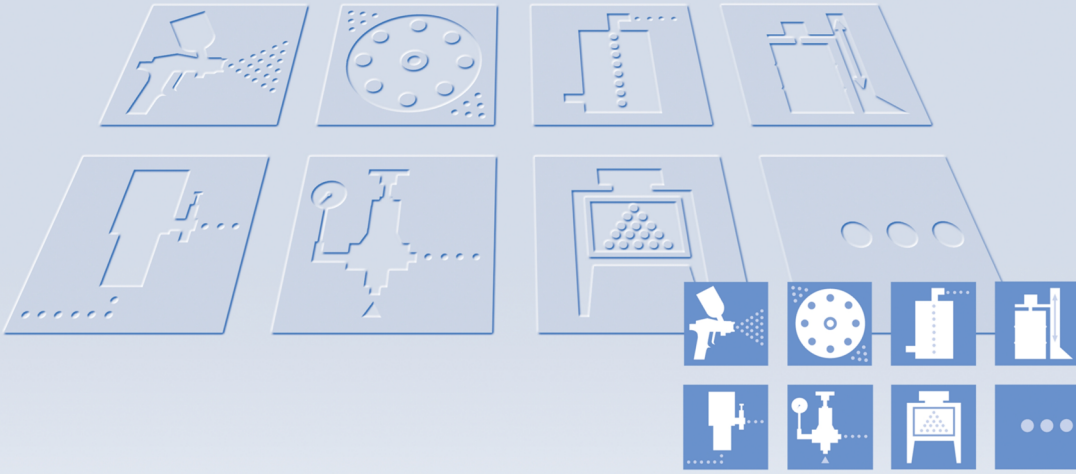
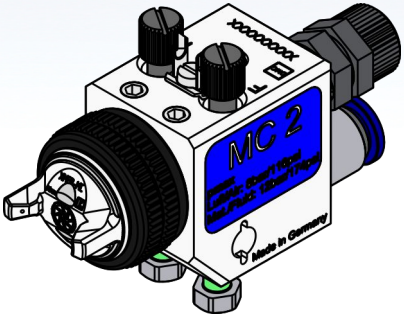




GB

Operating instructions
Automatic spray gun MC 2

T-Dok-750-GB-Rev.0

Item number: 200-0459
Translation of the original operating instructions

Krautzberger

Thank you for selecting a Krautzberger product.

This product has been manufactured following state-of-the-art manufacturing procedures and extensive quality assurance measures. We promise you a product of the highest quality.

If you have questions, requests or suggestions, please contact us. We are always glad to assist you.

Information about the operating manual

This manual provides important information on how to work with the device safely and efficiently. The manual is part of the device and must always be kept in the immediate proximity of the device so that it is accessible to the personnel at all times.

The personnel must have read and understood this manual before starting any work. Compliance with all specified safety information and instructions is a basic requirement for safe working conditions.

In addition, the local occupational safety regulations and general safety rules apply for the area of application of the device.

Due to optional finishing variants, it is possible that the figures shown in this operating manual deviate from your device.

Information about explosion protection

Many of our competitors have been marking their products with the Ex symbol as a matter of principle for some time now.

At Krautzberger we do not do that.

We engineer and manufacture our products in line with currently applicable directives.

If the labelling on the product is required, it is affixed to the product as the result of the necessary analysis of ignition sources. If no labelling is affixed, the analysis of ignition sources and previous experience with the assessment of the suitability of products for use in a potentially explosive area have shown that the product described in this operating manual does not represent a potential source of ignition, with the exception of an electrostatic charge.

Taking into account the potential equalisation (provided by proper earth connection), the use in an area at risk for explosions is permitted in accordance with the currently valid directives.

Table of contents

1 Function and identification ... **5**
1.1 Function ... 5
1.2 Identification ... 5
2 Using this operating manual ... **6**
2.1 Information about the operating manual ... 6
2.2 Symbols in this operating manual ... 6
2.3 Personnel requirements ... 8
2.4 Personal protective equipment ... 8
3 Safety and responsibility ... **11**
3.1 Responsibility of the owner ... 11
3.2 Intended use ... 11
3.3 Specification for the operation of a complete machine ... 11
3.4 Predictable misuse ... 11
3.5 General safety instructions ... 12
3.6 Residual risks ... 13
3.7 Course of action in an emergency ... 13
4 Transport, storage, and packaging ... **14**
4.1 Transport ... 14
4.2 Storage ... 14
4.3 Packaging ... 14
5 Overview ... **15**
6 Installation ... **16**
6.1 Safety ... 16
6.2 General installation information ... 17
6.3 Installing the automatic spray gun ... 18
6.4 Connecting the automatic spray gun ... 18
6.5 Nozzle fixation ... 19
7 Operation ... **21**
7.1 Safety ... 21
7.2 General information about initial start-up/commissioning ... 22
7.3 Shutting down ... 23
7.4 Commissioning ... 23
7.5 Adjusting the spray pattern ... 23
8 Maintenance ... **25**
8.1 Safety ... 25
8.2 Maintenance schedule ... 26
8.3 Cleaning ... 26

8.4 Changing the material nozzle and the air nozzle 27
9 Faults 28
9.1 Customer Care 29
10 Spare parts 30
11 Accessories 31
12 Disassembly and disposal 32
12.1 Safety 32
12.2 Disassembly 32
12.3 Disposal 32
13 Technical data 33
13.1 Dimensions and weight 33
13.2 General specifications 33
13.3 Dimensions 33
14 Declaration of incorporation 34
15 Notes 35
16 Index 38

1 Function and identification

1.1 Function

The automatic spray gun **MC 2** is used for automatic, continuous coating of surfaces. Typical spray media include paints, dyes, glazes, debonding agents etc.

The spray medium is fed into the automatic spray gun under pressure.

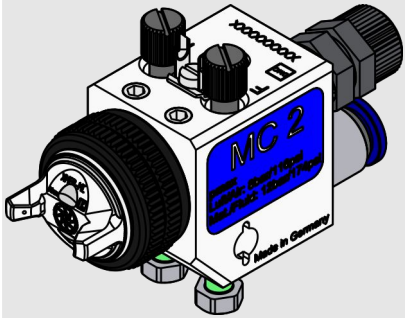
The spray medium is atomised using compressed air. The geometry of the spray jet and the sprayed quantity of the spray medium can be adjusted using the following measures:

- Selection of the air and material nozzle
- Change of atomiser air pressure
- Change of spray medium pressure

The automatic spray gun consists of the following materials:

Component	Material
Main element	Aluminium, hard-coated
Nozzle	Aluminium
Seals	Various plastics

1.2 Identification

Scope of delivery	Type	Item number
	MC 2	200-0459
	Operating manual	T-Dok-750

Serial number

The model plate and the serial number of the automatic spray gun are located on the main element. It serves as a unique identifier.

2 Using this operating manual

2.1 Information about the operating manual

- Knowledge of the fundamental safety instructions and safety regulations is a basic requirement for safe handling and defect-free operation of the product.
- This operating manual contains the most important information about enabling safe operation of the product.
- This operating manual and, in particular, the safety instructions are to be observed by all persons who work on or with the product.
- Furthermore, the rules and regulations for accident prevention in force at the respective operating site are to be observed.

2.2 Symbols in this operating manual

Safety instructions

This operating manual uses symbols to identify safety instructions. The safety instructions are preceded by signal words that indicate the severity of the hazard.

DANGER!

This combination of symbol and signal word indicates an immediate dangerous situation, which will cause death or severe injuries if it is not averted.

WARNING!

This combination of symbol and signal word indicates a potentially dangerous situation which can cause death or severe injuries if it is not averted.

CAUTION!

This combination of symbol and signal word indicates a potentially dangerous situation which can cause slight injuries if it is not averted.

NOTICE!

This combination of symbol and signal word indicates a potentially dangerous situation which can cause property and environmental damage if it is not averted.

ENVIRONMENT!

This combination of symbol and signal word indicates potential dangers to the environment.

Tips and recommendations

This symbol highlights useful tips and recommendations as well as information for efficient and defect-free operation.

Example for safety instructions in operating instructions

Safety instructions can refer to specific, individual operating instructions. Such safety instructions are embedded in the operating instructions so that they do not disrupt the reading flow when performing the action. The signal words described above are used.

1. Loosen the screw.
2. **CAUTION!**

   Pinching hazard at the lid!

   Carefully close the lid.
3. Tighten the screw.

Special safety instructions

The following symbols are used in safety instructions to draw attention to specific hazards:

Warning signs	Type of danger
	Warning – hot surface.
	Warning – danger zone.

Additional markings

The following markings are used in this manual to highlight operating instructions, outcomes, lists, references, and other elements:

Identification	Explanation
	Step-by-step instructions
⇨	Results of procedural steps
⇩	References to sections in this manual and other applicable documents
■	Lists without specified order
[Button]	Operating elements (e.g. buttons, switches), display elements (e.g. signal lights)
'Display'	Screen elements (e.g. pushbuttons, assignment of function keys)

2.3 Personnel requirements

This manual identifies the qualifications of the personnel for the different scopes of work as listed below:

Qualified personnel
Due to their specialised professional training, knowledge, and experience as well as knowledge of the industry-specific standards and regulations, qualified personnel are in a position to perform assigned tasks and to identify and avert potential risks on their own.

Specialised personnel
Due to their specialised professional training, knowledge, and experience as well as knowledge of the industry-specific standards and regulations, qualified personnel are in a position to perform assigned tasks and to identify and avert potential hazards on their own.

Trained electrician
Due to specialised professional training, knowledge and experience as well as knowledge of the industry specific standards and regulations, a trained electrician is able to carry out work on the electrical systems and to identified and avert potential risks on his/her own.

The trained electrician has completed specialised training for the specific work environment where he/she works and knows the relevant standards and regulations.

User
The user is familiar with the basic regulations on occupational safety and accident prevention.

2.4 Personal protective equipment

Personal protective equipment is used to protect persons against adverse effects on their health and safety when working.

Personnel must wear personal protective equipment while carrying out the different tasks on and with the machine.

In the course of regular, recurring trainings, the owner should inform operating personnel that working without protective equipment can be detrimental to their health.

Protective equipment is selected according to the ambient conditions at the owner's premises and the raw materials that are used. The information provided by the material manufacturer on the safety data sheet must be adhered to in order to ensure the proper selection of protective equipment.

The recommended personal protective equipment is described below:

Light respiratory protection

Light respiratory protection is used as protection against hazardous dusts.

Protective gloves

Protective gloves protect hands from friction, abrasion, puncture wounds, or deeper injuries, as well as from contact with hot surfaces.

Safety goggles

Safety goggles are used to protect the eyes from airborne components and splashes of liquid.

Protective clothing

Protective clothing are tight fitting work clothes with low tear resistance, with tight sleeves, and without any protruding parts.

Safety shoes

Safety shoes protect the feet against crushing, falling parts or slipping on slippery ground.

Safety helmet

The helmet protects the head from falling parts and oscillating loads on the one hand, and it can protect it from injuries in cramped situations on the other.

3 Safety and responsibility

3.1 Responsibility of the owner

Owner

The owner is the person, who directly operates the machine for commercial or economical purposes or who allows a third-party to use/apply it and who is responsible for the legal product stewardship for the protection of the user, the personnel or third parties.

Owner responsibilities

The machine is used in an industrial environment. The owner of the machine is therefore subject to the obligations as stipulated by the Occupational Health and Safety Act.

In addition to the safety information in this manual, the country-specific safety, accident prevention guidelines and environmental protection regulations, applicable at the site of implementation of the machine must be adhered to.

Furthermore, the owner is responsible for making sure that the machine is always in perfect technical condition. Therefore, the following applies:

- The owner must ensure that the maintenance intervals described in this operating manual are adhered to.
- The owner must have all safety equipment checked regularly for functionality and completeness.

3.2 Intended use

The automatic spray gun is used to spray different media. The nozzle size depends on the viscosity of the spray medium.

The intended use also includes compliance with all of the specifications in this operating manual.

3.3 Specification for the operation of a complete machine

- The operation without CE-marking is prohibited.
- Prior to its use, the automatic spray gun must be assembled to form a complete machine.
- Only operate the automatic spray gun after proper fastening on a suitable carrier construction.

3.4 Predictable misuse

Any use beyond the intended use or any other use constitutes misuse.

- Always carry out installation and commissioning in accordance with the steps described in this operating manual.
- Always observe the applicable country-specific safety, accident prevention, occupational safety, and environmental protection regulations etc. for the area of use for the automatic spray gun.
- Ensure that the hose lines used meet the requirements with regard to pressure, chemical, and mechanical loads.
- Do not use sharply abrasive, chemically aggressive, very hot or very cold spray media without first consulting and receiving approval from Krautzberger GmbH.
- Adhere to the spray medium manufacturer's safety data sheets.
- Only use the manufacturer's OEM parts.
- Only operate the automatic spray gun after proper fastening on a suitable supporting structure.
- Do not hold the automatic spray gun in your hand during operation.

- Only operate the automatic spray gun while adhering to the values specified in (*Chapter 13 'Technical data' on page 33*).
- Make sure that the connected compressed air is oil-free and free from solid matter.
- Operate the automatic spray gun with processed, dried compressed air (air quality pursuant to DIN ISO 8573-1: quality class 4).
- Never point the compressed air at living beings.

No claims of any kind can be asserted due to damage resulting from misuse!

3.5 General safety instructions

WARNING!

Life threatening risk of injury or property damage through the application of hazardous media!

The application of hazardous media can lead to death, serious injuries or property damage.

– Ensure the resistance of the machine against the medium that is to be applied.
– Always adhere to the safety data sheet of the medium that is to be applied.

CAUTION!

Risk of injury through compressed air!

Uncontrolled leaks of compressed air can lead to serious injuries!

– Prior to any work on the device, all compressed-air lines must be closed and bleed if necessary.

WARNING!

Sound pressure level

Depending on the operating conditions, the sound pressure of the device may cause hearing damage.

Take suitable action to reduce the impact of the existing sound pressure level. The owner is responsible for the type and implementation of suitable measures, which may depend on the local conditions.

Outdoor operation and operation in exterior areas!

Use suitable measures to protect the device during the operation from environmental impacts in an exterior area through:

– *Moisture*
– *UV radiation*
– *Frost, etc.*

3.6 Residual risks

The automatic spray gun made by Krautzberger GmbH has been manufactured based on state-of-the-art technology and generally accepted technical safety regulations.

Nonetheless, its use can pose a threat to the life or health of users or third parties, damage the automatic spray gun itself or cause other property damage.

- The automatic spray gun must only be used as intended.
- The automatic spray gun must only be operated in a defect-free condition.
- Any faults impacting the safety must be remedied immediately.

3.7 Course of action in an emergency

In principle, the applicable national, regional and internal company regulations concerning the course of action in case of an emergency must be adhered to and if necessary respective safety measures must be taken on the system owner's side.

4 Transport, storage, and packaging

4.1 Transport

- The automatic spray gun is protected by cardboard packaging.
- The cardboard packaging can be reused for storage.

4.2 Storage

Store the automatic spray gun under the following conditions:

- Store the automatic spray gun in the original packaging.
- Do not store outside.
- Store in a dry and dust-free environment.
- Keep away from any aggressive media.
- Protect from UV radiation.
- Avoid mechanical shocks.
- Storage temperature: 15 to 40 °C.
- Relative atmospheric humidity: max. 60%.

4.3 Packaging

The automatic spray gun is packaged in accordance with the anticipated transport conditions and the packaging needs to protect it against transport damage, corrosion, and other damage.

- Remove packaging material.
- Remove potentially present transport safety restraints.

5 Overview

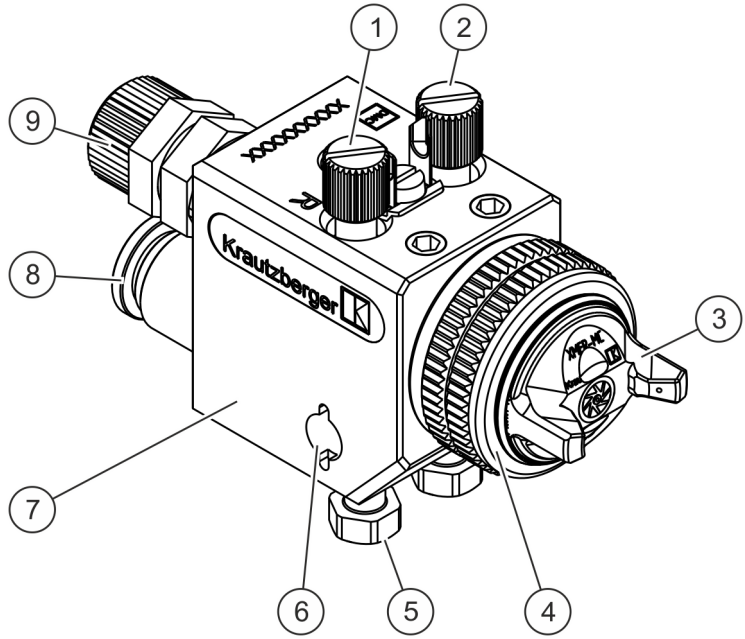


Fig. 1: Overview

1 Round jet regulator “R”
2 Flat jet regulator “F”
3 Air nozzle
4 Cap nut
5 Installation screws
6 Installation drill hole for retaining bolts
7 Main element
8 Connection for atomiser air “Z”
9 Connection for material supply “M”

The connections are marked with letter abbreviations.

6 Installation

6.1 Safety

Personnel:

- Specialised personnel
- Trained electrician

Protective equipment:

The selection of the protective equipment depends on the installation conditions on site. Always observe the applicable country-specific safety, accident prevention, occupational safety, and environmental protection regulations for the proper selection of the protective equipment.

WARNING!

Risk of injury due to improper installation!

Improper installation may cause serious personal injury or material damage.

Note:

– Ensure ample of space for the installation prior to starting any work.
– Carefully handle open, sharp-edged components.
– Maintain order and cleanliness at the installation site. Components that are loosely stacked or are scattered around can cause accidents.
– Assemble components properly. Adhere to specified screw tightening torque.
– Secure components against tipping or falling.
– Ensure that the utilised hose lines meet the requirements for pressure, chemical and mechanical loads. At the same time, adhere to the spray media manufacturer's specifications in the safety data sheet.

CAUTION!

Risk of injury through compressed air!

Uncontrolled leaks of compressed air can lead to serious injuries!

– Prior to any work on the device, all compressed-air lines must be closed and bleed if necessary.

CAUTION!

Risk of injury due to sharp edges!

Sharp edges and pointed corners can cause abrasions and cuts on the skin.

Note:

– Proceed cautiously when working on or near sharp edges and pointed corners.
– Wear protective gloves, if in doubt.

6.2 General installation information

Adhere to the following general information for installation:

- Only carry out installation and commissioning in accordance with the steps described in this operating manual.
- Ensure that the utilised hose lines fulfil the requirements with respect to pressure, chemical, and mechanical loads.
- Only operate the automatic spray gun after proper fastening on a suitable carrier construction.
- Make sure that the connected compressed air is oil-free and free from solid matter.
- Operate the automatic spray gun with processed, dried compressed air (air quality pursuant to DIN ISO 8573-1: quality class 4).
- Vibration and recoil forces may occur on the automatic spray gun during the operation. Ensure sufficient fastening.
- Never point the compressed air at living beings.

6.3 Installing the automatic spray gun

Changing the installation position of the automatic spray gun

The automatic spray gun can be mounted on both sides on the retaining bolts in order to change the installation position.

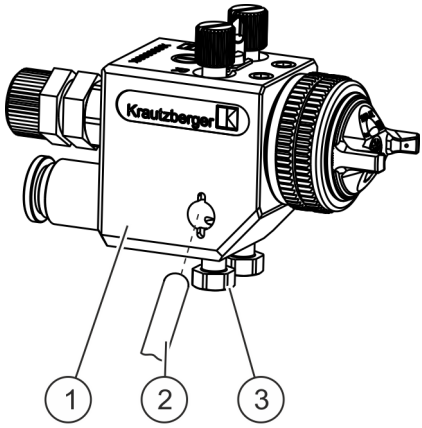


Fig. 2: Installing the automatic spray gun

1. Slide the automatic spray gun (Fig. 2/1) with the intended drill hole over the retaining bolt (Fig. 2/2).
2. Fix the retaining bolt in place on the underside of the automatic spray gun using the installation screws (Fig. 2/3).
3. Ensure proper grounding of the automatic spray gun.

6.4 Connecting the automatic spray gun

WARNING!

Danger of injury due to improper connection!

When the material supply is pressurised, e.g. from pressure containers or with pumps, the range of the material jet can increase considerably in case of atomiser air failure. This presents a hazard to people and property.

– Make sure that the material supply is interrupted if the atomiser air pressure drops off quickly.
– It is recommended to regulate the atomiser air pressure via a filter pressure reducer.

The connections for the material input and for the atomiser air are marked with letter codes.

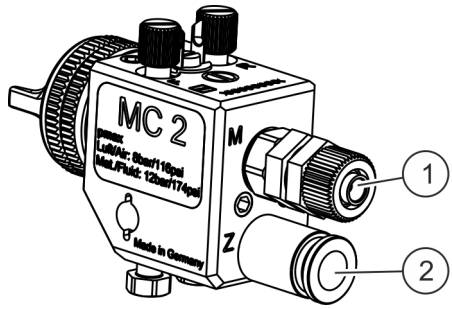


Fig. 3: Connecting the automatic spray gun

1. Connect the atomiser air to input “Z” (Fig. 3/2).

2. Connect the material line to connection “M” (Fig. 3/1).

6.5 Nozzle fixation

Flat jet nozzles can be adjusted to adapt to the workpiece geometry either seamlessly or in 45° increments.

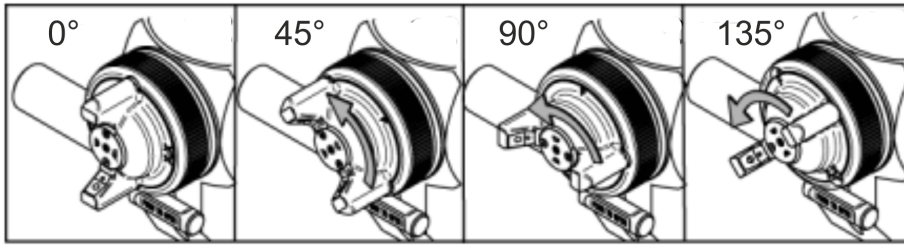


Fig. 4: Nozzle fixation

1. Loosen the cap nut.
2. **NOTICE!**

   Property damage due to incorrect operation!

   – The flat jet nozzle may only be turned anti-clockwise.

   Turn the flat jet nozzle anti-clockwise to the desired position.
3. Tighten the cap nut again.

7 Operation

7.1 Safety

Personnel:

- User
- Specialised personnel

Protective equipment:

The selection of the protective equipment depends on the utilised medium of the system owner. The information provided by the medium manufacturer indicated on the safety data sheet must be adhered to in order to ensure the proper selection of protective equipment.

WARNING!

Risk of injury due to improper operation!

Improper operation can lead to serious personal injuries or property damage.

Note:

– Never point compressed air at people.
– Check the material and compressed air hose lines before each use for damage and tight fit.
– Adhere to the spray media manufacturer's specifications in the safety data sheet.
– Make sure that the connected compressed air is oil-free and free of solid matter.

WARNING!

Risk of death, risk of injury or property damage due to hazardous media!

Potential consequences: The application of hazardous media can lead to death, severe injuries or property damage.

When handling hazardous substances, ensure that the current safety data sheets of the hazardous substance manufacturer are available. The necessary measures can be derived from the content of the safety data sheet. Since the hazardous potential of a material can be reassessed at any time due to lessons learned, the safety data sheet must be checked regularly and replaced if necessary.

The system owner is responsible for the presence and the up-to-date status of the safety data sheet and the associated generation of the risk assessment of the effected workstations.

CAUTION!

Risk of injury through compressed air!

Uncontrolled leaks of compressed air can lead to serious injuries!

– Prior to any work on the device, all compressed-air lines must be closed and bleed if necessary.

WARNING!

Risk of injury due to hot surfaces!

The surfaces of components can become very hot during operation. Direct contact with hot surfaces causes severe skin burns.

– Do no touch hot surfaces during operation, wear protective gloves if necessary.
– Ensure that all surfaces have sufficiently cooled down prior to starting any work.

WARNING!

Sound pressure level

Depending on the operating conditions, the sound pressure of the device may cause hearing damage.

Take suitable action to reduce the impact of the existing sound pressure level. The owner is responsible for the type and implementation of suitable measures, which may depend on the local conditions.

7.2 General information about initial start-up/commissioning

Adhere to the following general information for initial start-up/commissioning:

- Only carry out the commissioning of the automatic spray gun in accordance with the steps described in this operating manual.
- Check the material and compressed air hose lines for damage and tight fit before each use.
- Always observe the applicable country-specific safety, accident prevention, occupational safety, and environmental protection regulations etc. for the area of use for the automatic spray gun.
- Do not use sharply abrasive, chemically aggressive, very hot or very cold spray media without first consulting and receiving approval from Krautzberger GmbH.
- Adhere to the spray medium manufacturer's safety data sheets.
- Only operate the automatic spray gun while adhering to the values specified in (↳ *Chapter 13 'Technical data' on page 33*).
- Only operate the automatic spray gun after proper fastening on a suitable supporting structure.
- Do not hold the automatic spray gun in your hand during operation.

- Never point the compressed air at living beings.
- Adhere to the operating manuals for the respective components.

7.3 Shutting down

7.3.1 Temporary shutdown

1. End the spray process by switching off the material supply.
2. Switch off the atomiser air (connection “Z”).

7.3.2 Long-term shutdown

1. End the spray process by switching off the material supply.
2. Switch off the atomiser air (connection “Z”).
3. If necessary, clean the automatic spray gun (*Chapter 8.3 ‘Cleaning’ on page 26*).

7.4 Commissioning

1. Point the automatic spray gun at a test surface.
2. Switch on the atomiser air (connection “Z”).
3. Begin the spray process by switching on the material supply.
4. Adjust the spray pattern (*Chapter 7.5 ‘Adjusting the spray pattern’ on page 23*).
5. End the spray process by switching off the material supply.
6. Switch off the atomiser air (connection “Z”).
7. Direct the automatic spray gun towards the workpiece to be coated.
8. Switch on the atomiser air (connection “Z”).
9. Begin the spray process by switching on the material supply.

7.5 Adjusting the spray pattern

Air and material nozzles are available in various sizes. There are 4 different families:

- **Round jet** – cone-shaped jet in front of the nozzle.
- **Flat jet** – width-adjustable jet for flat-shaped application.
- **Rotary jet** – a rotary pulse produces a highly "swirled" spray jet; for difficult work piece geometries (angular sections etc.).
- **Full-cone rotary jet** – a rotary pulse produces a highly "swirled" spray jet; for difficult work piece geometries (back cuts, etc.).

The spray pattern can be adjusted with the following measures:

- Change the atomiser air pressure.
- Change the pressure of the spray medium.
- Select another nozzle size.

Too-high air pressure causes unnecessarily high air consumption and too-strong atomisation of the spray medium. It is recommended that you first adjust the spray pattern by varying the air and spray medium pressure. If you cannot achieve satisfactory results this way, you should experiment with other nozzle sizes.

8 Maintenance

8.1 Safety

Personnel:

- Specialised personnel

Protective equipment:

The selection of the protective equipment depends on the maintenance conditions on site and the medium used by the system owner. The applicable country-specific safety, accident prevention, occupational safety, and environmental protection regulations must be adhered to for the proper selection of the protective equipment and the information given by the spray medium manufacturer on the safety data sheet must be taken into consideration.

WARNING!

Risk of injury through the use of incorrect spare parts!

The use of incorrect or defective spare parts can cause hazards for the personnel as well as damage, malfunctions or complete failure.

– Only use OEM parts from Krautzberger or Krautzberger-approved spare parts.
– In case of questions, always contact our Customer Care department.

CAUTION!

Risk of injury through compressed air!

Uncontrolled leaks of compressed air can lead to serious injuries!

– Prior to any work on the device, all compressed-air lines must be closed and bleed if necessary.

CAUTION!

Risk of injury due to sharp edges!

Sharp edges and pointed corners can cause abrasions and cuts on the skin.

Note:

– Proceed cautiously when working on or near sharp edges and pointed corners.
– Wear protective gloves, if in doubt.

8.2 Maintenance schedule

The following sections describe the maintenance work that is required for optimal and fault-free operation of the device. Check the wearing parts such as seals and nozzles at regular intervals. The level of wear depends on the abrasiveness of the spray medium used. Escaping air and spray medium as well as the deterioration of the spray pattern are signs that parts are worn. Contact Krautzberger Customer Care should you have any questions about maintenance work and maintenance intervals.

Interval	Maintenance work	Personnel
before performing any maintenance work	Clean the automatic spray gun (*Chapter 8.3 'Cleaning' on page 26*)	Qualified personnel
If needed	Change the material nozzle and air nozzle (*Chapter 8.4 'Changing the material nozzle and the air nozzle' on page 27*)	

8.3 Cleaning

WARNING!

Risk of injury due to improper cleaning!

– Adhere to the safety data sheets of the cleaning agent manufacturer.
– Do not fully immerse the automatic spray gun in cleaning agent.

1. Suspend operation (*Chapter 7.3 'Shutting down' on page 23*).
2. Switch off the system and secure it against a restart.
3. Connect the cleaning agent to material supply connection “M”.
4. Switch on the compressed air supply.
5. Begin the spray process by switching on the atomiser air (connection “Z”) and the material supply.
6. Spray until the cleaning agent runs clear.
7. Interrupt the supply of cleaning agent by switching off the material supply.
8. Blow out the cleaning agent residue by briefly switching on the atomiser air.
9. Switch off the compressed air supply and secure it against restart.
10. Clean the outside of the automatic spray gun with a cloth dipped in cleaning agent.
11. Remove the material and air nozzle (*Chapter 8.4 'Changing the material nozzle and the air nozzle' on page 27*) and clean with a soft brush. Do not use hard or sharp-edged objects. We recommend our brush set. Please contact our Customer Care department for this purpose.
12. Slightly grease the sliding parts. We recommend Krautzberger special grease. Please contact our Customer Care department for this purpose.

8.4 Changing the material nozzle and the air nozzle

Removing the nozzles

1. Clean the automatic spray gun (*Chapter 8.3 'Cleaning' on page 26*).

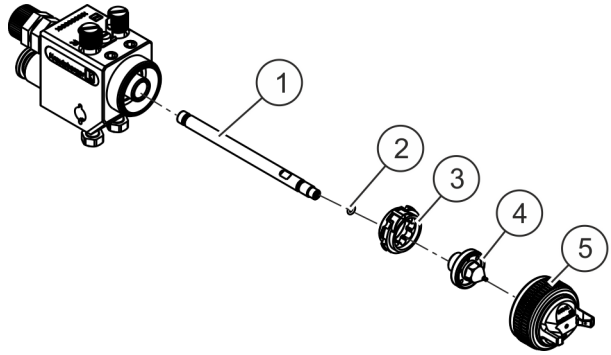


Fig. 5: Removing the nozzles

2. Unscrew the cap nut with air nozzle (Fig. 5/5).
3. Unscrew the material nozzle (Fig. 5/4), composed of the cannula (Fig. 5/1) and the seal (Fig. 5/2), from the main element.
4. Unscrew the material nozzle and seal from the cannula.
5. Check the seal for damage and replace it if necessary.

Attaching the nozzles

The air distributor ring (Fig. 5/3) is only required for flat jet nozzles. When fitting the automatic spray gun with round or rotary jet nozzles, the air distributor ring is not mounted but it is included in the scope of delivery.

1. **WARNING!**

   Risk of injury through the use of incorrect spare parts!

   Screw the new material nozzle (Fig. 5/3) and the seal (Fig. 5/2) back onto the cannula (Fig. 5/1).
2. Insert the mounted cannula back into the main element.
3. Tighten the new air nozzle with the cap nut (Fig. 5/5) again.

9 Faults

Personnel:

- Qualified personnel

If the fault is not included in the following table or if it cannot be eliminated with the measures described, contact Customer Care.

Spray pattern	Error	Cause	Remedy
	Normal flat jet spray pattern		
	Spray pattern too concentrated towards the top and towards the bottom	■ Dirty air nozzle ■ Dirty material nozzle	Clean the nozzles (*Chapter 8.3 'Cleaning' on page 26*)
	Spray pattern concentrated on the left or right side	■ Dirty air nozzle ■ Dirty material nozzle	Clean the nozzles (*Chapter 8.3 'Cleaning' on page 26*)
	Heavy application in the centre of the spray pattern	Too much material	Reduce the material supply
		Material too thick	Thin the material
	Split spray pattern	Insufficient material	Increase the material supply
		Flat jet air pressure too high	Reduce the flat jet air pressure
	Spray pattern too thin	Cap nut loose	Tighten the cap nut

Spray pattern	Error	Cause	Remedy
	Material jet comes out in spurts or rapid bursts	Insufficient material supply	Increase the material supply
		Blocked material path	Clean (*Chapter 8.3 'Cleaning' on page 26*)
		Loose or damaged material nozzle	Tighten or replace (*Chapter 8.4 'Changing the material nozzle and the air nozzle' on page 27*)
	Material nozzle drips	Dirty or damaged material nozzle	Clean (*Chapter 8.3 'Cleaning' on page 26*) or replace the material nozzle (*Chapter 8.4 'Changing the material nozzle and the air nozzle' on page 27*)
-	Spray pattern change after assembly. Atomisers for round and flat jet air can no longer be regulated separately	Air distributor ring installed wrong way	Remove the air distributor ring and install it correctly

9.1 Customer Care

Krautzberger GmbH

Customer service

Stockbornstr. 13

65343 Eltville am Rhein

+49 6123 698-222

customercare@krautzberger.com

10 Spare parts

– *Only use OEM parts from Krautzberger or Krautzberger-approved spare parts.*
– *In case of questions, always contact our Customer Care department.*

Spare parts order – General

To make spare part ordering easier, please provide the following information:

– *Serial number*
– *Model / product name*
– *Designation*
– *Item number according to spare parts list*
– *Quantity*
– *Desired shipping method (post, freight, sea, air, express)*
– *Delivery address*

A complete spare part overview is available on the website of Krautzberger GmbH:

www.krautzberger.de

11 Accessories

A wide range of accessories is available for the automatic spray gun. For further information, visit us on the Internet (www.krautzberger.com) or contact your Krautzberger specialist dealer, consultant or our office staff.

12 Disassembly and disposal

12.1 Safety

Personnel:

- Qualified personnel

Protective equipment:

The selection of the protective equipment depends on the environmental conditions at the site of the owner and the coating material that is used. To ensure the proper selection of personal protective equipment, the information provided by the spray material manufacturer indicated on the safety data sheet must be adhered to.

12.2 Disassembly

WARNING!

Risk of injury due to improper disassembly!

Prior to starting the disassembly:

- Switch off the device and secure it against a restart.
- Physically disconnect the entire power supply from the device, and discharge any energy stored in the machine.
- Remove and dispose of operating and auxiliary material as well as remaining processing materials in an environmentally friendly manner.

Afterwards, properly clean components and modules and take them apart in compliance with applicable local occupational health & safety regulations as well as environmental protection regulations.

12.3 Disposal

ENVIRONMENT!

Danger to the environment due to incorrect disposal!

Incorrect disposal may cause dangers to the environment.

If no return or disposal agreement has been made, recycle the dismantled parts:

- Scrap metals.
- Recycle plastic components.
- Sort remaining components based on the respective material and dispose of them accordingly.
- Properly dispose of potential spray media residue separately from the device.

If in doubt, obtain information about environmentally-appropriate disposal from the local authorities or specialised disposal companies.

13 Technical data

13.1 Dimensions and weight

Specification	Value	Unit
Width	28	mm
Height	55.5	mm
Length	88.2	mm
Connection for spray medium (quick connector)	6/8 hose	-
Connection for atomiser air (plastic hose - recommended interior diameter for 4 m length)	6/8 hose	-
Weight	approx. 250	g

13.2 General specifications

Specification	Value	Unit
Material pressure	max. 1.2 / 12	MPa / bar
Material temperature	max. +100	°C
Sound exposure (depending on nozzle)	73 - 96	db(A)
Atomiser air temperature	max. +50	°C
Atomiser air pressure	max. 0.8 / 8	MPa / bar

13.3 Dimensions

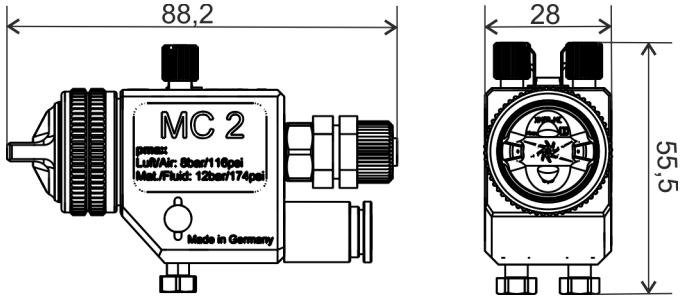


Fig. 6: Dimensions

14 Declaration of incorporation

Krautzberger

EC-installation explanation by machine guideline in 2006 / 42 / the EC appendix II 1st B

The manufacturer

Krautzberger GmbH
Stockbornstr. 13
65343 Eltville
Deutschland

hereby declares, that the following product

Product -/ Project name: Automatic Spray Gun MC 2
Article number:: 200-0459

to the following basic requirements of the guideline corresponds:
see appendix "list of the kept requirements after appendix I of the EC-machine guideline in 2006 / 42 / the EC"

The commissioning of this product is prohibited so long, until the machine or the layout in which this product should be installed or from which shows it a component, corresponds to the regulations of all relevant guidelines.

Followers harmonised norms were applied:

EN 1953:2013

EN ISO 12100:2010

The following national or international norms (or parts / clauses from it) and specifications were applied:

EN 13966-1

For the product the special technical bases were constructed according to appendix VII shares B, at reasonable desire these bases of a state place can be transmitted by post, e-mail, messenger.

Name and address of the person who is authorised to put together the technical documents

Andreas Lotz
c/o Krautzberger GmbH
Stockbornstr. 13
65343 Eltville
Deutschland

Place: Eltville am Rhein
Date: 25.08.2020

Jörg Blumrich(Head of Design/Development)

Seite **1** von **1**

Fig. 7: Declaration of incorporation

15 Notes

16 Index

A

Air distributor ring . . . 27
Air nozzle . . . 15, 27
Atomiser air . . . 18, 23

C

Cannula . . . 27
Cap nut . . . 15, 27
Cleaning . . . 26
Complete machine . . . 11
Components . . . 5, 15
Connection values . . . 33
Connections . . . 15, 18
Customer Care . . . 29
Customer service . . . 29

D

Declaration of incorporation . . . 34
Delivery . . . 14
Dimensions . . . 33
Disassembly . . . 32

F

Fault table . . . 28
Flat jet nozzle . . . 19

H

Health . . . 12

I

Installation drill hole . . . 18
Installation screws . . . 15, 18
Interval . . . 26
Item number . . . 5

M

Main element . . . 15, 27
Material inlet . . . 18
Material nozzle . . . 27
Material supply . . . 23
Materials . . . 5
Model plate . . . 5

N

Noise emission . . . 33

O

Overview 15
Owner 11

P

Personnel 8
Pictograms 6
Pressure specifications 33

R

Recycling 32
Regulators 15
Retaining bolt 18

S

Scope of delivery 5
Seal 27
Serial number 5
Service 29
Sound level 33
Sound pressure level 33
Storage 14
Symbols 6

T

Temperature specifications 33
Type 5

U

User qualification 8

W

Weight 33

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