

Operating Manual

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Powder Cup Gun

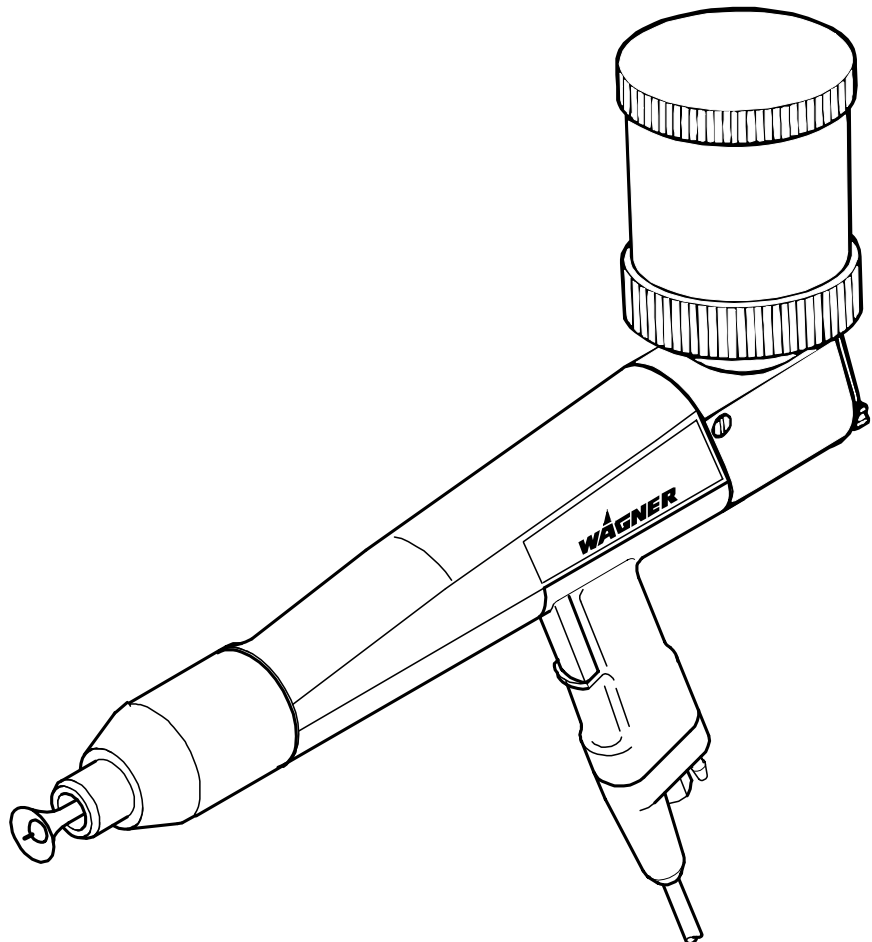
STOP DANGER



High Voltage!
Turn power off
before servicing!

CAUTION

Read rules for safe
operation and
instructions
carefully!



PEM-CG3



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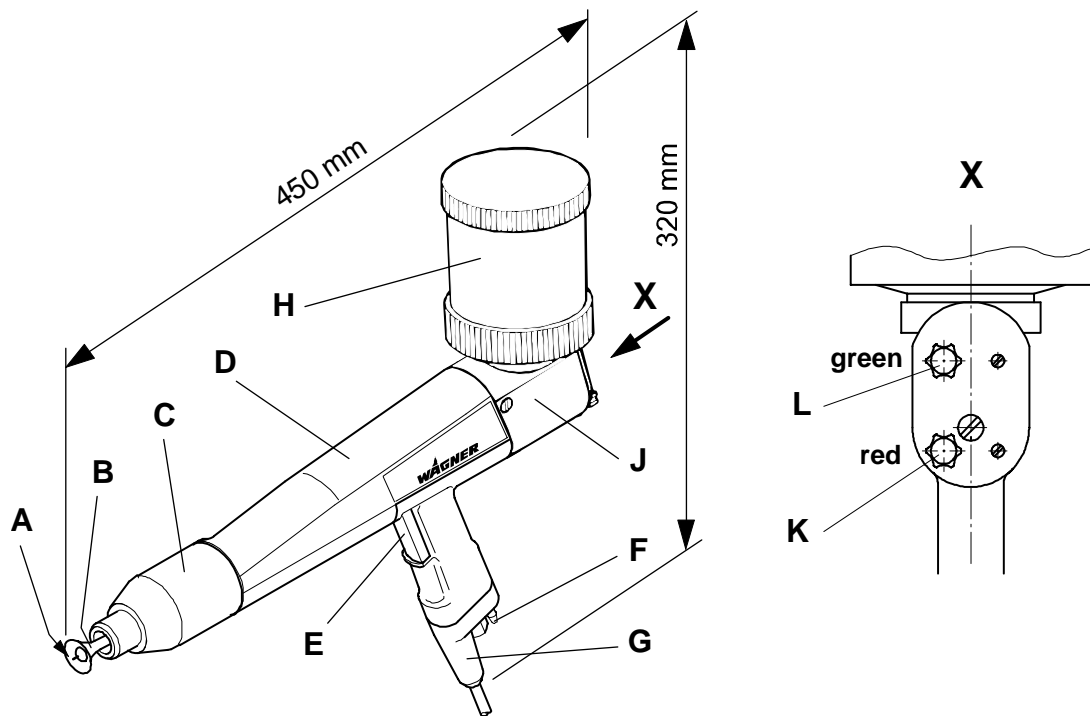
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Powder Cup Gun PEM-CG3

Article No. 0351035



- | | |
|--------------------------|---|
| A Electrode | G Electrical connection |
| B Deflector cone | H Powder container with fluidization |
| C Outer nut | J Adapter with integrated powder injector |
| D Spray gun body | K Setting knob red for setting the feed air |
| E Trigger | L Setting knob green for setting the fluid air |
| F Air supply (input air) | |

The Corona manual spray gun **PEM-CG3** can be used for conventional types of powder and metal powder that can be electrostatically charged is mainly suitable for laboratory tests, sample coating and/or low volume production.

This cup gun can be operated with the following control units:

- **EPG 2007** control unit

Actuating the trigger activates the high voltage in the spray gun. At the same time, the powder and compressed air supplies to the gun are turned on. The compressed air is required for atomizing, feed, dosing and fluid air applications.

The cup gun is equipped with a powder container with a capacity of 500 cm³. A 900 cm³ powder container can also be mounted on the cup gun.

You will find the article numbers in the spare parts list on page [18](#) in chapter [6.3](#).



Caution

The operator **must** ensure that the spray gun is only connected to **Wagner** devices!
To secure the spray guns, the control unit **must** be switched off.

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This manual contains information and hints for the service, repair and maintenance of the equipment. The user must obey all the rules of operation found in this manual, failure to do so will render the warranty invalid.

Wagner powder systems are designed to meet the most stringent safety requirements. They can be operated in compliance with generally applicable safety codes and applicable national safety regulations.

Please pay particular attention to the parts marked by the following symbols. Follow the instructions exactly, in the interests of both your own safety and the correct functioning of the unit.



Warning

This symbol draws attention to the fact that if the operating instructions, working instructions, prescribed working sequences etc. are not followed exactly, this can lead to injury or even fatal accidents.



Caution

This symbol indicates that failure to follow the operating instructions, working instructions, prescribed working sequences etc. exactly can lead to material damage.



Hint

This symbol draws your attention to useful additional information and tips. Failure to observe these instructions can cause malfunctions.

1. Safety regulations



Warning

This equipment can be dangerous if it is not operated in accordance with this operating manual!

There might be additional regulations to be observed, put into effect by governmental, state or other official agencies or local security (fire) departments!

The following rules must be observed in order to ensure a safe and efficient use of the equipment:

- **Under no circumstance may persons with a cardiac pacemaker come close to the area between the tip of the spray gun and the workpiece to be coated!**
- The user has to observe particularly the safety guidelines of the VdS or the local professional and security institutions.
- The spray gun may only be operated in powder coating booths or on powder coating stands that are equipped with a ventilation system.
- The user has to make sure, that the average powder/air concentration does not exceed 50% of the LEL (maximum allowed concentration of powder in air). If a reliable LEL value is not available, the average powder/air concentration may not exceed 10 g/m³.
- The main power connection for operation of the Wagner powder equipment **must** be electrically interlocked with the exhaust system of the powder coating booth.
- In the event of faults or defects, repair work is to be performed at the user's discretion.
- Specially trained personnel may only carry out repairs.
- Repairs must never be performed in an explosion-hazard area.
- The work area **must** have an electrostatically conductive floor (measured in accordance with EN 1081).
- All conductive parts in the work area **must** be electrostatically grounded (work area = 1 m around every spray location or opening in the booth).
- All persons inside the work area **must** wear electrostatically conductive footwear.
- Gloves are not to be worn! If gloves are used they **must** be made of conductive material.

Also refer to chapter [8.1 "Applicable safety regulations and list of sources"](#).

General Safety Rules

- **Wear suitable work clothing**
 - **Use breathing protection for work which produces powder**
 - **Check your equipment for damage**
Before using the system, carefully inspect slightly worn parts for proper operation.
- Check whether the moving parts operate properly, whether they jam and whether parts are damaged.
Damaged parts should be repaired or replaced by a Wagner customer service.



Warning

For your own safety, use only accessories and equipment listed in the operating manual. The use of individual parts other than those recommended in the operating manual may create a hazard to personal safety.

Use only original Wagner replacement parts!

Alteration or repair of Wagner original spare parts may cause fatal accidents or explosions in the coating system!

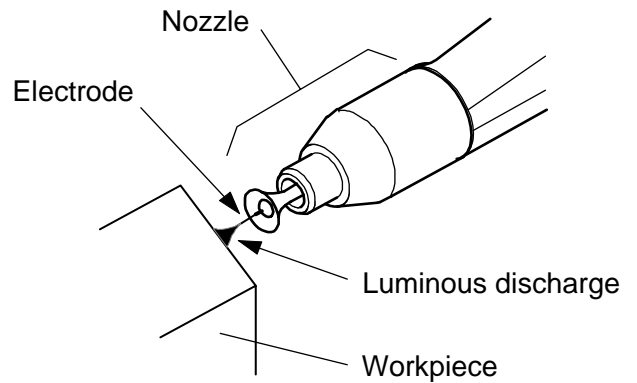
HAZARD	PREVENTION
<p>Electrostatic arcing may cause an explosion or fire. Mixtures of powder and air can explode or ignite causing property damage and/or severe injury.</p>	<ul style="list-style-type: none"> • Operator must be grounded. Grounding straps must be used when wearing rubber soled shoes. • Operator must remove all metallic objects from his or her person, which are not grounded. • The object being sprayed must be grounded. • All metallic objects within the spray area must be grounded (including spray booth, part hangers, fire extinguishers, etc.) • Grounded conductive floor must be provided in spray area. • Turn off the Power Pack and unplug from outlet before flushing out the gun, cleaning or replacing parts on the gun such as changing tips.
<p>Explosion or fire. Mixtures of powder and air can explode or ignite causing property damage and/or severe injury.</p>	<ul style="list-style-type: none"> • Exhaust and fresh air introduction must be provided to keep the air within the spray area free of accumulation of flammable atmosphere. • Smoking must not be allowed in spray area. • Fire extinguishing equipment must be present and in working order. • Electrostatic arcing must be prevented. (See Electrostatic arcing) • When cleaning the system, use only materials recommended by the coatings manufacturer. Be sure Power Pack is turned off and unplugged. • Avoid all ignition sources such as static electricity sparks, open flames such as pilot lights, hot objects such as cigarettes and sparks from connecting and disconnecting power cords and working light switches. • To prevent hazardous concentrations of flammable atmospheres, spray only in a properly ventilated spray booth. • Never operate spray gun unless ventilation fans are operating properly. • Check and follow all National, State and Local codes regarding air exhaust velocity requirements. • Ventilation must be maintained during the cleaning operation.
<p>Toxic Substances: Some materials may be harmful if swallowed or come in contact with the skin.</p>	<ul style="list-style-type: none"> • Follow the requirements of the Material Safety Data Sheet supplied by the coatings manufacturer. • Exhaust and fresh air introduction must be provided within the spray area to keep the air free of high powder accumulations. • Wear a mask or respirator. Read all instructions for the mask to insure that it will provide the necessary protection against the inhalation of powder.
<p>General</p>	<ul style="list-style-type: none"> • Read all instructions and safety precautions before operating. • Comply with all appropriate local, state and national codes governing ventilation, fire prevention, and operation of Electrostatic equipment usage. • The United States Government Safety Standards have been adopted under the Occupational Safety and Health Act. These standards, particularly the General Standards, Part 1910 and the Construction Standard, Part 1926, should be consulted. • NFPA Standard No. 33 is to be followed when setting up your spray area. Contact the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts, 02269 for more information. • Check with insurance company for additional requirements. • Use only identical replacement parts. • Personnel must be given training in accordance with the requirements of NFPA Standard No. 33 chapter 18. • It is the duty of all personnel responsible for the spray equipment operation and maintenance to read and understand all safety information furnished with this equipment.

Note on harmless discharges

With the high voltage switched on, a luminous or corona discharge occurs at the electrode tip; this can only be seen in the dark. This physical effect can be seen when the electrode is near the grounded workpiece.



This luminous discharge does not involve any ignition energy and has no effect on the usage of the plant. When the electrode approaches the workpiece, the control unit automatically reduces the high voltage to a safe value or switches the high voltage off, depending on the setting.

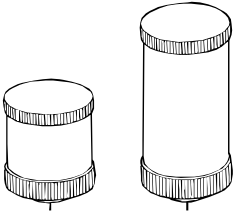
If you touch plastic parts of the **spray gun** with the finger, harmless discharges may occur due to the high voltage field around the spray gun (so-called brush discharges). However, these do not contain any ignition energy.



2. Preparing the spray gun

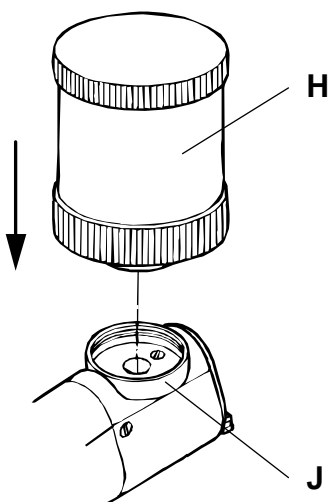
2.1 Select the suitable equipment

Nozzle	Workpiece	Spray pattern	Comments
Deflector cone 	Wire goods Grid designs Aluminum sections	Round spray pattern: the size is dependent on the diameter of the deflector cone.	for powder quantities from 50 ... 300 g/min
Fan spray nozzle 	Difficult workpieces: Undercuts Edges of recesses	Widely spread jet.	for powder quantities from 50 ... 150 g/min

Powder container	Comments
500 or 900 cm ³ 	Select the powder container size dependently of the powder volume required for coating.

You will find the article numbers in the spare parts list on page [18](#) in chapter [6.3](#).

2.2 Mounting the powder container

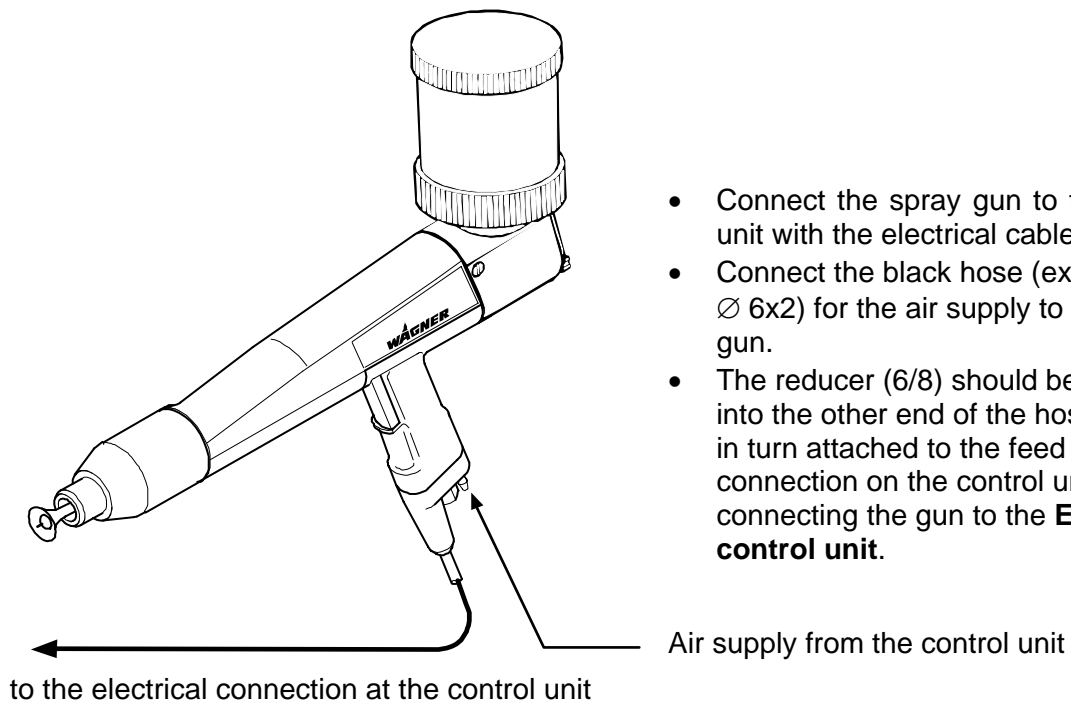


The cup gun is delivered in two dismantled parts:

- spray gun and
- powder container (500 cm³).

Screw the powder container **H** onto the adapter **J**, turning the powder container simultaneously right up to the limit, thus ensuring that it is securely closed.

2.3 Connecting the spray gun



- Connect the spray gun to the control unit with the electrical cable.
- Connect the black hose (external \varnothing 6x2) for the air supply to the spray gun.
- The reducer (6/8) should be inserted into the other end of the hose and this in turn attached to the feed air connection on the control unit when connecting the gun to the **EPG 2007 control unit**.

2.4 Grounding

In order to achieve a good powder coating, proper grounding for the **workpiece** is absolutely essential. A poorly grounded workpiece causes:

- dangerous electric charging of the workpiece
- back-spray onto spray gun and user
- very bad wrap-around
- uneven coating



Warning

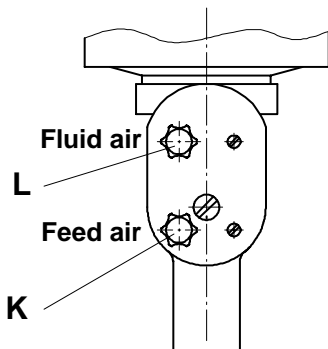
Sparks between workpiece and conveyor hooks (hangers) can occur if hooks or other hanger parts are not completely cleaned!

These sparks can cause heavy radio frequency interference.

3. Working with the spray guns

3.1 Starting up the spray gun

- Switch on the control unit, actuate the trigger on the spray gun and set the compressed air supply at **29 psi (2 bar)**.
- Adjust the high voltage at the control unit.
- Check at the control unit whether the atomizing air is opened on actuating the trigger. As a result the deflector cone remains free from powder deposits and the cascade chamber is flushed.
- Fill the powder container to **max. 75%** of its capacity with powder, but **do not** close the cup yet.



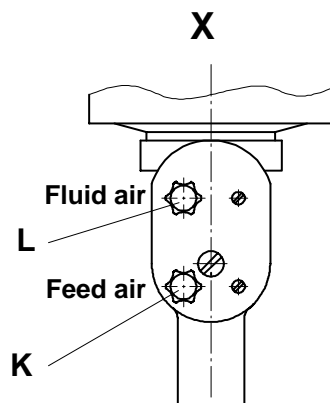
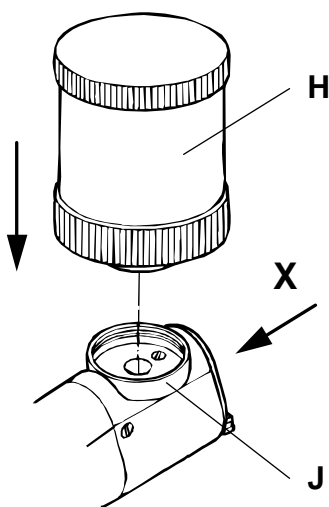
- Open the fluid air supply slowly with the **green** setting knob **L** until the powder is fluidized.
- The powder should be simmering slightly.
- Close the powder container tightly.
- Hold the manual spray gun in the spray booth and actuate the trigger on the manual spray gun.
- Open the **red** setting knob **K** to provide a feed air supply relative to the desired powder throughput.

3.2 Switching off the spray gun



Hint

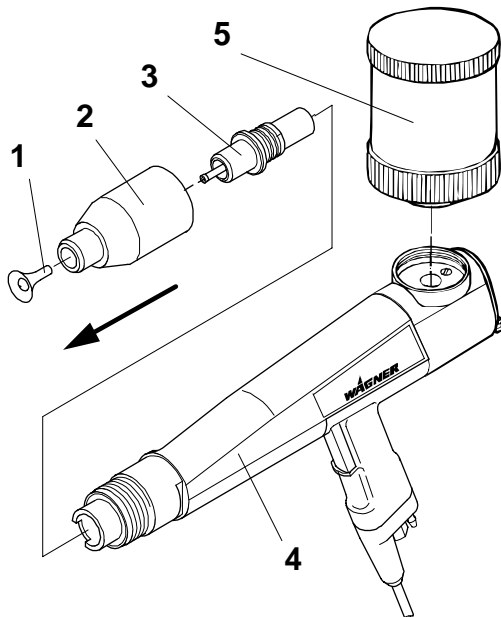
On each interruption to work, the spray gun should be blown through (purged) and powder residue removed. In this way **powder deposits** and a **surge** the next time the spray gun is switched on can be largely avoided.



- Switch off the high voltage generator at the control unit.
- Unscrew the powder container **H** from the adapter **J**.
- Close the fluid air supply with the **green** setting knob **L**.
- Open the feed air supply wide with the **red** setting knob **K**.
- Hold the manual spray gun in the spray booth, actuate the trigger, so that the spray gun is blown free of powder.
- Switch off the control unit and secure it against being switched on unintentionally.

3.3 Performing a color change

During a color change all parts carrying powder **must** be **thoroughly** cleaned of powder residue.



- Switch off the high voltage generator at the control unit.
- Unscrew the powder container **H** from the adapter **J**.
- Close the fluid air supply with the **green** setting knob **L**.
- Open the feed air supply wide with the **red** setting knob **K**.
- Hold the manual spray gun in the spray booth, actuate the trigger, so that the spray gun is blown free of powder.
- Switch off the control unit and secure it against inadvertent switching on.
- Pull the deflector cone **1** off the nozzle insert **3**.
- Unscrew the outer nut **2** from the spray gun housing **4**.
- Carefully pull the nozzle insert **3** out of the spray gun housing **4**.



Caution

When pulling out and inserting the nozzle insert, ensure that the insert is not damaged!

- Remove powder residue from the parts removed, from the spray gun and the powder container.
- Mount the cleaned or a new powder container **H**.





Hint

An individual powder container can be used for each color.

- Prior to re-fitting, check whether the mating faces on the nozzle insert **3** and in the spray gun housing **4** have been thoroughly cleaned so that the electrode tip is electrically connected to the high voltage generator.
- Carefully refit the nozzle insert **3** in the spray gun housing **4** and tighten using the outer nut **2**.
- Slide the deflector cone back over the nozzle insert.

The spray gun is ready for use again and you may begin with the setting of the spray pattern in accordance with chapter [3.1](#).

4. Maintenance and cleaning

 WARNING	 CAUTION
<p>WHEN CLEANING THE ELECTROSTATIC SYSTEM, THESE SAFETY PROCEDURES MUST BE FOLLOWED. FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN AN EXPLOSION/FIRE.</p> <ul style="list-style-type: none"> • Turn power pack to the "OFF" position and unplug from power source before starting to clean. • Exhaust and fresh air introduction must be maintained during the clean up operation. • Keep cleaning materials in approved safety containers. • All personnel and cleaning equipment, including container used in cleaning operation, must be grounded. • DO NOT turn on the POWER PACK until the cleaning operation has been completed, all cleaning materials have been removed from spray area, and spray area is free of any mixtures of powder and air produced by the cleaning operation. • If defects in the equipment are found, DO NOT use until repairs are completed. 	<ul style="list-style-type: none"> • Clean equipment immediately after use. • NEVER IMMERSE SPRAY GUN OR PARTS OF IT IN ANY FLUID AT ANY TIME. • Be sure the Power Pack is turned off and unplugged from the power source. <p style="text-align: center;">NOTE</p> <ul style="list-style-type: none"> • The powder passages of the spray gun should be cleaned while cleaning the powder hose and powder pump, following instructions, provided with the powder pump (injector). (See powder injector operating manual) • Clean the spray tip by removing from spray gun, flushing with air and replacing on spray gun.



Caution

Repair or replacement of the spray gun or parts of the spray gun are only allowed to be performed outside the hazard area and in a suitable place by specialist personnel!

4.1 Replacing the spray gun

Before you commence the replacement of the spray gun, remove any powder residue in accordance with chapter [3.3](#).

The consumables in the spray gun, marked in the spare parts list with *, must be regularly checked and, if necessary replaced.

- Switch off the control unit and disconnect the gun cable from the control unit.
- Disconnect the hose for the compressed air supply from the spray gun.

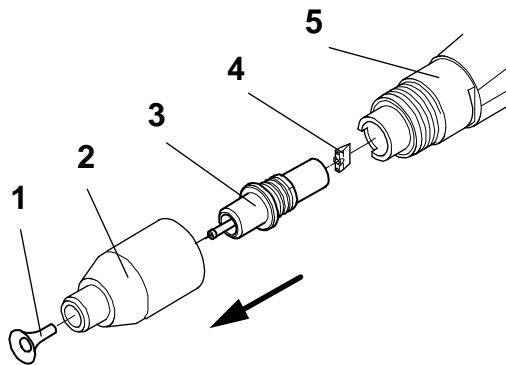
4.2 Cleaning the spray gun and replacing the wear parts

The wear and spare parts required for this can be found in chapter [6.2](#) of this operating instructions.



Caution

Never place the spray gun or parts of the spray gun in cleaning agent!



- Pull the deflector cone **1** off the nozzle insert **3**.
- Unscrew the outer nut **2** from the spray gun housing **5**.
- Carefully pull the nozzle insert **3** out of the spray gun housing **5**.
- Separate the safety wedge **4** from the nozzle insert **3**.
- Clean the parts removed and spray gun of powder residue.

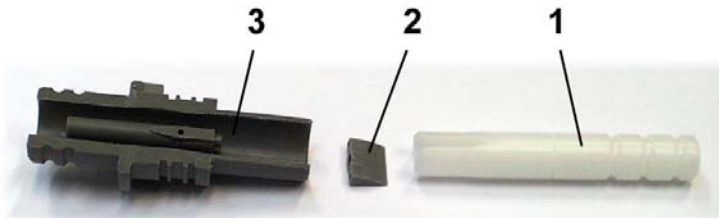
As a rule you only need to check the safety wedge **4** for wear and replace it as necessary.

In the next section it is described how the safety wedge is to be inserted.

4.3 Inserting the safety wedge

 **Hint**

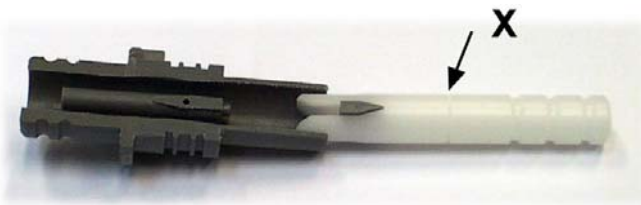
The **C3 generation of spray guns** has a longer nozzle insert than the previous versions. To ensure that the nozzle insert is not damaged on the insertion of the new safety wedge, a wedge tool is available for assembly (article number **0351986**).



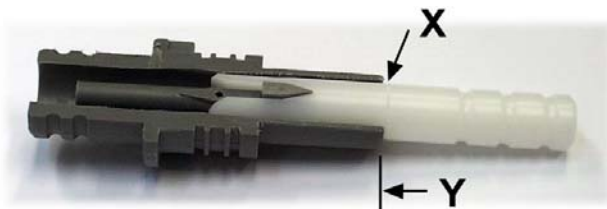
- 1** Wedge tool
- 2** Safety wedge
- 3** Nozzle insert (cut away)

Before you commence the insertion of the new safety wedge, pull the worn safety wedge out of the nozzle insert using serrated, narrow flat-nosed pliers.

Proceed as described below:



1. Guide the safety wedge **2** into the wedge tool **1**.
2. Insert both parts in the opening on the nozzle insert to the stop.
3. If it is not possible to push the wedge tool in as far as the mark **X**, rotate the wedge tool a little until it can be pushed into the mark.



- The mark **X** must be flush with the end **Y** of the nozzle insert.
4. The safety wedge is now correctly assembled and you can pull the wedge tool back out of the wedge tool.

The safety wedge remains inserted in the nozzle insert.

- Prior to re-fitting, check whether the mating surface on the nozzle insert **3** and in the spray gun housing **5** have been thoroughly cleaned so that the electrode tip is electrically connected to the high voltage generator.
- Carefully fit the nozzle insert in the spray gun housing and fasten in place using the outer nut.
- Slide the deflector cone back over the nozzle insert.

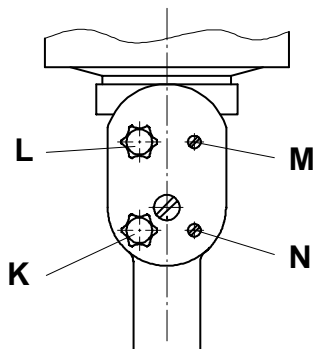
The spray gun is ready for use again.

4.4 Check the standard settings

The spray gun has a factory setting for generating an optimum spray pattern with any standard powder:

Input air pressure:	max. 29 psi (2 bar)
Powder output quantity:	max. 200 g/min
Type of powder:	Standard powder with a grit size distribution of 35 ... 40% < 32 µm

- Check the input air pressure and readjust if necessary.
- Check the fluid base of the powder container for damage and replace with a new one if necessary.



- K** Set feed air 1)
- L** Set fluid air 1)
- M** Set dosage air 1)
- N** Set atomizing air 1)

1) Turning counter-clockwise the value is increased.



Caution

The spindles **M** and **N** should be **never** screwed in completely
(**Danger of destruction!**).

The spray pattern can be reset if necessary by adjusting the dosing air **M** and/or atomizing air **N**.



Hint

At a desired powder output of more than 200 g/min increase the input air pressure of the spray gun at the control unit to max. 58 psi (4 bar):

- The powder output can get to a maximum of 300 g/min.
- Normally the dosage air **M** and the atomizing air **N** have not to be adjusted.

5. Rectification of malfunctions

Malfunction	Cause	Rectification
No electrostatic (e.g. no wrap around or no powder adhesion)	<ul style="list-style-type: none"> - Fault in the high voltage generator - Electrical cable from spray gun to control unit faulty - Cascade in spray gun faulty 	<ul style="list-style-type: none"> - Contact Wagner Service
Poor wrap around Back spray	<ul style="list-style-type: none"> - Inadequate or no ground 	<ul style="list-style-type: none"> - See chapter 2.4
Powder outlet uneven or inadequate	<ul style="list-style-type: none"> - Bad compressed air supply - Powder container is not sitting tightly - Soiling in the powder - Blockages in the gun - Feed air / dosage air ratio incorrect - Wear 	<ul style="list-style-type: none"> - Check compressed air supply - Tighten powder container properly - Empty the powder container and blow through powder air channels - Dismantle spray gun and clean the parts in accordance with chapter 3.3 - Redetermine the feed air- / dosage air ratio in accordance with chapter 4.4 - Replace worn parts
Spray pattern is uneven	<ul style="list-style-type: none"> - Nozzle system wear 	<ul style="list-style-type: none"> - Replace nozzle system in accordance with chapter 4.2
Fluidization inadequate or has failed	<ul style="list-style-type: none"> - Fluid air too low - Powder container is not sitting tightly - Soiling or blockage of fluidized bed - Wear 	<ul style="list-style-type: none"> - Readjust the fluid air with the green setting knob - Retighten the powder container - Clean fluidized bed connection and fluidization disc - Change worn out parts (e.g. fluidization disc)

6. Spare parts lists and accessories

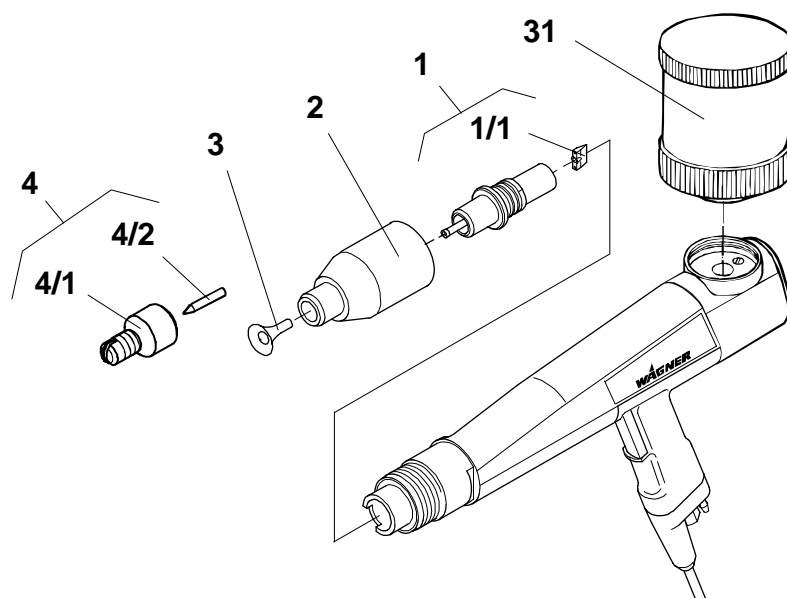
6.1 How to order spare parts

Faulty and unserviceable parts are replaced in accordance with our General Terms and Conditions of Delivery.

In order to be able to guarantee safe and smooth spare parts delivery, the following information is necessary:

- Invoicing address
- Delivery address
- Name of contact person for check back
- Type of delivery
- Quantity ordered, article number and description

6.2 Cup gun PEM-CG3



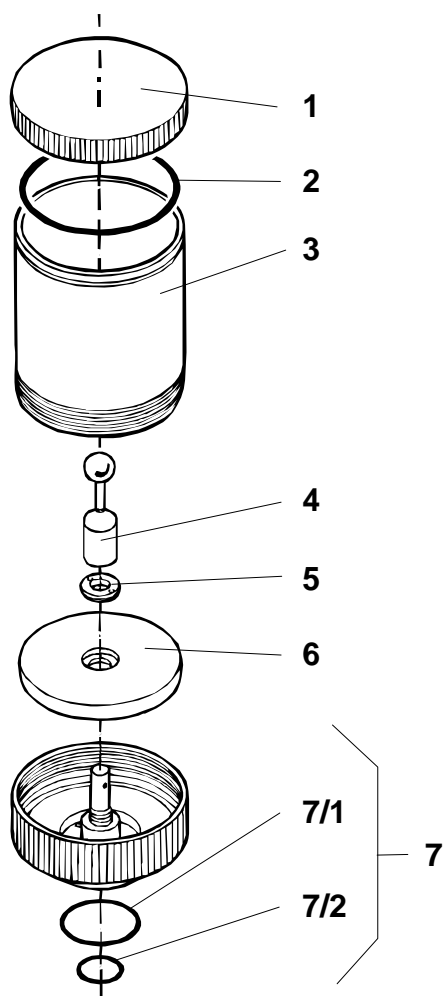
Item	Article No.	Description
	0351035	Cup gun PEM-CG3
1	0351940 *	Nozzle insert **
1/1	0351339 *	Wedge
2	0351620	Outer nut ET
3	0351225 *	Deflector cone (Ø17)
3	0351226 *	Deflector cone (Ø25)
3	0351227 *	Deflector cone (Ø32)
4	0351901 *	Fan spray nozzle **
4/1	0351232 *	Fan spray nozzle
4/2	0351346 *	Air nozzle

* Wear item

** only available as a set

Item	Article No.	Description
31	3050701	Powder container 500 cm ³
--	9982079	Hose (black) external Ø 6x1: Pneumatic line from the control unit feed air connection to the spray gun compressed air connection
--	9998137	Reduction 8/6: For connecting the pneumatic line to the control unit feed air connection EPG 2007

6.3 Accessories



Item	Article No.	Description
	3050701	Powder container 500 cm³
	3053662	Powder container 900 cm³
1	3050737 *	Container lid
2	3050748 *	O-ring 80x2
3	3050735	Cup tube 500 cm ³
3	3050736	Cup tube 900 cm ³
4	3050734	Cover
5	3050739	Nut
6	3050738 *	Fluidization disc
7	3050733	Cup socket **
7/1	3050742 *	O-ring 39x2
7/2	9971137 *	O-ring 20x2

* Wear item

** only available as a set

7. Technical data

Weight: 890 g

Electrical:

Input voltage:	max. 22 Vpp
Input current:	max. 0.9 A
Frequency:	19 ... 30 kHz
Output voltage:	max. 100 kV DC
Output current:	max. 160 μ A DC
Polarity:	negative
Design:	as per EN 50050
Protection class:	IP 54

Pneumatic:

Input air pressure (atomizing air):	max. 29 psi (2 bar - standard setting)
Powder output quantity:	max. 200 g/min at 29 psi (2 bar) [max. 300 g/min at 58 psi (4 bar)]

Compressed air quality in accordance with ISO 8573-1, class 3.5.2:

Residual water in the compressed air:.....	max. 1.3 g H ₂ O/Nm ³ at pressure dew point 7 °C / 45 °F and 700 kPa
Residual oil in the compressed air:.....	max. 0.1 mg oil /Nm ³
Residual dust in the compressed air:.....	max. 5 mg dust /Nm ³
Particle size in the compressed air:.....	max. 5 μ m

Ambient conditions:

On the usage of low melting point types of powder, an ambient temperature below 30 °C/86 °F may be necessary.

8. Supplement

8.1 Applicable safety regulations and list of sources

EN 292-1/-2	Machine Safety	(Published by Beuth-Verlag, Berlin)
EN 50281-1-1/-2	Electrical equipment for use in areas with flammable dust	(Published by Beuth-Verlag, Berlin)
EN 61000-6-1	Electro-magnetic compatibility (EMC) generic standard resistance to interference	(Published by Beuth-Verlag, Berlin)
EN 61000-6-2	Electro-magnetic compatibility (EMC) Basic Standards – Interference resistance within industry	(Published by Beuth-Verlag, Berlin)
EN 61000-6-3	Electro-magnetic compatibility (EMC) generic standard interference emissions	(Published by Beuth-Verlag, Berlin)
EN 60204-1	VDE guidelines for the electrical equipment of machines	(Published by Beuth-Verlag, Berlin)
BGI 764	Safety regulations for electrostatic powder coating in coating equipment's (Operating conditions)	(Published by C. Heymanns-Verlag, Cologne)
BGR 132 (ZH1/200)	Safety regulations governing prevention of combustion during electrical charging	(Published by C. Heymanns-Verlag, Cologne)
prEN 12981	Safety requirements for coating equipment in spray booths for organic powder	(Published by Beuth-Verlag, Berlin)
EN 50050	Electrostatic manual powder coating equipment	(Published by Beuth-Verlag, Berlin)
EN 50053-2	Regulations for selecting, installing and operating electrostatic powder coating systems, electrostatic manual powder coating systems	(Published by Beuth-Verlag, Berlin)
VDE 0132	Instructions for fire fighting in electric equipment and nearby	(Published by Beuth-Verlag, Berlin)
VdS 2093 and VdS 2325	Safety regulations governing CO ₂ fire extinguishers	(VdS Box 10 20 24 50460 Cologne)
VDE 0134	Instructions for first aid in case of accident	(Published by Beuth-Verlag, Berlin)

8.2 Warranty

What is covered by this warranty?

Faulty or defective parts are replaced according to our general delivery conditions.

Within the applicable warrant period, Wagner will repair or replace, at our option, defective parts without charge if such parts are returned with transportation charges prepaid to the nearest authorized service center. If Wagner is unable to repair this product so as to conform to this Limited Warranty after a reasonable number of attempts, Wagner will provide, at our option, either a replacement for this product or a full refund of the purchase price of this product.

These remedies are the sole and exclusive remedies available for breach of express and implied warranties.

What is not covered by this warranty?

This warranty does not cover any of the following damages or defects:

1. Damages or defects caused by use or installation of repair or replacement parts or accessories not manufactured by Wagner,
2. Damages or defects caused by repair performed by anyone other than a Wagner authorized service center, or
3. Damages or defects caused by or related to abrasion, corrosion, abuse, misuse, negligence, accident, normal wear, faulty installation or tampering in a manner which impairs normal operation.

Limitation of remedies:

IN NO CASE SHALL WAGNER BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OR LOSS, INCLUDING TRANSPORTATION COSTS, WHETHER SUCH DAMAGES ARE BASED UPON A BREACH OF EXPRESS OR IMPLIED WARRANTIES, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY.

Disclaimer of implied warranties:

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.


No ability to transfer:

This warranty is extended to the original purchaser only and is not transferable.

Your rights under state law:

Some states do not allow limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights; you may also be entitled to other rights, which vary from state to state.

8.3 EU Declaration of conformity

 Wagner hereby declares that the unit described in these operating instructions has been designed and manufactured according to the provisions of EU Directives 98/37/EC, 94/9/EC, 73/23 EEC and 89/336 EEC.

The following **European** standards have been applied:

EN 292-1/-2	EN 50281-1-1/-2	EN 61000-6-1
EN 61000-6-2	EN 61000-6-3	EN 60204-1
EN 50053-2	EN 50050	

The following **German** standard or guideline has been applied:

BGI 764

An **EC declaration of conformity certificate (no. 0351952)** exists for this product. This can be ordered again if necessary from your WAGNER dealer by giving details of the product and serial number involved.

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