

Micron[®]

CREATIVE

B 300 - B 400



B 300



B 400

USER AND MAINTENANCE MANUEL

Micron[®]
CREATIVE



(1) **EU-Type Examination Certificate**
(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**

Directive 2014/34/EU

- (3) EU – Type Examination Certificate Number: **IEP 18 ATEX 0595**
- (4) Product: **Hand-held gun electropneumatic control panel of the equipment line for electrostatic powder MICRONCREATIVE B 300, B 400 and B 500 series**
- (5) Firm Name: **ELARS Elektronik Makina San. Tic. Ltd. Şti.**
- (6) Firm Address: **Çırcır Mah. Betül Sok. No: 46/A Eyüp – İSTANBUL, TURKEY**
- (7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-1273 date 18.05.2018.
- (9) Compliance with Essential Health and safety requirements has been assured by compliance with ;
EN 50050-2 : 2013 , EN 50177:2012
- (10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include the following:



II 3(2) D 85 °C , IP 54

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body

Date of Issue : 23.05.2018



..... And serial number of the device.

(1) **EU-Type Examination Certificate**
(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 18 ATEX 0594**

(4) Product: **Hand-held gun of the equipment line for electrostatic powder coating,
MICRONCREATIVE MG 300 and AG 300 series**

(5) Firm Name: **ELARS Elektronik Makina San. Tic. Ltd. Şti.**

(6) Firm Address: **Çırçır Mah. Betül Sok. No: 46/A Eyüp – İSTANBUL, TURKEY**

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

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-1272 date 18.05.2018.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN 50050-2:2013, EN 1127-1:2011

(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

 **II 2D Ex 2 mJ**

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

Date of Issue : 23.05.2018



..... Serial number belongs to a gun.

CONTENTS

| | |
|---|---------|
| CONTENTS | 1 |
| INTRODUCTION | 2 |
| B 300 ENTRIES | 3 |
| SPECIFICATIONS | 4 |
| POINTS TO CONSIDER FOR USE | 5 |
| WORKING PRINCIPLE | 6 |
| INSTALLATION SCHEME | 7 |
| STARTING OF DEVICE | 8 |
| DEVICE APPEARANCE | 9 |
| NOTES | 10 |
| B 400 ENTRIES | 11 |
| SPECIFICATIONS | 12 |
| POINTS TO CONSIDER FOR USE | 13 |
| WORKING PRINCIPLE | 14 |
| INSTALLATION SCHEME | 15 |
| STARTING OF DEVICE | 16 |
| DEVICE APPEARANCE | 17 |
| USE OF CONTROL PANEL | 18 - 19 |
| NOTES | 20 |
| MG 300 MANUAL POWDER SPRAY GUN | 21 |
| RN 300 DEFLECTOR NOZZLE SET | 22 |
| AG 300 AUTOMATIC POWDER SPRAY GUN | 23 |
| FN 300 FLAT NOZZLE SET | 24 |
| PI 3 POWDER COATING INJECTOR | 25 |
| 50 LT. POWDER COAT TANK | 26 |
| TROUBLES | 27 |
| WARRANTY CERTIFICATE | 28 |

INTRODUCTION

Dear Customer;

Micron B 300 - B 400 Electrostatic Powder Coating Device is produced with advanced technology and offered for your use after a detailed quality control.

Please read this manual carefully and keep it as a reference for convenient and correct use of the device.

Our Authorized Sales Dealer is responsible for quickly responding to problems that may arise and ensuring the continuity of your system.

Thank you for choosing our company and our brand, we wish you success with your business.

Best Regards,

Micron[®]

CREATIVE

B 300



MANUEL SYSTEM
POWDER COATING EQUIPMENT



SPECIFICATIONS

Micron B 300 Electrostatic Powder Coating Device offers easy maintenance and operation with its economical design.

- Lightweight and ergonomic manual powder spray gun for easy application.
- Integrated high-voltage cascade of 100 kV.
- Use of good quality and correct materials.
- With its high technology, maximum transfer and 85% powder coating yield.

Micron B300 TECHNICAL DATA

| Electrical Data | |
|---|---------------------------------------|
| Nominal input voltage/relative load | 220 VAC / 40 VA |
| Frequency | 50 - 60 Hz |
| Nominal output voltage (to the gun) | maks. 14 V eff. |
| Nominal output current (to the gun) | maks. 1 A eff. |
| Protection class | IP 54 |
| Temperature range | 0 °C to + 40 °C +32 °F to + 104 °F |
| Pneumatic Data | |
| Compressed air connection (in control module) | Angled dia. 8 mm |
| Max. input pressure | 10 bar / 145 psi |
| Min. input pressure (dynamic) | 6 bar / 87 psi |
| Max. water vapour content of air pressure | 1,3 g/ Nm ³ |
| Max. oil vapour content of air pressure | 0,1 mg/ Nm ³ |
| Storage Type Packed Dimensions and Weight | |
| Length | 500 mm |
| Width | 640 mm |
| Height | 900 mm |
| Weight | 40 Kg |

Manual System



Manual Powder Spray Gun: MG 300

Manual gun must have a perfect balance to choose an easy application. MG 300 weighs only 520 gr. With its integrated high voltage cascade of 100 kV, it provides a high transfer yield and optimum and continuous results in application.

| | |
|------------------------|---------------------------|
| Nominal input voltage | : 14 Veff |
| Frequency | : approximately 18 kHz |
| Nominal output voltage | : 100 kV |
| Max. output current | : 100 µA |
| Polarity | : negative (positive-ops) |
| Coat flow | : 50 - 600 gr/min. |

Automatic System

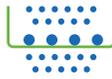


Automatic Powder Spray Gun: AG 300

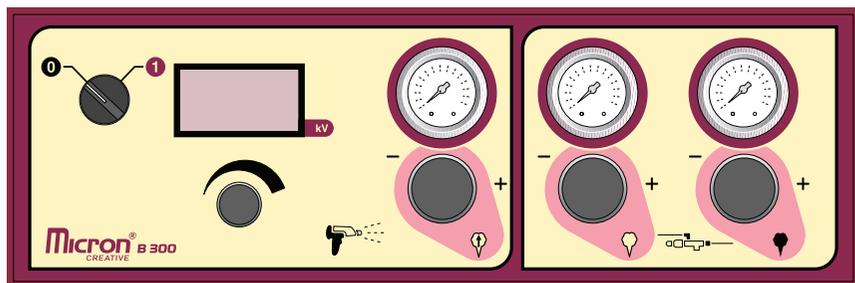
AG 300 spray guns designed for serial production can be used as fixed or by mounting on a robot. Coat flows, air speeds and loading voltages are controlled via the main control box.

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| Coat flow | : 50 - 600 gr/min. |

POINTS TO CONSIDER FOR USE

| | |
|---|--|
| <ul style="list-style-type: none"> • Full conductive and semi-conductive materials five (5) meters close to the device and area of application must be grounded. | <p>5 m </p> |
| <ul style="list-style-type: none"> • The user should hold the spray gun with bare hands and only from the handle. |  <p>false true</p> |
| <ul style="list-style-type: none"> • Power supply of the device must be supplied from a grounded socket. |  |
| <ul style="list-style-type: none"> • The main intake air should be oil-free and moisture-free. |  |
| <ul style="list-style-type: none"> • Coat in the tank must be clean and free of moisture. |  |
| <ul style="list-style-type: none"> • For reuse, paints with sub-cyclone and cabin turn should be first sieved and then used. |  |
| <ul style="list-style-type: none"> • The injector and spray gun should be cleaned for every two-hour use, and spray hose and tank at the end of each shift. |  |
| <ul style="list-style-type: none"> • Materials, such as thinner, gasoline and water, should not be used for points where the powder coating touches. |  |
| <ul style="list-style-type: none"> • No intervention should be made into the power box or in parts other than those that need to be cleaned on the spray gun. |  |
| <ul style="list-style-type: none"> • The spray gun hose should not be stepped over and should not be pulled more than adequate. |  |
| <ul style="list-style-type: none"> • It should be ensured that the device power is stable at 220 V (+ - 7.5 V). |  <p>220 V</p> |
| <ul style="list-style-type: none"> • The device must be grounded. |  |

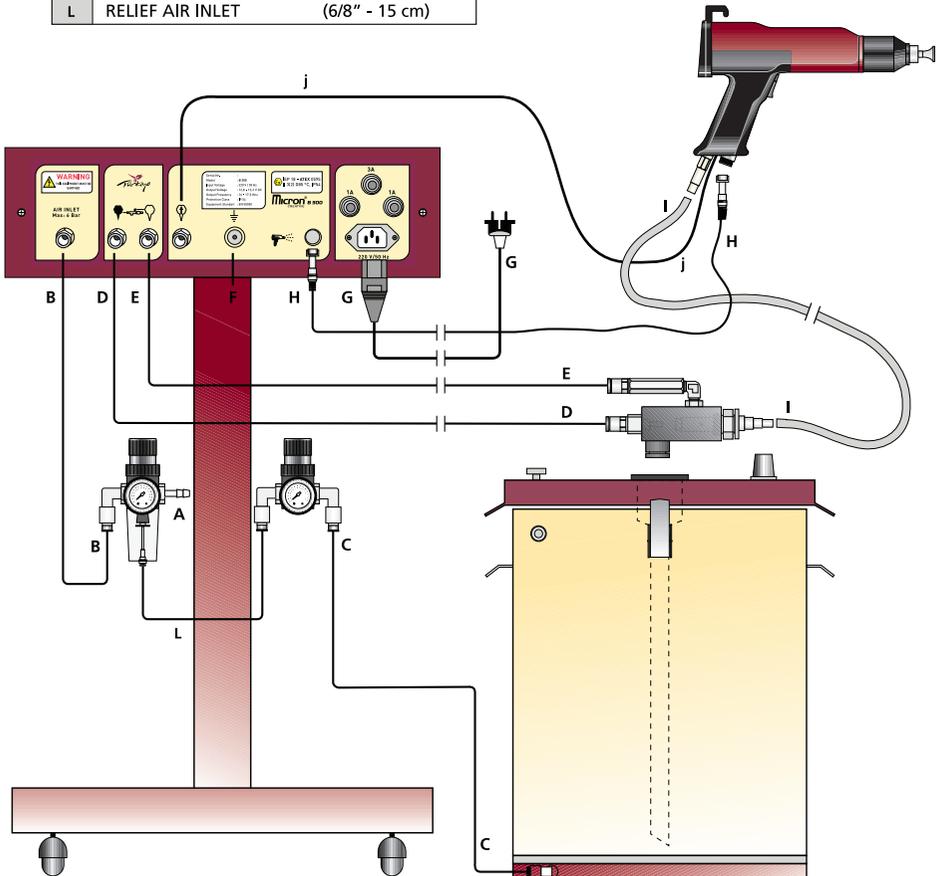
WORKING PRINCIPLE



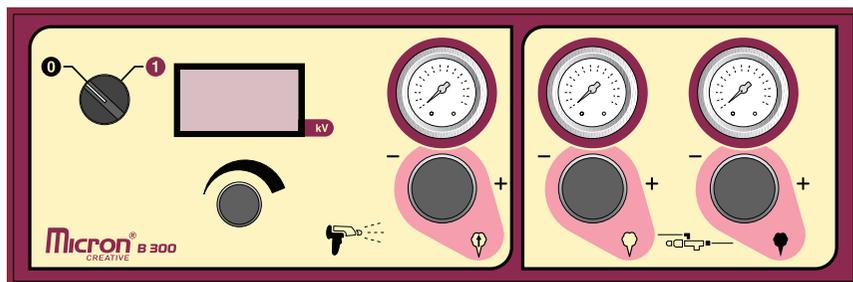
- Coat placed in the device tank is mixed with the aid of the relieving air regulator C.
- The injector on the tank carries the coat it sucks  from the tank upon opening of the coat flow to the spray gun.
- The auxiliary air allows  the user to control the coat-air ratio.
- Electricity of 13.5 V DC applied to the spray gun raises static voltage up to 100 KV (negative) with the voltage doubling cascade in the spray gun.
- This voltage is applied to electrode, thus to the coat coming out of electrode.
- The coat coming out of the spray gun electrode as loaded is sprayed homogeneously on the material neutralized by ground line.
- The main supply voltage of the device is 220 V, 50 Hz, AC and the entire system is short-circuit protected.
- Inserting the grounding cable into the back of the device and applying the grounding line to this point ensures that the electronic circuit in the spray gun and the user is not damaged from the high static voltage coming out of the spray gun.
- Voltage settings allow the user to precisely adjust by material coated and type of coat used by the user.

INSTALLATION SCHEME

| | |
|---|-------------------------------------|
| A | COMPRESSOR AIR INLET (8 bar) |
| B | DEVICE MAIN AIR INLET (6/8" - 1.m) |
| C | RELIEF AIR OUTLET (4/6" - 1.m) |
| D | COAT FLOW AIR OUTLET (6/8" - 1.m) |
| E | AUXILIARY AIR OUTLET (6/8" - 1.m) |
| F | GROUNDING CONNECTION (Ø 2.5 - 2.cm) |
| G | POWER INLET (220 V 50 Hz - 3 m) |
| H | SPRAY GUN CABLE (3X050 - 5.m) |
| I | POWDER COAT HOSE (10/15" - 5.m) |
| J | VORTEX AIR (2/4" - 5,5 m) |
| L | RELIEF AIR INLET (6/8" - 15 cm) |



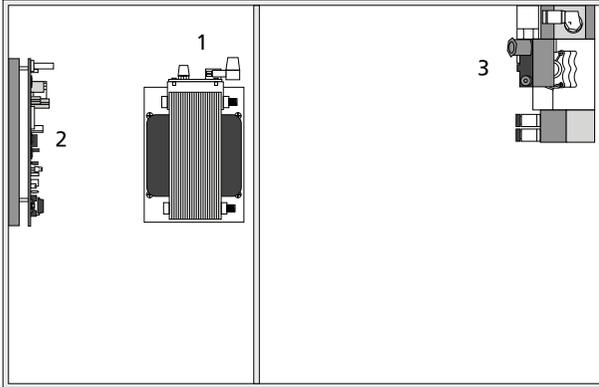
STARTING OF DEVICE



- Make air hose and electrical cable connections as shown in the installation scheme.
- Connect the air hose from the compressor (A) to the inlet of the filter regulator.
- Turn the power switch on the device to 1 and power it on. The device is ready for use as electrical and air connections are made.
- Set the coat flow regulator to 1.5 bar, the auxiliary air regulator to 0.5 bar, the vortex air regulator to 0.5 bar while the spray gun trigger
- Put a maximum of 20 kg powder coating into the tank when air and static electricity is obtained without problem. Set the relief air (C) on the consul so that coat takes the form of boiling.
- The system is ready for use.

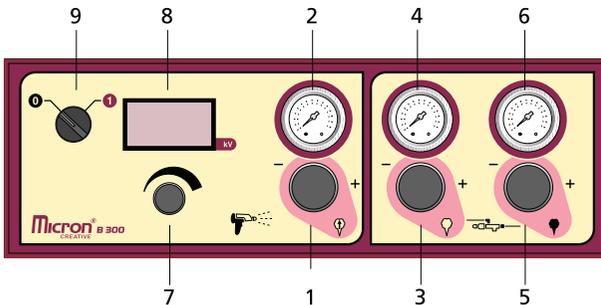
VIEW OF EQUIPMENT

Upper



- 1 - Transformer
- 2 - Main Board
- 3 - Valve

Front



- 1 - Coats Flow Regulator
- 2 - Coats Flow Display
- 3 - Auxiliary Air Regulator
- 4 - Auxiliary Air Display
- 5 - Vortex Air Regulator
- 6 - Vortex Air Display
- 7 - Voltage Adjustment
- 8 - Voltage Indicator
- 9 - Electric Button

Rear

- 1 - Power Inlet 220 V.
- 2 - 1 A Fuse 220 V.
- 3 - 3 A Fuse 13.5 V.
- 4 - Grounding
- 5 - Spray Gun Socket
- 6 - Vortex Air
- 7 - Auxiliary Air Outlet
- 8 - Coats Flow Outlet
- 9 - Main Airflow Inlet

Micron[®]

CREATIVE

B 400



**NEW GENERATION
DIGITAL CONTROLLED
POWDER COATING MACHINE**



SPECIFICATIONS

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Automatic System

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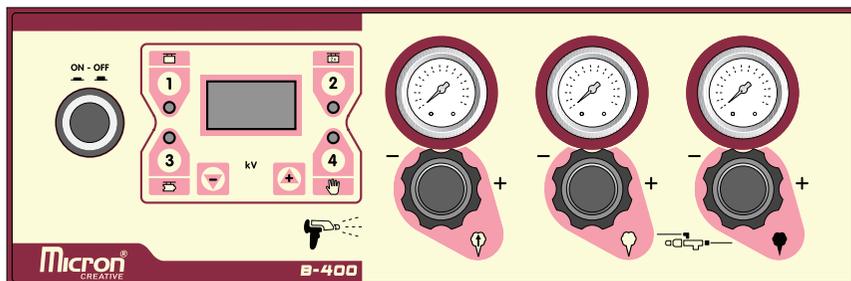
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- No intervention should be made into the power box or in parts other than those that need to be cleaned on the spray gun.
- The spray gun hose should not be stepped over and should not be pulled more than adequate.
- It should be ensured that the device power is stable at 220 V (+ - 7.5 V).
- The device must be grounded.

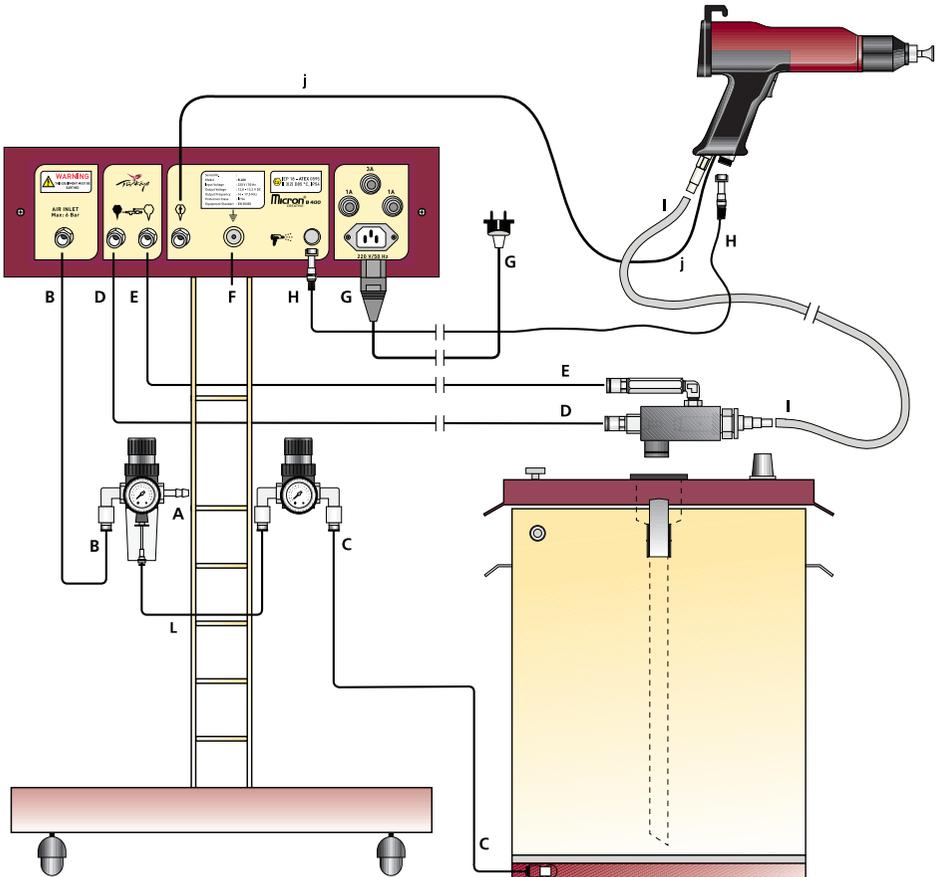
WORKING PRINCIPLE



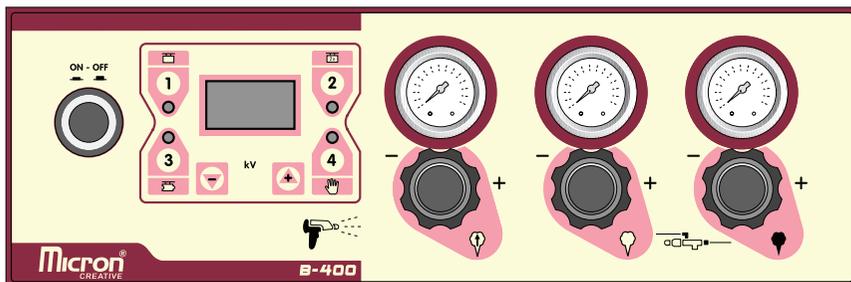
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INSTALLATION SCHEME

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| E | AUXILIARY AIR OUTLET (6/8" - 1.m) |
| F | GROUNDING CONNECTION (Ø 2.5 - 2.cm) |
| G | POWER INLET (220 V 50 Hz - 3 m) |
| H | SPRAY GUN CABLE (3X050 - 5.m) |
| I | POWDER COAT HOSE (10/15" - 5.m) |
| J | VORTEX AIR (2/4" - 5,5 m) |
| L | RELIEF AIR INLET (6/8" - 15 cm) |



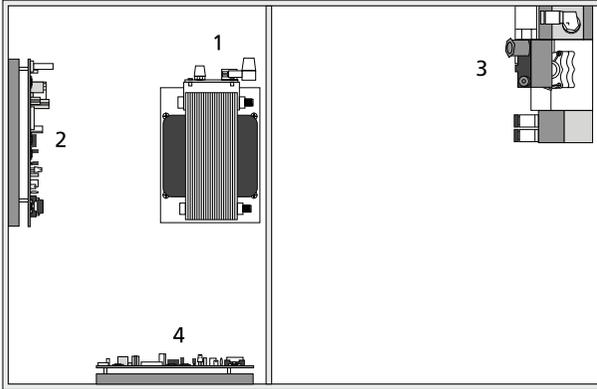
STARTING OF DEVICE



- Make air hose and electrical cable connections as shown in the installation scheme.
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- Turn the power switch on the device to 1 and power it on. The device is ready for use as electrical and air connections are made.
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- Put a maximum of 20 kg powder coating into the tank when air and static electricity is obtained without problem. Set the relief air (C) on the consul so that coat takes the form of boiling.
- The system is ready for use.

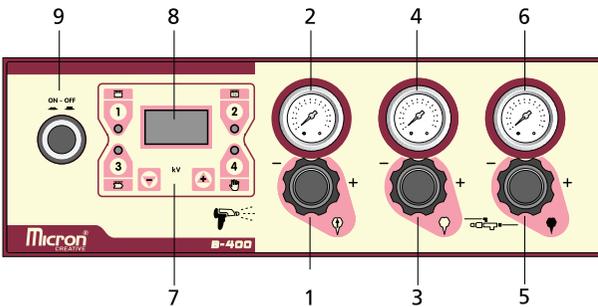
VIEW OF EQUIPMENT

Upper



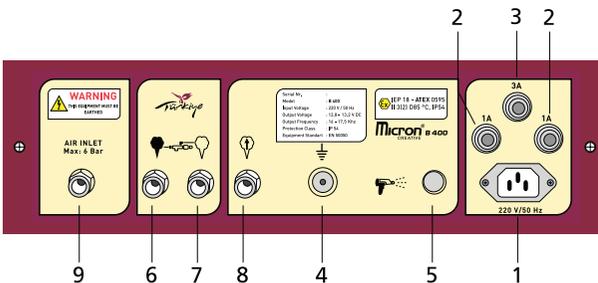
- 1 - Transformer
- 2 - Main Board
- 3 - V alve
- 4 - Display Voltage Setting

Front



- 1 - Vortex Air Regulator
- 2 - Vortex Air Display
- 3 - Auxiliary Air Regulator
- 4 - Auxiliary Air Display
- 5 - Coat Flow Regulator
- 6 - Coat Flow Display
- 7 - Improved Voltage Card
- 8 - Voltage Indicator
- 9 - Electric Button

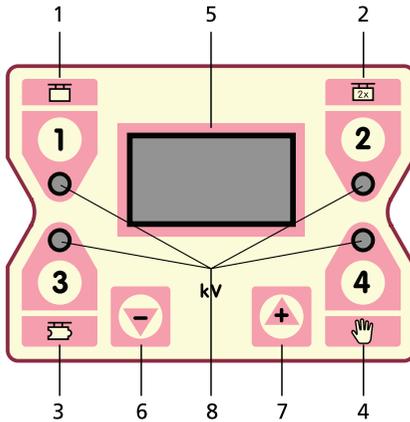
Rear



- 1 - Power Inlet 220 V.
- 2 - 1 A Fuse 220 V.
- 3 - 3 A Fuse 13.5 V.
- 4 - Grounding
- 5 - Spray Gun Socket
- 6 - Vortex Air
- 7 - Auxiliary Air Outlet
- 8 - Coat Flow Outlet
- 9 - Main Airflow Inlet

USE OF CONTROL PANEL

Improved Voltage Control Panel



- 1 - Single Coat Application Button
- 2 - Double Coat Application Button
- 3 - Indented Material Application Button
- 4 - Manual Application Button
- 5 - Voltage Indicator
- 6 - Voltage Lowering Button
- 7 - Voltage Increasing Button
- 8 - Led Lamps

Use of Control Panel

- The new improved quick voltage setting allows you to coat with faster and more linear voltage.
- Turn the device on by switching the ON - OFF buttons on the device to "ON" mode.
- With our improved voltage board, we offer you "4" options.

 Zero material coating = 100 kV

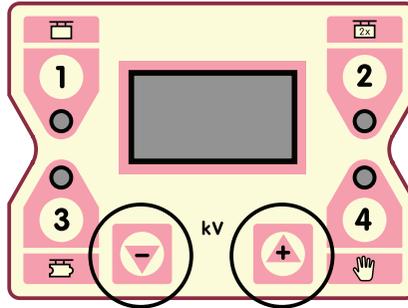
 Coating existing coated material with different colour = 20 kV

 It is the option button for coats applied to indented materials. It reduces static value and targets to minimize the Faraday cage = 50 kV

 It is used by the operator to create a custom kV out of the options, the value we give for the start is = 75 kV

USE OF CONTROL PANEL

Improved Voltage Control Panel



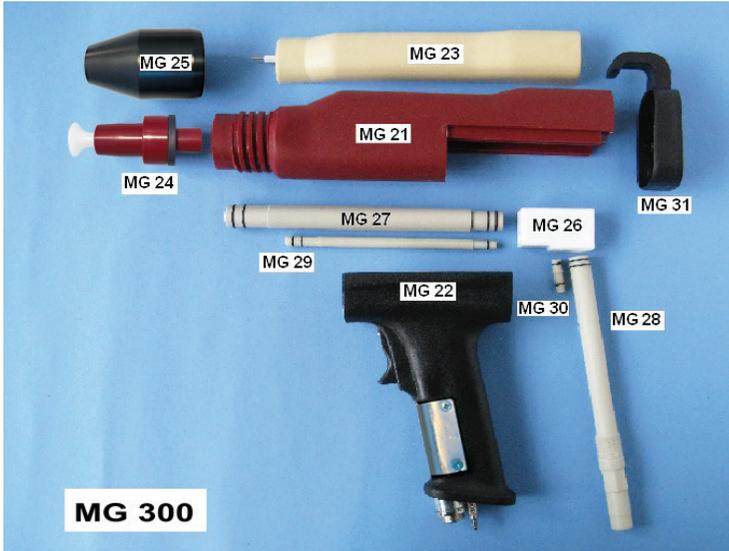
Use of (– , +) Buttons

- (– , +) buttons allow the operator to change values.
- The **kV** in 4 options on the panel can be changed and stored by pressing (– , +) buttons.

Storing Changes

- **kV** changes to be made on the panel are stored as follows.
 - For example, the option for coating a new material to be coated with 100 **kV** is the button "1".
- Press button "1".
 - Output value you obtain is the operating **kV**.
 - Make the necessary changes using the (– , +) buttons and when you obtain the value you want, keep pressing button "1" and make sure it is stored by the **kV** card.
- You will see punctuation marks on the display after these procedures are done, and the process is correctly stored.

MG 300 MANUAL POWDER SPRAY GUN



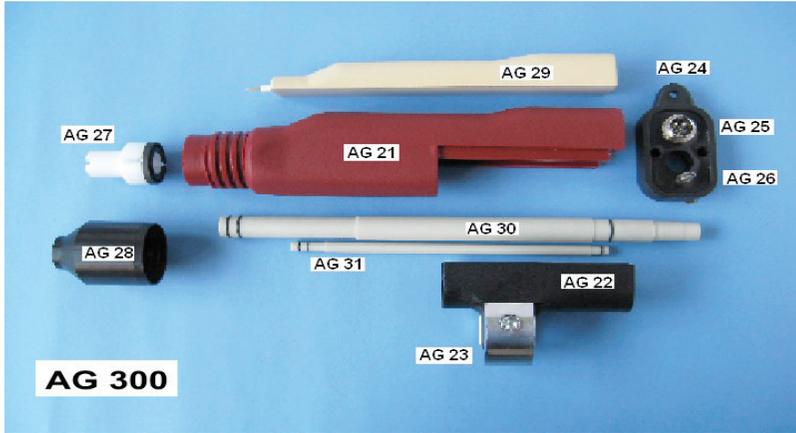
| FIGURE NO. | MATERIAL NAME |
|------------|------------------------------------|
| MG 300 | MANUAL POWDER SPRAY GUN (ALL) |
| MG 21 | SPRAY GUN BODY (New model) |
| MG 22 | SPRAY GUN HANDLE (All) |
| MG 22-1 | MICRO-SWITCH |
| MG 22-2 | TRIGGER |
| MG 22-3 | 4 M PLUG CONNECTION |
| MG 22-4 | VORTEX CONNECTION LANCE |
| MG 23 | CASCADE |
| YRN 300 | DEFLECTOR NOZZLE SET YRN 300 (All) |
| MG 25 | COMPRESSION NUT |
| MG 26 | ELBOW |
| MG 27 | COAT OUTLET PIPE |
| MG 28 | COAT INLET PIPE |
| MG 29 | VORTEX OUTLET PIPE |
| MG 30 | VORTEX INLET PIPE |
| MG 31 | MANUAL REAR COVER |

RN 300 DEFLECTOR NOZZLE SET



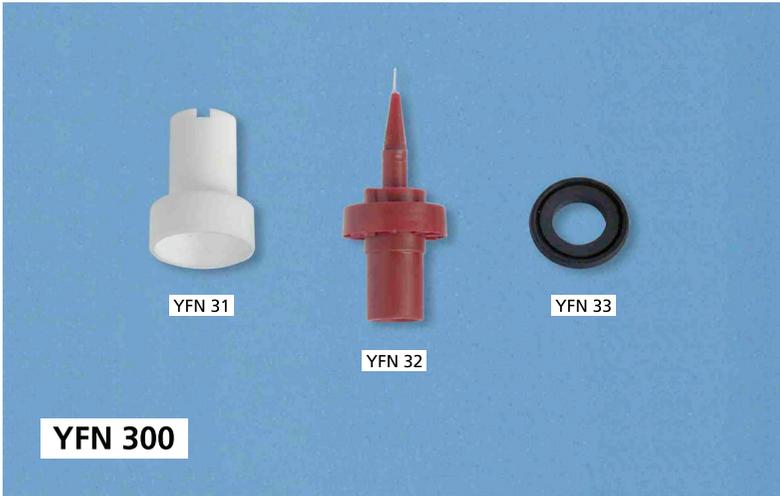
| FIGURE NO. | MATERIAL NAME |
|------------|---------------------------------|
| YRN 300 | DEFLECTOR NOZZLE SET |
| YRN 31 | DEFLECTOR NOZZLE |
| YRN 32 | DEFLECTOR ELECTRODE GROUP (All) |
| YRN 33 | CONTACT RING |
| YRN 34 | DEFLECTOR 16 mm |
| YRN 35 | DEFLECTOR 20 mm |
| YRN 36 | DEFLECTOR 25 mm |

AG 300 AUTOMATIC POWDER SPRAY GUN



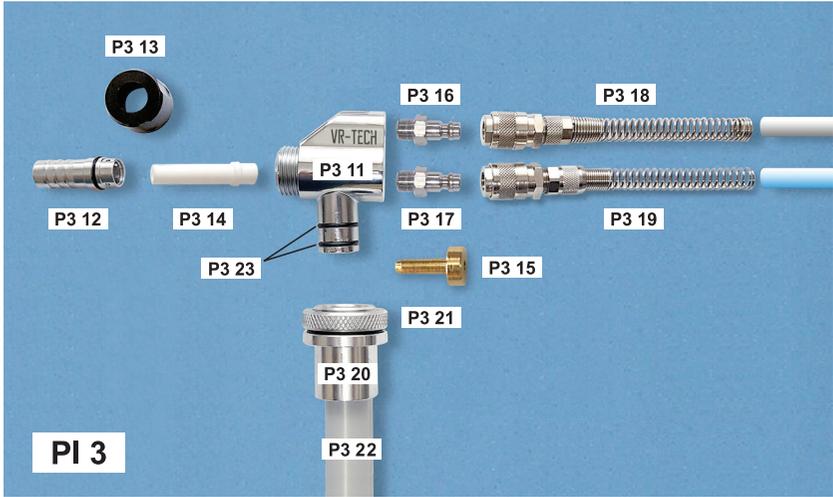
| FIGURE NO. | MATERIAL NAME |
|------------|----------------------------------|
| AG 300 | AUTOMATIC POWDER SPRAY GUN (All) |
| AG 21 | SPRAY GUN BODY (New model) |
| AG 22 | AUTOMATIC LOWER COVER |
| AG 23 | SUPPORT CONNECTION |
| AG 24 | AUTOMATIC REAR COVER |
| AG 25 | 4 M PLUG CONNECTION |
| AG 26 | VORTEX INLET LANCE |
| AG 27 | FLAT NOZZLE SET FN 300 (All) |
| AG 28 | COMPRESSION NUT |
| AG 29 | CASCADE |
| AG 30 | COAT TRANSITION PIPE |
| AG 31 | VORTEX TRANSITION PIPE |

FN 300 FLAT NOZZLE SET



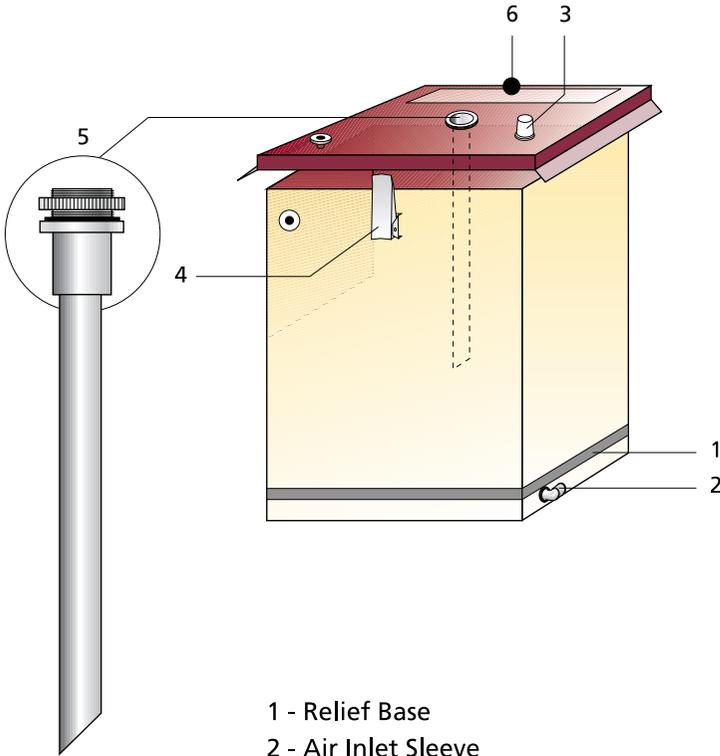
| FIGURE NO. | MATERIAL NAME |
|------------|-----------------------|
| FN 300 | FLAT NOZZLE SET (All) |
| FN 31 | FLAT NOZZLE |
| FN 32 | FLAT ELECTRODE |
| FN 33 | CONTACT RING |

PI 3 POWDER COATING INJECTOR



| FIGURE NO. | MATERIAL NAME |
|------------|------------------------------|
| PI 3 | POWDER COATING INJECTOR |
| P3 11 | ALUMINUM INJECTOR BODY |
| P3 12 | BUSHING BODY |
| P3 13 | CLAMPING NUT |
| P3 14 | INJECTOR BUSHING |
| P3 15 | INJECTOR NOZZLE |
| P3 16 | 1/8 MALE TIP |
| P3 17 | 1/8MALE TIP |
| P3 18 | AUTOMATIC JACK (Transparent) |
| P3 19 | AUTOMATIC JACK (Blue) |
| P3 20 | ALUMINUM INJECTOR SLOT |
| P3 21 | CONNECTING NUT |
| P3 22 | PAINT ENTRANCE PIPE (50CM) |
| P3 23 | INJECTOR O-RING |

50 LT. POWDER COAT TANK



- 1 - Relief Base
- 2 - Air Inlet Sleeve
- 3 - Discharge Hose Sleeve
- 4 - Tension Catch
- 5 - Injector Housing and Pipe
- 6 - Knob Handle

TROUBLES

| ■ TROUBLE | ■ POSSIBLE CAUSES AND REPAIR |
|---|---|
| <ul style="list-style-type: none"> ■ If the signal lamp does not work when the 0-1 switch is turned on; | <ul style="list-style-type: none"> ■ Check if there is power in power socket. ■ Check the fuse 1A on the back of the device. |
| <ul style="list-style-type: none"> ■ If the voltage gauge does not give any value when the spray gun trigger is pressed; | <ul style="list-style-type: none"> ■ Check the connectors of the powder spray gun. ■ Check the fuse 3A. |
| <ul style="list-style-type: none"> ■ If the electronic gauge raises, but the pressure gauges do not work when the spray gun trigger is pressed; | <ul style="list-style-type: none"> ■ Check whether the filter regulator receives air. ■ Check whether the main air inlet hose is plugged and not broken. ■ Check whether the regulators are turned on. |
| <ul style="list-style-type: none"> ■ If the electronic and pneumatic gauges raise, but no coat comes out of the spray gun when the spray gun trigger is pressed; | <ul style="list-style-type: none"> ■ Check coat in the tank. ■ Check the injector connections. ■ Check whether the powder coat hose is broken. ■ Check whether inner parts of the injector are broken. ■ Check relief air. |
| <ul style="list-style-type: none"> ■ If the powder coat in the tank does not boil; | <ul style="list-style-type: none"> ■ Check the relief air regulator. ■ Check the relief air regulator connections. ■ Check whether the relief base is blocked. |
| <ul style="list-style-type: none"> ■ If the spray gun sprays coat continuously without pressing the spray gun trigger and the electronic gauge raises; | <ul style="list-style-type: none"> ■ Check the spray gun cable and micro-switch. |
| <ul style="list-style-type: none"> ■ If the spray gun sprays coat continuously without pressing the spray gun trigger and the signal "the spray gun is on" does not work | <ul style="list-style-type: none"> ■ External materials may have entered into the solenoid valve diaphragm. Consult your technical service. |
| <ul style="list-style-type: none"> ■ If the spray gun sprays coat when the spray gun trigger is pressed, but it fails to apply the coat sufficiently; | <ul style="list-style-type: none"> ■ Clean the spray gun electrode. ■ Check voltage values. |
| <ul style="list-style-type: none"> ■ If there is any voltage jump from the spray gun holder to the user; | <ul style="list-style-type: none"> ■ Check whether the grounding cable on the back of the device is plugged in. ■ Check the spray gun cable. |

WARRANTY CERTIFICATE

Approval Date of Certificate :

If this device malfunctions during normal use, it will be repaired free of charge within one year from the date of purchase. If the device requires service during the warranty period, you will be asked to repair it by taking it with the warranty certificate at the place where you purchased it. The repair time of the device is maximum 1 month. In the event of a warranty failure, the time remaining in repair is added to the warranty period. This guarantee document is only available in the country of purchase.

Free repair or program request under the warranty of the customer in the following cases will be invalid.

- 1 - If there is damage to the box, cable or screen.
- 2 - If the fault occurs mistakes in installation of the electricity or any changing in electricity line of the city.
- 3 - If someone other than the authorized company personnel has intervened in the device.
- 4 - fault, if the problem occurs after the natural disasters.
- 5 - If there is no warranty document when requesting service.
- 6 - If the guarantee document is missing or if there is no company scrub.

MANUFACTURING / IMPORTING COMPANY

TITLE :

ADDRESS :

PHONE :

TELEFAX :

TYPE OF GOODS :

BRAND :

MODEL :

SERIAL NO. :

INVOICE NO. :

INVOICE DATE :

WARRANTY PERIOD :

SEAL - SIGNATURE :

Micron[®]
CREATIVE
B 300 - B 400

