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- › [Seesii](#) /
- › [Seesii SE-223 Capacitor Spot Welder Instruction Manual](#)

## Seesii SE-223

# Seesii SE-223 Capacitor Spot Welder Instruction Manual

Model: SE-223

## 1. INTRODUCTION

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Thank you for choosing the Seesii SE-223 Capacitor Spot Welder. This device is designed for precise spot welding of battery packs, nickel strips, and other electronic components. It features a supercapacitor energy storage system, adjustable power levels, and dual operating modes for versatile use. Please read this manual thoroughly before operation to ensure safe and efficient use of the product.

## 2. SAFETY INSTRUCTIONS

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- Always wear appropriate personal protective equipment, including safety glasses and gloves, when operating the spot welder.
- Ensure the work area is well-ventilated and free from flammable materials.
- Do not operate the device in wet conditions or expose it to rain.
- Keep children and unauthorized personnel away from the operating area.
- Disconnect the power supply before performing any maintenance or cleaning.
- Do not attempt to disassemble or modify the spot welder. Refer all servicing to qualified personnel.
- Ensure proper polarity when connecting batteries or components to be welded. Incorrect polarity can cause damage or injury.
- Avoid touching the welding electrodes or the workpiece immediately after welding, as they may be hot.

## 3. PACKAGE CONTENTS

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Verify that all items listed below are included in your package:

- 1 x Seesii SE-223 Spot Welder
- 1 x Sandpaper
- 1 x USB-C Cable
- 2 x Rolls of Nickel Sheet (0.15 x 5 m)
- 2 x Spare Welding Pen Needles
- 1 x Instruction Manual

- 1 x Power Adapter
- 2 x Welding Pens
- 4 x Anti-slip Pads
- 1 x Foot Pedal



Image: Overview of the Seesii SE-223 Spot Welder and its included accessories, such as the main unit, welding pens, nickel strips, and power adapter.

## 4. PRODUCT OVERVIEW

The Seesii SE-223 features a robust design with an aviation aluminum alloy casing. It incorporates a 4.57 cm (1.8 inch) TFT LCD screen for clear display of parameters and welding status. The device is equipped with dual supercapacitors providing up to 3000F capacity and a maximum output of 1400A.

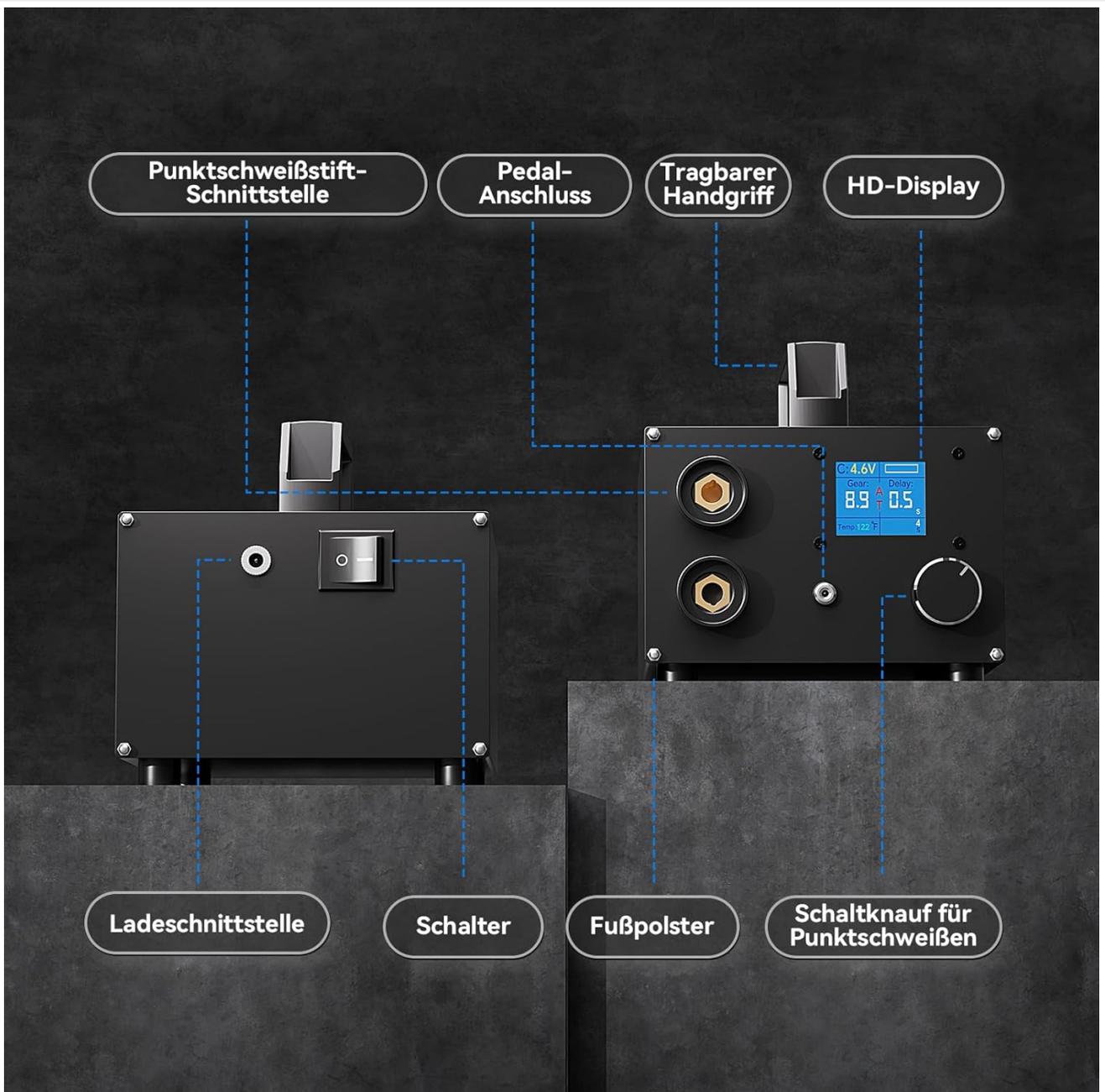


Image: Diagram illustrating the various interfaces and components of the Seesii SE-223 Spot Welder, including welding pen ports, pedal connection, charging port, power switch, and display.

# 1,8 Zoll TFT LCD Bildschirm

Klare Parameter, Schweißstatus auf einen Blick



Image: Close-up view of the 1.8-inch TFT LCD screen on the Seesii SE-223 Spot Welder, showing welding parameters like voltage, gear setting, and delay time.

## 5. SETUP

- Unpacking:** Carefully remove all components from the packaging.
- Placement:** Place the spot welder on a stable, flat, and non-flammable surface.
- Connect Welding Pens:** Insert the welding pens into the designated ports on the front of the main unit. Ensure a secure connection.
- Connect Foot Pedal (Optional):** If using the foot pedal mode, connect the foot pedal to its designated port.
- Power Connection:** Connect the power adapter to the charging interface on the spot welder and then plug it into a 220V AC power outlet. The device will begin charging its internal capacitors.
- Power On:** Press the power switch to turn on the device. The LCD screen will illuminate.

## 6. OPERATING INSTRUCTIONS

### 6.1 Power Adjustment

The Seesii SE-223 offers 250 levels of adjustable power output. Rotate the power regulation knob on the front panel to select the desired welding gear (1-250). Higher numbers indicate higher welding power. Adjust the power based on the thickness of the nickel strip and the battery material. For optimal results, start with a lower setting and gradually increase until a strong weld is achieved.



Image: The power regulation knob on the Seesii SE-223 Spot Welder, indicating 250 adjustable power levels for precise welding control.

## 6.2 Welding Modes

The device supports two operating modes: Automatic Mode and Foot Pedal Mode. You can switch between these modes based on your preference and application requirements.

- **Automatic Mode:** In this mode, the welder automatically detects contact between the welding needles and the nickel strip, then initiates a welding pulse. This mode is suitable for quick and repetitive welding tasks.
- **Foot Pedal Mode:** When the foot pedal is connected, welding pulses are triggered by pressing the pedal. This provides more precise control over the welding timing, which can be beneficial for intricate work.

# Umschalten zwischen Auto-Modus und Pedal-Modus

Automatik und Pedal können frei geschaltet werden, diese Option kann verschiedene Bedürfnisse erfüllen

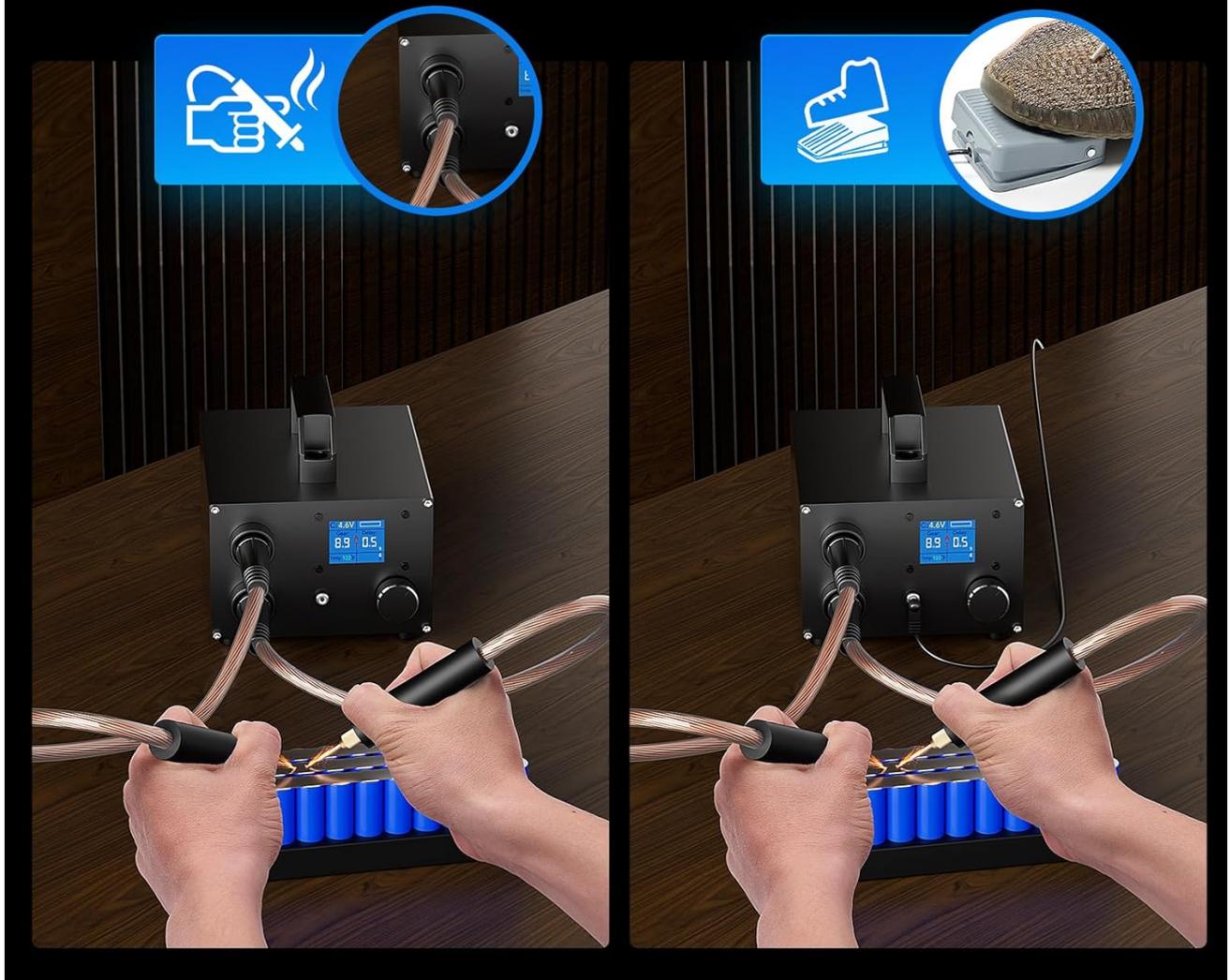


Image: Comparison showing the setup for Automatic Mode (left) where welding occurs upon contact, and Foot Pedal Mode (right) where a foot switch triggers the weld.

## 6.3 Welding Process

- 1. Prepare Materials:** Ensure the nickel strip and battery terminals are clean and free of oxidation. Use the included sandpaper if necessary.
- 2. Set Power:** Adjust the power level using the knob according to the nickel strip thickness. The welder can handle nickel strips up to 0.25 mm thick, with a maximum welding capacity of 0.3 mm for practical strips and 0.15 mm for pure nickel foil.
- 3. Position:** Place the nickel strip firmly against the battery terminal. Position the two welding needles onto the nickel strip, ensuring good contact and even pressure.
- 4. Weld:**
  - In Automatic Mode, the weld will occur automatically upon firm contact.
  - In Foot Pedal Mode, press the foot pedal to initiate the weld.
- 5. Inspect Weld:** After welding, gently test the connection to ensure a strong bond. Adjust power settings if the weld is too weak or too strong.

# 0,1-0,3mm Mikroschweißen

Detaillierte Farbgebung, perfekte Schweißergebnisse

18650 BAT ✓

26650 BAT ✓

32650 BAT ✓

NIMH ✓

Ni/Cd ✓

0,1mm

0,2mm

0,3mm



Image: Illustration demonstrating the micro-welding capability of the Seesii SE-223 Spot Welder, showing different nickel strip thicknesses (0.1mm, 0.2mm, 0.3mm) and compatible battery types.

# Dual Farad Punktschweißgerät

Stärkeres und sichereres Schweißen



Image: A user demonstrating the operation of the Seesii SE-223 Spot Welder, holding the welding pens to join nickel strips to battery cells.

## 7. MAINTENANCE

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- **Cleaning:** Regularly clean the welding needles and the main unit with a dry, soft cloth. Ensure no metal dust or debris accumulates around the welding points.
- **Needle Replacement:** The welding needles are consumable parts. Replace them when they become worn or pitted to ensure consistent weld quality. The package includes spare needles.

# 20 Zoll Goldplattenterminal Schweißstift

Ausgestattet mit 4 Stück Schweißnadeln



Auswechselbare Lötstifte

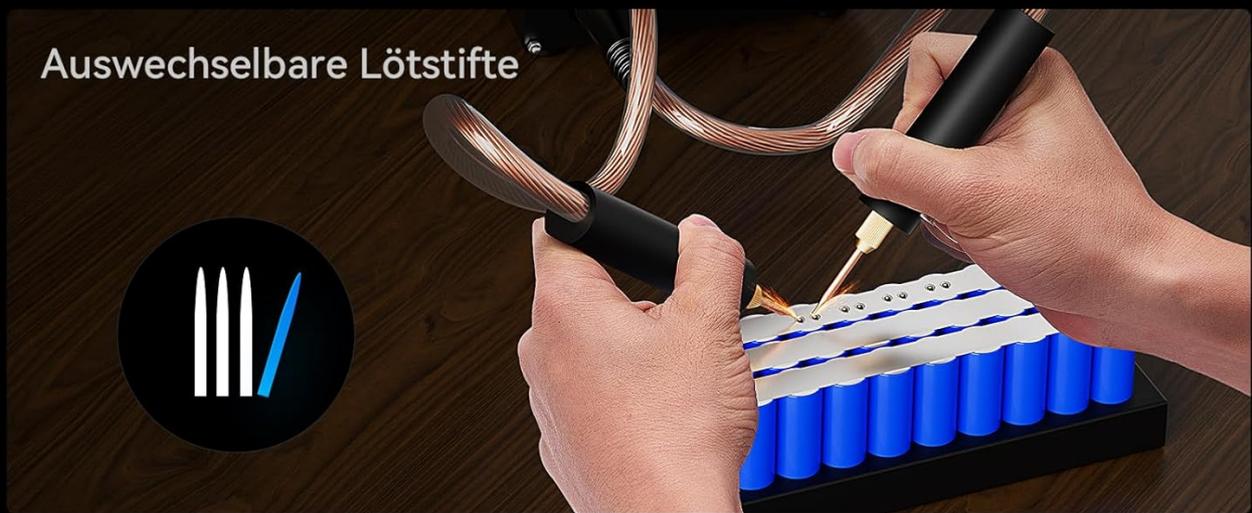


Image: Close-up of the welding pen, showing how the welding needles can be replaced when worn, ensuring continued performance.

- **Storage:** Store the spot welder in a cool, dry place, away from direct sunlight and moisture, when not in use.
- **Capacitor Protection:** The built-in current compensation circuit helps protect the capacitors by ensuring balanced voltage. The intelligent fan control system prolongs bearing life by stopping the fan when the capacitors are fully charged.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Weak or inconsistent welds	Incorrect power setting; dirty or worn welding needles; poor contact with workpiece; loose cable connections.	Increase power setting; clean or replace welding needles; ensure firm and even pressure; check welding pen cable connections.

Problem	Possible Cause	Solution
No welding pulse	Device not powered on; capacitors not charged; foot pedal not connected/faulty (in pedal mode); poor contact (in auto mode).	Ensure power is on and capacitors are charged; check foot pedal connection; ensure firm contact with workpiece.
Display error or malfunction	Internal fault; loose connection.	Turn off the device, wait a few minutes, then restart. If the problem persists, contact customer support.
Overheating	Continuous heavy use.	Allow the device to cool down. The intelligent fan control will manage temperature during operation.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	SE-223
Manufacturer	SEESII
Power Source	AC
Voltage	220 Volts
Capacitor Capacity	Up to 3000 F
Maximum Output Current	1400 A
Adjustable Power Levels	1 - 250 gears
Welding Thickness (Nickel Strip)	0.1 - 0.3 mm (practical strips up to 0.25 mm, pure nickel foil up to 0.15 mm)
Display	4.57 cm (1.8 inch) TFT LCD
Product Weight	3.21 kg
Package Dimensions	25.5 x 22.3 x 21.7 cm

## 10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the seller or manufacturer directly. Retain your proof of purchase for any warranty claims. Please refer to the contact information provided with your purchase or visit the official Seesii website for further assistance.