manual system (USA version)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2355800</td>
<td>Sprint Airfluid XE manual system (Japanese version)</td>
</tr>
<tr>
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<td>1</td>
<td></td>
<td>2355405</td>
<td>Airfluid XE trolley (standard version)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td></td>
<td>2356434</td>
<td>Airfluid XE trolley (USA version)</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td></td>
<td>2353221</td>
<td>EPG-Sprint XE control unit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9951116</td>
<td>Thermal delay fuse 2A (included in EPG-Sprint XE)</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td></td>
<td>241622</td>
<td>PI-F1 powder injector</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td></td>
<td>265281</td>
<td>ST 550/10 suction tube</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td></td>
<td>2322587</td>
<td>PEM-X1 manual gun</td>
</tr>
<tr>
<td>6</td>
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<td></td>
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<td>Sprint connection parts</td>
</tr>
<tr>
<td>6/1</td>
<td>1</td>
<td></td>
<td>2303714</td>
<td>Sealing coupling with anti-kink spring</td>
</tr>
<tr>
<td>6/2</td>
<td>1.3 m</td>
<td></td>
<td>9982079</td>
<td>Hose, black ( \Theta 6 ) mm</td>
</tr>
<tr>
<td>6/3</td>
<td>1.3 m</td>
<td></td>
<td>700370</td>
<td>Hose, blue ( \Theta 8 ) mm</td>
</tr>
<tr>
<td>6/4</td>
<td>1</td>
<td></td>
<td>935973</td>
<td>Sealing coupling with anti-kink spring</td>
</tr>
<tr>
<td>6/5</td>
<td>1.3 m</td>
<td></td>
<td>2302060</td>
<td>Hose, red ( \Theta 8 ) mm</td>
</tr>
<tr>
<td>6/6</td>
<td>1</td>
<td></td>
<td>935974</td>
<td>Coupling plug with anti-kink spring</td>
</tr>
<tr>
<td>6/7</td>
<td>5</td>
<td></td>
<td>2327855</td>
<td>Velcro cable ties</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td></td>
<td>2355337</td>
<td>Vibrator motor 230V/50Hz (standard version)</td>
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</table>
### SPRINT XE

**OPERATING MANUAL**

<p>| | | |</p>
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<tr>
<td>9</td>
<td>1</td>
<td>130215</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>241270</td>
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<tr>
<td>10</td>
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<td>264626</td>
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<td>264625</td>
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**Not included in the scope of delivery, please order separately:**

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### 13.3 Scope of Delivery and Spare Parts List of Sprint 60 L XE Tank

(without vibration table)

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<td>2355404</td>
<td>Sprint 60 L XE manual system (US version)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2355407</td>
<td>60 L XE trolley</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
<td>2353221</td>
<td>EPG-Sprint XE control unit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9951116</td>
<td>Thermal delay fuse 2A (included in EPG-Sprint XE)</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>1</td>
<td>241622</td>
<td>PI-F1 powder injector</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>2322587</td>
<td>PEM-X1 manual gun</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>2306401</td>
<td>Sprint connection parts</td>
</tr>
<tr>
<td>5/1</td>
<td>1</td>
<td>1</td>
<td>2303714</td>
<td>Sealing coupling with anti-kink spring</td>
</tr>
<tr>
<td>5/2</td>
<td></td>
<td>1.3 m</td>
<td>9982079</td>
<td>Hose, black ∅ 6 mm</td>
</tr>
<tr>
<td>5/3</td>
<td></td>
<td>1.3 m</td>
<td>700370</td>
<td>Hose, blue ∅ 8 mm</td>
</tr>
<tr>
<td>5/4</td>
<td></td>
<td>1</td>
<td>935973</td>
<td>Sealing coupling with anti-kink spring</td>
</tr>
<tr>
<td>5/5</td>
<td></td>
<td>1.3 m</td>
<td>2302060</td>
<td>Hose, red ∅ 8 mm</td>
</tr>
<tr>
<td>5/6</td>
<td></td>
<td>1</td>
<td>935974</td>
<td>Coupling plug with anti-kink spring</td>
</tr>
<tr>
<td>5/7</td>
<td></td>
<td>5</td>
<td>2327855</td>
<td>Velcro cable ties</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>265266</td>
<td>Powder hose set ∅ 11x5,000 mm; 0.43x196.85 inches</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>1</td>
<td>130215</td>
<td>Grounding cable 10 m; 32.81 ft</td>
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</tbody>
</table>
### 13.4 TROLLEY SPARE PARTS LIST

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<tbody>
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<td>1</td>
<td>2307117</td>
<td>Sprint injector bracket, complete</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>1</td>
<td>2325026</td>
<td>Suction tube bush</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>1</td>
<td>2325022</td>
<td>Retaining clamp</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
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<td>2305431</td>
<td>Adjustment foot</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td></td>
<td>2305421</td>
<td>Nut</td>
</tr>
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<td>6</td>
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<td>1</td>
<td>2303279</td>
<td>Guide bush</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td></td>
<td>2330599</td>
<td>Gun holder</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>1</td>
<td>9950817</td>
<td>Cable entry grommet</td>
</tr>
</tbody>
</table>

* Wearing parts
13.5 SUCTION TUBE ST 550/10

<table>
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<tr>
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<th>Stk</th>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>1</td>
<td>265281</td>
<td>Suction tube ST 550/10</td>
</tr>
<tr>
<td>2</td>
<td>✷</td>
<td>1</td>
<td>265401</td>
<td>Fluid crown</td>
</tr>
<tr>
<td>3</td>
<td>✷</td>
<td>1</td>
<td>265402</td>
<td>Fluid ring</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>1</td>
<td>2303716</td>
<td>Plug-in fitting, G1/8&quot;</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>1</td>
<td>2307727</td>
<td>Extension</td>
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</tbody>
</table>

◆ Wearing parts
● Not part of the standard equipment but available as a special accessory
★ Only available as a set
13.6 FEED SYSTEM SN-2 550/10

<table>
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<td>265272</td>
<td>Feed system SN-2 550/10</td>
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<td>◆</td>
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<td>Fluid crown</td>
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<td>3</td>
<td></td>
<td>1</td>
<td>9999047</td>
<td>Plug-in fitting, G1/8&quot;</td>
</tr>
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</table>

◆ Wearing parts
● Not part of the standard equipment but available as a special accessory
★ Only available as a set
13.7 COMPRESSED AIR SUPPLY

Rear view of the control unit

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<th>Designation</th>
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<tbody>
<tr>
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<td></td>
<td>1</td>
<td>2303294</td>
<td>Solenoid valve, 2/2 way</td>
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<tr>
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<td></td>
<td>1</td>
<td>2304119</td>
<td>Fluid air throttle</td>
</tr>
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<td>3</td>
<td></td>
<td>1</td>
<td>2305860</td>
<td>Filter precipitator</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9981151</td>
<td>Compressed air connection hose, 18.5 x 12.5 mm</td>
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</tbody>
</table>

◆ Wearing parts
● Not part of the standard equipment but available as a special accessory
★ Only available as a set
13.8 PI-F1 POWDER INJECTOR

<table>
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<td>PI-F1 powder injector</td>
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<td>1</td>
<td>241225</td>
<td>Annular gap collector nozzle</td>
</tr>
<tr>
<td>3</td>
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<td>1</td>
<td>241476</td>
<td>Conductive nozzle</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>1</td>
<td>241466</td>
<td>Union nut</td>
</tr>
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<td>Air nozzle</td>
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<td>7</td>
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<td>9970149</td>
<td>Sealing ring</td>
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<td>8</td>
<td></td>
<td>1</td>
<td>9992709</td>
<td>Quick-release plug</td>
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<td></td>
<td>1</td>
<td>9992710</td>
<td>Quick-release socket</td>
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<td>9970150</td>
<td>Sealing ring</td>
</tr>
<tr>
<td>11</td>
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<td>2</td>
<td>9974023</td>
<td>Sealing ring, electrically conductive</td>
</tr>
</tbody>
</table>

- Wearing parts
- Not part of the standard equipment but available as a special accessory
- Only available as a set
13.9  HICOAT-ED PUMP F

<table>
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<td>241229</td>
<td>Collector nozzle low air</td>
</tr>
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<td>Union nut</td>
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<td>Quick-release plug</td>
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<td>Quick-release socket</td>
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<td>2</td>
<td>9974023</td>
<td>O-ring, electrically conductive</td>
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</table>

◆ Wearing parts
● Not part of the standard equipment but available as a special accessory
★ Only available as a set
13.10 60 L/25 L TANK

Diagram of the 60 L/25 L Tank with labeled parts.
<table>
<thead>
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<td>60 L powder tank</td>
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<td>264224</td>
<td>25 L powder tank</td>
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<td>264215</td>
<td>Base housing</td>
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<td></td>
<td>264381</td>
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<td>Fluidized bed</td>
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<td>Foam rubber gasket</td>
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<td>9994703</td>
<td>Spring clip</td>
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<td>Socket cap screw</td>
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<td>9992270</td>
<td>Quick coupling for screw-on connector</td>
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<td>Hose fitting</td>
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<td>Hexagon nut</td>
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<td>9982058</td>
<td>Exhaust hose 17x3</td>
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<td>170533</td>
<td>Knurled nut</td>
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<td>9920118</td>
<td>Washer</td>
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<td>241276</td>
<td>Grounding cable, complete</td>
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<td>9922102</td>
<td>Star washer</td>
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<td>Cable connection</td>
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<td>263357</td>
<td>60 L suction tube</td>
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<td>25 L suction tube</td>
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<td>2</td>
<td></td>
<td>9971178</td>
<td>O-ring</td>
</tr>
</tbody>
</table>

◆ Wearing parts
● Not part of the standard equipment but available as a special accessory
★ Only available as a set
## 14 Wearing Parts

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>P_01664</td>
<td>Fan spray nozzle, X1, complete</td>
</tr>
<tr>
<td>2321976</td>
<td>Deflector cone, D18, complete</td>
</tr>
<tr>
<td>2321980</td>
<td>Deflector cone, D25, complete</td>
</tr>
<tr>
<td>2321171</td>
<td>Deflector cone, D34, complete</td>
</tr>
<tr>
<td>260928</td>
<td>Fan spray nozzle for PEM-T3</td>
</tr>
<tr>
<td>259474</td>
<td>Deflector cone (Ø 22 mm; 0.87 inch) for PEM-T3</td>
</tr>
<tr>
<td>265401</td>
<td>Fluid crown of suction unit</td>
</tr>
<tr>
<td>265402</td>
<td>Fluid ring of suction unit</td>
</tr>
<tr>
<td>241225</td>
<td>Clearance collector nozzle of PI-F1 Injector</td>
</tr>
<tr>
<td>241229</td>
<td>Collector nozzle ED pump</td>
</tr>
</tbody>
</table>
15 DECLARATION OF WARRANTY AND CONFORMITY

15.1 IMPORTANT NOTES REGARDING PRODUCT LIABILITY

As a result of an EC regulation effective from January 1, 1990, the manufacturer shall only be liable for his product if all parts originate from him or are approved by him, and if the devices are properly mounted, operated and maintained. The manufacturer will not be held liable or will only be held partially liable if third-party accessories or spare parts have been used.

With genuine WAGNER accessories and spare parts, you have the guarantee that all safety regulations are complied with.

15.2 WARRANTY CLAIM

Full warranty is provided for this device:

We will at our discretion repair or replace free of charge all parts which within 24 months in single-shift, 12 months in 2-shift or 6 months in 3-shift operation from date of receipt by the purchaser are found to be wholly or substantially unusable due to causes prior to the sale, in particular faulty design, defective materials or poor workmanship.

The type of warranty provided is such that the device or individual components of the device are either replaced or repaired as we see fit. The resulting costs, in particular shipping charges, road tolls, labour and material costs will be borne by us except where these costs are increased due to the subsequent shipment of the device to a location other than the address of the purchaser.

We do not provide warranty for damage that has been caused or contributed to for the following reasons:

- Unsuitable or improper use, faulty assembly or commissioning by the purchaser or a third party, normal wear, negligent handling, defective maintenance, unsuitable coating products, substitute products and the influence of chemical, electrochemical or electrical agents, except when the damage is attributable to us.
- Components that have not been manufactured by WAGNER are subject to the original warranty of the manufacturer.
- Replacement of a component does not extend the period of warranty of the device.

The device should be inspected immediately upon receipt. To avoid losing the warranty, we or the supplier company are to be informed in writing about obvious faults within 14 days upon receipt of the device.

We reserve the right to have the warranty compliance met by a contracting company.

The services provided by this warranty are dependent on evidence being provided in the form of an invoice or delivery note. If the examination discovers that no warranty claim exists, the costs of repairs are charged to the purchaser.

It is clearly stipulated that this warranty claim does not represent any constraint on statutory regulations or regulations agreed to contractually in our general terms and conditions.

J. Wagner AG
15.3 CE DECLARATION OF CONFORMITY

15.3.1 CE DECLARATION OF CONFORMITY FOR TROLLEY

Herewith we declare that the supplied version of

- Airfluid XE trolley/60 L XE trolley

complies with the following provisions applying to it:

- 94/9/EC (ATEX Directive)
- 2006/42/EC (Machinery Directive)
- 2011/65/EC (RoHS Directive)
- 2002/96/EC (WEEE Directive)

Applied standards, in particular:

- DIN EN 1127-1: 2011
- DIN EN 60079-0: 2012 + A11: 2013
- DIN EN 60079-31: 2014
- DIN EN 13463-1: 2009
- DIN EN 13463-5: 2011
- DIN EN ISO 12100: 2010
- DIN EN 61010-1: 2010
- DIN EN 61000-6-2: 2005

Applied national technical standards and specifications, in particular:

- BGI 764

Identification:

EC Certificate of Conformity
The CE certificate of conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number:
Sprint Airfluid XE trolley/Sprint 60 L XE trolley 2354822
15.3.2 CE DECLARATION OF CONFORMITY FOR CONTROL UNIT

Herewith we declare that the supplied version of

- EPG-Sprint XE, Order No. 2353221

complies with the following provisions applying to it:

- 94/9/EC (ATEX Directive)
- 2004/108/EC (EMV Directive)
- 2011/65/EC (RoHS Directive)
- 2002/96/EC (WEEE Directive)

Applied standards, in particular:

- DIN EN 50050-2: 2013
- DIN EN 1127-1: 2011
- DIN EN 60079-0: 2012 +A11: 2013
- DIN EN 60079-31: 2014
- DIN EN ISO 80079-34: 2011
- DIN EN ISO 13849-1: 2008
- DIN EN ISO 12100: 2010
- DIN EN 61000-6-2: 2005
- BGI 764

Applied national technical standards and specifications, in particular:

- BGI 764

Identification:

EC Certificate of Conformity
The CE certificate of conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number:
EPG-Sprint XE 2327595
15.3.3 CE DECLARATION OF CONFORMITY FOR SPRAY GUNS

Herewith we declare that the supplied version of

- PEM-X1 manual gun, Order No. 2322587

complies with the following provisions applying to it:

- 94/9/EC (ATEX Directive)
- 2006/42/EC (Machinery Directive)
- 2004/108/EC (EMV Directive)
- 2002/95/EC (RoHS Directive)
- 2002/96/EC (WEEE Directive)

Applied standards, in particular:

- pr DIN EN 50050-2: 2011
- DIN EN 50050: 2007
- DIN EN 1127-1: 2011
- DIN EN 60079-0: 2010
- DIN EN 60079-31: 2010
- DIN EN 60079-7: 2007
- DIN EN 1953: 2010
- DIN EN 60204-1: 2007
- DIN EN ISO 80079-34: 2012
- DIN EN 14462: 2010
- DIN EN 60529: 2000
- DIN EN ISO 12100: 2011
- DIN EN 61000-6-2: 2011
- DIN EN 61000-6-4: 2011
- DIN EN 62061: 2010
- DIN EN ISO 13849-1: 2008
- DIN EN 50177: 2010

Applied national technical standards and specifications, in particular:

- BGI 764

Identification:

CE 312 02 II 2D 2mJ
PTB 12 ATEX 5002
EN 50050-2: 2012

EC Certificate of Conformity

The CE certificate of conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number:
PEM-X1 manual gun 2326024
15.4 EC TYPE EXAMINATION CERTIFICATE

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

(1) EC-TYPE-EXAMINATION CERTIFICATE
(Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - Directive 94/9/EC

(3) EC-type-examination Certificate Number:
PTB 12 ATEX 5001

(4) Equipment: EPG-Sprint X control module and EPG S2 dual control module, for controlling electrostatic powder coating devices of the types PEM and PEA of the C2, C3, C4, T3, T4, and X1 generations

(5) Manufacturer: J. Wagner AG

(6) Address: Industriestrasse 22, 9450 Allstätten, Switzerland

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report PTB Ex 12-51178.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 3(2)D IP64 80 °C

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Dr.-Ing. M. Beyer
Direktor und Professor

Braunschweig, 6 August 2012

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Physikalisch-Technische Bundesanstalt • Bundesallee 100 • 38118 Braunschweig • GERMANY

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1. ERLÄUTERUNG

gemäß Richtlinie 94/9/EG Anhang III Ziffer 6

zur EG-Baumusterprüfbescheinigung PTB 12 ATEX 5001

Gerät: Steuermodule EPG-Sprint X und Doppelmodule EPG S2 zur Steuerung elektrostatischer Pulversprüheinrichtungen der Typen PEM und PEA der Generationen C2, C3, C4, T3, T4, und X1

Kennzeichnung: Ex II 3(2)D IP64 80°C

Hersteller: J. Wagner AG

Anschrift: Industriestraße 22, 9450 Altstätten, Schweiz

Beschreibung der Ergänzungen und Änderungen:
2. Gändertes Netzgerät mit höherer Effizienz zur Verwendung in den Steuermodulen EPG-Sprint X und EPG-SprintXE.
3. Erweiterung auf das Steuermodule EPG-Sprint XE mit der Kennzeichnung Ex II 3(2)D IP64 80°C

Angewandte Normen

Prüfbericht: PTB Ex 15-55050

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, 18. November 2015

In Auftrag
Dr.-Ing. M. Thedens Oberregierungsrat


Physikalisch-Technische Bundesanstalt • Bundesallee 100 • 38116 Braunschweig • DEUTSCHLAND
EC-TYPE-EXAMINATION CERTIFICATE
(Translation)


(3) EC-type-examination Certificate Number: PTB 12 ATEX 5002

(4) Equipment: PEM-X1 electrostatic hand-operated powder coating gun and PEM-X1 CG electrostatic hand-operated powder cup-gun with accessories.

(5) Manufacturer: J. Wagner AG

(6) Address: Industriestrasse 22, 9450 Altstätten, Switzerland

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report PTB Ex 12-51177.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

EX II 2D 2mJ

Zertifizierungssektor Explosionsschutz
Braunschweig, 6 August 2012

On behalf of PTB:

Dr.-Ing. M. Beyer
Direktor und Professor

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt.

In case of dispute, the German text shall prevail.
15.5 FM APPROVAL

The Sprint manual system is FM approved in the USA and Canada using the configuration drawing no. 2309729.