En

Operating instructions and spare parts list

OptiGun 2-AE1
Enamel automatic gun
(GA02-E1 type)

CE Ex II 2 D

Translation of the original operating instructions

Gema

Documentation OptiGun 2-AE1 Enamel automatic gun

For the latest information about Gema products, visit www.gemapowdercoating.com.

For patent information, see www.gemapowdercoating.com/patents or www.gemapowdercoating.us/patents.

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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 the OptiGun 2-AE1 Enamel automatic gun.

These safety regulations must be read and understood before the OptiGun 2-AE1 Enamel automatic gun is used.

Safety symbols (pictograms)

The following warnings with their meanings can be found in the 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

Conformity of use

1. The OptiGun 2-AE1 Enamel automatic gun is built to the latest specification and conforms to the recognized technical safety regulations. It is designed for the normal application of powder coating.
2. Any other use is considered as non-conform. The manufacturer is not responsible for damage resulting from improper use of this equipment; the end-user alone is responsible. If the OptiGun 2-AE1 Enamel automatic gun is to be used for other purposes or other substances outside of our guidelines then Gema Switzerland GmbH should be consulted.
3. Observance of the operating, service and maintenance instructions specified by the manufacturer is also part of conformity of use. The OptiGun 2-AE1 Enamel automatic gun should only be

used, maintained and started up by trained personnel, who are informed about and are familiar with the possible hazards involved.

4. Start-up (i.e. the execution of a particular operation) is forbidden until it has been established that the OptiGun 2-AE1 Enamel automatic gun has been set up and wired according to the guidelines for machinery (2006/42 EG). EN 60204-1 (machine safety) must also be observed.
5. Unauthorized modifications to OptiGun 2-AE1 Enamel automatic gun 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 must be observed.

Explosion protection	Protection type	Temperature class
CE Ex II 2 D	IP54	T6 (zone 21) T4 (zone 22)

Product specific security measures

- The installation work, to be done by the customer, must be carried out according to local regulations
- It must be observed, that all components are grounded according to the local regulations, before start-up

OptiGun 2-AE1 Enamel automatic gun

The OptiGun 2-AE1 Enamel automatic gun 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 Gema safety regulations!

About this manual

General information

This operating manual contains all the important information which you require for the working with the OptiGun 2-AE1 Enamel automatic gun. 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 function mode of the individual system components - reciprocators, booths, powder gun controls, powder guns etc. - should be referenced to their corresponding documents.

DANGER:

Working without operating instructions

Working without operating instructions or with individual pages from the operating instructions may result in damage to property and personal injury if relevant safety information is not observed.

- ► Before working with the device, organize the required documents and read the section "Safety regulations".
- ► Work should only be carried out in accordance with the instructions of the relevant documents.
- ► Always work with the complete original document.

Function description

Field of application

The OptiGun 2-AE1 Enamel automatic gun is built exclusively for electrostatic coating with inorganic, non-flammable enamel powders. Any other use is considered as non-conform. The manufacturer is not responsible for any damage resulting from this - the risk for this is assumed by the user alone!

OptiGun 2-AE1 Enamel automatic gun

The extremely light OptiGun 2-AE1 Enamel automatic gun with integrated high voltage generation can produce optimum penetration and high charging efficiency. The vented central electrode allows a high, constant transfer efficiency and a high coating efficiency by symmetrical coating structure. The OptiGun 2-AE1 Enamel automatic gun can be disassembled easily and is maintenance and repair-friendly.

Typical characteristics

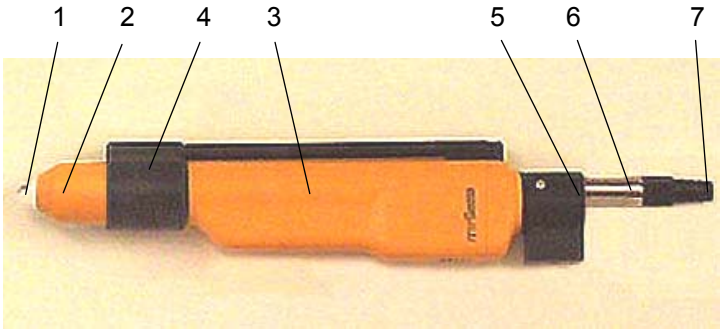
- Continuous, tightly sealed gun body with separate channels for cascade and rinsing air
- Continuous guided powder tube, self-sealing
- Quickly dismountable SuperCorona ring
- Powder tube coupling with quick-release fastener
- Excellent access to the connections due to the snap lock
- The OptiGun 2-AE1 Enamel automatic gun can be disassembled easily and is maintenance and repair-friendly
- Few wear parts (powder tube, nozzle and SuperCorona)
- Self-sealing powder tube (enclosure-tube seat)
- Easily removable cascade because free of grease, with integrated current limiting resistors
- Spring loaded contact between cascade and contact pin
- Easily demountable and cleanable SuperCorona

Scope of delivery

- A OptiGun 2-AE1 Enamel automatic gun
- Gun cable
- Round jet nozzle with deflector
- Gun cleaning brush
- Cable binder with Velcro closure and spare parts set

OptiGun 2-AE1 Enamel automatic gun

Structure



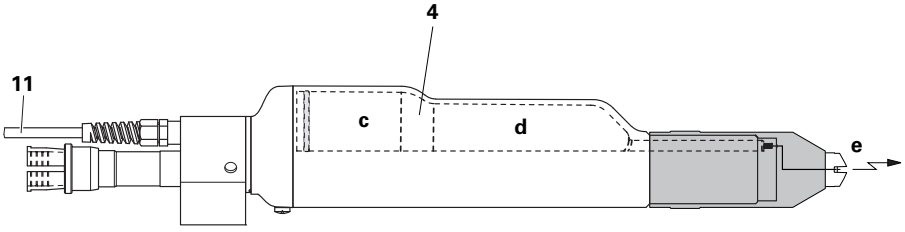
OptiGun 2-AE1 Enamel automatic gun - structure

1 Spray nozzle
2 Threaded sleeve
3 Shaft
4 SuperCorona ring
5 Gun fixture
6 Powder tube
7 Hose connection

High voltage generation

The control unit supplies a high-frequency low-voltage signal of approximately 10 V eff. This voltage is fed through the gun cable (**11**) to the high voltage cascade (**4**) in the gun body.

In the high voltage cascade (**4**), the low-voltage is high-transformed in a first step (**c**). This primary high voltage is subsequently rectified and multiplied in the high voltage cascade in a second step (**d**), until the required high voltage is obtained at the end (approx. 100 kV). The high voltage is now fed to the electrode within the spray nozzle (**e**).



OptiGun 2-AE1 Enamel automatic gun - high voltage generation

Circuit

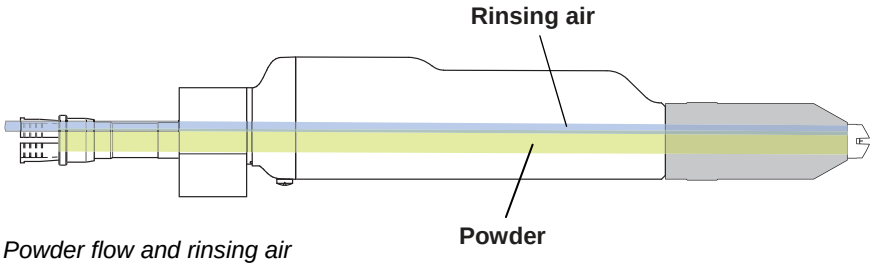
The OptiGun 2-AE1 Enamel automatic gun is switched on and off by the gun control unit.

The control unit operates the low voltage, the powder flow and the rinsing air to the gun.

Powder flow and rinsing air

The rinsing air, used by vented spray nozzles, is connected with its designated connection on the rear of the gun control unit (see the operating manual of the corresponding gun control unit).

The functions of the spray nozzles are described in the corresponding section.

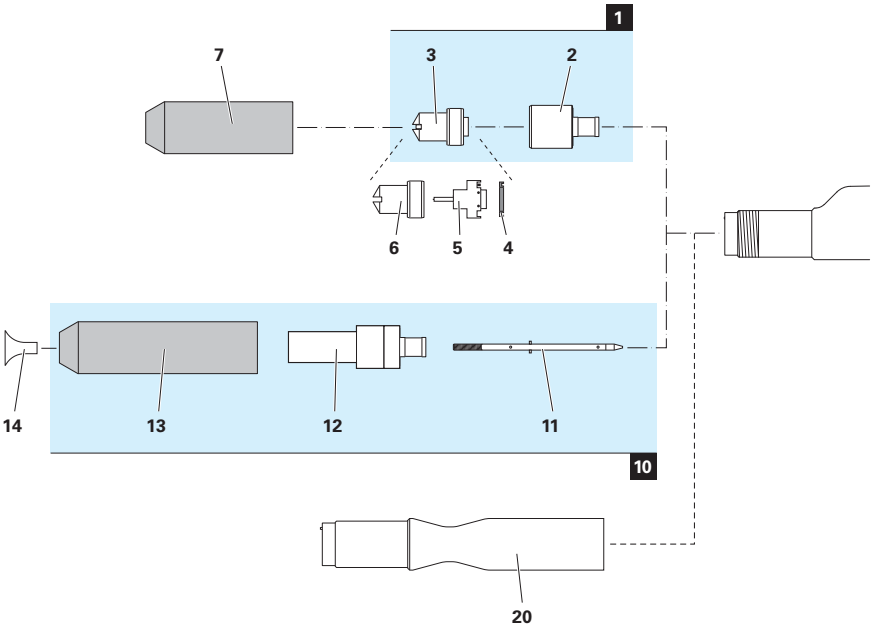


Powder flow and rinsing air

Spray nozzles

OptiGun 2-AE1 Enamel automatic gun

The OptiGun 2-AE1 Enamel automatic gun can be equipped with different spray nozzles (see also in the spare parts list).

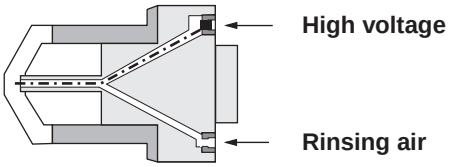


OptiGun 2-AE1 Enamel automatic gun - spray nozzles

Flat jet nozzle with vented central electrode

The vented flat jet nozzle serves for atomizing and charging of the powder. The powder cloud obtains an oval spray pattern by the slot-shaped opening. The powder is charged by the central electrode. The high voltage which is created in the gun cascade, is conducted through the black contact ring of the nozzle holder to the central electrode.

In order to prevent powder from sintering on the electrode, compressed air is used during the spray process. The compressed air (called rinsing air) is fed through the small hole in the black contact ring of the nozzle holder and into the electrode holder. The rinsing air adjustment on the control module is explained in the corresponding operating manual.



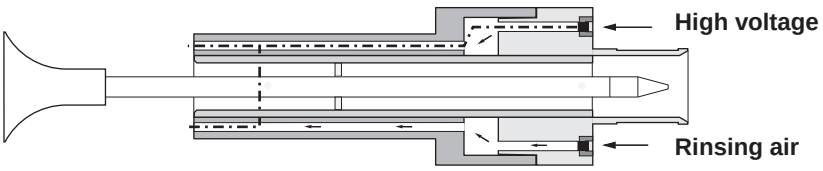
Flat jet nozzle with vented central electrode

Round jet nozzle with deflector and vented central electrode

The vented deflector is used, to give the powder stream emerging from the gun, a cloud formation. The powder is charged by radial arranged electrodes. The high voltage, which is created in the gun cascade, is conducted through the black contact ring of the nozzle holder to the central electrode.

Since powder can accumulate on the electrodes, these must be rinsed with compressed air. This rinsing air is fed into the electrode holder through the small hole in the black contact ring of the nozzle holder and flows to the electrodes. The rinsing air cleaning ability depends on the powder and its sintering ability.

The rinsing air adjustment on the control module is explained in the corresponding operating manual.



Round jet nozzle with deflector and vented central electrode

Technical data

OptiGun 2-AE1 Enamel automatic gun

Electrical data

OptiGun 2-AE1	
Nominal input voltage	10 V eff.
Nominal output voltage	98 kV
Polarity	negative (option: positive)
Max. output current	100 µA
Cascade	12 stages
Protection type	IP 54
Ignition protection	Type A acc. EN 50177***** Type B

Dimensions

OptiGun 2-AE1	
OptiGun 2-AE1 weight	796 g (870 g with SuperCorona ring)

***** Type A: Systems corresponding to EN 50050:1986, with an energy limitation of 5 mJ.
In these systems, the danger of an electric shock or explosive energy does not exist.

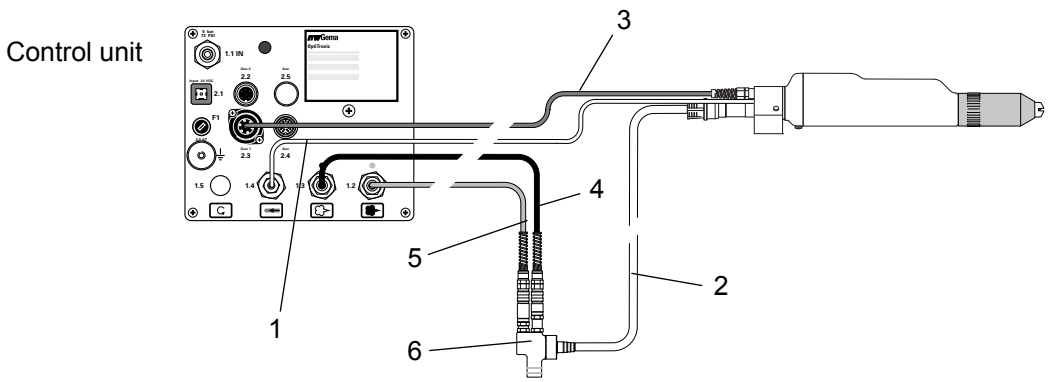
ATTENTION:

The OptiGun 2-AE1 Enamel automatic gun may only be connected to the OptiTronic CG02/CG03, MultiTronic CG04 and OptiStar CGxx control units!

Start-up and operation

Connecting guide

1. Connect the gun plug to the gun control unit (see therefore the operating manual of the corresponding gun control unit)
2. Connect the rinsing air hose of the control unit to the gun
3. Connect the powder hose from the gun to the injector



OptiGun 2-AE1 Enamel automatic gun - connecting guide

1	Rinsing air hose	4	Supplementary air hose
2	Powder hose	5	Conveying air hose
3	Gun cable	6	Injector

Function check

General information

1. The installed gun must be directed toward a grounded work-piece in the coating booth. All connections must be attached!
2. Turn on the gun control unit (see also the control unit operating instructions) - the gun starts spraying
3. Adjust the desired coating parameters (powder volume, total air and high voltage) on the gun control unit (see also the control unit operating instructions)

4. Adjust the rinsing air on the control unit dependent upon the nozzle used

When all the checks are positive, the gun is ready for operation. If malfunctions take place, the cause of the fault can be located by the corresponding troubleshooting guide.

Troubleshooting guide

In the case of possible faults, see chapter "Troubleshooting guide“. Please consider also the control unit operating instructions.

Operation

Setting powder output and powder cloud

The powder output depends on the powder type and the adjusted total air volume (see therefore the control unit operating manual).

1. Switch on the control unit

Setting the total air volume

2. The total air volume is dependent on the powder tube length and the number of hose curvatures, the hose diameter, the conveying air pressure and the supplementary air. The operation mode of the injector and the effect of the supplementary air are described in the corresponding injector operating instructions.
   The value set for the total air volume can be left as it is, as long as the same powder hose is used. If the hose diameter is changed, the total air volume must be reset!

Selecting the powder output volume

3. Select the powder output volume regarding the desired layer thickness
   The selection is done by the **+** or **-** keys on the control unit. Factory default setting of 60% is recommended for initial spraying. The total air volume is maintained constant automatically
4. Check the powder fluidization
5. Point the gun into the booth and press the gun switch

Select the electrode rinsing

1. Select the correct electrode rinsing
   (setting range 0-2,8 Nm³/h, default value 0,2 Nm³/h)
2. Adjust the powder cloud to a test object

If flat jet nozzles are used:

- Unscrew the threaded sleeve approx. 45°, so that the flat jet nozzle (or the extension) can be moved slightly
- Turn the flat jet nozzle to desired axis angle
- Tighten the threaded sleeve firmly again

If round jet nozzles with air rinsed deflectors are used:

- Replace the deflector plate

Powder coating

ATTENTION:

Make sure first, that all electrically conductive parts within 5 m of the coating booth are grounded!

1. Check the powder fluidization
2. The installed gun must be pointed towards a grounded work piece in the coating booth
3. Turn on the gun control unit
4. Adjust the coating parameters or select one of the programs. Check by observing the LED displays
5. The workpieces can be coated now

Shut-down

1. Switch off the powder gun control unit. The adjustments for high voltage, rinsing air and powder output remain stored
2. If working interruptions take place, such as lunch time, night etc. the main compressed air supply is to be interrupted

Rinsing the powder hose

If lengthy downtimes take place, the powder hose must be cleaned. Proceed as follows:

1. Remove the powder hose from the hose connection on the injector (see the operating instructions of the used injector)
2. Blow through the powder hose with compressed air.
3. Fit the powder hose again to the hose connection on the injector

Maintenance and cleaning

NOTE:

Regular and conscientious maintenance increases the service life of the OptiGun 2-AE1 Enamel automatic gun and provides for a longer continuous coating quality!

Daily maintenance

The OptiGun 2-AE1 Enamel automatic gun must be cleaned daily and thoroughly (see in addition the chapter "Cleaning and repair").

Weekly maintenance

The powder hopper and the injector have to be cleaned once a week. The powder hopper should be filled only before resumption of operation.

The grounding connections of the control module with the coating booth and the suspension device of the workpieces, and/or the conveyor chain are also to be checked weekly.

Cleaning and repair

Cleaning the gun

ATTENTION:

Before cleaning the OptiGun 2-AE1 Enamel automatic gun, the control unit must be switched off and the gun plug disconnected!
The compressed air used for cleaning must be free from oil and water!

Daily

NOTE:

Frequent cleaning of the gun provides for a longer continuous coating quality!

1. Clean the gun thoroughly by blowing and wiping off etc. externally
2. Check the gun for abrasion

Weekly

1. Remove the powder hose from the connection
2. Remove the spray nozzle from the gun and clean it
3. Blow out the gun from the connection in flow direction with compressed air
4. Clean the gun tube with the provided gun brush
5. Blow through the gun with compressed air again
6. Reassemble the gun and connect it
7. Blow through the powder hose and clean it

ATTENTION:

Please note, that the threaded sleeve is always tightened well. If the spray nozzle is not completely tight, the danger exists, that the high voltage of the gun can flash over to the spray nozzle, which can inevitably lead to damage to the powder gun!

Dismantling the gun

General information

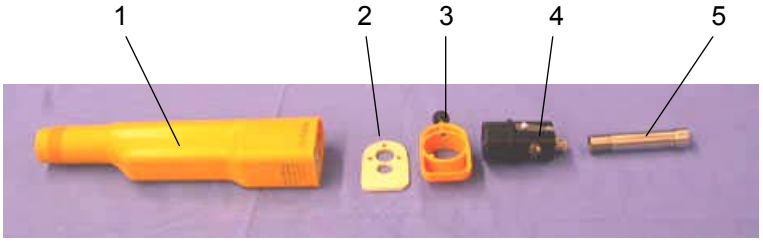
ATTENTION:

The gun should only be dismantled, if this is required because of a defect or pollution!
It is only to be dismantled so far, as the desired part is accessible!

ATTENTION:

Before dismantling the OptiGun 2-AE1 Enamel automatic gun, the control unit must be switched off and the gun plug disconnected!

Components



OptiGun 2-AE1 Enamel automatic gun - components

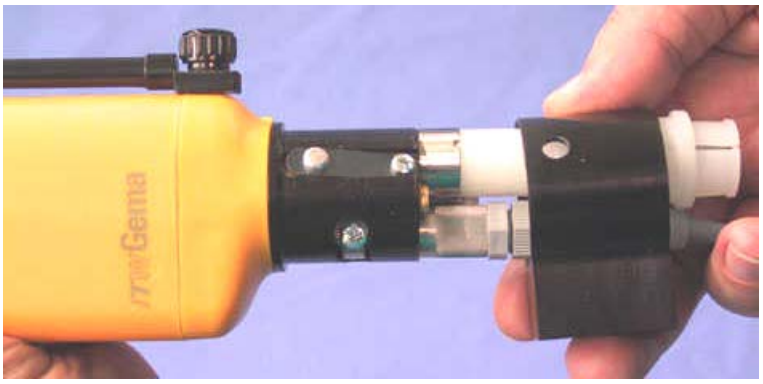
1	Shaft with cascade	4	Connector
2	Gasket	5	Hollow screw
3	Intermediate piece		

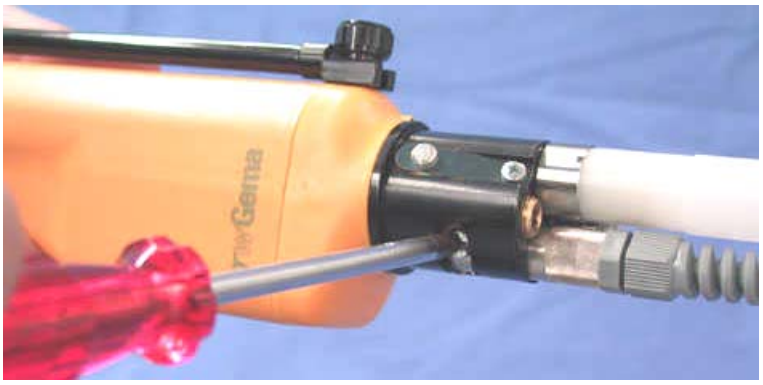
Dismantling procedure

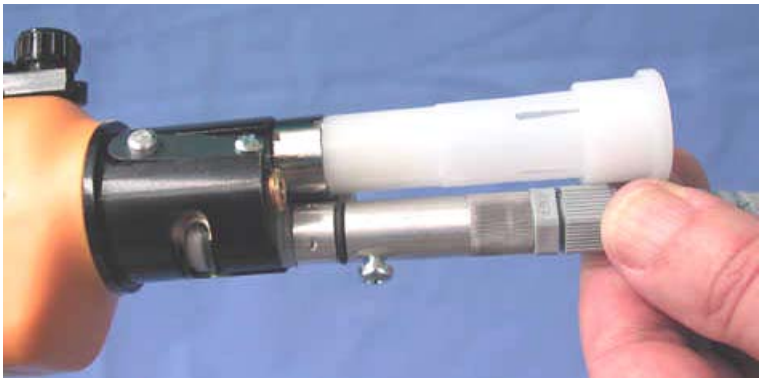
OptiGun 2-AE1 Enamel automatic gun

Dismantling procedure (cont.)

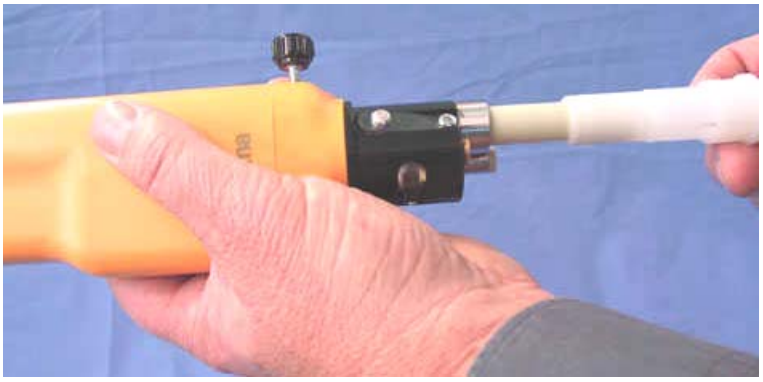
Dismantling procedure (cont.)

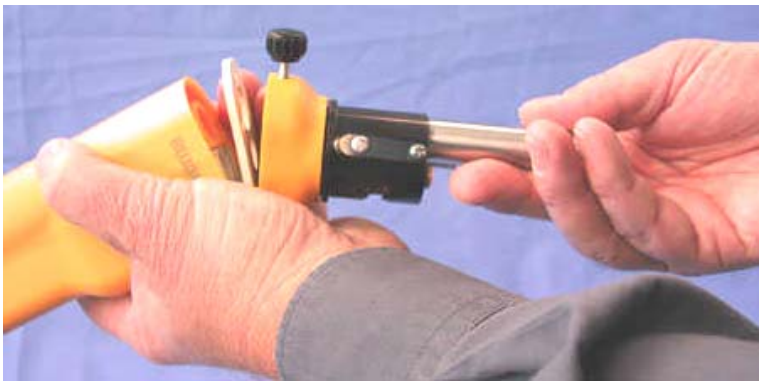






Dismantling procedure (cont.)





Dismantling procedure (cont.)

Dismantling procedure (cont.)

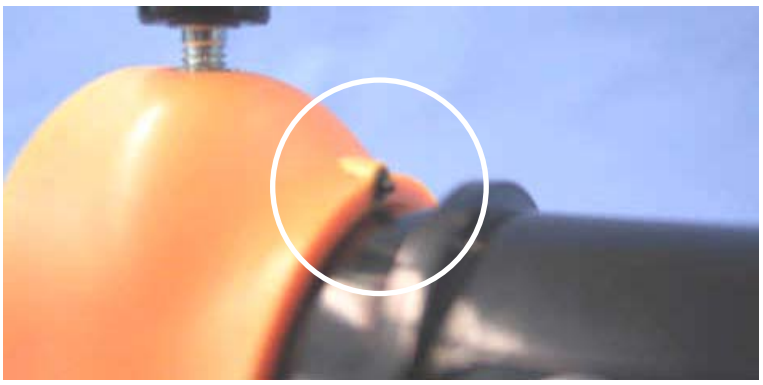
Assembling the powder gun

The assembling of the OptiGun 2-AE1 Enamel automatic gun is to be carried out in the reverse order to that shown above.

It is to be noted, that the powder tube is pushed in up to the stop.

ATTENTION:

A good contact must be ensured to the contact pin!



Contact pin

Repairing the powder gun

Apart from the replacement of possibly defective parts, hardly any repairs have to be made. The cascade can be replaced trouble-free. The repair of the gun cable connection, however, may only be made by an authorized Gema service center!

Contact your Gema representative for details!

Cleaning the spray nozzles

Daily or after each shift

1. Blow off the spray nozzles externally with compressed air

For cleaning the spray nozzles, also solvents or other fluidities can be used.

ATTENTION:

Clean the spray nozzles only with a solvent soaked cloth, never immerse the parts in solvent!

2. Check the seating of the spray nozzles

ATTENTION:

It is to be noted, that the threaded sleeve is always tightened well. If the spray nozzle is not completely tight, the danger exists, that the high voltage of the gun can flash over to the spray nozzle, which can inevitably lead to damage to the powder gun!

Weekly

Remove the spray nozzles and clean inside with compressed air: If powder sinterings should have formed, these are to be removed.

Monthly

Check the spray nozzles for abrasion. The flat jet nozzle is to be changed, if:

- The spray pattern is no longer a regular oval
- Deeper grooves in the nozzle slot or even the wall thickness is no longer visible
- The wedge of the electrode holder is worn
- On the nozzle with deflector, the wedge of the electrode holder can be worn. In this case, the electrode holder is to be replaced!

Troubleshooting guide

General information

Fault	Causes	Fault elimination
The powder gun does not spray powder, although the powder gun control unit is switched on, the green lamp lights up and compressed air is available	Injector, non-return valve or throttle on injector, powder hose or powder gun clogged	Clean or replace the corresponding part
	Insert sleeve in injector is worn	Replace
	No fluidization	See control unit or powder hopper operating instructions
	No conveying air:	
	Pressure valve in the control unit defective	Replace
	Solenoid valve in the control unit defective	Replace
	Electronic board in the OptiTronic defective	Send for repair
Powder gun sprays powder, but the powder does not adhere to workpiece	High voltage too low or not available	Adjusting high voltage on the control unit
	Gun cable (gun plug or gun connection) defective	Test the gun cable on another control unit
	High voltage cascade defective	Send in the gun body for repair
	Electronic board in the OptiTronic defective	Send for repair
Powder gun sprays powder, high voltage is available, powder does not adhere to workpiece	Workpiece not properly grounded	Check the grounding

NOTE:

Additional error descriptions are to be found also in the corresponding control unit operating instructions!

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** OptiGun 2-AE1 Enamel automatic gun,
  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 yard/meter ware is always marked with an *****.

The wear 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 Gema spare parts should be used, because the hazardous location approval will be preserved that way! The use of spare parts from other manufacturers will invalidate the Gema guarantee conditions!

OptiGun 2-AE1 Enamel automatic gun - spare parts list

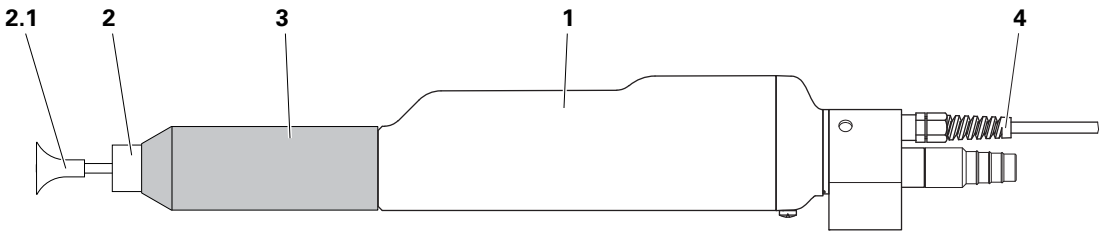
Remarks

NOTE:

Only parts were included in the spare parts list, which the user can replace himself without problems!
If the powder gun cable is defective, it is to be completely sent in for repair!

	OptiGun 2-AE1 Enamel automatic gun - complete, polarity negative, incl. pos. 1-6	406 732
1	OptiGun 2-AE1 gun body, see "Gun body" spare parts list	
2	Round jet nozzle - complete, see "Nozzle combinations" spare parts list	
2.1	Deflector, see "Nozzle combinations" spare parts list	
3	Threaded sleeve - see "Nozzle combinations" spare parts list	
4	Gun cable - complete, see "Gun cable" spare parts list	
5	Parts set (not shown), consisting of:	385 670
	Cable binder with Velcro closure (8x)	303 070
	Cylinder screw - M8x50 mm	235 113
	Plastic screw - M4x6 mm	267 139
	Washer - Ø 8,4/20x2 mm	215 880
	Quick release connection - NW5, Ø 6 mm	200 840
6	Cleaning brush - Ø 12 mm (not shown)	389 765
7	Powder hose - Ø 16/11 mm (not shown)	103 012*
8	Rinsing air hose - Ø 6/4 mm (not shown)	100 854*

***** Please indicate length

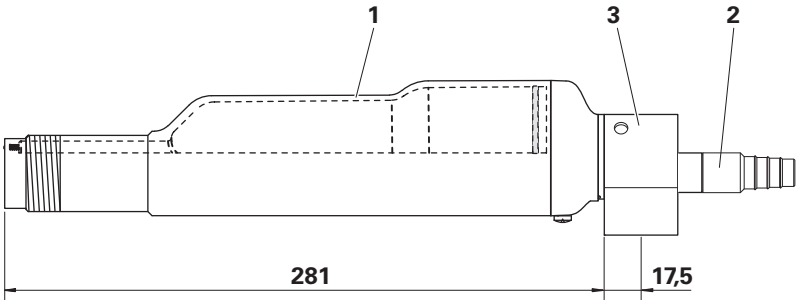


OptiGun 2-AE1 Enamel automatic gun - spare parts

OptiGun 2-AE1 Enamel automatic gun - gun body

	OptiGun 2-AE1 gun body - complete, polarity negative	406 724
1	OptiGun 2-AE1 shaft - complete, negative polarity (see spare parts list "Shaft")	
2	Powder tube GA02-E1 - complete, Ø 9 mm	1001 289#
3	Gun fixture	382 817

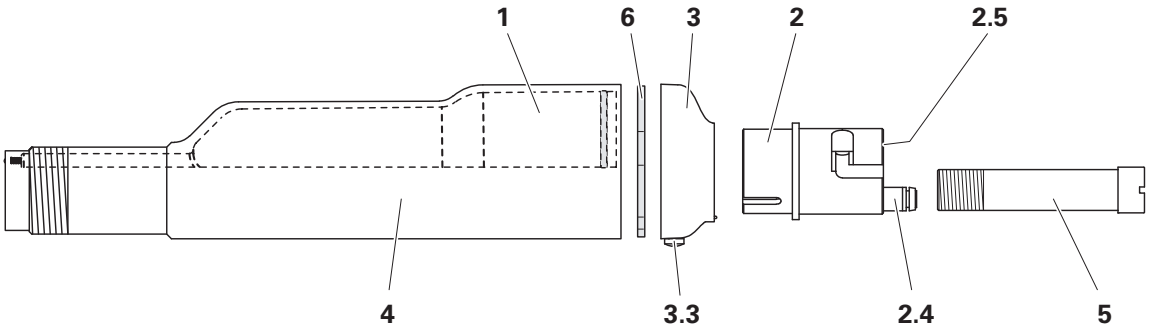
Wearing part



OptiGun 2-AE1 Enamel automatic gun - gun body

OptiGun 2-AE1 Enamel automatic gun - shaft

	OptiGun 2-AE1 shaft - complete, polarity negative	393 665
1	Cascade - complete, negative polarity	393 703
2	Adaptor - complete, incl. pos. 2.4 and 2.5	385 158
2.4	Screw-in nipple - 1/8"a, Ø 6 mm	251 542
2.5	Plug cap - 1/8"a	265 560
3	Adaptor piece - complete, incl. pos. 3.3	385 069
3.3	Cap screw - M4x6 mm	267 139
4	Shaft (without cascade)	393 681
5	Hollow screw	382 680
6	Gasket	382 698

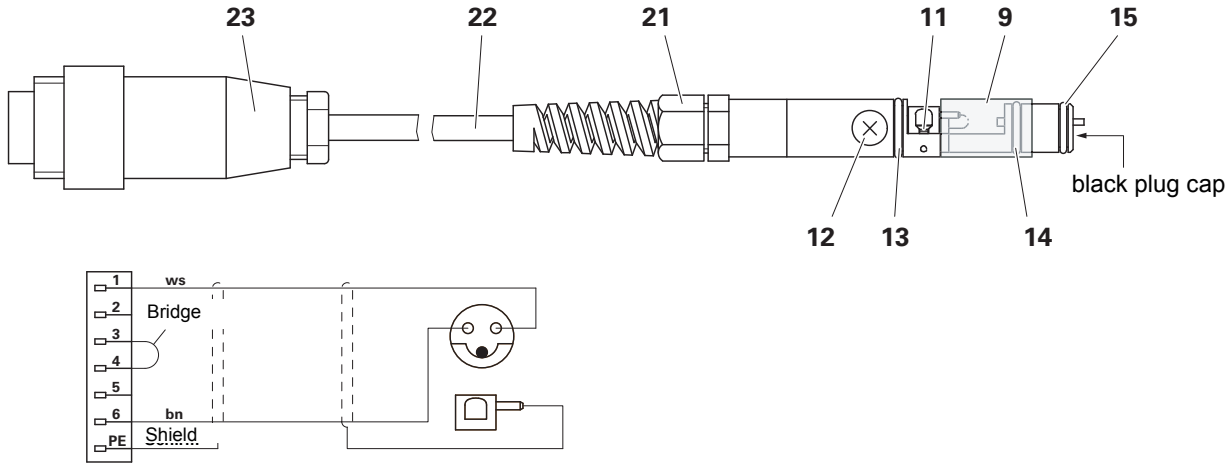


OptiGun 2-AE1 Enamel automatic gun - shaft

OptiGun 2-AE1 Enamel automatic gun - gun cable

	Gun cable - complete, 11 m	393 800
	Gun cable - complete, 15 m	393 819
	Gun cable - complete, 20 m	393 827
	Gun cable - complete, 30 m	395 935
	Extension cable - complete, 5 m	334 464
	Extension cable - complete, 10 m	394 840
	Cable socket for extension cable	206 504
	Cable plug for extension cable	200 085
9	Cover tube	360 317
11	Countersunk head screw - M2x4 mm	257 958
12	Cylinder screw - M5x6 mm	263 907
13	O-ring - Ø 10,82x1,78 mm	232 556
14	O-ring - Ø 7,65x1,78 mm	232 564
15	O-ring - Ø 8,1x1,6 mm	263 818
21	Stuffing box - PG7, with kink protection	208 426
22	Cable - 2x0,75 mm², shielded	103 454*****
23	Connection plug - 7 pins with studs	200 085

***** Please indicate length



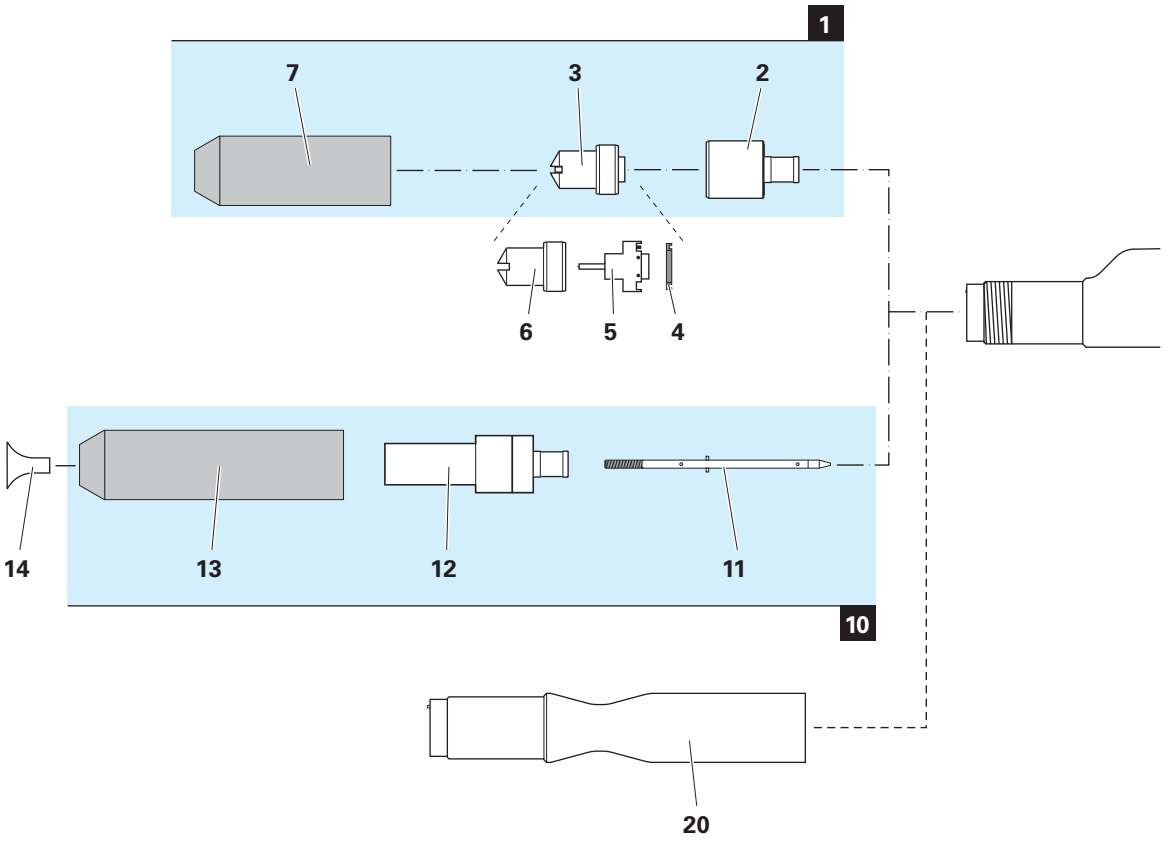
OptiGun 2-AE1 Enamel automatic gun - gun cable

OptiGun 2-AE1 Enamel automatic gun - nozzle combinations

1	Flat jet nozzle NF15-E - complete	1002 255#
2	Fixation piece NF15-E - complete	1002 253#
3	Flat jet nozzle set (without pos. 5.1)	404 225#
4	Contact ring	318 760#
5	Electrode holder - complete (ETFE)	404 209#
5.1	Electrode holder - complete (PTFE)	406 058#
6	Flat jet nozzle	404 128#
7	Threaded sleeve PU04-E-NF - complete	405 728
10	Round jet nozzle NS07-E - complete	1002 254#
11	Deflector rod NS07-E - complete	1002 249#
12	Muzzle NS07-E - complete	1002 250#
13	Threaded sleeve PU04-E-NS - complete	405 736
14	Deflector - Ø 15 mm	400 262#
14.1	Deflector - Ø 24 mm	400 181#
14.2	Deflector - Ø 28 mm	400 254#
14.3	Deflector - Ø 32 mm	400 238#
14.4	Deflector - Ø 50 mm	400 246#
20	Extension PE03-E-150 - complete, 150 mm	406 708#
20.1	Extension PE03-E-300 - complete, 300 mm	406 716#

Wearing part

OptiGun 2-AE1 Enamel automatic gun - nozzle combinations

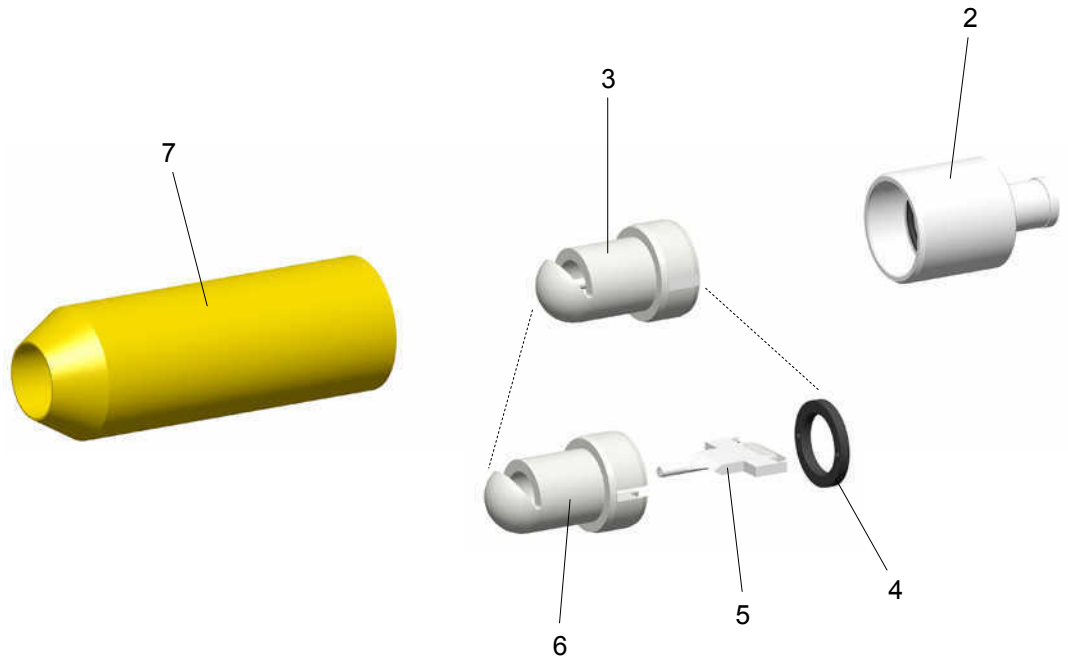


OptiGun 2-AE1 Enamel automatic gun - nozzle combinations

OptiGun 2-AE1 Enamel automatic gun - flat jet nozzle NF19-E-60°

	Flat jet nozzle NF19-E-60° - complete (pos. 2, 3, 7)	1007 466#
2	Fixation piece - complete	1002 253#
3	Flat jet nozzle set (without pos. 5.1)	1007 465#
4	Contact ring	318 760#
5	Electrode holder - complete (ETFE)	404 209#
5.1	Electrode holder - complete (PTFE)	406 058#
6	Flat jet nozzle	1007 462#
7	Threaded sleeve - complete	405 728

Wearing part

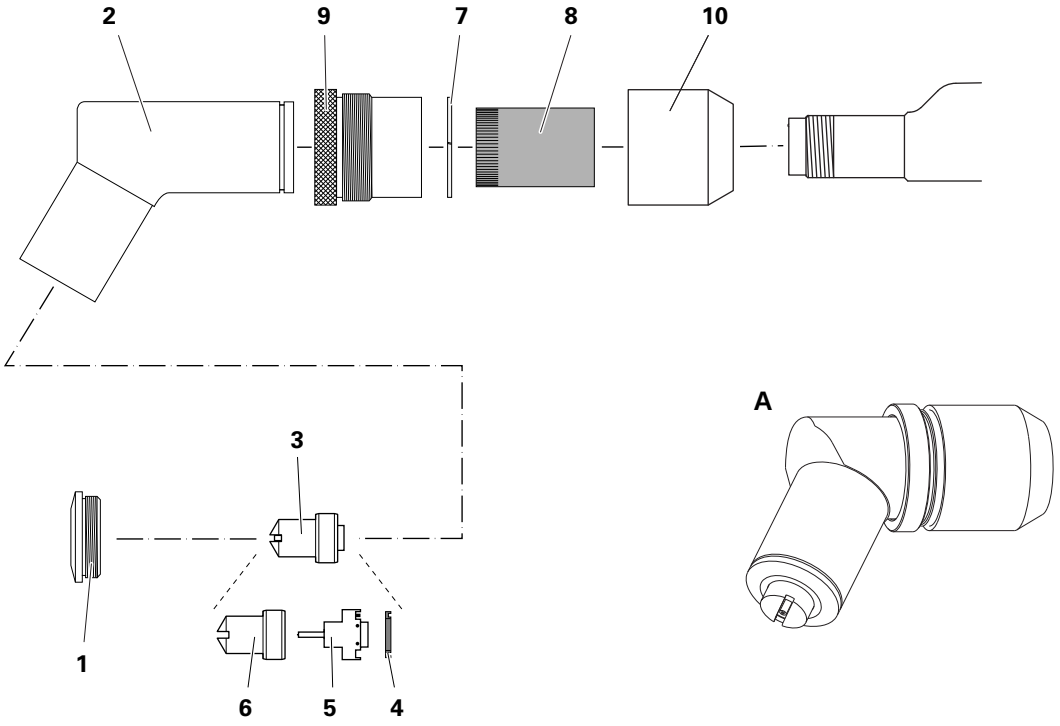


OptiGun 2-AE1 Enamel automatic gun - flat jet nozzle NF19-E-60°

OptiGun 2-AE1 Enamel automatic gun - angled nozzle

A	Angled nozzle PA02-E-60° - complete	1001 299#
1	Tensioning screw - small	405 876
2	Angled body PA02-E-60° - complete (incl. pos. 7)	1001 298
3	Flat jet nozzle set (incl. pos. 4, 5 and 6, without pos. 5.1)	404 225#
4	Contact ring	318 760#
5	Electrode holder - complete (ETFE)	404 209#
5.1	Electrode holder - complete (PTFE)	406 058#
6	Flat jet nozzle	404 128#
7	Snap ring	383 619
8	Sleeve	383 627
9	Tensioning screw - large	383 597
10	Cap	383 732

Wearing part

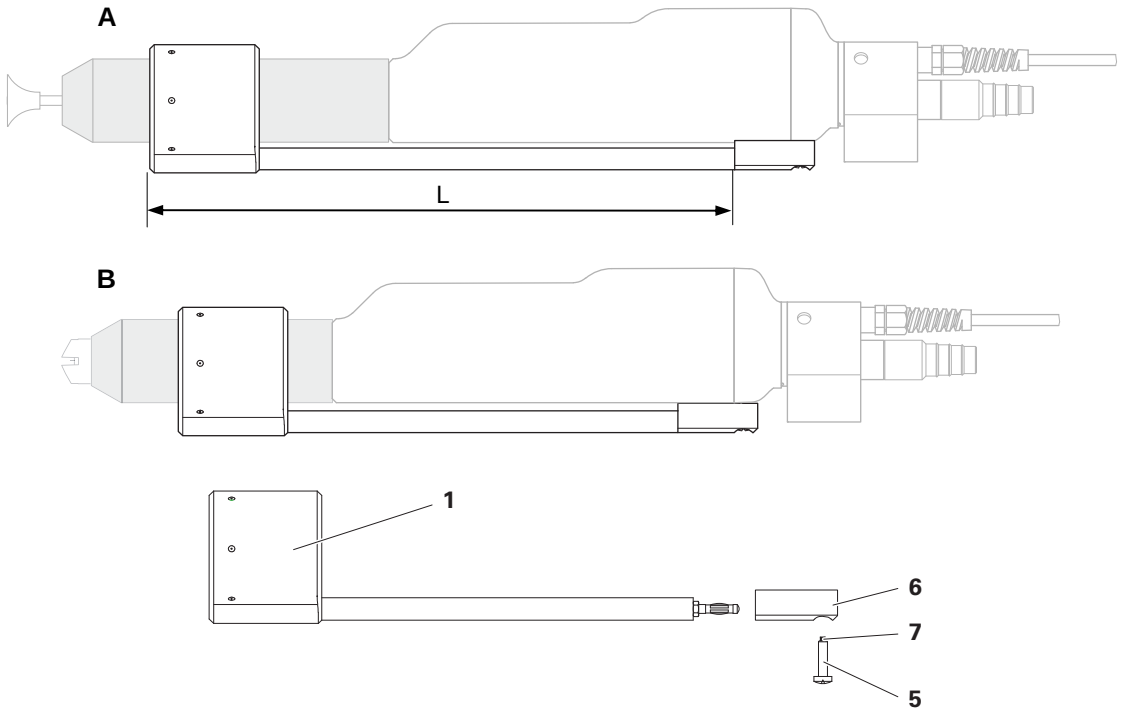


OptiGun 2-AE1 Enamel automatic gun - angled nozzle

OptiGun 2-AE1 Enamel automatic gun - SuperCorona

A	SuperCorona for round jet nozzle	
	SuperCorona PC01-257 - retrofit set (L=257 mm)	394 246#
	SuperCorona PC01-407 - retrofit set (L=407 mm)	394 270#
	SuperCorona PC01-557 - retrofit set (L=557 mm)	394 300#
B	SuperCorona for flat jet nozzle	
	SuperCorona PC01-237 - retrofit set (L=237 mm)	394 238#
	SuperCorona PC01-387 - retrofit set (L=387 mm)	394 262#
	SuperCorona PC01-537 - retrofit set (L=537 mm)	394 297#
1	SuperCorona ring - complete	
	For SuperCorona PC01-257	394 165#
	for SuperCorona PC01-407	394 190#
	for SuperCorona PC01-557	394 220#
	for SuperCorona PC01-237	394 157#
	for SuperCorona PC01-387	394 181#
	for SuperCorona PC01-537	394 211#
5	Special screw	391 921
6	Cowl	384 372
6.1	Plug cap - complete (for pos. 6, not shown)	1001 037
7	Compression spring - 0,4x2x10,9 mm	245 330

Wearing part



OptiGun 2-AE1 Enamel automatic gun - SuperCorona