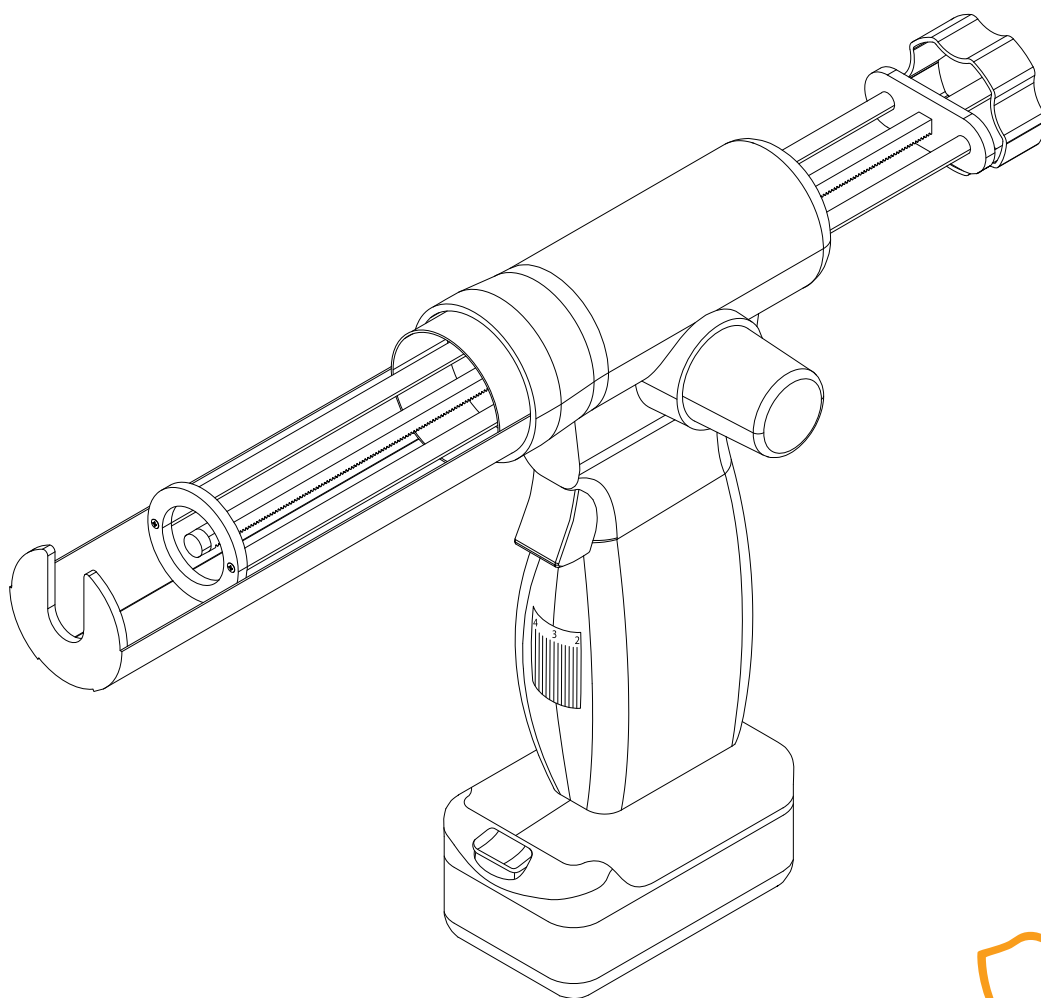




Operating instructions

FBS-PA2 battery-operated cartridge pistol

FBS-PA2 battery-operated cartridge pistol
Operating instructions

The manufacturer of the PowerMax® HPS-4C2-14.4 V Li-Ion battery-operated cartridge pistol is Soraton SA.

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1 About these instructions

1.1 Target group



These instructions are intended for specialists and/or instructed technical personnel (e.g. engineers, architects, heads of construction and mounting and installation engineers) charged with the use of the cartridge pistol.

1.2 Relevance of these instructions

Please read the instructions carefully before starting mounting. We will not accept any warranty claims for damage and liability caused through non-observance of these instructions.

Any images are intended merely as examples. Mounting results may look different.

All the documents supplied with the product must be stored in an easily accessible location, so as to be available when information is required. (Only for printed instructions)

1.3 Types of warning information



Type of risk!

Shows a risky situation. If the warning information is not observed, then medium or minor injuries may occur.

CAUTION

Type of risk!

Shows a risky situation. If the warning information is not observed, then damage to property may occur.

Note!

Indicates important information or assistance!

2 Intended use

High-quality, motor-operated FBS-PA2 2-component cartridge pistol to press out 5:1 coaxial cartridges.
Suitable for use with PYROSIT® NG fire protection foam, for example.

The hard-shell case contains a FBS-PA2 pistol, a charging device and a rechargeable battery.

3 Safety

3.1 General safety information

Observe the following general safety information:

- Contact with electrical current can lead to an electric shock.
- Avoid damage and improper use.
- Work in a concentrated manner. Working with the battery-operated cartridge pistol is dangerous when tired.
- Always keep the instructions in a legible and complete state in the deployment location of the battery-operated cartridge pistol. Before connecting the charging device, read the instructions carefully.
- Do not open the battery-operated cartridge pistol, battery and charging devices. If necessary, have them checked and repaired by the Service department. Improper assembly can cause electric shocks.
- There is the danger of fire, the risk of electric shocks or injuries to people if the stated instructions are not complied with.

3.1.1 General safety information on the battery-operated cartridge pistol

Observe the following general safety information:

- Only operate the battery-operated cartridge pistol in a perfect, functioning state.
- Risk of crushing from automatic feeding.
- Observe the weather conditions. Do not use the battery-operated cartridge pistol in rain, steam or high moisture levels in wet rooms.
- Protect the battery-operated cartridge pistol against electrical impulses.
- Keep the battery-operated cartridge pistol away from heat, moisture, oil and sharp objects.
- Check the battery-operated cartridge pistol for damage before every use.
- When not being used: Store the battery-operated cartridge pistol in a dry place, locked away and out of the reach of children.
- In particular, check all the parts for movement, breakage, blockage, damage or other influences, which could negatively affect the functionality of the battery-operated cartridge pistol.
- Defective parts may only be changed by the specialist personnel before the battery-operated cartridge pistol is used, in accordance with the instructions.

- Only the Service personnel may replace the electrical contacts on the battery-operated cartridge pistol.
- Before exchanging defective parts, ensure that the battery-operated cartridge pistol has been switched off and that it is not connected to an energy source.

3.1.2 General safety information on the charging device

Observe the following general safety information:

- Protect charging devices against rain and strong moisture.
- To protect the cable on the charging device, always pull the cable out of the socket using the plug.
- Prevent people from having to step over cables and charging devices or stumbling blocks from standing around.
- Always replace defective cables and plugs on the charging device immediately and do not connect them to the power network.
- Charging devices damaged by overcharging, knocks or other mechanical impacts must be checked by the Service department.
- Cleaning of the charging device can cause electric shocks. Always pull plugs out of the socket.
- Only use original batteries.
- Only use the battery charger supplied with the battery. Other battery chargers can cause the destruction of the battery and the charging device.

3.2 Personal protective equipment

List of personal protective equipment to be used:



Use hand protection



Wear eye protection

4 Product overview

4.1 Product description

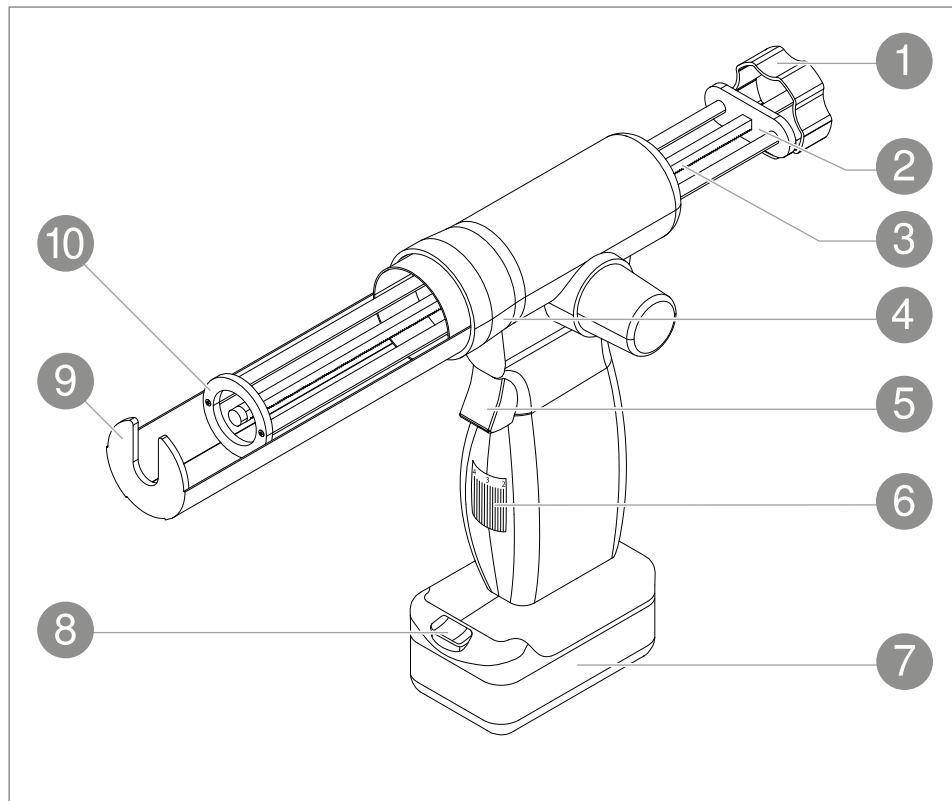
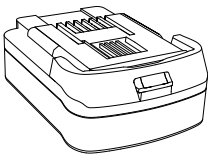


Abb. 1: Product description

- ① Retraction knob
- ② Yoke
- ③ Toothed rack
- ④ Battery-operated cartridge pistol
- ⑤ Main switch
- ⑥ Speed controller
- ⑦ Battery
- ⑧ Locking clip
- ⑨ Cartridge holder
- ⑩ Pressing piston

4.2 **Accessories**

Designation	Figure	Function	Item no.
Battery EA 3-14		Battery for motor-operated cartridge pistol FBS-PA2.	7203816

Tab. 1: Accessories

5 Using the battery-operated cartridge pistol

5.1 Using the battery

5.1.1 Removing the battery

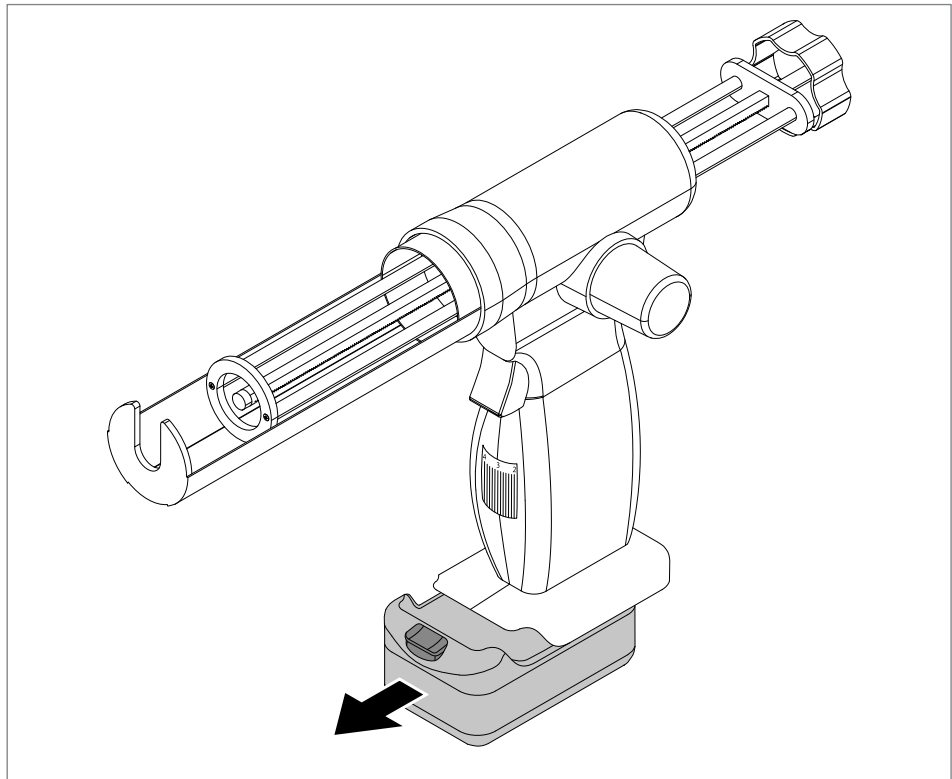


Abb. 2: Removing the battery

1. Switching off the battery-operated cartridge pistol ④.
2. Keep the locking clip ⑧ pressed and pull the battery ⑦ out of the battery-operated cartridge pistol ④.

5.1.2 Charging the battery

ATTENTION

Risk of overheating with incorrect mains voltage!

Excess voltage can cause overheating and destruction of the internal electrical system. The rated voltage of the battery must match the specifications on the battery-operated cartridge pistol. The voltage of the mains network must match the mains voltage stated on the type plate of the charging device.

Information on charging the battery:

- If the battery is too hot or too cold, then the charging device will not begin charging the battery. If the battery temperature is between 0 and 50 °C, then the charging device will automatically commence the charging operation.
- Do not charge the battery at temperatures below 10 °C or above 40 °C.
- If the battery has been stored at temperatures below 5 °C, then warm

- up the battery in a room with a room temperature of above 10 °C.
- Between charging operations, let the charging device cool down for approx. 1 hour.
- Charge the battery in a well-ventilated room. Not in a box or any other container.
- Do not leave the battery unused for a long period of time. Charge the battery every 3 to 6 months.
- Before storage, bring the charging state up from 40 to 80%.
- Do not use a generator to charge the battery.

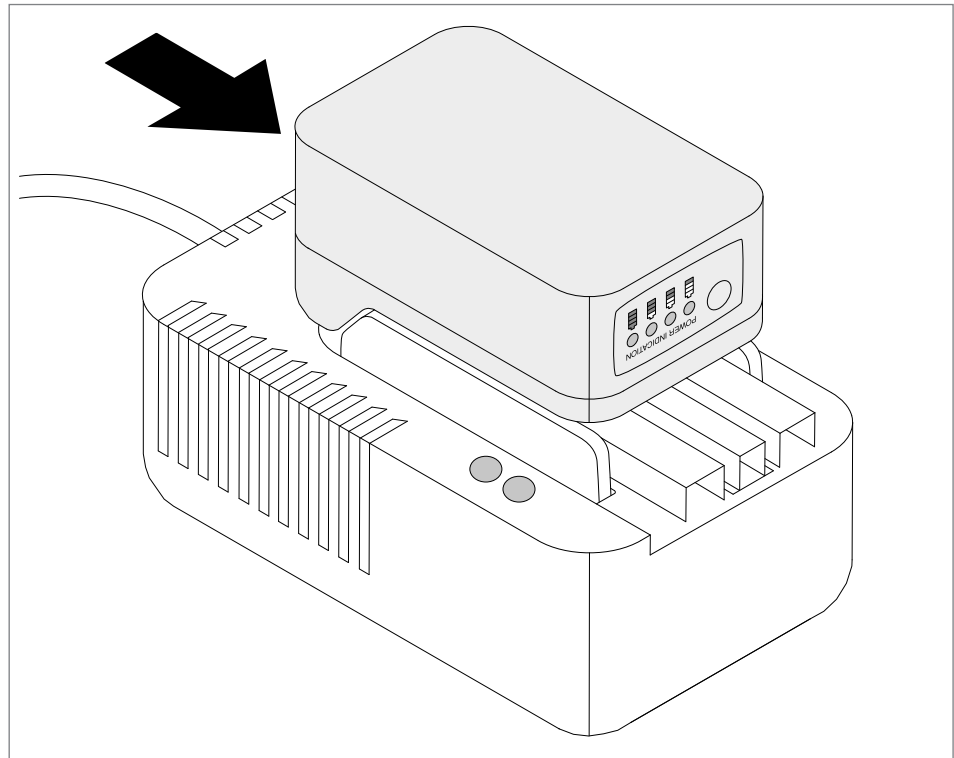


Abb. 3: Charging the battery

1. Connect the charging device to the current source.
2. Move the battery guide ⑦ into a line with the guide of the charging device.
3. Keep the locking ⑧ on the battery ⑦ pressed. Push the battery ⑦ onto the charging device until it engages.
4. After completing charging, remove the battery ⑦ from the charging device.
5. Disconnect the charging device.

5.1.2.1 LED display of the charging device

ATTENTION

Risk of overheating with incorrect mains voltage!

The charging device is suitable for a mains voltage of 100–240 V/50–60 Hz. Excess voltage can cause overheating and destruction of the internal electrical system. The voltage of the mains network must match the stated mains voltage.

Note!

If there is a battery fault, contact the manufacturer.

LED display	Meaning
Green light flashes slowly	Device is ready to function
Red continuous light	Low battery level/charging operation
Green light flashes quickly	Battery is 80% charged
Green continuous light	Battery is fully charged
Red light flashes slowly	Battery is too hot or too cold
Red and green continuous light	Battery fault

Tab. 2: Meaning of the LED display of the charging device

5.1.2.2 LED display of the battery

The battery has a button and a 4-level LED display, in order to display the remaining battery power or the temperature conditions.

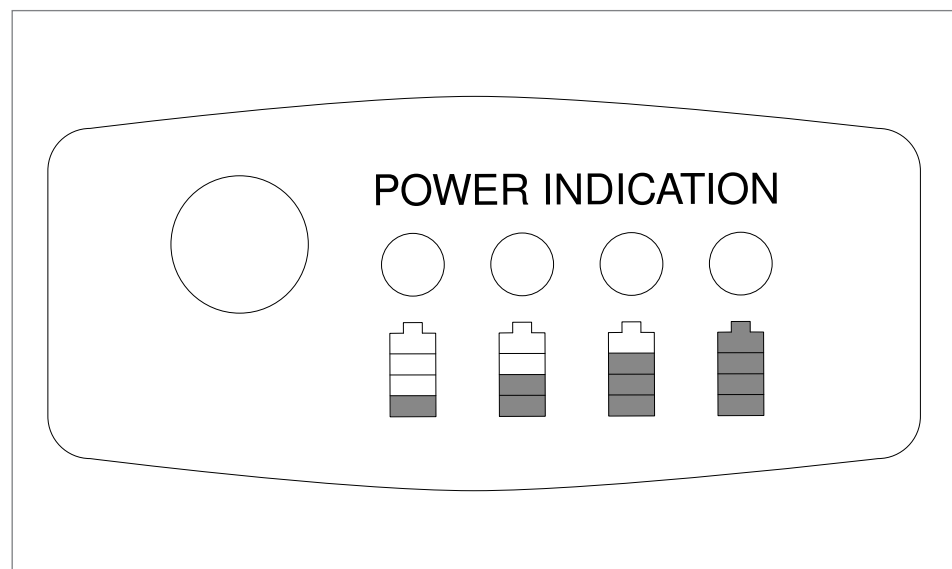


Abb. 4: LED display

1. Press the button for 3 seconds to display the remaining battery power or temperature conditions.

LED display	Meaning
LED 1 is green	0–25% battery power remaining
LEDs 1, 2 are green	26–50% battery power remaining
LEDs 1, 2, 3 are green	51–75% battery power remaining
LEDs 1, 2, 3, 4 are green	76–100% battery power remaining

LED display	Meaning
LED 1 flashes green (0.25 sec.)	Battery is completely discharged
LEDs 1, 2, 3, 4 flash green (0.5 sec.)	Excess temperature

Tab. 3: Meaning of the LED display of the battery

5.1.3 Attaching the battery

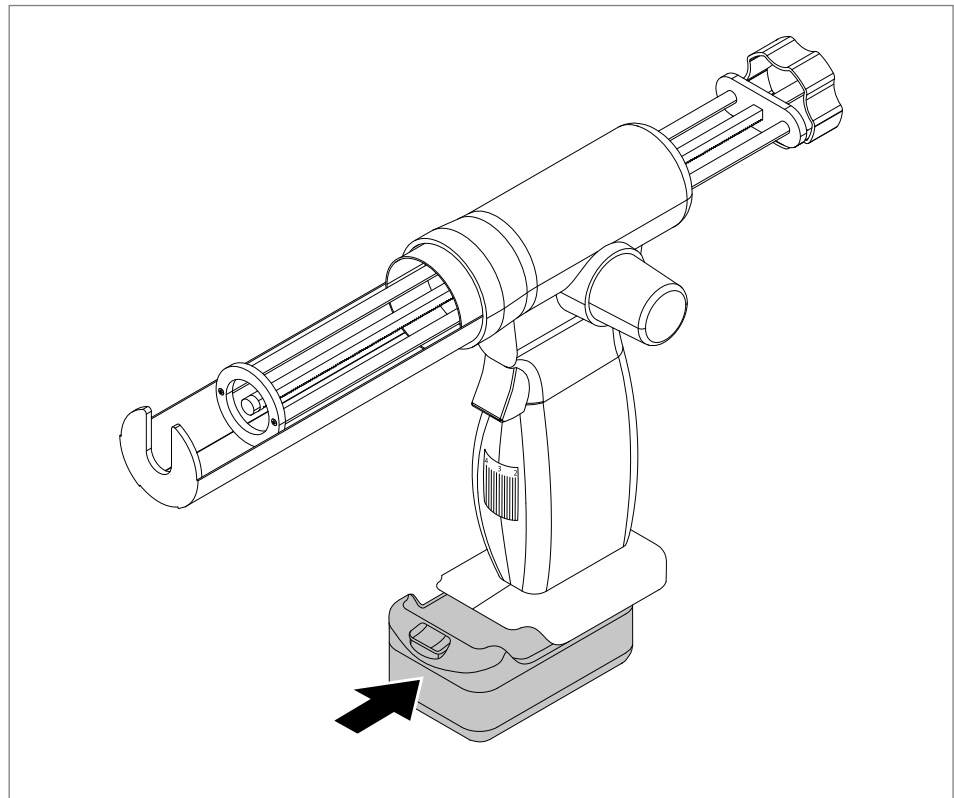


Abb. 5: Attaching the battery

1. Move the guide of the battery-operated cartridge pistol ④ into a line with the guide of the battery ⑦.
2. Keep the locking ⑧ on the battery ⑦ pressed. Push the battery ⑦ onto the battery-operated charging pistol ④ until it engages.

5.1.4 Storing the battery

The batteries are sensitive to high temperatures and should be kept in a cool, dry place, away from direct sunlight. Ideally, the batteries should be stored at temperatures lower than 25 °C.

5.2 Inserting the cartridge



Danger of crushing!

Risk of crushing through moving battery-operated cartridge pistol sections. When the battery-operated cartridge pistol is running, do not reach

into the toothed rack.

Note! *Only use 5:1 coaxial cartridges of the correct size.*

Note! *Observe the use-by date of the cartridge. Expired cartridges should be disposed of according to regulations.*

Note! *Observe and comply with the data of the chemical manufacturer regarding the application and processing temperature. This avoids the overloading of the battery-operated cartridge pistol.*

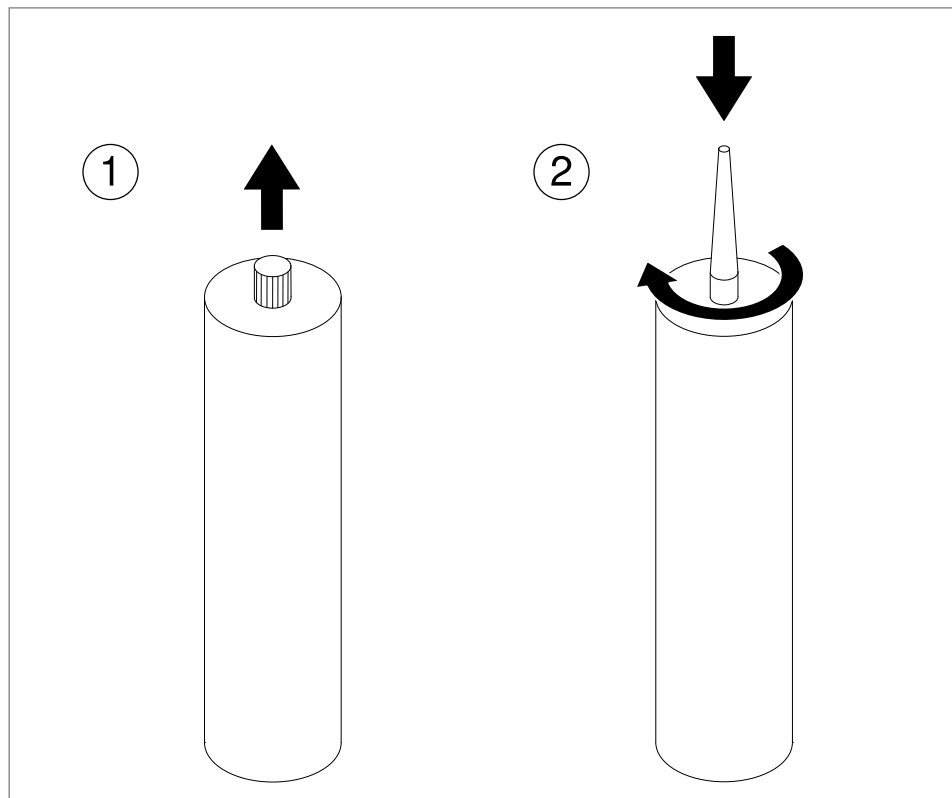


Abb. 6: Place the mixer pipe on the cartridge

1. Hold and open the cartridge in a vertical position.

CAUTION

Risk of damage!

When working with blocked mixer pipes, overpressures are possible. This means that the cartridges can burst, causing damage. Only use unused mixer pipes. The mixer pipe must also be replaced after interruptions to work, as the chemical dries very quickly.

Note! *Only use the mixer pipes supplier with the cartridges.*

2. Screw the mixing tube to the cartridge.

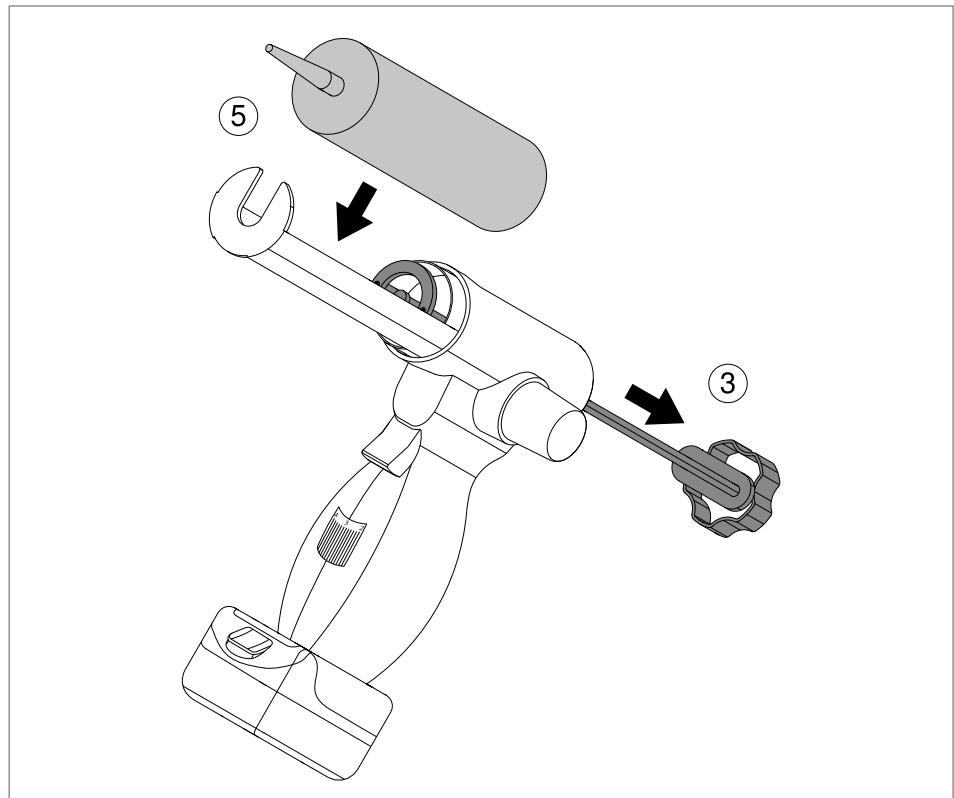


Abb. 7: Inserting the cartridge

3. Pull the toothed rack ③ back using the retraction knob ①.
4. Tilt the battery-operated cartridge pistol ④ slightly.

Note!

Leave the cartridge in as upright a position as possible until directly before pressing out, in order to avoid unnecessary run-out of the cartridge contents.

5. Insert the cartridge into the cartridge holder ⑨ in as upright a position as possible. The mixer tube tip must point upwards.

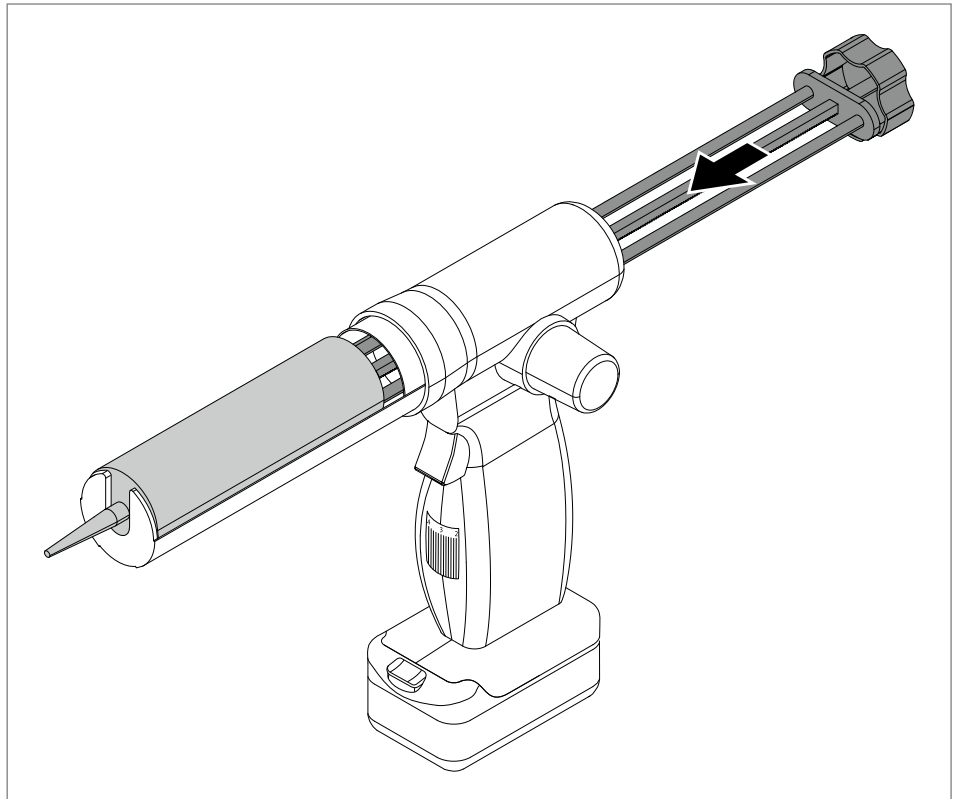


Abb. 8: Locking the cartridge

6. Push the toothed rack ③ forwards. Push the pressing piston ⑩ lightly into the cartridge up to the stop.
7. Hold the battery-operated cartridge pistol ④ with one hand on the cartridge holder ⑨ and hold the handle with the other hand.

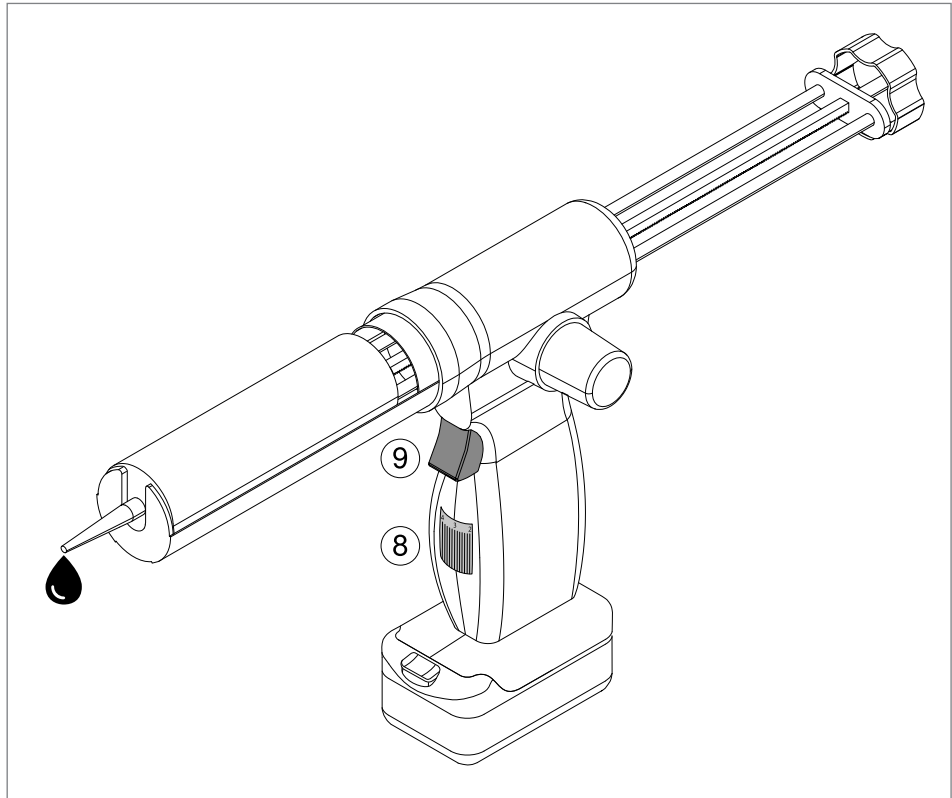


Abb. 9: Pressing out a cartridge

Note! *Initially, begin with a small speed, in order to avoid an overload of the motor and unnecessary injection of the cartridge contents.*

8. Adjust the pressing speed with the speed controller ⑥.

Note! *For safe processing, observe the instructions on the cartridge.*

Note! *Only when the colour is homogeneous are the contents of the cartridge usable.*

9. Press the main switch ⑤. The pressing out of the cartridge begins.

10. Release the main switch ⑤. The rack ③ runs backwards automatically for a few seconds. This serves to relieve the pressure created in the interior of the cartridge.

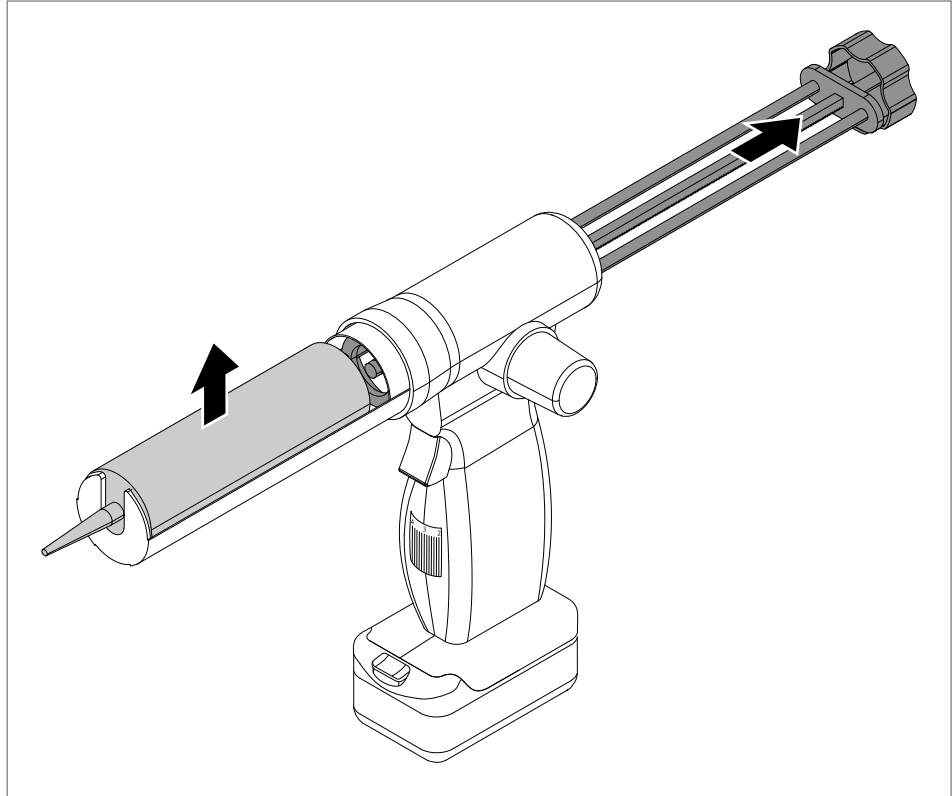


Abb. 10: Removing the cartridge

Note! *During longer interruptions to work, close the cartridge again if possible, remove it from the cartridge pistol and de-tension the mechanics of the battery-operated cartridge pistol.*

Note! *Remove the cartridge when the cartridge is empty of work has been completed.*

11. Pull back the retraction knob ① and remove the cartridge from the battery-operated cartridge pistol ④.

6 Cleaning the battery-operated cartridge pistol

Free the moving parts, push rods and pressure plate from any foam residues and maintain them with a re-greasing cleaning agent.

A soft cloth and soapy water are sufficient to clean the battery-operated cartridge pistol.

The following agents may not be used for cleaning:

- Petrol
- Thinner
- Tetrachloride
- Alcohol
- Ammoniac
- Chlorinated acids
- Oils

7 Storing the battery-operated cartridge pistol

Before storage, bring the charging state up from 40 to 80%.

Store the battery and charging device in a cool and dry place, away from direct sunlight. Ideally, store the batteries at more than 5 °C and less than 25 °C.

Store the battery-operated cartridge pistol in dry rooms with a room temperature below 50 °C, locked away and out of the reach of children.

8 Disposing of the battery-operated cartridge pistol

Comply with the local waste disposal regulations.

- Battery-operated cartridge pistol: According to the manufacturer's regulations
- Packaging: As household waste

9 Technical data

FBS-PA2 battery-operated cartridge pistol	
Application	380 ml 5:1 coaxial cartridges
Battery	14.4 V 3.0 A H/Li-Ion rechargeable battery
Pressing force	Up to 7,500 N (in continuous operation)
Feed speed	Controllable between 100–240 mm/min
Return flow	The return flow prevents the cartridge from overflowing.
Weight (net)	3.1 kg
Charging time	40 min
Battery charge	One charge is sufficient to press out approx. 15 cartridges at a room temperature of approx. 20 °C.

Tab. 2: Technical data

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