Operating instructions and spare parts list

Manual coating equipment OptiFlex 2 C



Translation of the original operating instructions



Documentation OptiFlex 2 C

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General safety regulations

This chapter sets out the fundamental safety regulations that must be followed by the user and third parties using OptiFlex 2 C manual coating equipment.

These safety regulations must be read and understood in full before the OptiFlex 2 C is put into operation.

Safety symbols (pictograms)

The following warnings with their meanings can be found in the ITW Gema operating instructions. The general safety precautions must also be followed as well as the regulations in the operating instructions.



DANGER!

danger due to live electricity or moving parts. Possible consequences: death or serious injury



WARNING!

improper use of the equipment could damage the machine or cause it to malfunction. Possible consequences: minor injuries or damage to equipment



INFORMATION!

Useful tips and other information

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General information

The OptiFlex 2 C manual coating equipment is state of the art equipment that conforms to the recognized technical safety regulations and is designed for normal powder coating applications.

Any other use is considered non-compliant. The manufacturer shall not be liable for damage resulting from such use; the user bears sole responsibility for such actions. ITW Gema GmbH must be consulted before OptiFlex 2 C manual coating equipment is used for any other purposes or substances beyond those indicated here.

Observance of the operating, service and maintenance instructions specified by the manufacturer is also part of conformity of use.

The relevant accident prevention regulations, as well as other generally recognized safety regulations, occupational health and structural regulations are to be observed.

Furthermore, the country-specific safety regulations also must be observed.

Additional safety and operation notices can be found on the accompanying CD or on the homepage www.itwgema.ch.



General dangers Start-up is forbidden until it has been established that the OptiFlex 2 C manual coating equipment has been set up and wired according to the EU guidelines for machinery.

Unauthorized modifications to the OptiFlex 2 C Manual coating equipment exempt the manufacturer from any liability from resulting damages or accidents.

The operator must ensure that all users have received appropriate training for powder spraying equipment and are aware of the possible sources of danger.

Any operating method, which will negatively influence the technical safety of the powder spraying equipment, is to be avoided.



For your own safety, only use accessories and attachments listed in the operating instructions. The use of other parts can lead to risk of injury. Only original ITW Gema spare parts should be used!

Repairs must only be carried out by specialists or by authorized ITW Gema service centers. Unauthorized conversions and modifications can lead to injuries and damage to the equipment and invalidate the ITW Gema GmbH guarantee.

The connecting cables between the control unit and the spray gun must be installed so as to eliminate the possibility of damage during the operation. Please observe the local safety regulations!

The plug connections between the powder spraying equipment and the mains should only be removed when the power supply is switched off.

All maintenance activities must take place when the powder spraying equipment is switched off.

The powder coating equipment may not be switched on until the booth is in operation. If the booth stops, the powder coating device must switch off too.

The control units for the spray guns must be installed and used in zone 22. Spray guns are allowed in zone 21.

Only original ITW Gema OEM parts are guaranteed to maintain the explosion protection rating. If damages occur related to the use of spare parts from other manufacturers, all relevant warranty or compensation claims are void!

Conditions leading to dangerous levels of dust concentration in the powder spraying booths or in the powder spraying areas must be avoided. There must be sufficient technical ventilation available, to prevent a dust concentration of greater than 50% of the lower explosion limit (UEG = max. permissible powder/air concentration). If the UEG is not known, then a value of 10 g/m³ should be considered (see EN 50177).

All unauthorized conversions and modifications to the electrostatic spraying equipment are forbidden for safety reasons.

The safety devices may not be dismantled or put out of operation.

Mandatory operational and workplace notices from the operating company must be written in a comprehensible manner in the language of equipment operators and posted in a suitable place.





Explosion hazard





Powder lying on the floor around the powder spraying equipment is a potentially dangerous source of slipping. Booths may be entered only in the places designed for this purpose.

Static charges

Static charges can have the following consequences: Charges to people, electric shocks, sparking. Proper grounding must be in place to prevent objects from becoming charged.

Grounding

All electrically conductive parts found within 5 meters around each booth opening, and in particularly the objects to be coated, must be grounded. The grounding resistance of each object must amount to maximally 1 MOhm. This resistance must be checked/tested regularly when starting work.

The condition of the work piece attachments, as well as the hangers, must guarantee that the work pieces remain grounded. The appropriate measuring devices must be kept ready in the workplace, in order to check the grounding.

The floor of the coating area must conduct electricity (normal concrete is generally conductive).

The supplied grounding cable (green/yellow) must be connected to the grounding screw of the electrostatic manual powder coating equipment. The grounding cable must have a good metallic connection with the coating booth, the recovery unit and the conveyor chain, respectively with the suspension arrangement of the objects.



Smoking and igniting fire are forbidden in the entire vicinity of the system! No work that could potentially produce sparks is allowed!

Fire and smoke prohibition











The stay for persons with cardiac pacemakers is forbidden



Photographing with flashlight is forbidden



Disconnect from mains before maintenance works take place







As a general rule for all powder spraying installations, persons with pacemakers should never enter high voltage areas or areas with electromagnetic fields. Persons with pacemakers should not enter areas with powder spraying installations!

Photographing with flashlight can lead to unnecessary releases and/or disconnections by safety devices.

Disconnect the plugs before the machines are opened for maintenance or repair.

The plug connections between the powder spraying equipment and the mains should only be removed when the power supply is switched off.

As far as it is necessary, the operating firm must ensure that the operating personnel wear protective clothing (e.g. facemasks).

A dust mask corresponding to filter class FFP2 at minimum must be worn during any cleaning work.

The operating personnel must wear electrically conductive, steel-toe footwear (e.g. leather soles).

The operating personnel should hold the gun with bare hands. If gloves are worn, these must also conduct electricity.

These general safety regulations must be read and understood in all cases prior to start-up!

Conformity of use

- The OptiFlex 2 C manual coating equipment is state of the art equipment that conforms to the recognized technical safety regulations and is designed for normal powder coating applications.
- 2. Any other use is considered non-compliant. The manufacturer shall not be liable for damage resulting from such use; the user bears sole responsibility for such actions. ITW Gema GmbH must be consulted before OptiFlex 2 C manual coating equipment is used for any other purposes or substances beyond those indicated here.
- Observance of the operating, service and maintenance instructions specified by the manufacturer is also part of conformity of use. The OptiFlex 2 C manual coating equipment should only be used, maintained and started up by trained personnel informed and familiar with the possible hazards involved.
- 4. Start-up (i.e. operation of its intended use) is not allowed until it has been established that the OptiFlex 2 C manual coating equipment has been installed and wired according to the EU Machinery Directive (2006/42/EC). EN 60204-1 (machine safety) must also be observed.
- 5. Unauthorized modifications to the OptiFlex 2 C manual coating equipment exempt the manufacturer from any liability from resulting damage.
- 6. The relevant accident prevention regulations, as well as other generally recognized safety regulations, occupational health and structural regulations are to be observed.
- 7. Furthermore, the country-specific safety regulations also must be observed.

Product-specific safety measures

- Installation work performed by the customer must be carried out according to local regulations.
- All components must be grounded according to the local regulations before start-up.

OptiFlex 2 C Manual coating equipment

The OptiFlex 2 C manual coating equipment is a constituent part of the equipment and is therefore integrated in the system's safety concept.

If it is to be used in a manner outside the scope of the safety concept, then corresponding measures must be taken.



Note:

For further security information, see the more detailed ITW Gema safety regulations!

About this manual

General information

This operating manual contains all important information required to work with the OptiFlex 2 COptiFlex 2 C-en.doc manual coating equipment. It will safely guide you through the start-up process and give you references and tips for the optimal use of your new powder coating system.

Information about the functionality of the individual system components booth, gun control unit, manual gun or powder injector - should be referenced to their enclosed corresponding documents.

Product description

Field of application

The OptiFlex 2 C (with application cup) manual coating equipment is exclusively intended for electrostatic coating using organic powders (For more on this please also review chapter "Technical Data").

Any other use is considered non-compliant. The manufacturer is not responsible for any incorrect use and the risks associated with such actions are assumed by the user alone!

For a better understanding of the interrelationships in powder coating, it is recommended that the operating instructions for all other components be read as well, so as to be familiar with their functions too!



OptiFlex 2 C Manual coating equipment

Utilization

The electrostatic OptiFlex 2 C manual coating equipment with the OptiFlex 2 GM03 manual powder gun is ideally suited for manual coating of objects.



Reasonably foreseeable misuse

- Operation without the proper training
- Use with insufficient compressed air quality and grounding
- Use in connection with unauthorized coating devices or components

Technical data

Connectable guns

OptiFlex 2 C	connectable
OptiFlex 2 GM03	yes



Warning: The OptiFlex 2 C manual coating equipment can only be used with the specified gun type!

Air flow rates

The total air consists of conveying air and supplementary air, in relation to the selected powder quantity (in %). As a result the total air volume is maintained constant.

OptiFlex 2 C	Range	Factory setting
Flow rate - fluidizing air		
- OptiFlex C	0-5.0 Nm³/h	1.0 Nm³/h
Electrode rinsing air flow rate	0-3.0 Nm³/h	0.1 Nm³/h
Flow rate total air (at 5.5 bar)	1.8-6.5 Nm³/h	



Note:

The total air consumption for the device is determined based on the 3 configured air values.

These values apply for an internal control pressure of 5.5 bar!

Electrical data

OptiFlex 2 C	
Nominal input voltage	100-240 VAC
Frequency	50 -60 Hz
Connected load	40 VA
Nominal output voltage (to the gun)	eff.10 V
Nominal output current (to the gun)	max. 1.2 A
Connection for rinsing function (valve)	24 VDC max. 3 W
Temperature range	0°C - +40°C (+32°F - +104°F)
Max. surface temperature	100 °C (+212 °F)
Approvals	€ €

Pneumatic data

OptiFlex 2 C	
Max. input pressure	10 bar
Min. input pressure	6 bar
Input pressure (Dynamic based on pressure regulator setting)	5.5 bar / 80 psi
Max. water vapor content of the compressed air	1.3 g/m³
Max. oil vapor content of the compressed air	0.1 mg/m ³
Max. compressed air consumption	11 Nm³/h

Dimensions

OptiFlex 2 C	
Width	444 mm
Depth	310 mm
Height	428 mm
Weight	12 kg

Processible powders

OptiFlex 2 C	
Plastic powder	yes
Metallic powder	yes
Enamel powder	no

Design and function

General view



OptiFlex 2 C manual coating equipment - Setup

- 1 OptiFlex 2 CG09 control unit 10 Filter unit
- 2 OptiFlex 2 GM03 manual powder gun
- 3 Application cup
- 4 Base

11 Gun holder
14 Shelf

.....

OptiFlex 2 GM03 manual powder gun

All information about the OptiFlex 2 CM03 manual powder gun can be found in the documentation for that equipment (enclosed with this manual)!

OptiFlex 2 CG09 control unit

All information about the OptiFlex 2 CG09 manual gun control unit can found in the documentation for that equipment (enclosed with this manual)!

Application cup

All information about the application cup will be found in the corresponding, enclosed documentation!

Scope of delivery

OptiFlex 2 C

- OptiFlex 2 CG09 control unit in a metal case with power supply cable
- Base with column and filter unit
- Application cup, complete with pneumatic connection to the control unit
- OptiFlex 2 CM03 manual powder gun with gun cable, powder hose, rinsing air hose and standard nozzle set (For more on this, see the operating manual for the OptiFlex 2 CM03 manual powder gun)
- Operating manual
- Short instructions

Typical properties - Characteristics of the functions

Processing the powder from the application cup

The OptiFlex 2 C manual coating equipment processes powder from the application cup.

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Start-up

Preparation for start-up

Basic conditions

When starting up the OptiFlex 2 C manual coating unit, the following general conditions impacting the coating results must be taken into consideration:

- Manual coating equipment is set up properly
- Gun control unit correctly connected
- Gun correctly connected
- Corresponding power and compressed air supply available
- Powder preparation and powder quality

Set-up

The OptiFlex 2 C manual coating equipment should always be set up vertically on a flat surface.



WARNING

The manual coating equipment must not under any circumstances be set up near a heat source (such as an enameling furnace) or an electromagnetic source (such as a control cabinet).

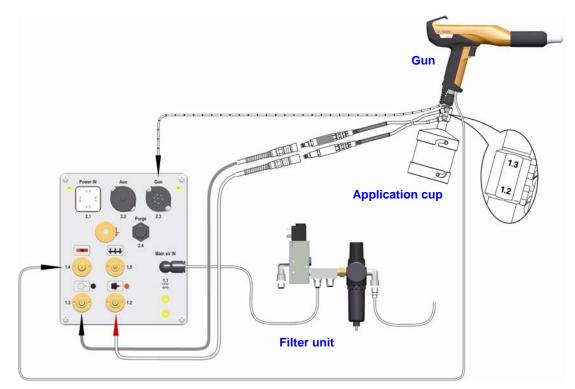
Mounting instructions

The OptiFlex 2 C manual coating equipment must be set up in accordance with the setup and connecting instructions (included with delivery).



OptiFlex 2 C Manual coating equipment

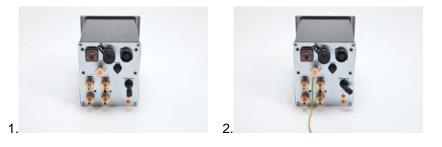
Connection instructions



Connection instructions - overview

The OptiFlex 2 C manual coating equipment must be connected in accordance with the setup and connection instructions (Please also review the operating instructions for the OptiFlex 2 CG09 manual gun control unit).

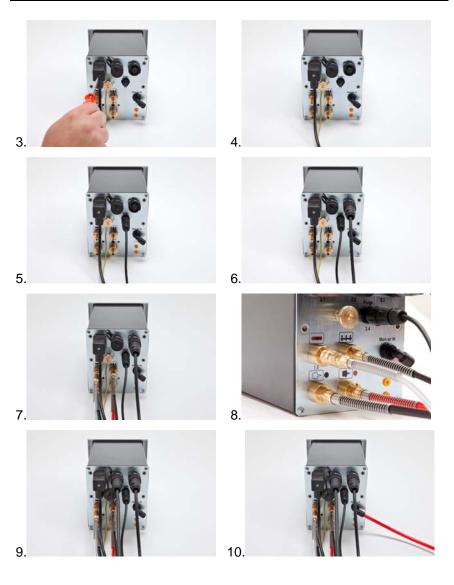
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Note:

Use clamp to connect grounding cable to the cabin or the suspension arrangement. Check ground connections with Ohm meter and ensure 1 MOhm or less!





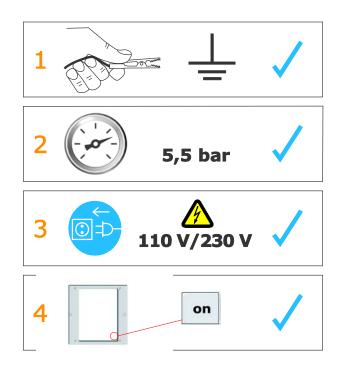
Note:

The compressed air must be free of oil and water!

Initial start-up



Note: If a malfunction occurs, see the troubleshooting guide, as well as the gun control unit operating manual!





Note:

The remainder of the start-up procedure for the OptiFlex 2 GM03 manual powder gun is explicitly described in the operating instructions for the OptiFlex 2 CG09 manual powder gun control unit (chapter "Initial start-up" and "Daily start-up")!

Setting the device type



Note:

If the control unit is delivered as a integral component of an OptiFlex apparatus, then the system parameters will have been factory preconfigured for optimal use (For more on this, please also see the operating instructions for the OptiFlex 2 CG09 manual gun control unit)!



NOTE!

The manual gun control unit always starts up to the last configured settings.

Operation



Coating

WARNING

If the manual equipment is not being used for coating in conjunction with a sufficiently powerful suction unit, then the stirred-up dust from the coating powder can cause respiratory issues or cause a slippage/falling hazard.

- The manual equipment may only be operated in conjunction with a sufficiently powerful suction unit (such as Gema Classic Open booth).
 - 1. Turn on the gun control unit with the **ON** key The displays illuminate and the control unit is ready for operation
 - 2. Fill in the desired powder quantity in the application cup
 - 3. Carefully place the dip tube into the powder, in order to avoid the clogging of the dip tube
 - 4. Lock the bayonet closure
 - 5. Set coating parameters:
 - 6. Press the application button for the appropriate preset mode:

flat parts	
complicated parts	Þ
overcoat	\bigcirc

The arrow above the desired button lights up



OR

- 7. Press program key
 - a) Select desired program (01-20)



b) Change coating parameters as required

i

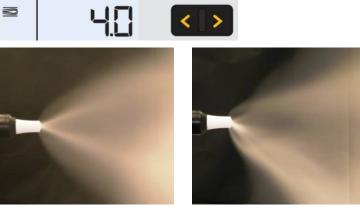
Note:

Programs 01-20 are preset at the factory but can be modified at any time, after which they are automatically stored.



Description	Presetting
Powder output 名	50%
Total air 🔤	4.0 Nm³/h
High voltage kV	80 kV
Spray current ^{µA}	80 μA
Electrode rinsing air <	0.1 Nm³/h
Fluidizing air 🚥	0.0 Nm ³ /h (for OptiFlex-C)

8. Setting the total air volume



correct powder cloud

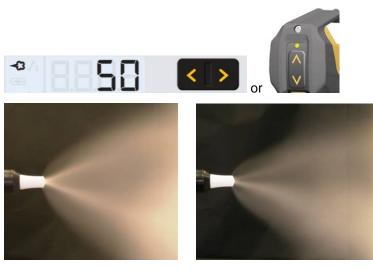
too little total air



Note:

A total air volume of 4 Nm³/h and a 50% powder share are recommended as the base values.

9. Adjust the powder output volume (e.g. according to the desired coating thickness)



much powder

little powder







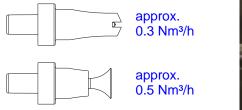
Note:

To achieve maximum efficiency, we recommend avoided an overly high powder volume where possible! The standard setting of 50% and a total air volume of $4 \text{ Nm}^3/\text{h}$ is recommended at the start. The total air volume is thereby kept constant automatically by the control unit.

If values are entered that the equipment cannot implement, then the operator is informed of this by a blinking in the relevant display and a temporary error message!

10. Setting the electrode rinsing air





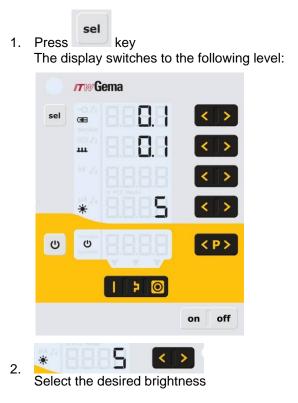


too much electrode rinsing air

- 11. Point the gun into the booth (not at the object to be coated), press the gun trigger and visually check the powder output
- 12. Check whether everything is functioning correctly
- 13. Coating
- 14. Adjust the coating parameters as necessary



Setting the background illumination



Color change

General information

When a color change takes place, the individual components of the manual coating equipment must be cleaned carefully. All powder particles of the former color must be removed during this process!

- 1. Clean the application cup (see therefore the application cup user manual)
- 2. Dismantle and clean the powder gun (see therefore the user manual of the Manual powder gun)
- 3. Prepare the manual coating equipment with new powder for start-up

Shutdown

- 1. Release gun trigger
- 2. Switch off the control unit



Note:

The adjustments for high voltage, powder output, electrode rinsing air and fluidizing remain stored!

If in disuse for several days

- 1. Separate from power mains
- 2. Clean coating apparatus (see Chapter on "Cleaning and maintenance")
- 3. Turn off the compressed air main supply

Cleaning and maintenance



Note:

Regular and conscientious maintenance increases the service life of the OptiFlex 2 C manual coating equipment and provides for a longer continuous coating quality! The parts, which are to be replaced during maintenance work, are available as spare parts. These parts will be found in the corresponding spare parts list!

Daily maintenance

- 1. Clean the application cup (see therefore the application cup user manual)
- 2. Clean the powder gun (For more on this, please also review the user manual for the OptiFlex 2 GM03 manual powder gun)

Weekly maintenance

- 1. Clean the gun and the application cup.
- 2. Check the control unit grounding connections to the coating booth, the suspension devices of the work pieces, or the conveyor chain

If in disuse for several days

- 1. Separate from power mains
- 2. Clean the coating equipment
- 3. Clean the application cup
- 4. Turn off the compressed air main supply

Cleaning



If no dust mask or one of an insufficient filter class is worn when cleaning the manual equipment, then the dust that is stirred up from the coating powder can cause respiratory problems.

- The ventilation system must be turned on for all cleaning work.
- A dust mask corresponding to filter class FFP2 at minimum must be worn during any cleaning work.

Cleaning the application cup



Note:

Before cleaning the application cup, switch off the control unit. The compressed air used for cleaning must be free of oil and water!



Warning: It is not permitted to clean the application cup with solvents! Do not clean the fluidizing plate with solvents or other fluidities.

- 1. Empty any powder out of the application cup
- 2. Clean the gun and the outside of the application cup by blowing off, wiping etc.
- 3. Release the bayonet closure between cup cover and cup
- 4. Clean the cup
- 5. Pull out the dip tube and clean it
- 6. If necessary, activate the den PowerClean mode (see also the gun operating instructions)
- 7. Clean the cup with compressed air
- 8. Clean the fluidizing plate with compressed air (free of oil and water)

Cleaning the OptiFlex 2 GM03 manual powder gun

Frequent cleaning of the gun helps to guarantee the coating quality.



Note: Before cleaning the powder gun, switch off the control unit. The compressed air used for cleaning must be free of oil and water!

Daily:

1. Blow off the outside of the gun and wipe, clean etc.

Weekly:

- 2. Remove the powder hose from the connection
- 3. Remove the spray nozzle from the gun and clean it



- 4. Blow out the gun from the connection in flow direction with compressed air
- 5. Clean the integrated gun tube with the provided gun brush
- 6. Blow through the gun with compressed air again
- 7. Clean the powder hose
- 8. Reassemble the gun and connect it



Note:

Please also review the user manual for the OptiFlex 2 GM03 manual powder gun!

Maintenance and cleaning of the filter unit

The filter unit on the OptiFlex 2 C manual coating equipment measures and cleans the compressed air. This is where the equipment's main compressed air connection is located.

Replacing the filter element

Procedure:

- 1. Unscrew the filter glass on the filter unit
- 2. Loose the cap screw
- 3. Remove the complete filter element



- 4. Replace the filter element
- 5. Clean the filter glass on the inside and install it again



Troubleshooting

General information



Note:

Prior to any troubleshooting measures, always check whether the equipment parameters (P0) as configured in the control unit are correct (See operating instructions for the OptiFlex 2 CG09 manual gun control unit, Chapter "Initial Start-up – Setting Equipment Type")

Fault	Causes	Troubleshooting
Control unit displays remain dark, although	Control unit is not connected to the mains	Connect the equipment with the mains cable
the control unit is switched on	Power pack fuse defective	Replace the fuse
	Power pack defective	Contact local Gema representative
The gun does not spray powder,	Compressed air not present	Connect the equipment to the compressed air
although the control unit is switched on and the gun trigger is	Throttle motor or powder gun are clogged	Clean the corresponding part
pressed	The application cup is not correctly or not connected at all to the control unit	Check the pneumatic connections and if necessary, connect them (see connecting guide)
	Injector nozzle clogged	Dismantle the application cup completely and clean it
	Dip tube clogged	Blow through the dip tube with compressed air and place it in the powder carefully
	Total air incorrectly configured	Set total air correctly (Default value 4 Nm ³ /h)
	Main valve defective	Replace main valve



Fault	Causes	Troubleshooting
Gun LED remains dark, although the gun	Gun not connected	Connect the gun
is triggered	Gun plug, gun cable or gun cable connection defective	Contact local Gema representative
	Remote control on powder gun defective	Contact local Gema representative
Powder does not adhere to object, although the gun is	The objects are improperly or insufficiently grounded	Check grounding, reground at better quality
triggered and sprays powder	High voltage and current deactivated	Press the selection key (application key)
	High voltage cascade defective	Contact local Gema representative
Irregular powder output	Poor closure	Dismantle the application cup completely, check the O-rings and replace them, if necessary
	Pneumatic hoses not correctly connected	Check the connections and connect correctly, if necessary.
	Powder fluidization insufficient or not available	Dismantle and clean the fluidizing plate, replace if necessary
No electrode rinsing air	Rinsing air throttle motor defective	Contact local Gema representative

Spare parts list

Ordering spare parts

When ordering spare parts for powder coating equipment, please indicate the following specifications:

- Type and serial number of your powder coating equipment
- Order number, quantity and description of each spare part

Example:

- Type OptiFlex 2 C Serial number 1234 5678
- Order no. 203 386, 1 piece, Clamp Ø 18/15 mm

When ordering cable or hose material, the required length must also be given. The spare part numbers of this bulk stock is always marked with an *.

Wearing parts are always marked with a #.

All dimensions of plastic hoses are specified with the external and internal diameter:

Example:

Ø 8/6 mm, 8 mm outside diameter (o/d) / 6 mm inside diameter (i/d)



WARNING!

Only original ITW Gema spare parts should be used, because the explosion protection will also be preserved that way. The use of spare parts from other manufacturers will invalidate the ITW Gema guarantee conditions!

OptiFlex 2 C manual coating equipment - Spare Parts List

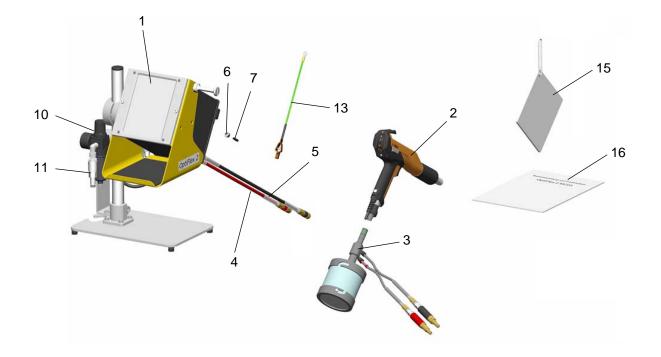
1	CG09 gun control unit - complete (see corresponding operating manual)	1007 018
2	GM03 manual powder gun - complete (see corresponding user manual)	1008 070
3	Application cup 500 ml - complete (see corresponding user manual)	1002 069
4	Pneumatic connection for conveying air - complete (incl. Pos. 4.1, 4.2, 4.3)	
4.1	Quick release connection - NW5, Ø 8 mm, red	261 645
4.2	Nut with kink protection – M12x1 mm, Ø 8 mm	201 316
4.3	Plastic tube - Ø 8/6 mm, red	103 500*
5	Pneumatic connection for supplementary air - complete (incl. Pos. 5.1, 5.2 and 5.3)	
5.1	Quick release connection - NW5, Ø 8 mm, black	261 637
5.2	Nut with kink protection – M12x1 mm, Ø 8 mm	201 316
5.3	Plastic tube - Ø 8/6 mm, black	1008 038*
6	Nut - M10x1-Ø 6 mm	263 052
7	Screw cap - Ø 6 mm	263 044
10	Pneumatic group - complete (see corresponding spare parts list)	
11	Quick release connection - NW7.8 - Ø 13 mm	243 647
13	Grounding cable - complete	301 140
15	Short instructions	1007 143
16	OptiFlex 2 C Operating instructions	1008 221
	* Discoss in discrete law oth	

* Please indicate length

Wearing part



OptiFlex 2 C manual coating equipment - Spare Parts



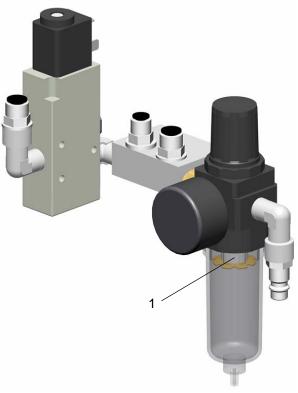
OptiFlex 2 C manual coating equipment - Spare Parts

V 06/11



OptiFlex 2 C - Pneumatic group

	Pneumatic group - complete	1007 120
1	Filter cartridge - 20 um	1007 325



OptiFlex 2 C - Pneumatic group

