E-COAT Pro V2

User's Manual

Powder Coating Equipment Kits User's Manual

Electron

Electrostatic Powder Coating

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1-Safety Regulations

This section sets out the fundamental safety regulations that must be followed by the user and third parties using the E-COAT Pro V2. These safety regulations must be read and understood before the E-COAT Pro V2 is used.

1.1. Safety Symbols

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

DANGER!
Live electricity or moving parts are dangerous.
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

1.2. Conformity Of Use

1. E-COAT Pro V2 Manual Coating Equipment 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 E-COAT Pro V2 is to be used for other purposes or other substances outside of our guidelines then Sistem Teknik Makina A.Ş. should be consulted.
3. Observance of the operating, service and maintenance instructions specified by the manufacturer is also part of conformity of use. The E-COAT Pro V2 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 is forbidden until it has been established that the E-COAT Pro V2 has been set up and wired according to the guidelines for machinery EN 60204-1 (machine safety) must also be observed.
5. Unauthorized modifications to E-COAT Pro V2 exempt the manufacturer from any liability from resulting damage.
6. Relevant accident prevention regulations, as well as other generally recognized safety regulations, occupational health and structural regulations are to be observed.
7. In addition to above, country-specific safety regulations must be observed.

Explosion Protection Class of E-COAT Pro V2 Controller Unit

Explosion Protection	Protection Type	Temp Class
Ex CE II 3(2)D	IP54	

Explosion Protection Class of E-GUN C2 Powder Paint Gun

Explosion Protection	Protection Type	Temp Class
Ex CE II 2 D	IP64	

Explosion Protection Class of E-GUN C3 Powder Paint Gun

Explosion Protection	Protection Type	Temp Class
Ex CE II 2 D	IP64	

Note:EN 60204-1 this standard includes the non-mobile machines electronic machines and programmable electronic hardware and systems.

3. Technical Safety Regulations for Stationary Electrostatic Powder Spraying Equipment

1.General Information

The powder spraying equipment of Sistem Teknik Makina (Electron) is designed for safe use and to the latest technological specs. Electrostatic powder equipment could create dangerous situations unless it's used properly. In addition to that, there might be a danger to life and limb of the user or third party, a danger of damage to the equipment and other machinery that belongs to the user and hazards to the proper operation of equipment.

1. The powder spraying equipment should only be started up and used once the operating instructions have been carefully read. Apart from any usage from the user manual, there lies a danger of damaging the equipment and loss of control of the equipment.
2. Operational safety has to be observed before every start-up. Regular Servicing is the essence of working safely.
3. Local legislation should be considered for the safety.
4. The plug has to be disconnected before the machine is opened for repair.
5. The plug and socket connections between spraying equipment should only be taken out when the power is off.
6. The connection cables have to be installed in a manner that they wouldn't interfere or damage the normal machine operation. Also the local legislation should be observed for the installation.
7. Only original Electron spare parts should be used, because only the original products will guarantee the equipment's explosion protection. Any damage caused by other used parts is not covered by the guarantee.
8. If Electron powder spraying equipment is going to be used with other devices/machinery from other manufacturers, their safety regulations should be also considered.
9. Be cautious while working in a powder/air mixture area. In the right concentration the mixture would be flammable, thus smoking is forbidden in the entire plant area.

10. Rule of thumb says that any person who uses a pacemaker should NEVER enter a high voltage area or places with electromagnetic fields. Note that people with pacemakers ALSO SHOULDN'T work in powder spraying installations.

WARNING!
Only the customer itself is responsible for the safe usage of the equipment
Sistem Teknik is not responsible for any damage resulted from the usage.

2. Consciously Working Safe

Every other individual who will be working for the assembly, start-up, operation, service and repair of powder spraying equipment must have read and understood the operating instructions and the "Safety Regulations". Operators have to be appropriately trained via Sistem Teknik assembly personnel and made aware of the possible danger of powder spraying equipment and the environment.

The control units for guns must only be set up and used in zone 22. The spray guns are permitted in the zone 21 which is created by them but only them.

Powder spraying equipment must only be used by trained and authorized personnel. This also applies for any kind of modification to the electrical equipment, which only should be carried out by a specialist.

It is essential that the operating instructions are understood before any kind of work is done with the equipment. All the procedures have to be done according to the instructions.

Powder spraying equipment can be turned off via the main power switch or the emergency shut down procedure.

3. Safety Regulations for the Operating Firm and/or Personnel

1. First of all, anything which would influence the equipment negatively should be avoided for the technical safety.
2. The machine user should be well informed about no other people than trained personnel would use the machine.
3. The employer has to provide an operating instruction manual for specifying the dangers for humans and the environment by handling dangerous materials, as well as all preventive measures and workplace behaviors. This "document" must be well written in an understandable form in the language that the person employed for the equipment.
4. The operator is obliged to check the equipment for external damage once every shift changed at the very least. The operation characteristic changes should also be reported.
5. Users should conform the satisfactory working conditions else the equipment should not be used.
6. The operating firm must ensure that the users wear protective clothing like facemasks and working suits.
7. The firm also guarantees the cleanliness of the workplace and proper checks for the powder spraying equipment.
8. Safety devices should be always on the equipment at all costs unless the equipment is going to be maintained or cleaned. After the maintenance all the devices should be put on the equipment. The users must be trained well for this purpose.
9. Powder fluidization or high voltage spray gun checks have to be done when the equipment is switched on.

4. Special Types of Hazard

1. **Power:** All the high voltage equipment should be unplugged before opened. This is a huge life risk thus it has to be taken under great care.
2. **Powder:** Powder/air mixtures could be ignited by sparks. Sufficient ventilation is a must while using powder spraying equipment. Powder, which is not swept from the floor creates risky environment.
3. **Static Charges:** These could result in the following: Charges to people, electric shocks, sparks. Charging of objects has to be avoided.
4. **Grounding:** All electricity conducting parts and machinery in the workplace must be earthed 1.5 mt on either side and 2.5 mt around each booth opening. The grounding resistance must amount to a maximum of 1 MOhm resistance has to be tested regularly. The appropriate devices must be kept in the workplace for regular grounding checks.
5. **Compressed Air:** Compressed air could be created after long pauses of the equipment and this creates risk of pneumatic hose damage or uncontrolled release and improper use of compressed air. Compressed air should be drained properly.
6. **Crushing and Cutting:** There might be moving parts while operation (e.g. Conveyor Belt, Reciprocator). The operator must be trained to maintain the area safety and local security regulations.
7. **Exceptional Circumstances:** Local conditions must be met at all costs. Additional measures such as barriers can be used to prevent unauthorized access.
8. **Conversions and Modifications to the Equipment:** All conversions and modifications must be asked to Sistem Teknik prior to the process and no process should be done without Sistem Teknik's permission. This is essential for the equipment safety and conformity. Powder coating equipment should never be used if damaged; these parts should be changed immediately with the original Sistem Teknik replacement. Other replacements then Sistem Teknik original equipment does not conform the guarantee, thus the guarantee will no longer be valid. Equipment repairs must be done only by specialist or at Sistem Teknik verified shops.

5. Safety Requirements for Electrostatic Powder Coating

1. All the equipment used for powder coating is dangerous unless the instructions are not conformed.
2. Every electrostatic conductive part must be earthed within the 5 meter radius from the equipment.
3. The floor of the coating area should conduct electricity (Concrete is generally a conductive surface, check with your building project for more info)
4. The users should wear electricity conducting footwear.
5. The guns are earthed thus you must use them with your bear hands. If gloves are going to be used, make sure that they conduct electricity.
6. Grounding cable must be connected to the grounding screw of the electrostatic powder spraying hand appliance. It should have a good connection with the booth,
7. hopper and conveyor chain (if used).
8. E-COAT Pro V2 Device must be switched off while the hand gun is being cleaned.
9. The grounding must be checked every week. Remember that the grounding resistance must be 1 MOhm at a maximum.
10. The E-COAT Pro V2 equipment should only be switched once the booth is working in proper conditions. If the booth malfunctions,E-COAT should be turned off.
11. At nozzle changes, the E-COAT Pro V2 device should be shut down.
12. Only use spare parts / attachments and accessories from Sistem Teknik's original parts page. This ensures the safety of the equipment and conformity of use.
13. Cleaning agents creates the risk of hazardous fumes. Please check the manufacturer's manual about more information about the cleaning agents if they are used in the site.
14. If there is any damage on the powder coating equipment or the spray gun, operators should stop using it.
15. Especially make sure that the environmental regulations and the manufacturer's instructions are being conformed while disposing the powder lacquer and cleaning agents.
16. Repairs have to be carried out via specialists of Sistem Teknik trained personnel and never to be done in the operating area under any circumstance.
17. Dangerous dust concentration levels should be avoided in powder spraying areas. There must be sufficient technical ventilation available (e.g. booth ventilation) to prevent a dust concentration of more than %50 of the lower explosion limit (UEG = max. permissible powder/air concentration). If the UEG is not known then a value of 10g/m3 should be used.

EN European Standarts

2014/34/EU	The approximation of the laws of the Member States relating to apparatus and safety systems for their intended use in potentially explosive atmospheres
EN 12100-1 EN 12100-2	Machine safety
EN IEC 60079-0	Electrical equipment for locations where there is danger of explosion
EN 50050-2	Electrical apparatus for potentially explosive atmospheres - electrostatic hand-held spraying equipment
EN 50177	Stationary electrostatic spraying equipment for flammable coating powder
EN 16985:2018	Coating plants - spray booths for application of organic powder coating material - safety requirements
EN 60529	IP-Type protection: contact, foreign bodies and water protection for electrical equipment
EN 60204	VDE regulations for the setting up of high voltage electrical machine tools and processing machines with mains voltages up to 1000 V

1.4. Product Specific Safety

If there is an installation work that will be done by the customer, the local regulations have to be considered.

The plant must be checked for any type of foreign objects inside the booth or in ducting, input and exhaust air before start up.

All equipment must be grounded according to the local regulations before start up as well.

Scope of Delivery

1. E-COAT Pro V2 Automatic Bare Kit

- E-GUN C3
- E-GUN C3 Automatic Gun Cable (12 m)
- E-FEED V2
- E-COAT Pro V2
- Regulator and Air Distribution Unit
- Hose connection accessories

2. E-COAT Pro V2 Bare Kit

- E-GUN C2
- E-FEED V2
- E-COAT Pro V2
- Regulator and Air Distribution Unit
- Hose connection accessories

3. E-COAT Pro V2 H

- E-GUN C2
- E-FEED V2
- E-COAT Pro V2
- E-HOPP 50
- E-COAT Mobile Carrier w/ Air Distribution Unit and Fluidization Control
- Hose connection accessories

4. E-COAT Pro V2 M

- E-GUN C2
- E-FEED V2
- E-COAT Pro V2
- E-COAT Multicolor Unit w/ Vibratory Box Holder and Suction Tube
- Hose connection accessories

1.5.Conformity Between Products

Electron E-COAT Pro V2 can be used with:

- E-GUN C2
- E-GUN C3
- E-FEED V2

Electron E-GUN C2 can be used with:

- E-COAT Pro V2
- E-COAT Basic
- E-FEED V2
- FastCorona™ Manual

Electron E-GUN C3 can be used with:

- E-COAT Master P
- E-COAT Pro V2
- E-FEED V2
- FastCorona™ Auto

2-General Information About E-COAT PRO V2

2.1. Technical Data

Electrical Data

E-COAT Pro V2 Control Unit	
Nominal Input Voltage	100-240 VAC
Operating Frequency	50-60 Hz
Input Power	60 VA
Gun Nominal Output Voltage	Max. 20 Vp-p
Gun Nominal Output Current	Max. 1,5 A
Auxiliary Output Type	24 VDC/max. 10W, 100-240 VAC/max.100W
Purge Output Type	24 VDC, max. 10W
Protection Class	IP54
Operating Temperature	0 °C - +40 °C
Max. Operating Surface Temp	85°C
Certification	Ex CE II 3(2)D

Pneumatic Data

E-COAT Pro V2 Control Unit	
Compressed Air Connection	8 mm
Input Pressure	5,5-7,0 bar
Max. Water Vapor in Compressed Air	1,4 g/m3
Max. Oil Vapor Content in Compressed Air	0,12 mg/m3

Weight

E-GUN C2 Manual Powder Coating Gun	
Weight	510 g

Powder Paint Output References

E-COAT Pro V2 Control Unit	
Powder Paint Type	Epoxy / Polyester
Powder Hose Type	Double Carbon De charge Connection Antistatic Hose
Powder Hose Length	5 m
Powder Hose Diameter	11 mm
Powder Air Nozzle Diameter	1,5 mm

E-COAT Pro V2 with E-FEED V2 Output

E-COAT Pro V2 Control Unit	
Pressure	Powder Output (gr/min)
0,1 MPa (1 BAR)	23
0,15 MPa (1,5 BAR)	130
0,2 MPa (2 BAR)	307
0,25 MPa (2,5 BAR)	360

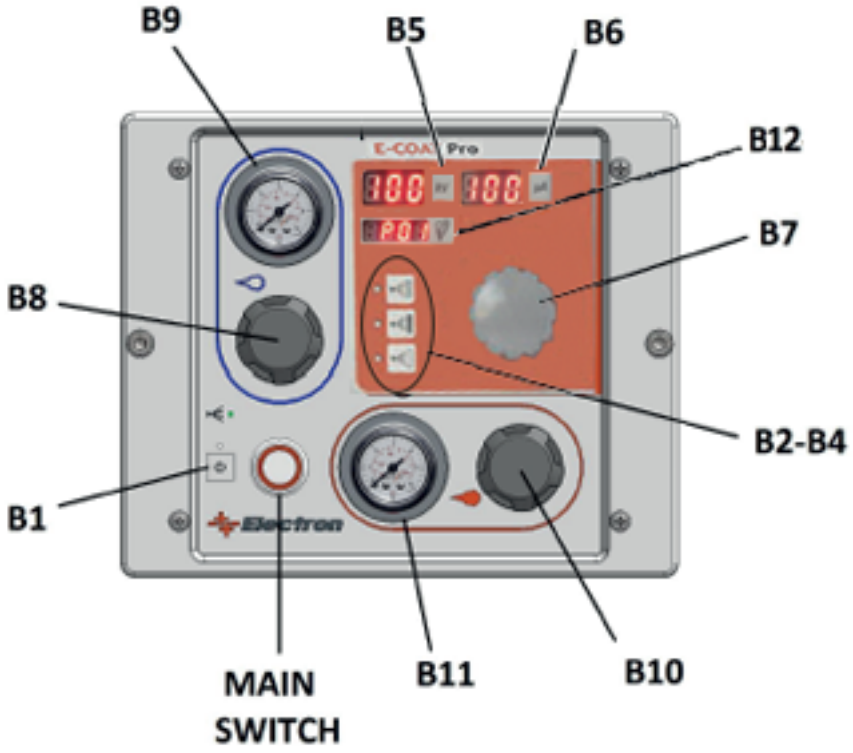
E-COAT Pro V2 Air Flow Rates

E-COAT Pro V2 Control Unit	
Nozzle Air	0-16 lt/min (2 lt/min Factory Pref.)
Supplementary Air	0-200 lt/min
Conveying Air	0-200 lt/min
Total Air	0-400 lt/min

2.7. General View

1) Front Panel
2) Display and Control Buttons
3) Casing
4) Back Panel and I/O

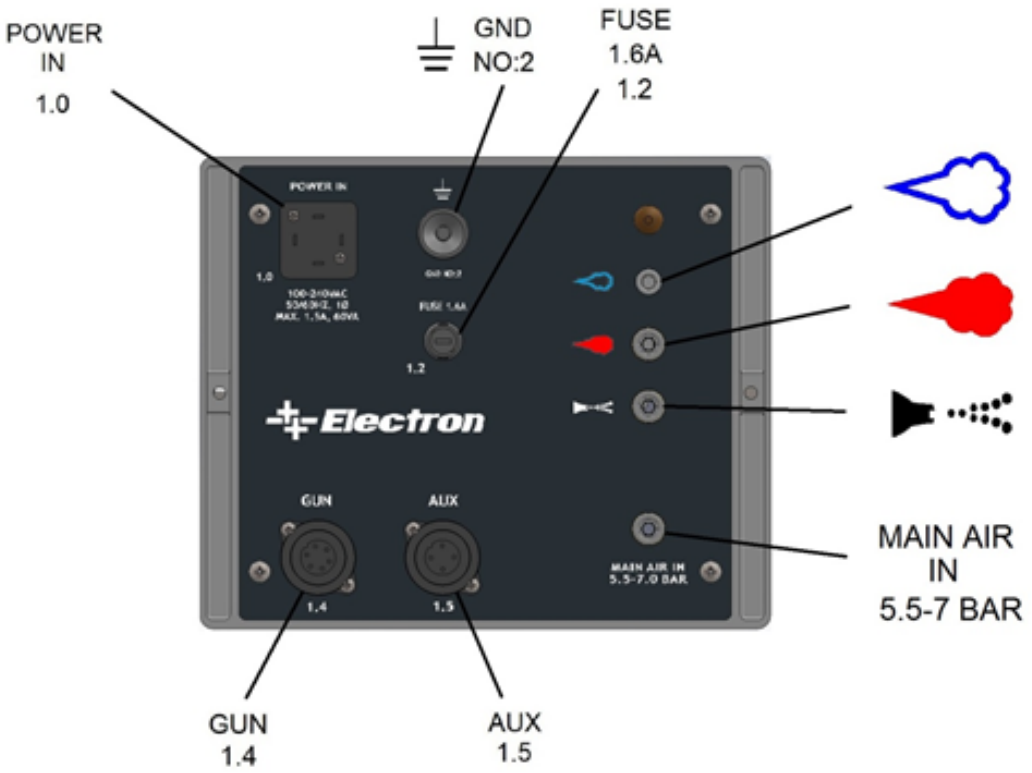
2.8. Front Panel and Input Buttons



Front Panel Connections

Button	Definition
B1	Vibration Motor(Only Multicolor) Active/Passive Button
B2	Automatic Program 1
B3	Automatic Program 2
B4	Automatic Program 3
B5	kV Adjustment Button
B6	µA Adjustment Button
B7	Rotary Adjustment Knob
B8	Supplementary Air Adjustment Regulator
B9	Supplementary Air Manometer
B10	Powder Paint Adjustment Regulator
B11	Powder Paint Air Manometer
B12	Recipe Selection Button
MAIN SWITCH	Main Power Switch

2.9. Back Panel and Connections



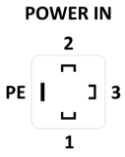
Back Panel Connections

Connection	Function
1.0 POWER IN	MAIN POWER CONNECTION (100-240VAC, 50-60Hz)
1.2 Fuse 1.6A	Glass Fuse Holder 1.6A
1.4 GUN	Gun Cable Connection
1.5 AUX	Fluidization Unit/Multicolor Unit Connection
MAIN AIR IN 5.5-7 BAR	Main Pressured Air Connection (5.5-7.0 Bar, Ø8 Hose)
	Nozzle Air Connection (Black Ø6 Hose)
	Supplementary Air Connection (Blue Ø8 Hose)
	Powder Air Connection (Red Ø8 Hose)
	Earth Cable Connection

Warning: *AUX input cover should be closed if there is no*

connection. PIN Connection

1) Phase (100-240 VAC)
2) Neutral
3) Trigger (Phase Applied-Only Automatic Mode)
PE) Grounding



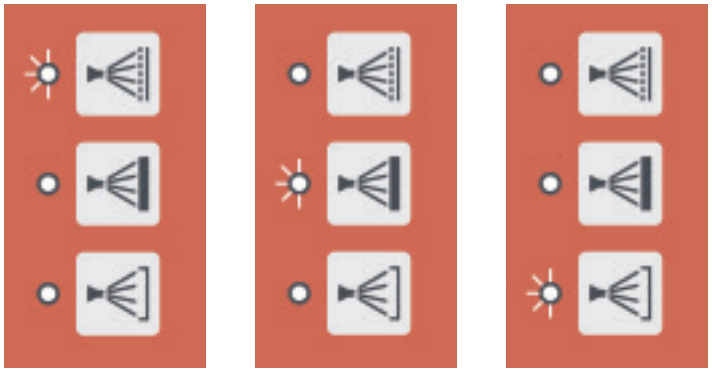
4. General Instructions

Usage Types

a. Automated Recipe Working Mode

This type of usage allows the customer to work with custom made recipes as well the three predefined recipes stated below:

1. Coating on Straight Faced Materials
2. Coating on Coated Materials
3. Coating on Notched Surfaces



Predefined Recipe Buttons

Predefined Recipe Name	High Voltage (kV)	Output Current (µA)
Coating on Straight Faced Material	100	100
Coating on Coated Material	100	10
Coating on Notched Surfaces	100	22

a. Automated Recipe Working Mode

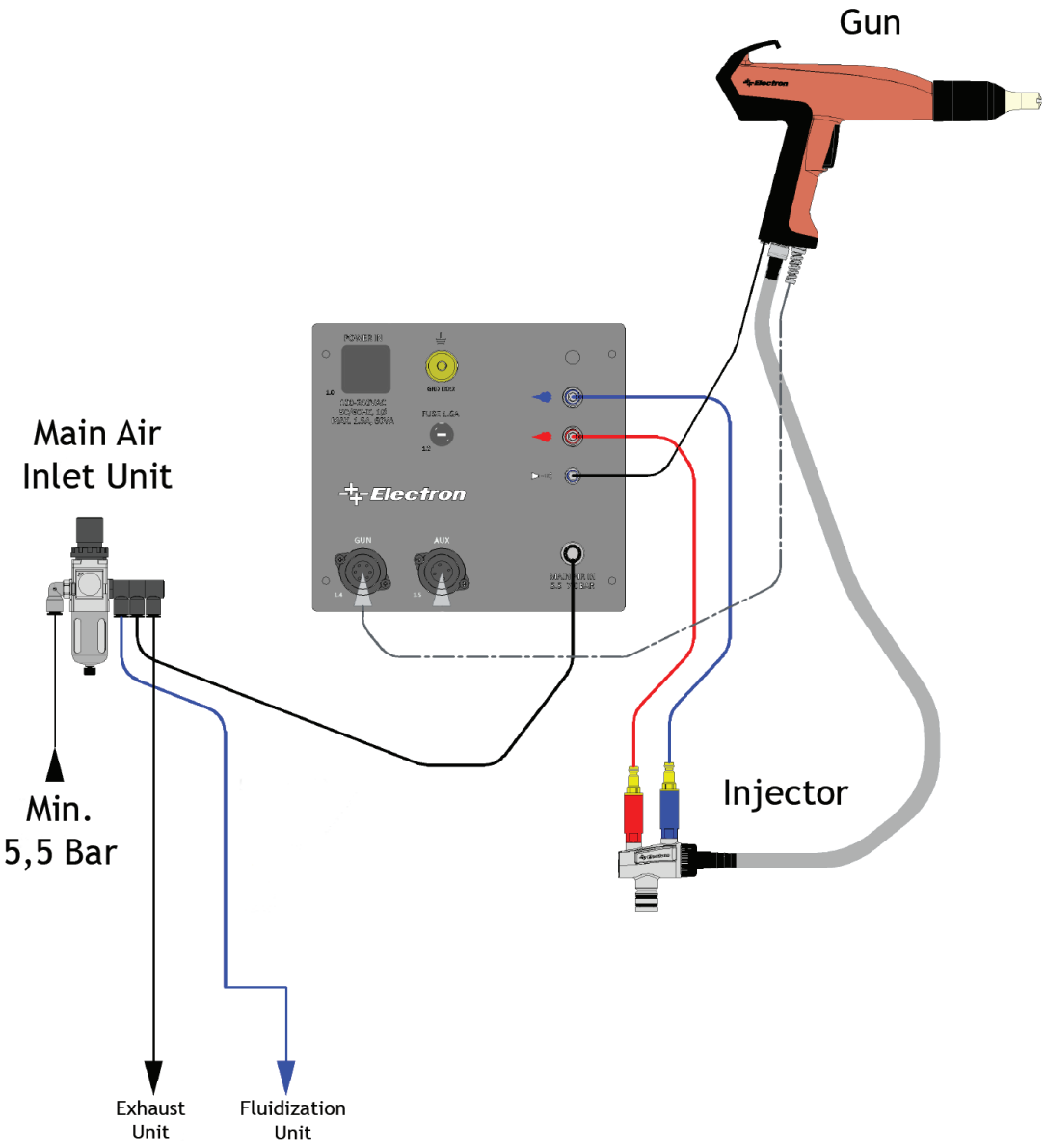
In this working principle, the user can save their own working parameters and change them. There can be 50 recipes starting from P01 to P50, three of which P01-02-03 are factory predefined recipes. These predefined recipes are explained in this manual.Users can manually define 47 different recipes of their choice.

Recipe Segment

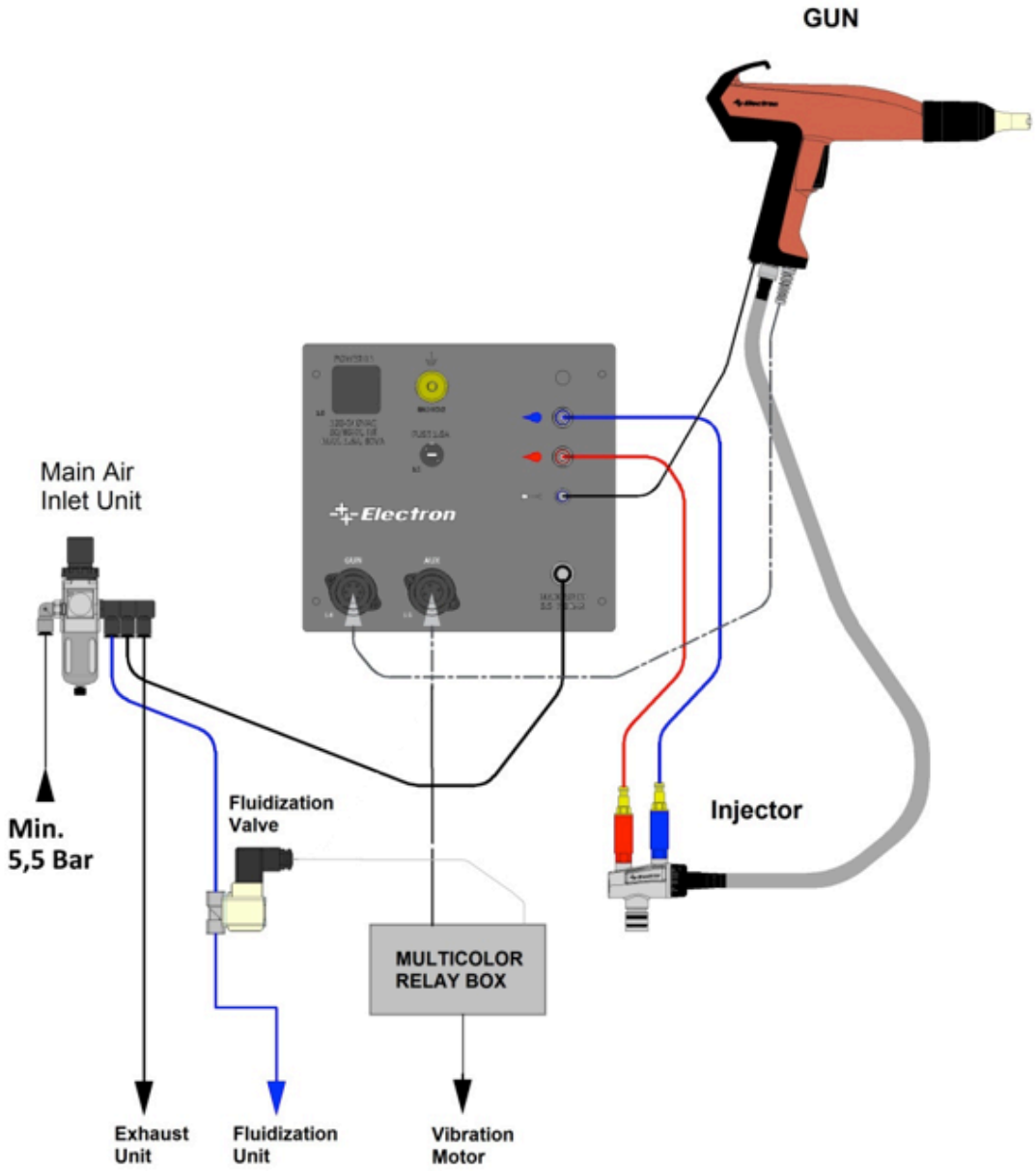
3.Start Up

3.1- Installation

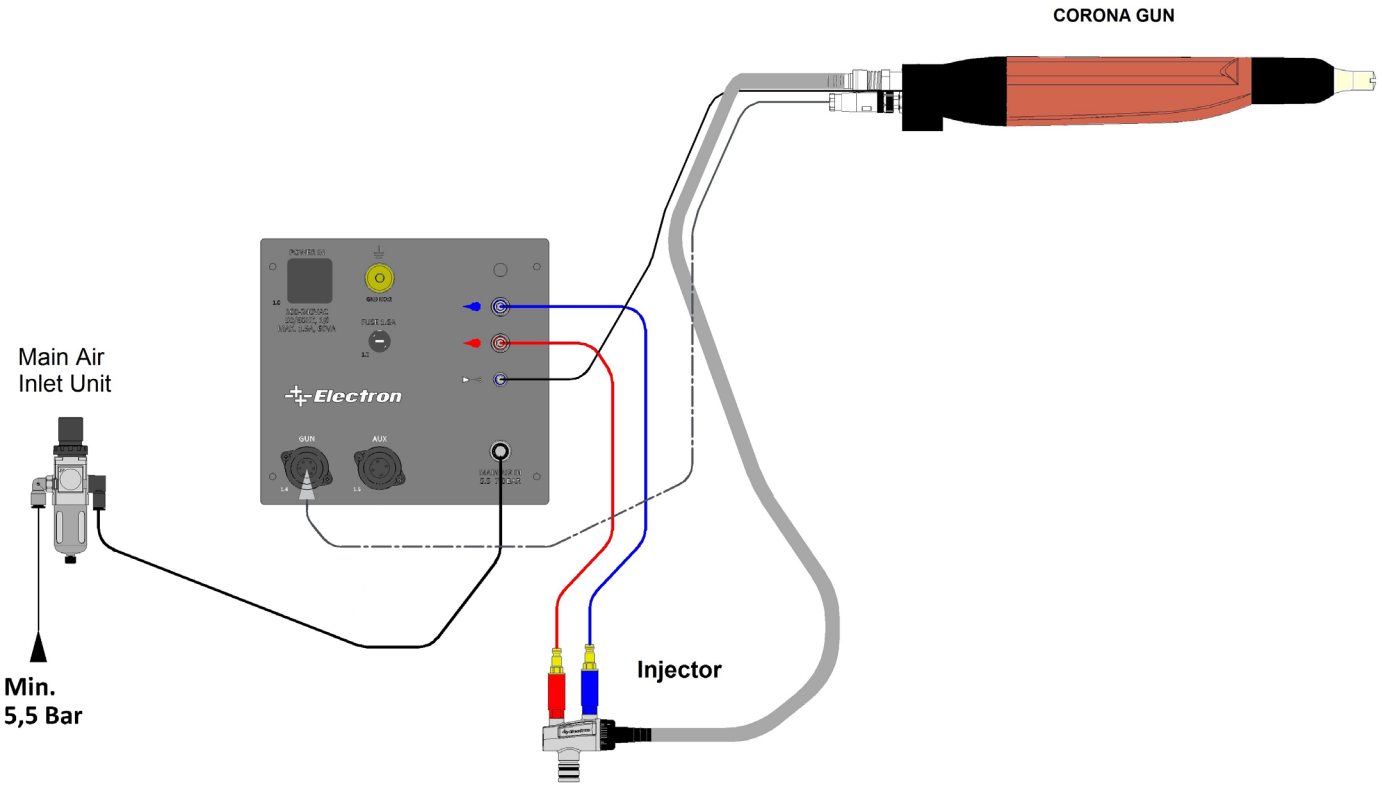
a. “Bare” and “H” type Device Kits Electro-Pneumatical Connections



b. “M” type Device Kits Electro-Pneumatical Connections



c. “A” type Device Kits Electro-Pneumatical Connections



2- Start Up

Info: E-COAT Pro V2 Powder Coating Control unit always starts with the last used configuration preferences.

In the above “System Connections” figure, all the electrical and pneumatic connections are shown. After correctly connecting the device, the user can press the “Main Switch” to start the control unit. The below procedure should be done at the first Start up.

E-COAT Pro V2 should be calibrated according to the products that are going to be powder coated before the start up. Once you are in the “Main Page” Press the B1 ⏻ interface button for 5 seconds and the user will see the configuration setting in the device segments.

Calibration Preferences

Code	Code Info	Preferences	Factory Preset
C-1 (kV titled top segment)	Gun Type	0 = Automatic 1 = Manual w Hopper- w/o Hopper 2 = Manual Multicolor/Mixer	1
C-3 (µA titled bottom segment)	AUX output latency after trigger release (s)	0 - 100	10

The correct installation steps of Electron E-COAT Pro V2 Control Unit are as follows:

1. C-1 parameter should be adjusted for the type of control unit system.
2. If there is a multicolor item, mixer or an optional gadget that is going to be used with the Control Unit via AUX output, C-3 parameter should be set in seconds for when the gun trigger is being released.

3- Operation

a. Creating and Saving a User Recipe

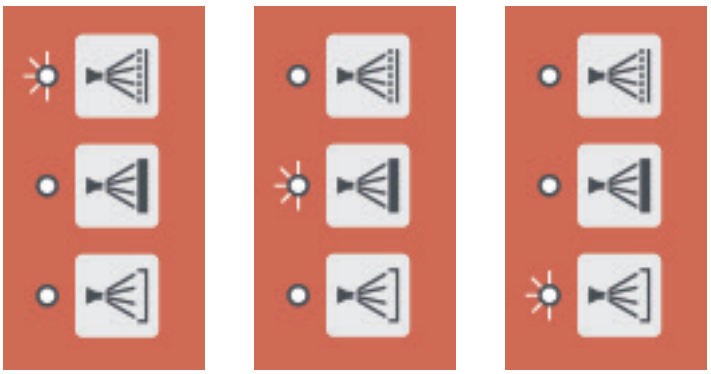
Recipe Segment

After adjusting the values from the control unit, the user can save the recipe for future usage. To save the current recipe, press and hold the segment button next to the recipe segment button for three seconds. You will see the recipe number flashing every 500ms. The user then chooses the recipe number for the current recipe. Turn the knob until the desired recipe number is selected. Once the number is selected the recipe can be saved.

To save the recipe, press and hold the same segment button for three seconds. This time, the screen will start flashing every 200ms for 2 seconds and the recipe will be saved successfully. If instead of pressing and holding for three seconds, the user presses the button once, the current recipe will not be saved and the screen will turn to its first position

Info: The upper limit of the High Voltage is 100 kV and the current output limit is 100 µA.

b. Predefined Recipe Usage



Predefined Recipe Recall Buttons

Pressing the first predefined recipe on the left side calls the flat surface coating application. After pressing, the screen automatically brings the P01 recipe and the LED indicator will light up. Similarly, if the user presses the button on the middle, the control unit brings up the P02 recipe which is the “Coating on Coated Surface”, and if the user presses the right buttons the “Coating on Notched Surface”. Recipe will be recalled and the proper LED will light up.

Predefined Recipe Working Parameters are located below

Predefined Recipe Name	High Voltage (kV)	Current (µA)
Flat Surface Application	100	100
Coating on Coating Application	100	10
Notched Surface Application	100	22

c. High Voltage Preferences

As it is shown in the below figures, the values can be changed on the first two segment buttons. Once the value segment is selected, the user can adjust the values via rotating the knob on the device.

High Voltage and Current Adjustment Segments

The adjustments set the upper limits of both the High Voltage and Current Values. The values can change while gun operation, according to the coating application, and the type of workpiece. These values will also change according to the length between the workpiece and the tip of the gun. Once the gun is triggered the values can be read on the same segment.

Info: The upper limit of the High Voltage is 100 kV and the current output limit is 100 µA.

d. Air and Powder Adjustments

E-COAT Pro V2 Powder Coating Device includes manually adjustable pneumatic regulators with manometers. From top left to bottom right these are:

1. Supplementary Air
2. Powder Air

Powder Transfer Air , Supplementary Air .

E-COAT Pro V2 Pneumatic Adjustment Regulators

3.4- Trigger

When triggered the Electrostatic Powder Application Control unit will start applying static electricity to the sprayed powder paint.

The trigger configuration can be done in two different ways.

1. Using the Gun Trigger. (In a manual configuration)
2. If the POWER IN socket on the control unit is fed from the number three (3) meaning the terminal control unit's POWER IN socket number 3 feed, starting up a preconfigured equipment will be done via pressing the B1 ⏻ interface button. If the control unit is active, this led ⏻ will be lit. If the number three (3) cable socket is fed the powder paint will be blown it will be statically loaded.

Warning: The 1.0 coded POWER IN socket's inner connections and the fuse connections at the other end should be done by the ELECTRON technicians at the installation. Electron does not accept any responsibility for the possible damage if the equipment is altered or used before installation.

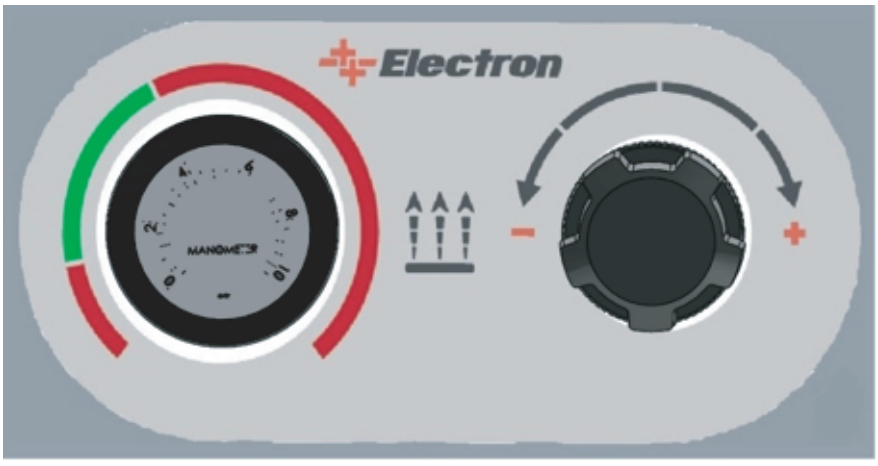
C-1 Parameter	B1 Button Status	System Operation
0 = Automatic	Enabled	The device is ready to be triggered. The device will be triggered when mains phase voltage is applied to pin #3 of POWER IN socket.
	Disabled	The device is disabled to get triggered. The device will not be triggered even if phase voltage is applied to pin #3 of POWER IN socket.
1 = Manual (w/ or w/out hopper)	Enabled	AUX socket is powered continuously.
	Disabled	AUX socket is disabled.
2 = Manual (Multicolor/ Stirrer)	Enabled	AUX socket is powered depending on triggering. AUX is kept powered during triggering and turns off after the time defined in parameter C-3 following trigger release.
	Disabled	AUX socket is disabled.

B1 Button Function Table

Pressing the gun trigger on the manual gun or using the electrical trigger on the automatic gun, if the high voltage and the air/ powder ratio adjustments are done, the guns will be spraying statically loaded powder paint.

The user can observe this occurrence from the green lit led (D-T marked) in front of the control unit.

3.5- Fluidization



Fluidization control Panel

A “Fluidization Control Panel” is placed on the mobile device carrier for the operator to easily adjust the fluidization pressure for H type devices with hopper or M type devices with box fluidizied suction tubes. Turning the regulator knob counter-clockwise will degrease or clockwise will increase the applied pressure to the fluidization nozzle in the system. The green and red areas are signed to indicate the approximate operating pressure values for the fluidization air. The fluidization will start in parallel with the vibration motor when the device is triggered if the button is enabled for “M” type multicolor sets.

4. Cleaning and Maintenance

4-1. Cleaning

4-1-1. Gun Body Cleaning

Daily:

1. Clean the body of the gun with pressurized air and a clean towel.
2. Remove the nozzle torque nut.
3. Remove the gun nozzle and the electrode and clean the gun with pressurized air.

Weekly:

4. Remove the powder paint hose.
5. Clean the powder paint input of the gun with pressurized air.
6. Clean the powder paint hose starting from the injector.

4-1-2. Nozzle Cleaning

Every other shift or at the end of a working day:

1. Remove the nozzle torque nut.
2. Remove the gun nozzle and clean both the electrode and the nozzle.
3. Clean all the powder thoroughly. Never try to scratch the paint with a strong material.

Weekly:

4. Check the nozzle group for scratches. Change the nozzle group using the spare parts list if needed.

4-2. Maintenance

E-GUN C2 type manual powder coating gun is designed to be maintained with minimum effort.

1. Clean the powder gun body with a clean towel.
2. Make an eye check on the gun cable and input hoses.
3. Change the powder and pneumatic hoses if needed.

Part Change

The user can only change the consumables of the gun and some of the E-GUN coating gun parts.

Note: *Operations like Changing the Cascade, Trigger mechanism or Gun Cable can only be done by an ELECTRON® approved personnel.*

Troubleshooting

Troubleshoot Code	Explanation	Suggestions
kV and µA segments fully blinking “255”	Feedback Signal Failure	• Check the gun cables for a possible tearing • Check the connection between the gun Cascade and the Socket Group inside the gun. • Check Cascade for Mulfunction.

Error Codes

The failures which are mentioned above can be observed from the “kV “titled segment in the front panel of the device. The fault should be fixed before starting the device and the device should be shut down and start up from the MAIN SWITCH.

The other faults in the user interface are explained below

Failure	Possible Failure Reason	Solution
There isn't any output High Voltage or Powder Output.	1. Gun cable is disconnected. 2. Gun cable is damaged 3. Short Circuit or damage in the Gun Trigger grouping 4. The control unit is in automatic configuration but the B1 interface button's LED is not lit.	1. Plug the cable. 2. Check for the damage or change the cable 3. Check the grouping for short circuit or damage and change the trigger group if needed. 4. Press the B1 button to activate the automatic unit.
The interface buttons are not working as intended.	1. The Control Unit front panel membrane has a short circuit or damaged. 2. The Control Unit is not correctly configured.	1. Change the keypad of the membrane. 2. Check the entire configuration of the Control Unit and redo the configuration if needed.
The rotary Knob is not changing any values on the screen.	1. The segment is not chosen. 2. The Knob is damaged.	1. Please select the segment that you want to change. 2. Change the Rotary Knob.

Failure	Possible Failure Reason	Solution
Powder Paint is being blown from the gun but the paint doesn't hold on the material (No High Voltage Output)	1. The material is not earthed 2. the kV or µA parameter is set to 0 3. The signal from the gun does not reach to the Cascade.	1. Earth the material or improve the grounding. 2. Set the kV or µA parameter above 0. 3. Consult an ELECTRON expert.
The gun trigger is working and the High Voltage is working but there is no powder output.	1. Blockage in the powder route 2. The Air or Powder Ratio segment is set to 0 3. Tearing or disconnection between the injector and the control unit. 4. If the preferences are adjusted in a well manner, the proportional valve inside the gun might be damaged	1. Blockage in the powder route 2. The Air or Powder Ratio segment is set to 0 3. Tearing or disconnection between the injector and the control unit. 4. Consult and ELECTRON expert
Pressing the trigger doesn't start the control unit (The LED in front of the control unit is not lit)	1. Gun trigger is damaged	1. Consult and ELECTRON expert
Parameters at the installation are configured but the powder pattern is not well.	1. Teflon bushing in the injector's life cycle is ended. 2. Nozzle life cycle is ended. 3. Pneumatic hoses are damaged/broken or plugged. 4. The air channels are plugged. 5. Injector jet's life cycle is ended	1. Change the Teflon bushing. 2. Change the nozzle 3. Fix the pneumatic hoses or change them if needed. 4. Clean the injector and the filters. Change any necessary parts. 5. Change the injector jet.

6. Parts and Accessories

1

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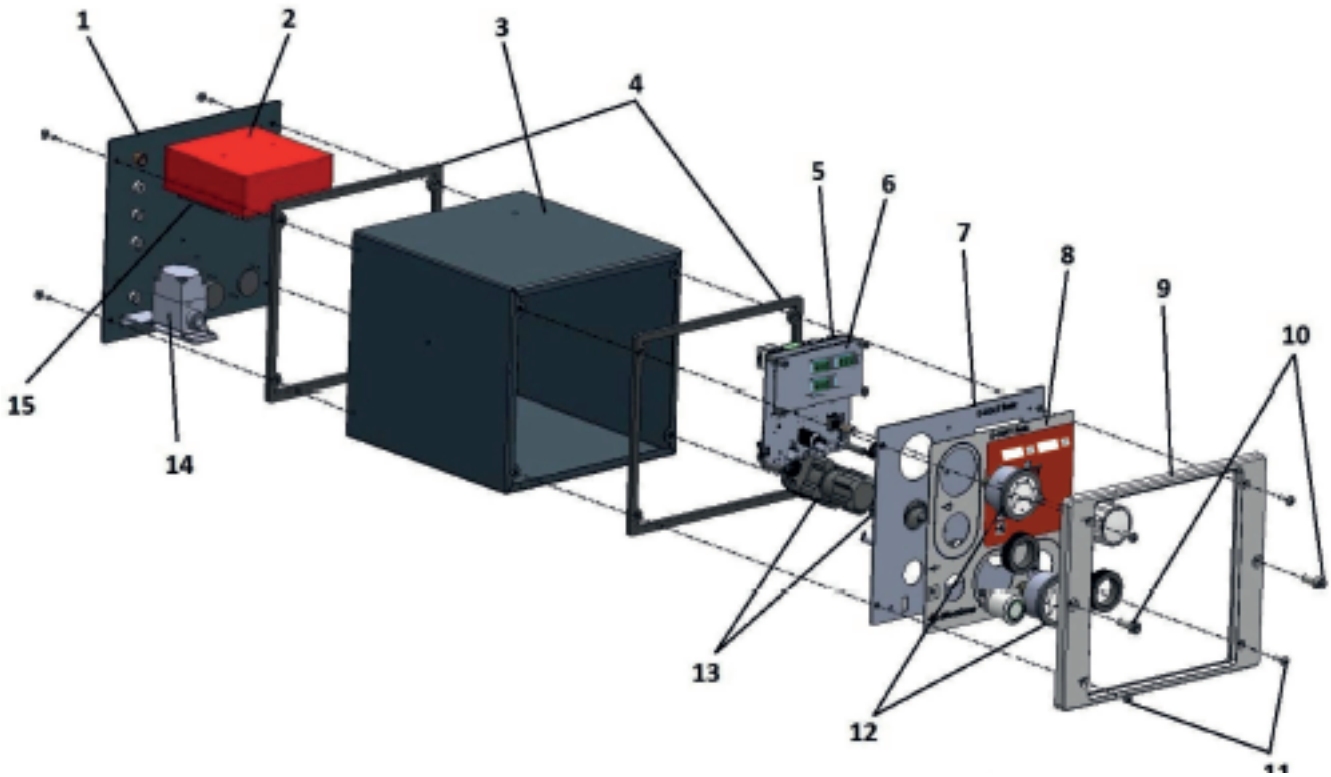
Product #	Product Name	
1	E-COAT Pro V2 AUTOMATIC POWDER COATING DEVICE	A06ECA04A
2	E-COAT Pro V2 MANUAL POWDER COATING DEVICE	A06ECM04B
3	E-COAT Pro V2 H MANUAL POWDER COATING DEVICE	A06ECM04H
4	E-COAT Pro V2 M MANUAL POWDER COATING DEVICE	A06ECM04M

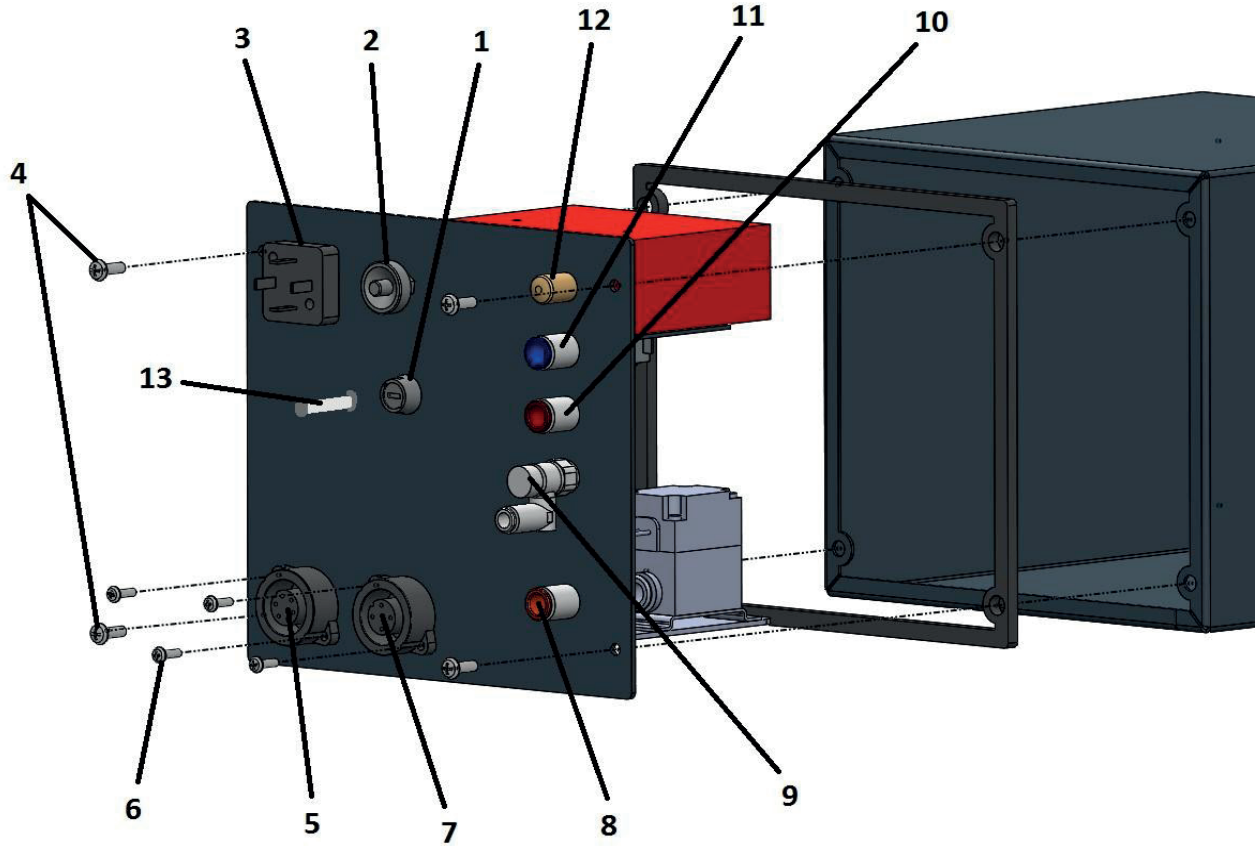
Control Unit Type	Order Code
E-COAT Pro V2 Control Unit	B07ECPU02

Part No	Product Name	Order Code	Qty
1	E-COAT CONTROL UNIT FRAME	ENEM02001	1
2	E-COAT PRO V2 FRONT PANEL SET	B07EC0025	1
3	0-1 ANAHTAR Ø22 PASLANMAZ TURUNCU HALKA LED	ELBS01001	1
4	E-COAT CONTROL UNIT CASE	B07EC5001	1
5	INCREMENTAL ENCODER	B07IENC01	1

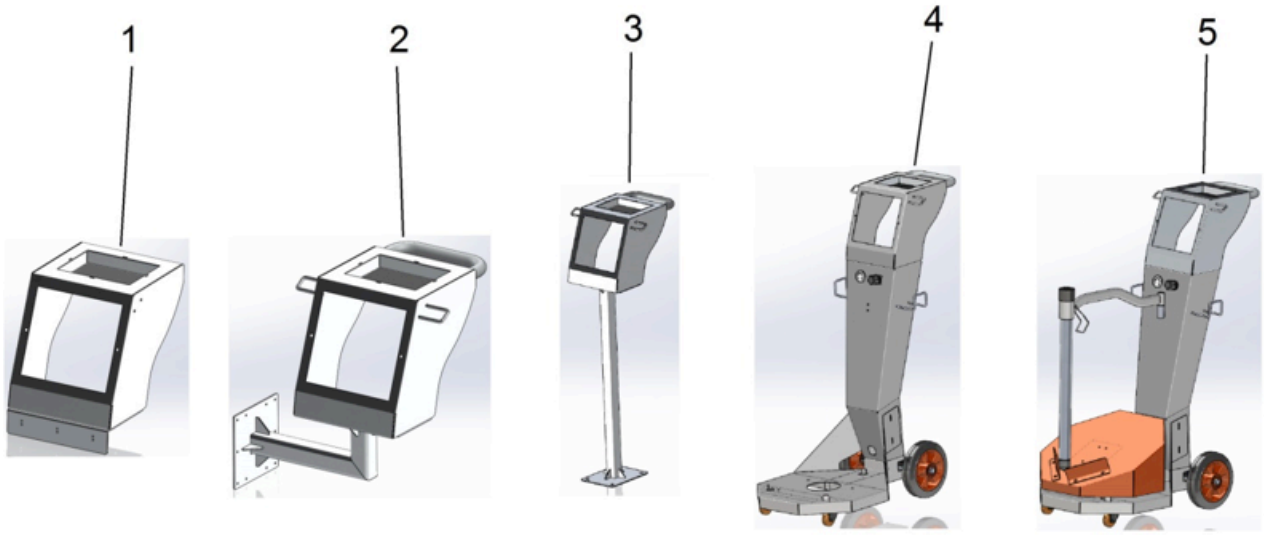
Order Code	Part Name	Wearing Part
B07POWER01	POWER CABLE OF E-COAT MANUAL DEVICES (3 m)	N/A
B07POWER02	POWER CABLE OF E-COAT AUTOMATIC DEVICES (4 m)	N/A



Part No	Part Name	Order Code	Qty
1	E-COAT Pro V2 BACK SHEET METAL	B07EC5006	1
2	RS-50-24 24 V DC SMPS	ELON10001	1
3	E-COAT CONTROL UNIT CASE	B07EC5001	1
4	E-COAT FRONT/BACK GASKET	IZCS01004	1
5	E-COAT Pro V2 MAINBOARD	B07500003P	1
6	E-COAT Pro V2 LED CARD (7 SEGMENT)	B07500004P	1
7	E-COAT Pro V2 FRONT ALUMINUM SHEET METAL	B07EC5009	1
8	E-COAT Pro V2 FRONT PANEL SET	B07EC0025	1
9	E-COAT CONTROL UNIT FRAME	ENEM02001	1
10	M6X16 ROUND SOCKET HEAD OF E-COAT CONTROL UNIT FRAME	BECV03029	2
11	SCREW M4X15 YSB	BECV01009	8
12	MANOMETER Ø40X6 BAR PNEUMATIC	PNPE07003	2
13	REGULATOR - SMC 1/4" ARX20-F02 0-8,5 BAR	PNPE01001	2
14	VALF SOLENOID 2/2 24V DC	PNPE04011	1
15	EMI LINE FILTER - 3A FI TYPE AERODEV PNF223-G-3A (B)	ELON05003	1

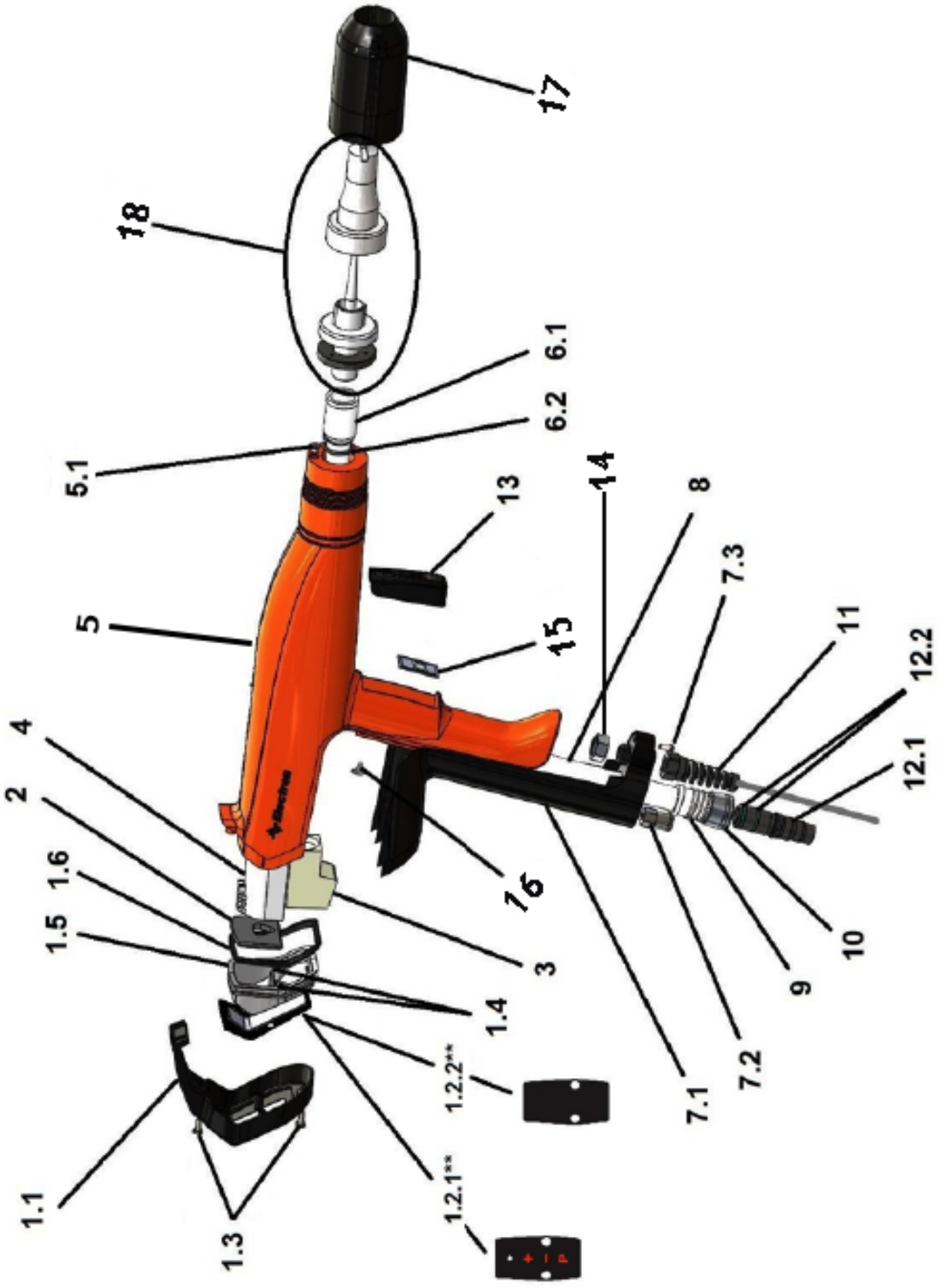


Part No	Part Name	Order Code	Qty
1	SLOT OF FUSE GLASS SHURTER IP67 5X20A 693-3101.0310	ELDE06006	1
2	GROUNDING NUT (M5X20)	TRTM05017	1
3	SOCKET OF VALVEGSA3000 A TİPİ HIRSCHMANN HICON-932598500	ELKS10004	1
4	M4X15 YSB SCREW	BECV01009	4
5	RD24 7 PIN CONNECTOR	ELKS03003	1
6	M3X10 YSB SCREW	BECV01002	1
7	SOCKET BINDER RD24 SOLDERED TYPE 4 PIN FEMALE PANEL CONNECTOR	ELKS03001	1
8	RAKOR 1/8" - Ø8 PNEUMATIC MALE STRAIGHT ORANGE METALWORK	PNRD01011	1
9	ELBOW FITTING W/ SPEED ADJUSTMENT1/8"-Ø6	PNRD03035	1
10	PIPE 1/8"-Ø8 MALE RED	PNRD01016	1
11	PIPE STRAIGHT 1/8"-Ø8 MALE BLUE	PNRD01042	1
12	SILENCER SINTER BSL 01-1/8"	PNDP01006	1
13	1,5A GLASS FUSE	ELDE06002	1



Part	Accessory Type	Order Code
1	E-COAT **Platform** Type Device Mounting Equipment	B07ECT004
2	E-COAT **Wall**/Booth Device Mounting Equipment	B07ECT003
3	E-COAT **Pod Type** Device Mounting Equipment	B07ECT005
4	E-COAT Basic Device Car	B07ECT007
5	E-**MultiColor**	B07ECT002

Product #	Part Name	Order Code	CONSUMABLE
1	E-GUN C2 MANUAL POWDER COATING GUN	B07EGC200	N/A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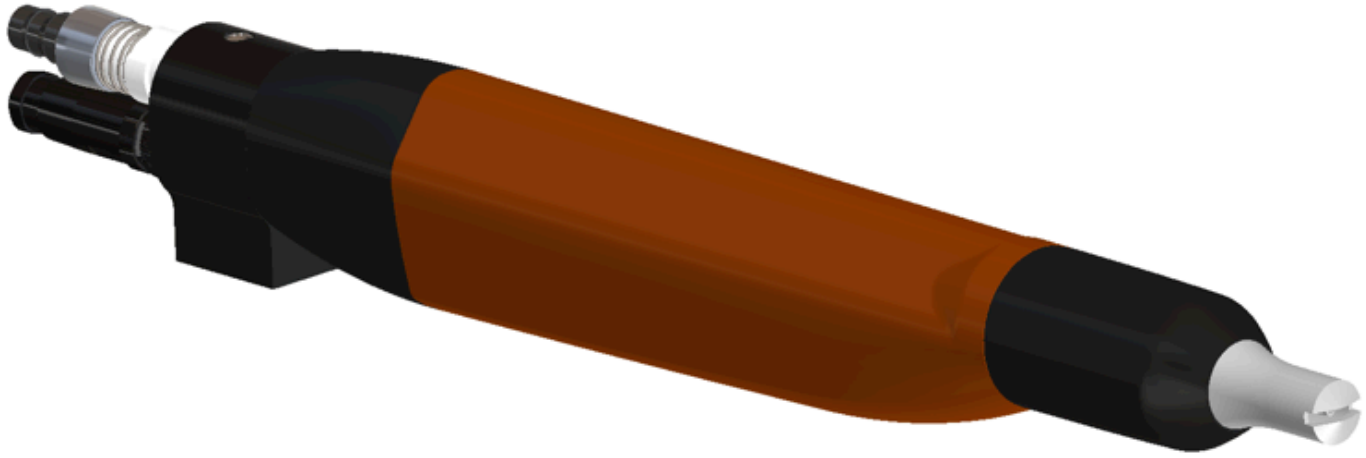
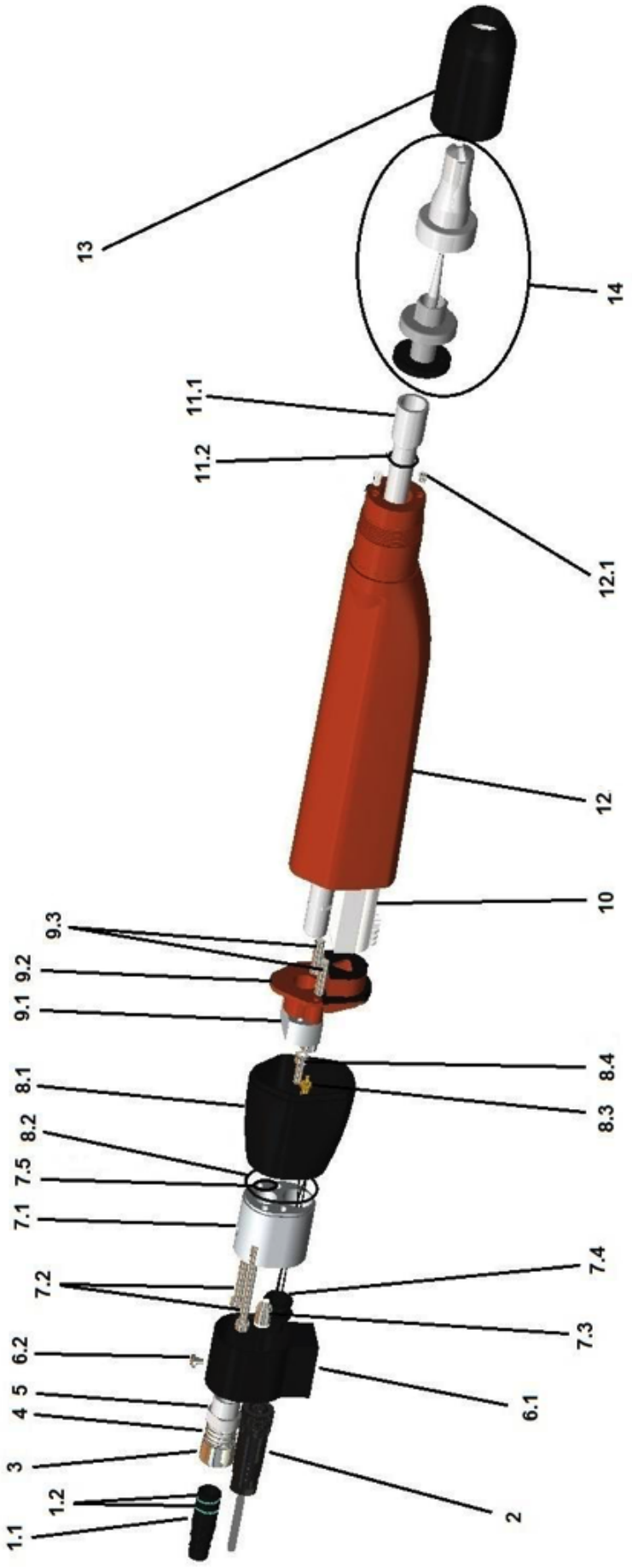
Part #	Order Code	Part Name	Wearing Part
1	B07BC0002	E-GUN C1 BACK COVER GROUP (COMPLETE)	N/A
1.1	B10520015	E-GUN C1/C2 BACK COVER OUTER PLASTIC (CONDUCTIVE)	N/A
1.2.1**	B07LG5005	E-GUN MANUAL GUN REAR KEYPAD MEMBRANE	N/A
1.2.2**	ETKT03028	E-GUN REAR KEYPAD LEXAN (%100 FIREPROOF MATERIAL)	N/A
1.3	BECV01001	M3X8 YSB BOLT	N/A
1.4	BECV09001	SCREW 3X6,5 PLASTIC PYSB METALLIC A-618	N/A
1.5	ENEM01036	E-GUN REAR COVER BUTTON BODY	N/A
1.6	ENEM04003	E-GUN REAR COVER MEMBRANE GASKET	N/A
2	ENEM04004	E-GUN CASCADE INSULATION GASKET	N/A
3	ENEM01031	E-GUN MANUAL GUN MEDIUM PART	*
4	B07EGCN01	E-CASCADE	N/A
5	B07EC0001	E-GUN MANUAL GUN PLASTIC BODY (COMPLETE)	N/A
5.1	B07520007	E-GUN NOZZLE AIR FILTER UNIT	N/A
6	B07EC0002	E-GUN C1/C2 TOP POWDER PIPE (W/ O-RING)	*
6.1	ENEM01032	E-GUN MANUAL GUN TOP POWDER PIPE	*
6.2	IZOR01005	O-RING Ø15X2 NBR70	N/A
6.3	IZOR01019	O-RING Ø13X1 NBR70	N/A
7	B07EC0003	E-GUN C1/C2 HANDLE (COMPLETE)	N/A
7.1	B10520002	E-GUN MANUAL GUN HANDLE	N/A
7.2	PNRD01012	FITTING MALE STRAIGHT PNEUMATIC Ø6-M5 INTERNAL COMPRESSION KQ2S06-M5N	N/A
7.3	BECV01001	M3X8 YSB BOLT	N/A
8	B07520011	E-GUN MANUAL GUN BOTTOM POWDER PIPE (W/ O-RING)	*
9	BEDH09003	E-GUN HOSE CONNECTION SPRING	N/A
10	TRTM04009	E-GUN LOCKING RING OF HOSE CONNECTION	N/A
11	B07528005	E-GUN MANUAL GUN CABLE (5m)	N/A
12	B07EC0004	E-GUN HOSE FITTINGS (W/ O-RING)	N/A
12.1	TRTM03005	E-GUN POWDER HOSE CONNECTION	N/A
12.2	IZOR02001	O-RING Ø12X1,5 SILICONE	N/A
13	B07520012	E-GUN PLASTIC OF MANUAL GUN TRIGGER (COMPLETE)	N/A
14	TRTM04016	E-GUN COMPRESSION RING OF GUN CABLE	N/A
15	B07LG5006	E-GUN MAGNETIC TRIGGER SET OF MANUAL GUN	N/A
16	BECV01030	M3X10 TAPTILITY SCREW	N/A
17	B07524002	E-GUN NOZZLE TIGHTENING NUT	N/A
18		PLEASE CHECK NOZZLE TYPES SELECTION LIST	

***Part #1.2.1 or #1.2.2 Manual Gun Type (C2) should be considered before ordering.*



Part #	Order Code	Part Name	Wearing Part
1	B07EGC300	E-GUN C3 AUTOMATIC POWDER COATING GUN (COMPLETE)	N/A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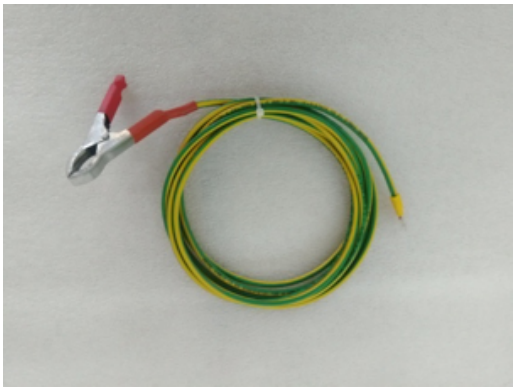
Part #	Order Code	Part Name	Wearing Part
1	B07EC0004	E-GUN HOSE FITTINGS (W/ O-RING)	N/A
1.1	TRTM03005	E-GUN POWDER HOSE CONNECTION	N/A
1.2	IZOR02001	O-RING Ø12X1,5 SILICONE	N/A
2	B07528012	E-GUN AUTOMATIC GUN CABLE (12m)	N/A
3	TRTM04009	E-GUN LOCKING RING OF GUN HOSE INPUT	N/A
4	BEDH09003	E-GUN HOSE INPUT SPRING	N/A
5	TRTM03009	E-GUN HOSE INPUT W/ AUTOMATIC QUICK CONNECTION	N/A
6	B07EC0005	E-GUN C3 CONNECTION PART OF ROBOT (COMPLETE)	N/A
6.1	TRTM04012	E-GUN ROBOT ARM CONNECTION ALUMINUIM OF AUTOMATIC GUN	N/A
6.2	BECV03039	BOLT M5X20 IMBUS	N/A
7	B07EC0006	E-GUN C3 ALUMINUM REAR TERMINATOR (COMPLETE)	N/A
7.1	TRTM04013	E-GUN AUTOMATIC GUN ALUMINUM REAR TERMINATOR (UNCOATED)	N/A
7.2	BECV08002	BOLT IMBUS HALF THREAD PLATED M6X60	N/A
7.3	PNRD01012	FITTING MALE STRAIGHT PNEUMATIC Ø6-M5 INTERNAL COMPRESSION	N/A
7.4	ELKS02002	SOCKET BINDER M12-A 4 PIN PANEL TYPE CABLE CONNECTOR	N/A
7.5	IZOR02003	O-RING Ø14X1,5 SILICONE	N/A
8	B07EC0007	E-GUN C3 REAR PLASTIC BODY (COMPLETE)	N/A
8.1	B10521005	E-GUN AUTOMATIC GUN REAR PLASTIC BODY	N/A
8.2	IZOR01012	O-RING Ø35X1,5 NBR70	N/A
8.3	TRTM05008	E-GUN NOZZLE AIR M5-Ø6 HOSE CONNECTION ADAPTER	N/A
8.4	BECV03024	BOLT M5X15 IMBUS	N/A
9	B07EC0008	E-GUN C3 INNER ALUMINIUM ASSEMBLY PART (COMPLETE)	N/A
9.1	TRTM04100	E-GUN AUTOMATIC GUN INNER ALUMINUM ASSEMBLY PART	N/A
9.2	B10521006	E-GUN AUTOMATIC GUN FRONT BODY PLASTIC COVER	N/A
9.3	BECV08003	BOLT M5X70 HALF THREAD PLATED IMBUS	N/A
10	B07EGCN01	E-CASCADE	N/A
11	B07EC0009	E-GUN C3 POWDER PIPE (W/ O-RING)	N/A
11.1	ENEM01037	E-GUN AUTOMATIC POWDER PIPE	N/A
11.2	IZOR01005	O-RING Ø15X2 NBR70	N/A
12	B07EC0011	E-GUN AUTOMATIC GUN FRONT PLASTIC BODY (COMPLETE)	N/A
12.1	B07520007	E-GUN NOZZLE AIR FILTER (COMPLETE)	N/A
13	B07524002	E-GUN GUN TIGHTENING NUT	N/A
14		PLEASE CHECK NOZZLE TYPES SELECTION LISTS	

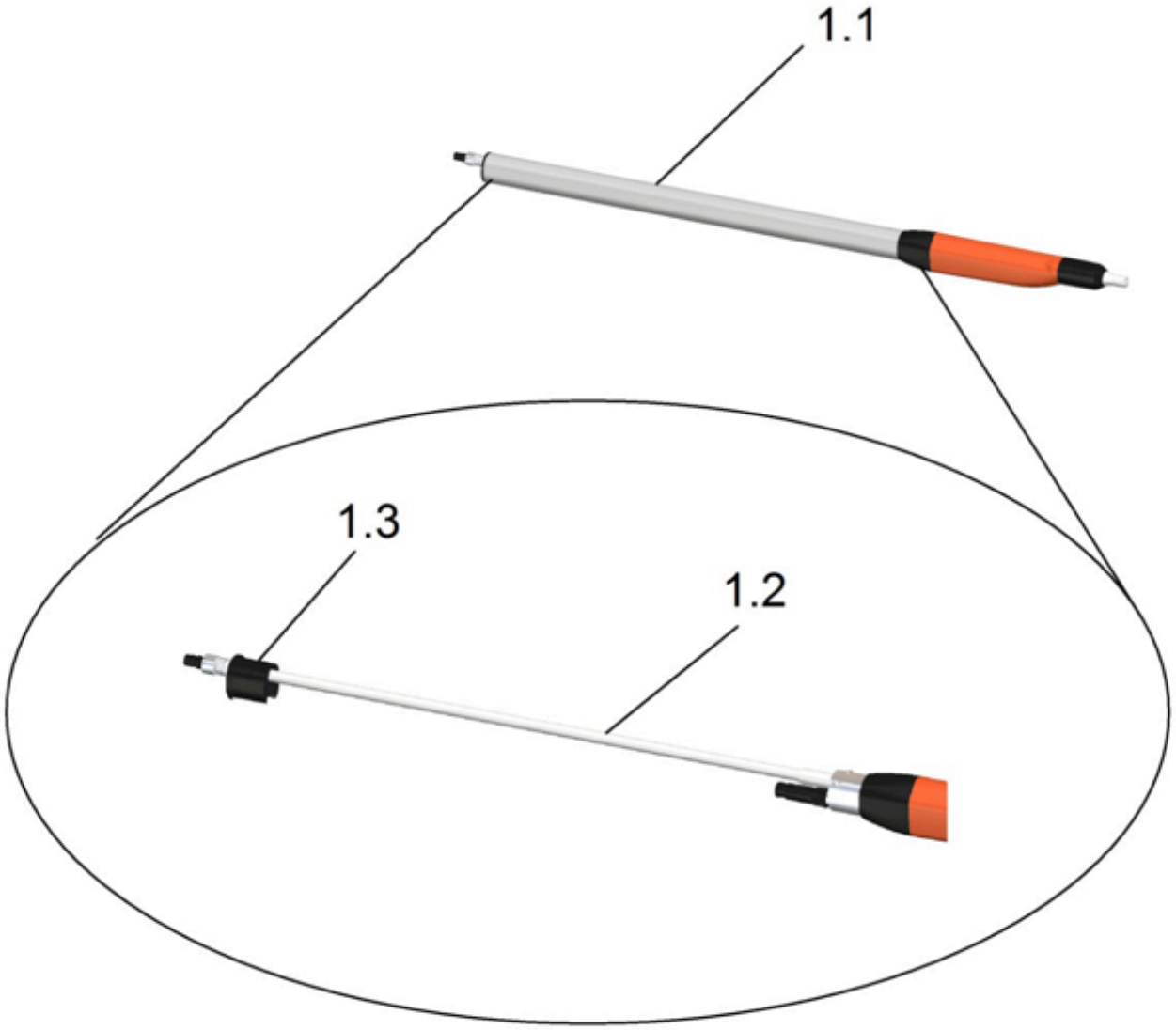
L = 5 m
L = 10 m

Part #	Part Name	Order Code	Wearing Part
1	GUN CABLE EXTENSION KIT (5 m)	B07EXT005	N/A
2	GUN CABLE EXTENSION KIT (10 m)	B07EXT006	N/A

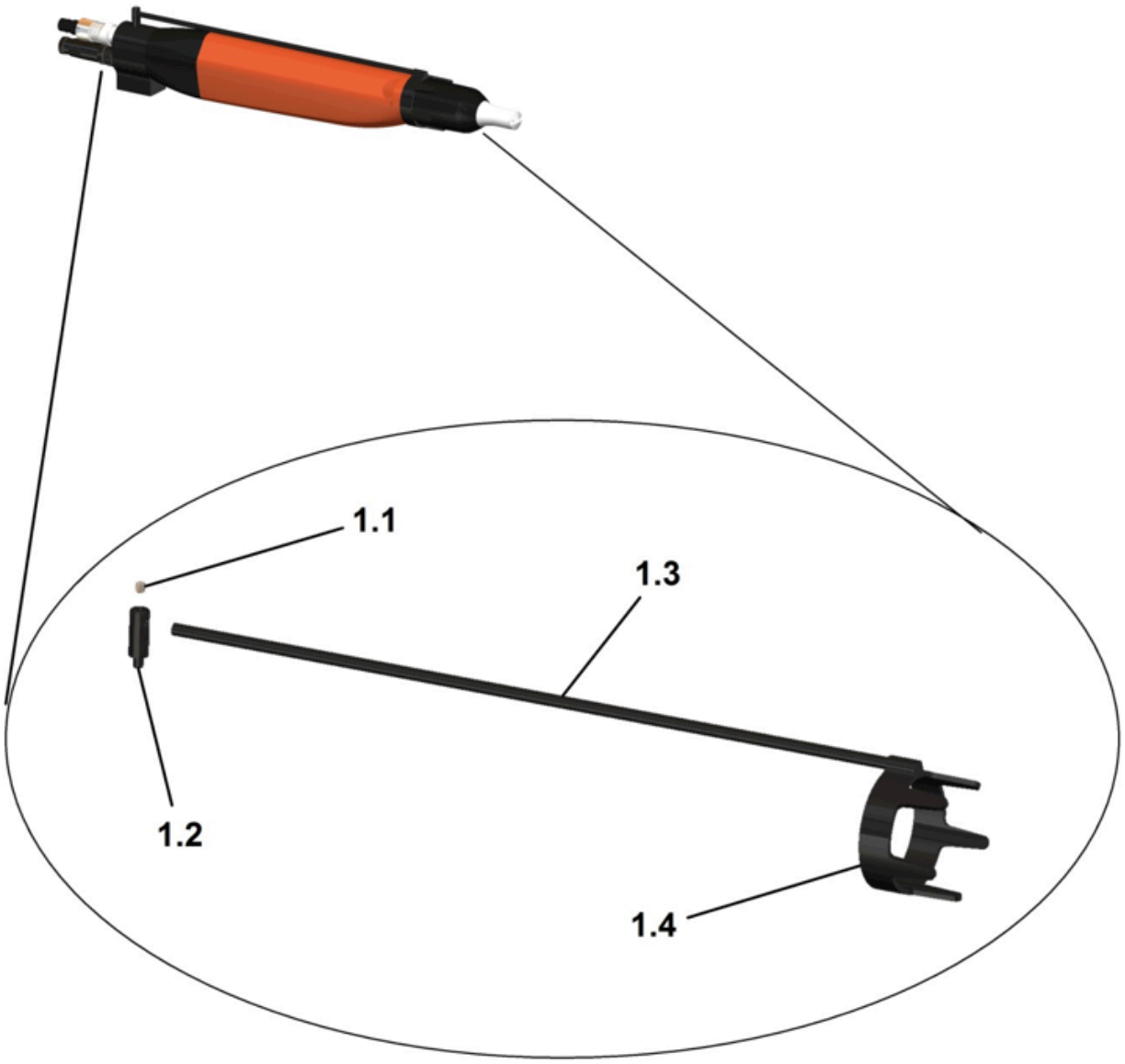
Part #	Part Name	Order Code	Wearing Part
1	11X16 POWDER HOSE W/ CARBON (ELECTRON MARKED) (ORDER IN METERS)	PNHO03001	N/A



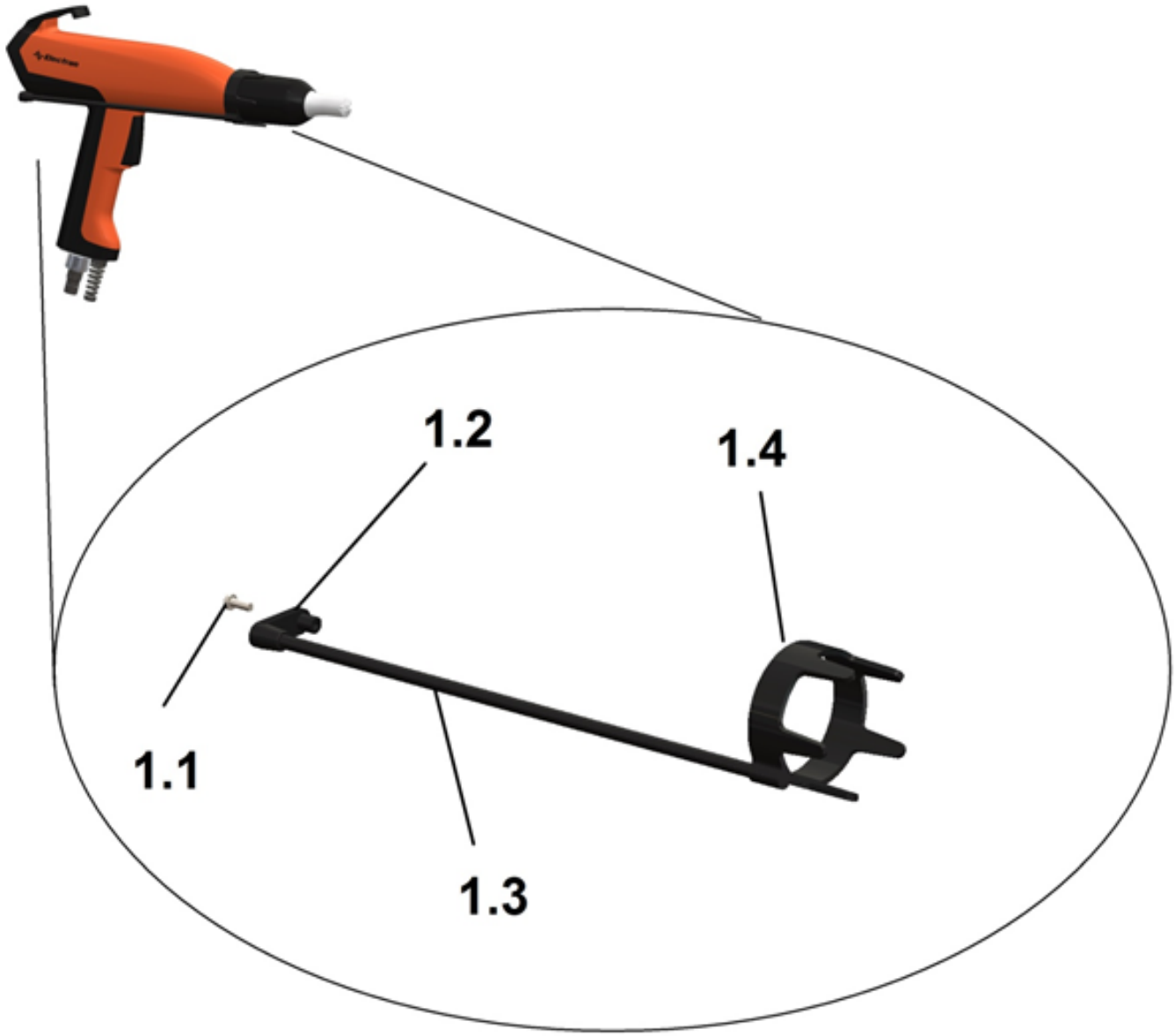
Product #	Part Name	Order Code	CONSUMABLE
1	E-COAT EARTHING CABLE (3 m)	B07ECK506	N/A



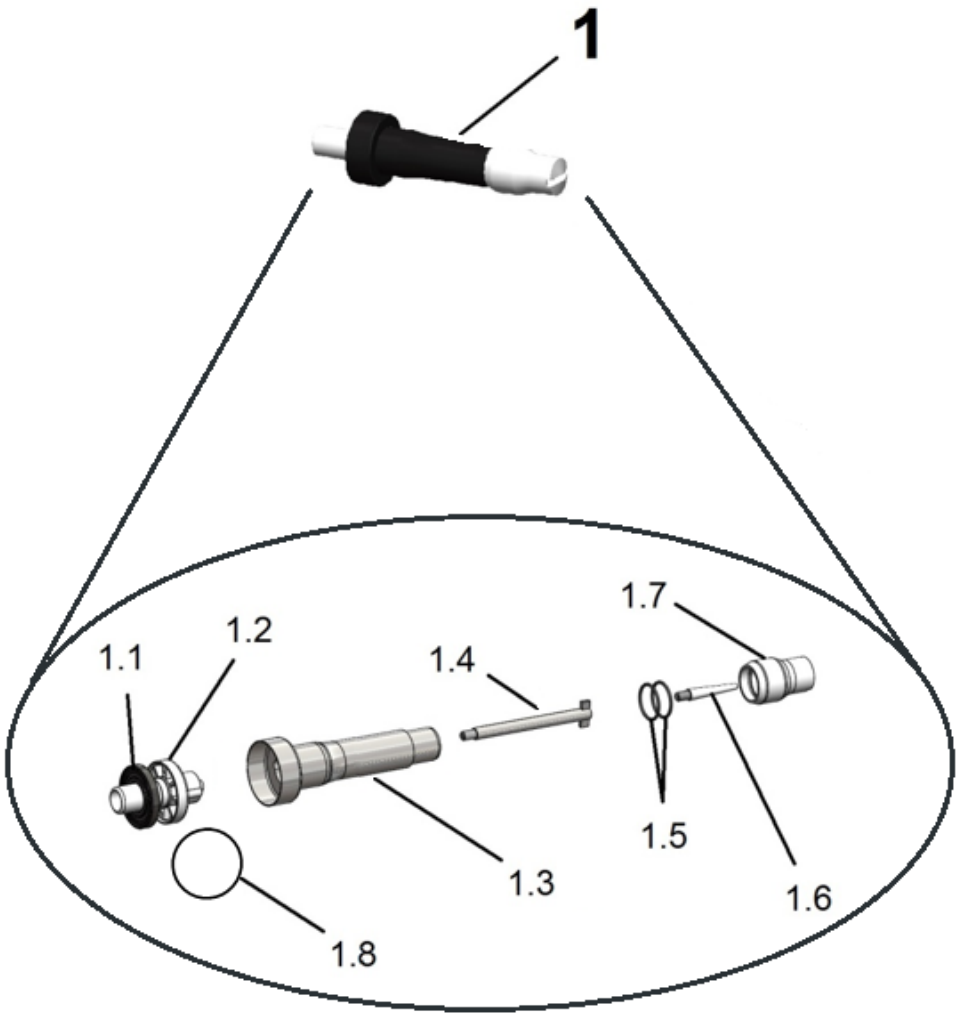
Part #	Order Code	Part Name	Wearing Part	WEARING PART
1		B07RCA001	COMPOSITE ROBOT ARM (COMPLETE)	N/A
	1.1	AKUA03002	E-GUN C3 AUTOMATIC GUN COMPOSITE GUN ARM (BOY:750MM)	N/A
	1.2	B07RCA002	TRANSPORT PIPE FOR COMPOSITE ARM	*
	1.3	B06CE05001	REAR COVER OF COMPOSITE GUN ARM	N/A



Part #		Order Code	Part Name	Wearing Part
1		B07FCR001	E-GUN C3 FAST CORONA RING (COMPLETE)	N/A
	1.1	BEDH08003	M4X06 SETSKUR	N/A
	1.2	TRTM07003	E-GUN C3 MOUNTING BOLT OF FAST CORONA RING	N/A
	1.3	TRTM08013	E-GUN C3 CARBON SHAFT OF FAST CORONA RING	N/A
	1.4	TRTM04015	E-GUN CHARGE COLLECTOR OF FAST CORONA RING	N/A

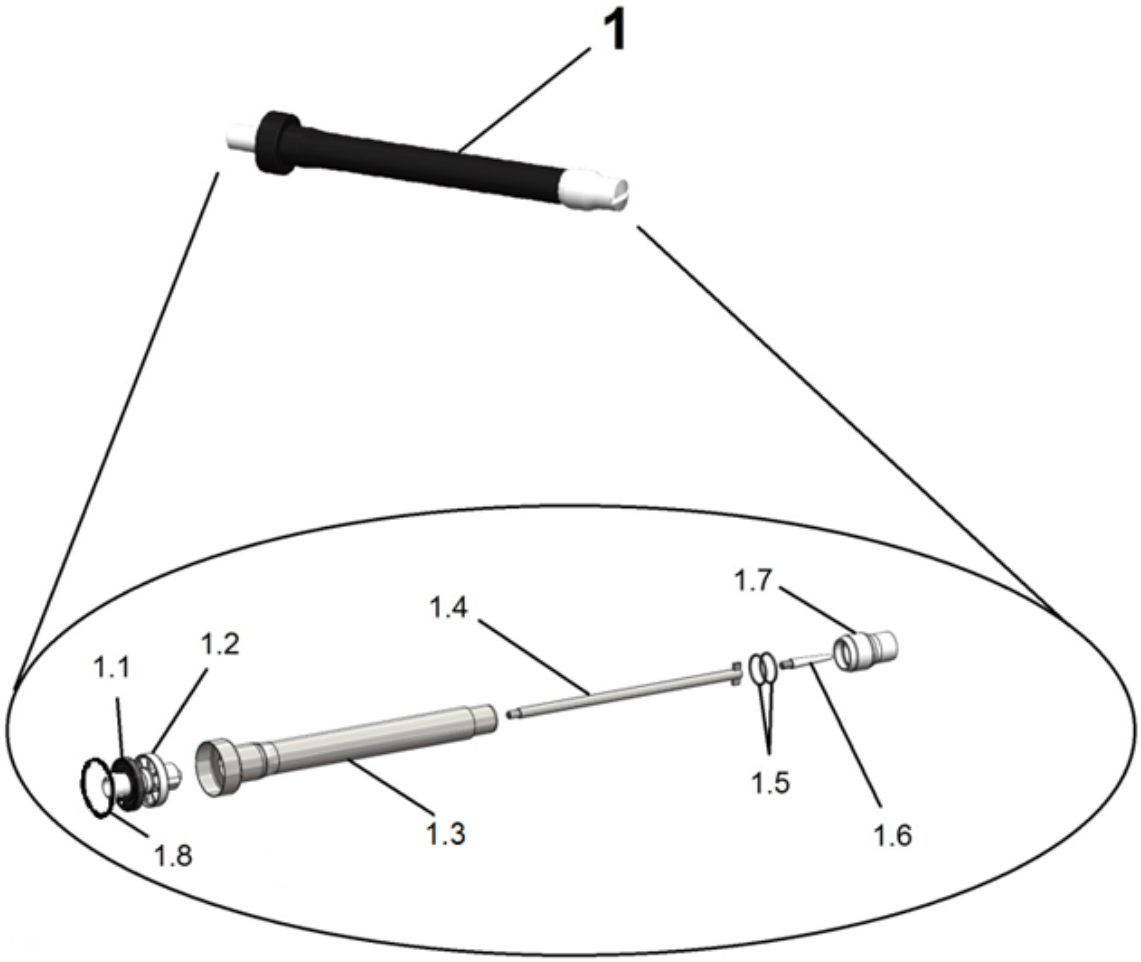


Part #		Order Code	Part Name	Wearing Part
1		B07FCR002	E-GUN C1/C2 FAST CORONA RING (COMPLETE)	N/A
	1.1	BECV01003	BOLT M3X15 YSB	N/A
	1.2	TRTM07002	E-GUN C1/C2 CONNECTION TIP OF FAST CORONA RING	N/A
	1.3	TRTM08014	E-GUN C3 CARBON SHAFT OF FAST CORONA RING	N/A
	1.4	TRTM04015	E-GUN CHARGE COLLECTOR OF FAST CORONA RING	N/A



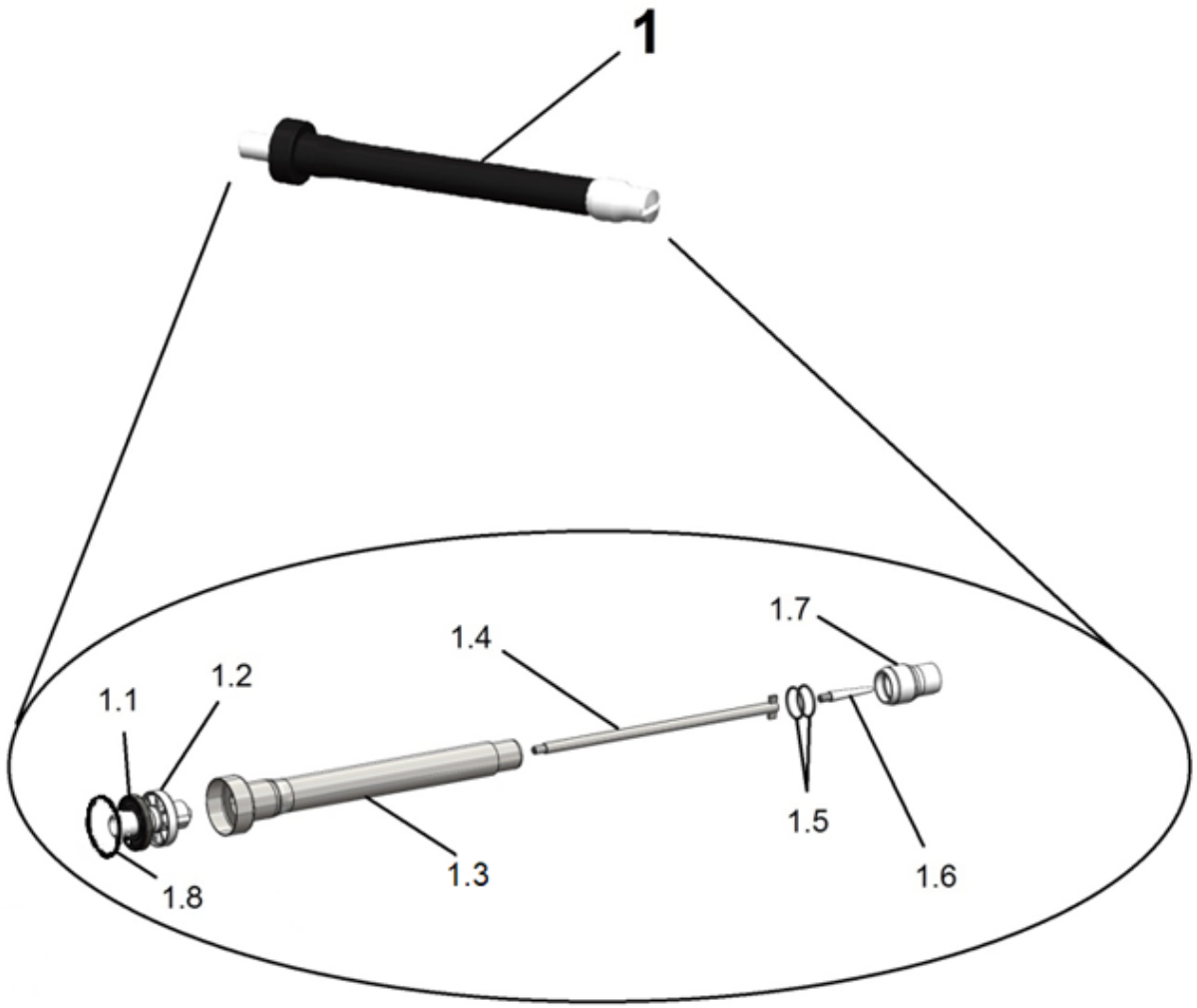
Part #	Order Code	Part Name	Wearing Part
1	B07EXT008	E-GUN 50mm EXTENSION HEAD GROUP (COMPLETE)	N/A
1.1	TRTM08012	E-GUN Ø35 CARBON RING	*
1.2	B07524004	E-GUN ELECTRODE BODY -RESISTANT	*
1.3	B07525013	E-GUN 50mm EXTENSION ELEKTRODE (COMPLETE)	N/A
1.4	B07525014	E-GUN 50mm RESISTANCE SHAFT OF EXTENSION ELECTRODE (COMPLETE)	N/A
1.5	IZOR01007	O-RING 18x1,5 NBR70	N/A
1.6	TRTM01022	E-GUN FLAT HEAD GROUP CONICAL ISOLATOR	*
1.7	TRTM01024	E-GUN EXTENSION/ANGLED ELECTRODE-FLAT HAT	*
1.8	IZOR01026	O-RING Ø30X1,5 NBR70	*

If any extension head assembly is used, the gun is no longer comply with the explosion protection regulation.



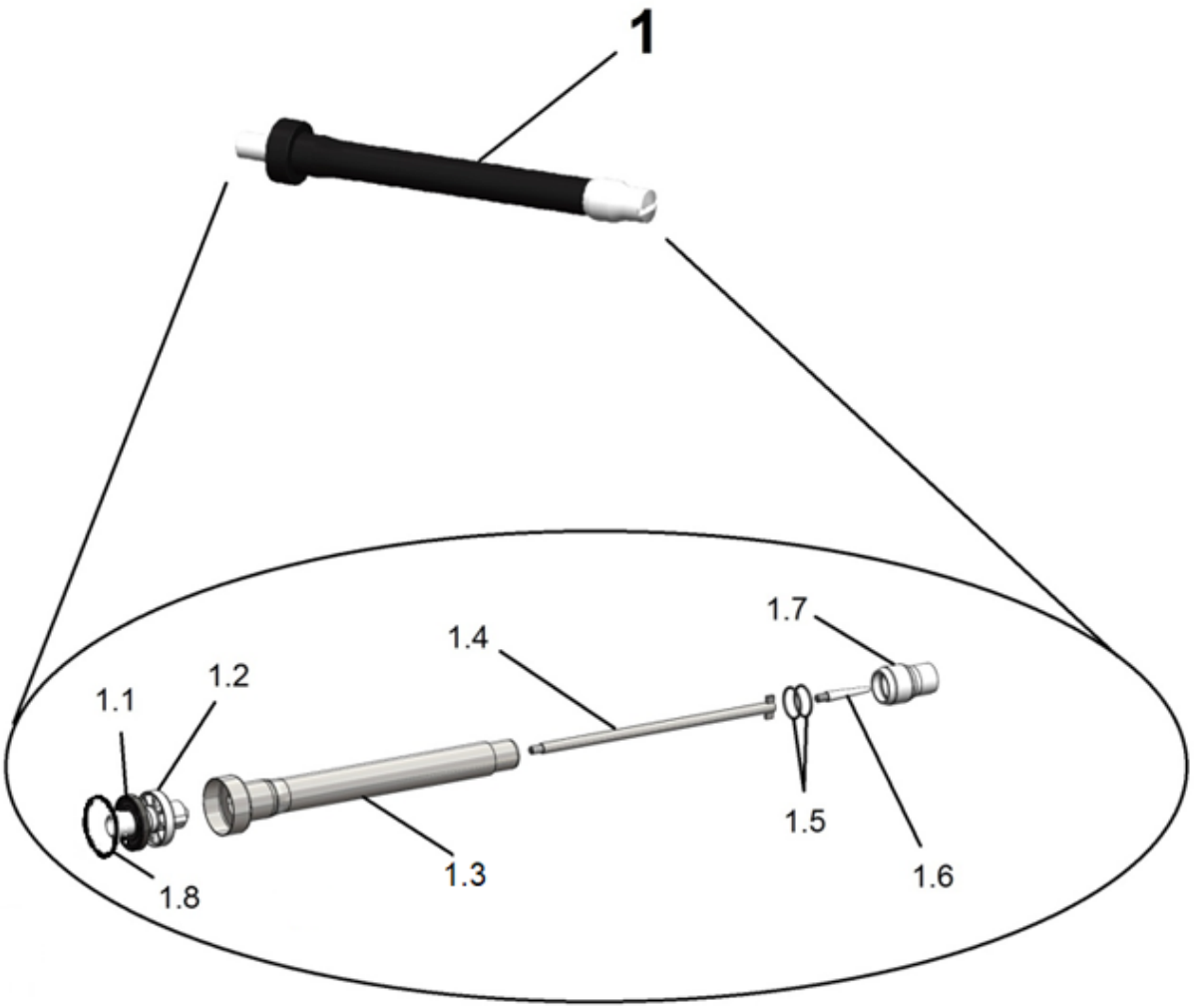
Part #	Order Code	Part Name	Wearing Part
1	B07EXT001	E-GUN 150mm EXTENSION HEAD GROUP (COMPLETE)	N/A
1.1	TRTM08012	E-GUN Ø35 CARBON RING	*
1.2	B07524004	E-GUN ELECTRODE BODY- RESISTANT	*
1.3	B07525003	E-GUN 150mm EXTENSION ELEKTRODE (COMPLETE)	N/A
1.4	B07525001	E-GUN 150mm RESISTANCE SHAFT OF EXTENSION ELECTRODE (COMPLETE)	N/A
1.5	IZOR01007	O-RING 18x1,5 NBR70	N/A
1.6	TRTM01022	E-GUN FLAT HEAD GROUP CONICAL ISOLATOR	*
1.7	TRTM01024	E-GUN EXTENSION/ANGLED ELECTRODE-FLAT HAT	*
1.8	IZOR01026	O-RING Ø30X1,5 NBR70	*

If any extension head assembly is used, the gun is no longer comply with the explosion protection regulation.



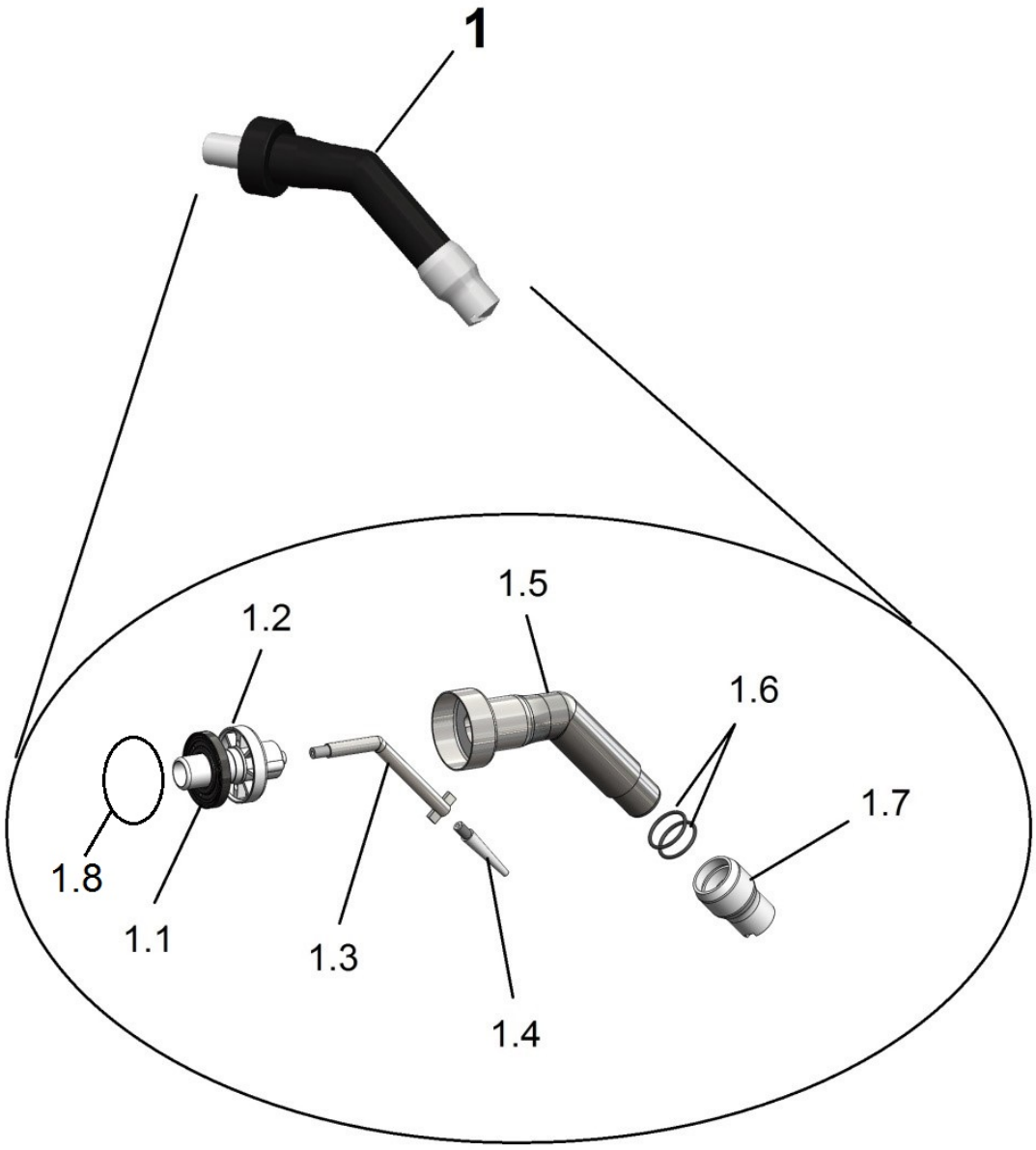
Part #		Order Code	Part Name	Wearing Part
1		B07EXT002	E-GUN 250mm EXTENSION HEAD GROUP (COMPLETE)	N/A
	1.1	TRTM08012	E-GUN Ø35 CARBON RING	*
	1.2	B07524004	E-GUN ELECTRODE BODY - RESISTANT	*
	1.3	B07525006	E-GUN 250mm EXTENSION ELEKTRODE (COMPLETE)	N/A
	1.4	B07525005	E-GUN 250mm RESISTANCE SHAFT OF EXTENSION ELECTRODE (COMPLETE)	N/A
	1.5	IZOR01007	O-RING 18x1,5 NBR70	N/A
	1.6	TRTM01022	E-GUN FLAT HEAD GROUP CONICAL ISOLATOR	*
	1.7	TRTM01024	E-GUN EXTENSION/ANGLED ELECTRODE-FLAT HAT	*
	1.8	IZOR01026	O-RING Ø30X1,5 NBR70	*

If any extension head assembly is used, the gun is no longer comply with the explosion protection regulation.



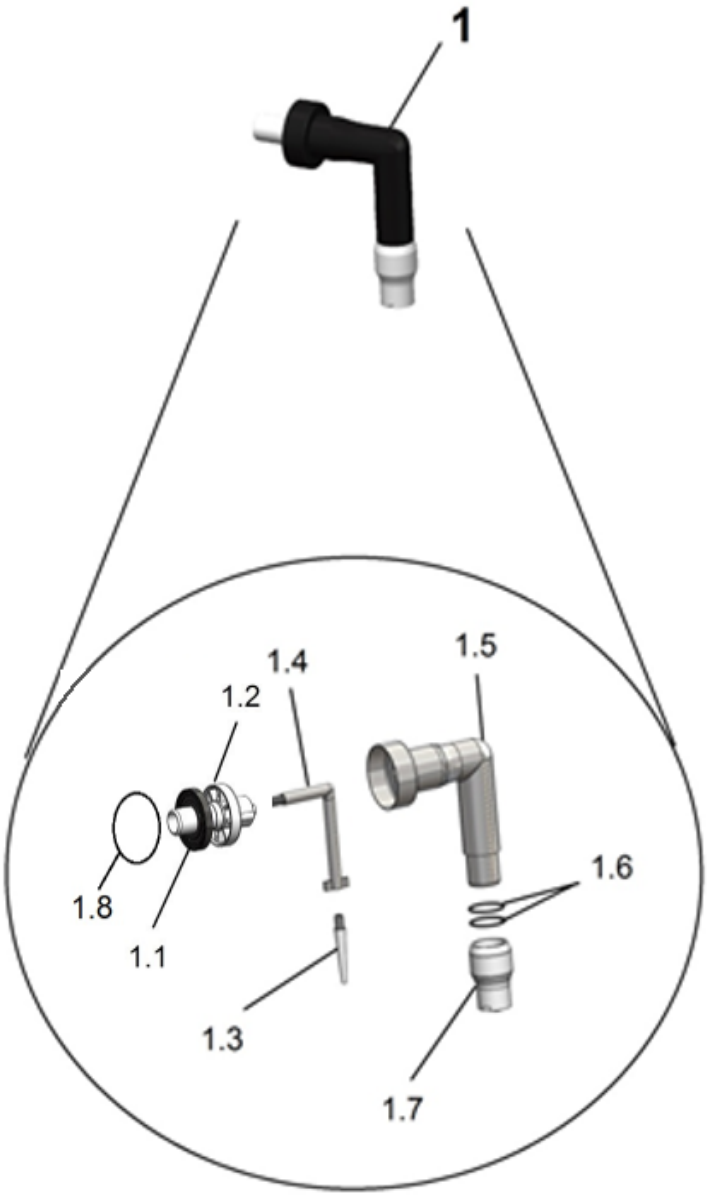
Part #		Order Code	Part Name	Wearing Part
1		B07EXT007	E-GUN 400mm EXTENSION HEAD GROUP (COMPLETE)	N/A
	1.1	TRTM08012	E-GUN Ø35 CARBON RING	*
	1.2	B07524004	E-GUN ELECTRODE BODY - RESISTANT	*
	1.3	B07525011	E-GUN 400mm EXTENSION ELEKTRODE (COMPLETE)	N/A
	1.4	B07525012	E-GUN 400mm RESISTANCE SHAFT OF EXTENSION ELECTRODE (COMPLETE)	N/A
	1.5	IZOR01007	O-RING 18x1,5 NBR70	N/A
	1.6	TRTM01022	E-GUN FLAT HEAD GROUP CONICAL ISOLATOR	*
	1.7	TRTM01024	E-GUN EXTENSION/ANGLED ELECTRODE-FLAT HAT	*
	1.8	IZOR01026	O-RING Ø30X1,5 NBR70	*

If any extension head assembly is used, the gun is no longer comply with the explosion protection regulation.



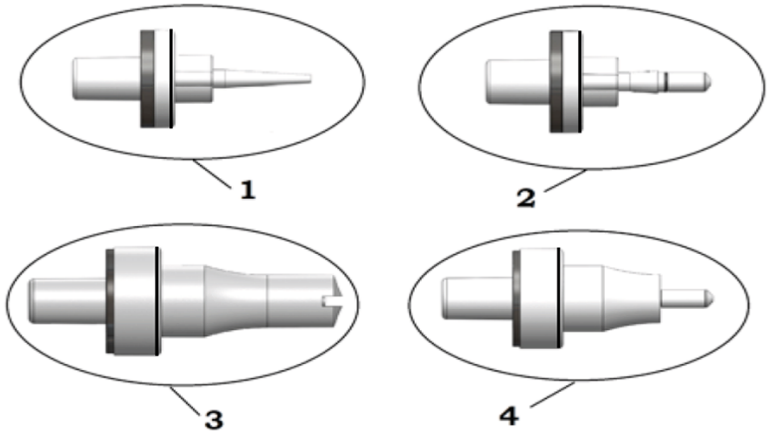
Part #	Order Code	Part Name	Wearing Part
1	B07EXT003	E-GUN 45° ANGLED HEAD GROUP (COMPLETE)	N/A
1.1	TRTM08012	E-GUN Ø35 CARBON RING	*
1.2	B07524004	E-GUN ELECTRODE BODY - RESISTANT	*
1.3	B07525007	E-GUN RESISTANCE SHAFT OF 45° ANGLED HEAD GROUP	N/A
1.4	TRTM01022	E-GUN FLAT type HEAD GROUP CONICAL ISOLATOR	*
1.5	B07525008	E-GUN ANGLED ELECTRODE OF 45° ANGLED HEAD GROUP	N/A
1.6	IZOR01007	O-RING 18x1,5 NBR70	N/A
1.7	TRTM01024	E-GUN EXTENSION/ANGLED ELECTRODE - FLAT HAT	*
1.8	IZOR01026	O-RING Ø30X1,5 NBR70	*

If any extension head assembly is used, the gun is no longer comply with the explosion protection regulation.

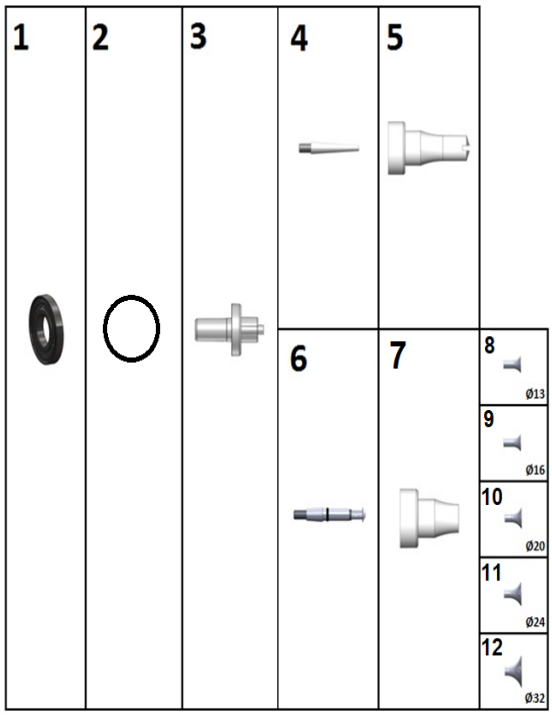


Part #	Order Code	Part Name	Wearing Part
1	B07EXT004	E-GUN 90° ANGLED HEAD GROUP (COMPLETE)	N/A
1.1	TRTM08012	E-GUN Ø35 CARBON RING	*
1.2	B07524004	E-GUN ELECTRODE BODY - RESISTANT	*
1.3	TRTM01022	E-GUN FLAT type HEAD GROUP CONICAL ISOLATOR	*
1.4	B07525010	E-GUN RESISTANCE SHAFT OF 90° ANGLED HEAD GROUP	N/A
1.5	B07525009	E-GUN ANGLED ELECTRODE OF 90° ANGLED HEAD GROUP	N/A
1.6	IZOR01007	O-RING 18x1,5 NBR70	N/A
1.7	TRTM01024	E-GUN EXTENSION/ANGLED ELECTRODE - FLAT HAT	*
1.8	IZOR01026	O-RING Ø30X1,5 NBR70	*

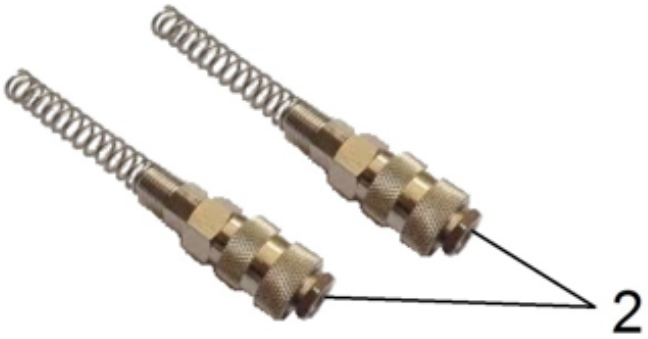
If any extension head assembly is used, the gun is no longer comply with the explosion protection regulation.



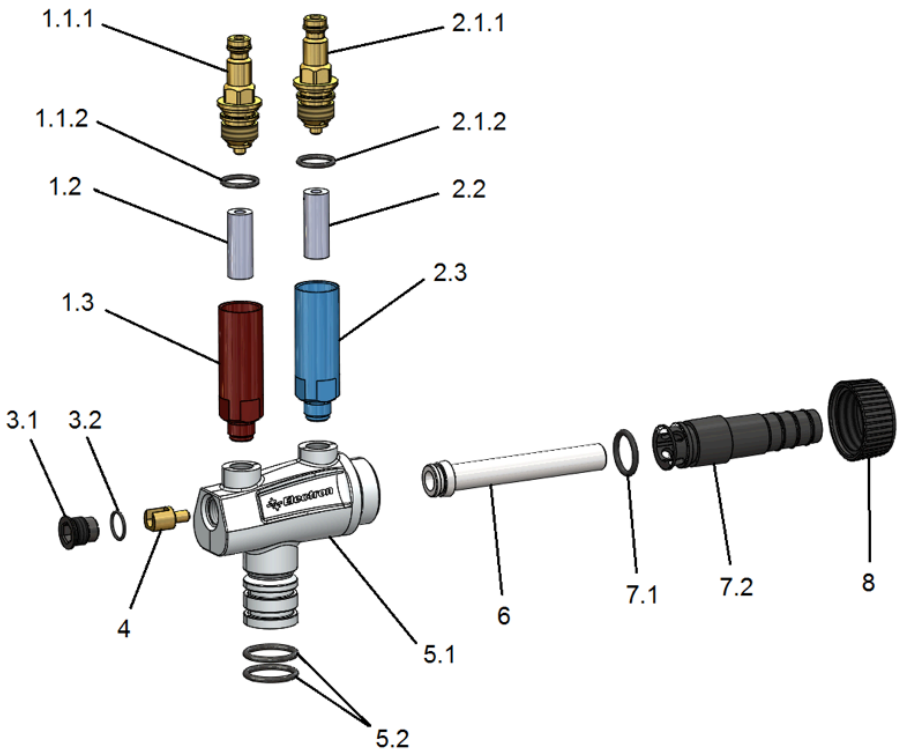
Part #	Order Code	Part Name	Wearing Part
1	B07524000	E-GUN FLAT TYPE ELECTRODE GROUP (COMPLETE)	N/A
2	B07523000	E-GUN ELECTRODE GROUP W/ DEFLECTOR	N/A
3	B07524001	E-GUN FLAT HEAD GROUP	N/A
4	B07523001	E-GUN HEAD GROUP W/ DEFLECTOR	N/A



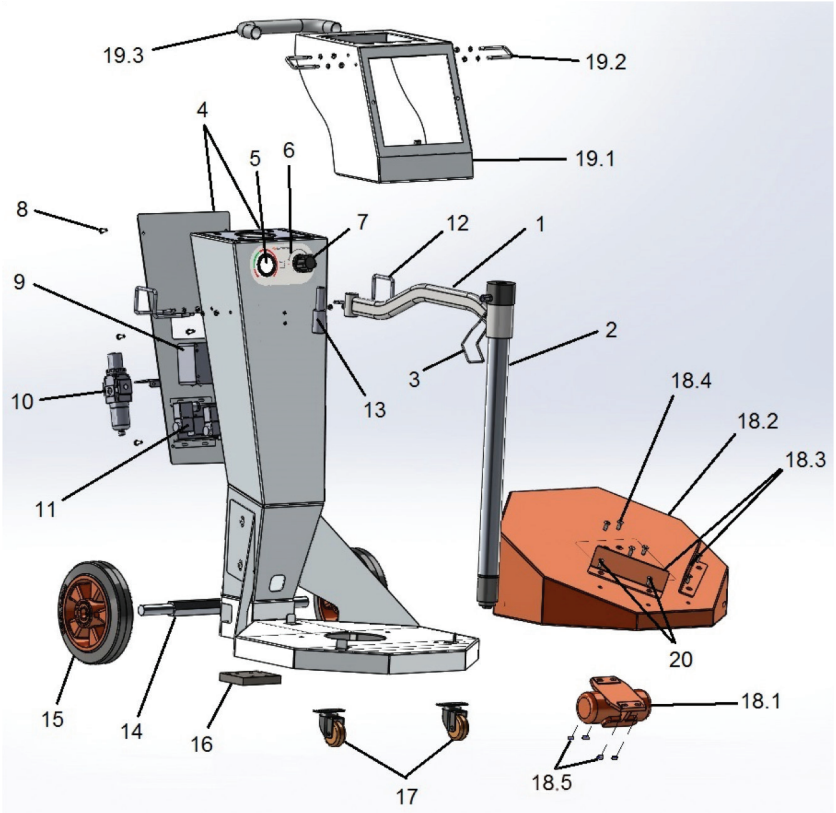
Part #	Order Code	Part Name	Wearing Part
1	TRTM08012	E-GUN Ø35 CARBON RING	*
2	IZOR01026	O-RING Ø30X1,5 NBR70	*
3	B07524004	E-GUN ELECTRODE BODY - RESİSTANT	*
4	TRTM01022	E-GUN CONICAL ISOLATOR OF FLAT HEAD GROUP	*
5	TRTM01023	E-GUN FLAT HAT	*
6	B07524502	E-GUN HEADGROUP SHAFT SET W/ DEFLECTOR	*
7	TRTM01021	E-GUN DEFLECTOR HAT	*
8	TRTM03013	E-GUN Ø13 DEFLECTOR	*
9	ENEM01044	E-GUN Ø16 DEFLECTOR	*
10	ENEM01045	E-GUN Ø20 DEFLECTOR	*
11	ENEM01046	E-GUN Ø24 DEFLECTOR	*
12	ENEM01067	E-GUN Ø32 DEFLECTOR	*



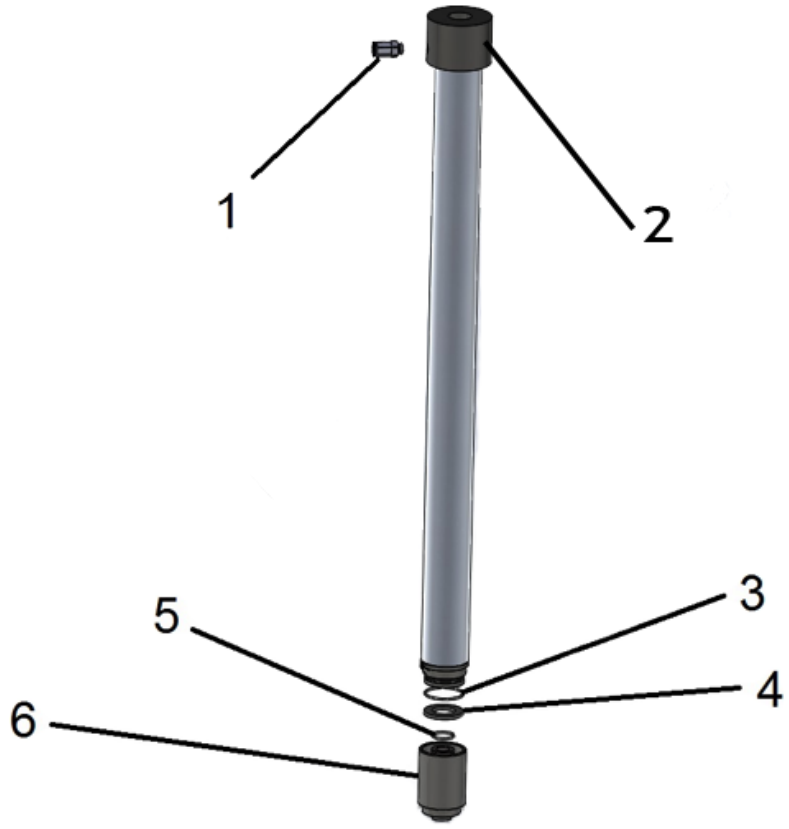
Part #	Order Code	Part Name
1	B07FEEDV2	E-FEED V2 INJECTOR
2	PNBE01005	KAPLIN QUICK 6X8 mm BODY W/ SPRING QUICK (016-OS5) *** Sold as 1 piece.



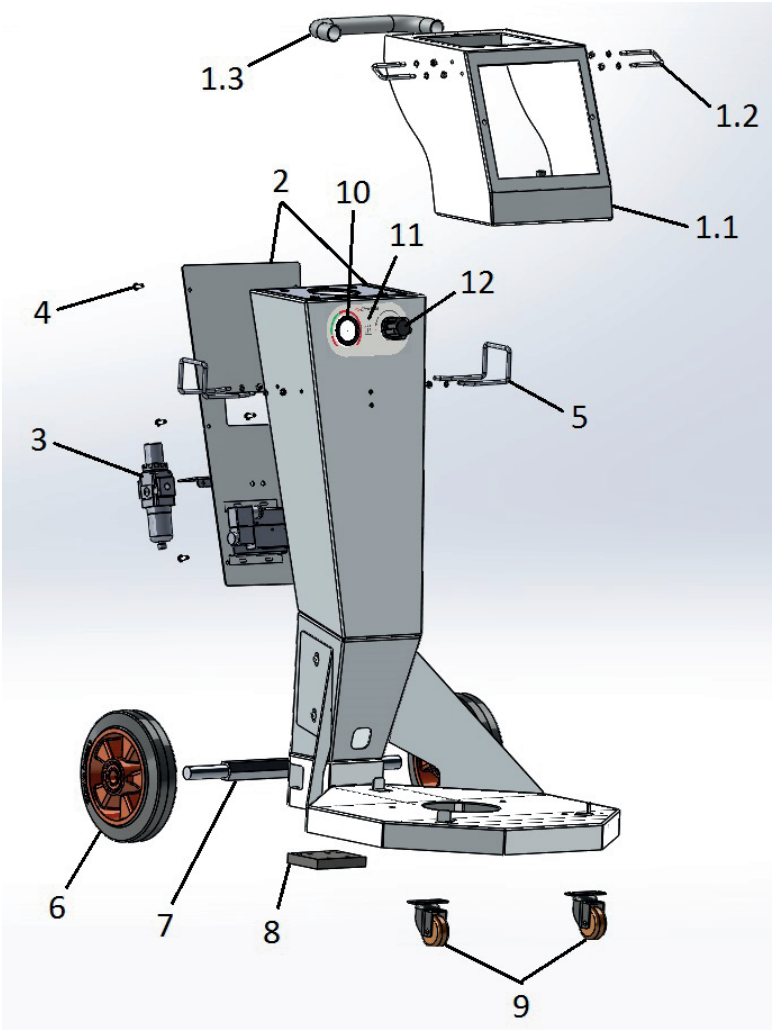
Part	Order Code	Part Name	Wearing Part
1	B07ENJ001	E-FEED V2 MAIN AIR INTAKE OF FILTER GROUP	N/A
1.1	B07ENJ003	E-FEED V2 FEMALE QUICK CONNECTION ADAPTER W/ O-RING	N/A
1.1.1	TRTM05012	E-FEED V2 FEMALE QUICK CONNECTION ADAPTER	N/A
1.1.2	IZOR01017	O-RING Ø9,5X1,5 NBR	N/A
1.2	FRFL08002	E-FEED V2 INJECTOR FILTER	*
1.3	B07540007	1/8" INJECTOR FILTER HOUSING (RED)	N/A
2	B07ENJ002	E-FEED V2 SUPPLEMENTARY AIR INTAKE OF FILTER GROUP	N/A
2.1	B07ENJ003	E-FEED V2 FEMALE QUICK CONNECTION ADAPTER W/ O-RING	N/A
2.1.1	TRTM05012	E-FEED V2 FEMALE QUICK CONNECTION ADAPTER	N/A
2.1.2	IZOR01017	O-RING Ø9,5X1,5 NBR	N/A
2.2	FRFL08002	E-FEED V2 INJECTOR FILTER	*
2.3	B07540006	1/8" INJECTOR FILTER HOUSING (BLUE)	N/A
3	B07ENJ004	E-FEED V2 REAR PLUG OF INJECTOR W/ O-RING	N/A
3.1	B10540003	E-FEED V2 REAR PLUG OF INJECTOR	N/A
3.2	IZOR01002	O-RING Ø9X1 NBR70	N/A
4	TRTM05011	E-FEED V2 INJECTOR NOZZLE	*
5	B07ENJ005	E-FEED V2 INJECTOR BODY W/ O-RING	N/A
5.1	ENEM03002	E-FEED V2 INJECTOR MAIN BODY	N/A
5.2	IZOR01006	ORING Ø16X2 NBR70	*
6	B07540000	E-FEED V2 TEFLON BUSHING W/ O-RING	*
7	B07ENJ006	E-FEED V2 INJECTOR HOSE CONNECTION FITTING W/ O-RING	*
7.1	IZOR01051	O-RING Ø13X2 NBR70	N/A
7.2	B10540004	E-FEED V2 INJECTOR HOSE CONNECTION ADAPTER	N/A
8	B10540005	E-FEED V2 INJECTOR NUT	N/A



Part #	Order Code	Part Name	Wearing Part
1	B07ECM001	E-COAT MULTICOLOR ANGLED ARM (METAL PART)	N/A
2	B07ECM003	E-COAT MULTICOLOR SUCTION PIPE (METAL PART)	N/A
3	AKUA04004	E-COAT MULTICOLOR HOLDING STRING OF SUCTION PIPE (AISI 304)	N/A
4	B07560002	E-COAT DEVICE CAR METAL PARTS	N/A
5	PNPE07002	MANOMETER Ø40 2,5 BAR PNEUMATIC	N/A
6	ETKT03029	E-COAT DEVICE CAR FLUIDIZATION AIR LEXAN	N/A
7	PNPE01002	REGULATOR 0-3,5 BAR	N/A
8	BECV01011	SCREW M5X10 YSB	N/A
9	B07EMC001	E-MULTICOLOR RELAY BOX	N/A
10	PNPE02001	REGULATOR 1/4"- W/ SQUARE MANOMETER FR	N/A
11	PNPE04001	VALVE 3/2 - ¼" N.C. Ex II 3D W/ COIL AIRON	N/A
12	AKUA04001	E-COAT HOSE HOLDING STRING OF DEVICE CAR (AISI 304)	N/A
13	TRTH08077	URGENT ARM CONNECTION ADAPTER HANGER Ø30 - L34	N/A
14	TRTM04048	WHEEL CONNECTION SHAFT	N/A
15	AKUA08005	WHEEL 200X50 (WHEEL BELLY COLOR:RAL2012)	N/A
16	TRTM04049	WHEEL CONNECTION PLATE	N/A
17	AKUA08006	WHEEL 50X20 BLACK W/ TWO SCREW & MAŞALI	N/A
18	B07EC0018	E-COAT MULTICOLOR ANGLED BASE (COMPLETE)	N/A
18.1	MPMT03001	MOTOR VIBRATION 220V/0,04KW VBM - 2M	N/A
18.2	B07ECM002	E-COAT MULTICOLOR ANGLED BASE (METAL PART)	N/A
18.3	KBKE01043	E-COAT MULTİCOLOR HOPPER LIMITATION PLATE	N/A
18.4	BECV02009	BOLT M6X30 YHB	N/A
18.5	BESM02003	NUT M6 FIBER TIGHT	N/A
19	B07ECT006	E-COAT DEVICE CAR CONNECTION HEAD (COMPLETE)	N/A
19.1	B07560001	E-COAT DEVICE CAR CONNECTION HEAD	N/A
19.2	AKUA04002	E-COAT DEVICE CAR CONNECTION HEAD SLING (AISI 304)	N/A
19.3	AKUA02001	DEVICE CAR MESAN LOCK W/ PULL HANDLE 087-195 (L:195MM)	N/A
20	BECV02007	BOLT M5X15 YHB	N/A

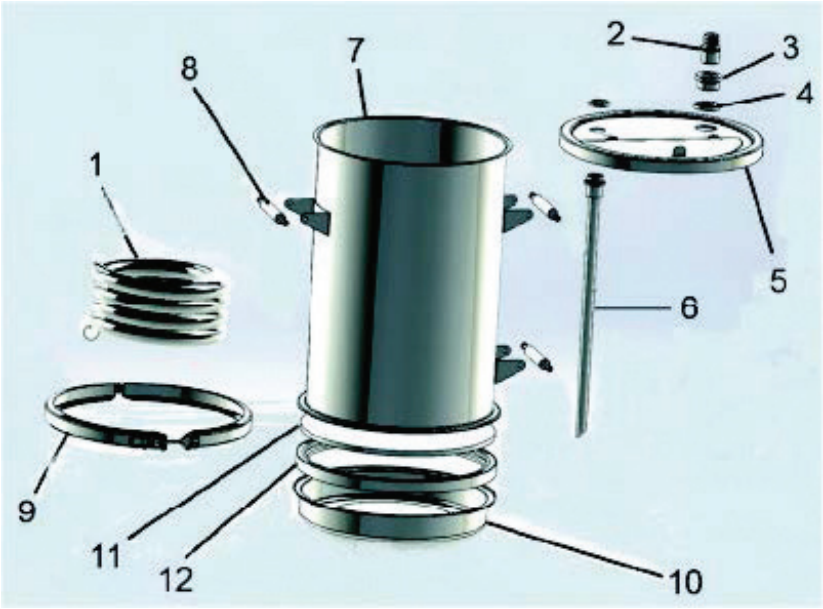


Part #	Order Code	Part Name	Wearing Part
1	PNRD01010	FITTING 1/8" - Ø6 PNEUMATIC MALE STRAIGHT ORANGE METALWORK	N/A
2	TRTM03022	SUCTION ADAPTER TOP PART Ø55 L55	N/A
3	IZOR01027	ORING Ø30X2 NBR70	N/A
4	FRFL08007	E-COAT MULTICOLOR SUCTION PIPE SINTRE FILTER	*
5	IZOR01006	16-2 INJECTOR O-RING NBR70	N/A
6	TRTM03023	BOTTOM NUT OF SUCTION ADAPTER	N/A



Part #	Order Code	Part Name	Wearing Part
1	B07ECT006	E-COAT DEVICE CAR CONNECTION HEAD (COMPLETE)	N/A
1.1	B07560001	E-COAT DEVICE CAR CONNECTION HEAD	N/A
1.2	AKUA04002	E-COAT DEVICE CAR GUN SPLING (AISI 304)	N/A
1.3	AKUA02001	E-COAT DEVICE CAR MESAN LOCK W/PULL HANDLE 087-195 (L:195MM)	N/A
2	B07560002	E-COAT DEVICE CAR METAL PARTS	N/A
3	PNPE02001	REGULATOR 1/4" -W/ SQUARE MANOMETER FR	N/A
4	BECV01011	BOLT M5X10 YSB	N/A
5	AKUA04001	E-COAT DEVICE CAR HOSE HOLDING STRING (AISI 304)	N/A
6	AKUA08005	WHEEL 200X50 (WHEEL BELLY COLOR:RAL2012)	N/A
7	TRTM04048	WHEEL CONNECTION SHAFT	N/A
8	TRTM04049	WHEEL CONNECTION PLATE	N/A
9	AKUA08006	WHEEL 50X20 BLACK W/ TWO SCREW & MAŞALI	N/A
10	PNPE07002	MANOMETER Ø40 2.5 BAR PNEUMATIC	N/A
11	ETKT03029	DEVICE CAR FLUIDIZATION LEXAN	N/A
12	PNPE01002	REGULATOR 0-3,5 BAR	N/A

Order Code	Part Name	Wearing Part
A05EH0050	E-HOPP50 50 LT CHROMIUM POWDER COATING HOPPER	N/A



Part #	Order Code	Part Name	Wearing Part
1	B07EH50903	E-HOPP50 LARYNGEAL HOSE	N/A
2	TRTM04053	E-HOPP50 EXHAUST HOSE INPUT JACK AA36 L54	N/A
3	TRTM04043	LATHE HOSE INPUT JACK CONNECTION NUT Ø50 L25	N/A
4	TRTM04042	LATHE HOSE INPUT JACK CONNECTION NUT Ø50 L8	N/A
5	B07EH50911	E-HOPP50 HOPPER COVER	N/A
6	B07KEYT001	E-HOPP50 50LT CHROMIUM HOPPER SUCTION PIPE SET	N/A
7	B06CE02001	E-HOPP50 HOPPER MAIN BODY	N/A
8	TRTM04041	HOPPER HOLDING ARM Ø20 L110	N/A
9	B07EH50901	E-HOPP50 BOTTOM COVER LOCK	N/A
10	SCSC05003	E-HOPP50 HOPPER BOTTOM PLASTERING	N/A
11	FRFL07003	E-HOPP50 FLUIDIZATION FLOOR Ø375	*
12	IZCS02001	E-HOPP50 FLUIDIZATION FLOOR GASKET	N/A

7-Service and Maintenance Table

DATE	MAINT.TYPE -Weekly -Yearly -Service	MAINT. OR SERVICE PERSONNEL	PROCEDURE CHANGED PARTS NOTES	CONTROL SUPERVISOR

8-Product Life and Warranty

1. Product Life

- The economic life of the gun is approximately 10 years.
- This product life is highly dependent on the periodic maintenances and spare part changes in a timely manner. Improper maintenance will lead to lower product life.
- SİSTEM TEKNİK A.Ş. warrants supplying the needed service and the spare parts for the entire product life.

2. Warranty and Warranty Conditions

- The gun is warranted for production and parts failure for 2 (two) years.
- Spare parts that are changed from the warranty are free-of-charge.
- The parts that are supplied in the system which are not produced by SİSTEM TEKNİK A.Ş. are warranted with their own manufacturers and their own conditions.
- SİSTEM TEKNİK A.Ş. will not be held responsible for the improper usage of the machine or any unauthorized usage. These are not in the warranty.

3. Operating Conditions

- Read the user manual before using the gun.
- Only legally allowed people can operate the gun.
- Only trained and authorized people can operate the gun.
- SİSTEM TEKNİK A.Ş.'s suggested spare parts should be used at all times.
- Proper maintenance has to be done and the spare parts has to be changed in a timely manner
- The operational safety has to be assured by the customer; the operators who are not capable of working under safety rules shouldn't be operating the Control Unit
- All the suggestions and warnings in this manual have to be carefully considered and applied.

4. Operating Conditions

- Coating device SYSTEM TEKNIK A.Ş. designed by; is produced in accordance with the required safety and quality standards.
- Installation of Coating Device SYSTEM TEKNİK A.Ş. personnel, necessary tests and controls have been made operational.
- Sistem Teknik A.Ş. if deemed necessary; can make changes to achieve better results.
- User's manual has been prepared by; The information and projects contained there in may not be reproduced, in whole or in part, and may not be given to third parties or companies other than the authority of the company where the facility is established.

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