

[Manuals.plus](#) /

› [AWithZ](#) /

› AWithZ H5 Battery Spot Welder Instruction Manual

AWithZ H5

AWithZ H5 Battery Spot Welder Instruction Manual

Model: H5

1. INTRODUCTION

The AWithZ H5 is an upgraded, portable battery spot welder designed for efficient and precise welding of various battery types and thin metal sheets. Its integrated design combines the power supply and welding pen into a single unit, facilitating one-handed operation. This manual provides essential information for the safe and effective use of your H5 spot welder.



The AWWithZ H5 Battery Spot Welder, featuring an integrated design, is shown alongside its accessories: nickel-plated sheet, charging cable, and replaceable welding tips. The OLED display interface is also visible.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, including safety glasses, when operating the spot welder.
- Ensure the work area is well-ventilated and free from flammable materials.
- Do not operate the device if it is damaged or malfunctioning.
- Avoid touching the welding tips immediately after use, as they may be hot.
- The device features a built-in temperature detector. If the internal temperature reaches 60°C, the unit will automatically shut down to prevent overheating. Allow it to cool before resuming operation.
- Do not attempt to weld materials thicker than specified in the operating instructions.
- Keep the device away from children and unauthorized personnel.
- Ensure the spot welder is cooled down before charging to prevent potential damage.



This image displays the H5's comprehensive safety features, including quality battery cells, anti-impact protection, voltage stabilization, short circuit protection, low/high temperature protection, overcharge, and over-discharge protection.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- AWWithZ H5 Spot Welder Unit
- 2M Nickel-plated Sheet
- USB Type-C Charging Cable
- One Pair of Replaceable Welding Tips
- Sandpaper

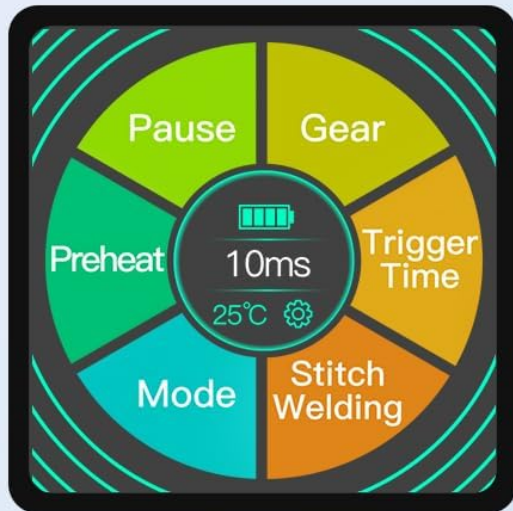
4. PRODUCT OVERVIEW

The H5 spot welder features an integrated design for ease of use. It includes a minimalist OLED display for settings and status, and two control buttons for operation.

4.1 Components and Controls

Compact & comfortable design

Great for battery repairs and rebuilds



**1.5inch
colour screen**

**99 Level/Continuous
Tap/Trigger/Mode**

**Multi-language
support**



H5

Size: 182*47.5*31.4mm
Weight: About 150g
Capacity: 5000mAh



H1

Size: 165*43*25mm
Weight: About 128g
Capacity: 1800mAh

A diagram illustrating the various ports and controls of the H5 spot welder, including the Type-C charging port, ON/OFF/Option Toggle Key, Adjustment Key, Trigger Button, and Fixing Screw for the spot welding pen.

- **Display Screen:** 1.5-inch color OLED display for viewing settings and status.
- **Adjustment Key:** Used to navigate menus and adjust parameters.
- **ON/OFF/Option Toggle Key:** Powers the device on/off and selects options.
- **Trigger Button:** Activates welding in Manual mode.
- **Spot Welding Pen:** Integrated welding electrodes.
- **Fixing Screw:** Secures the welding tips and allows for adjustment/replacement.
- **Type-C Charging Port:** For charging the internal battery.

2 Welding modes

Great for battery repairs and rebuilds



The image provides detailed dimensions of the H5 spot welder (182mm length, 47.5mm width) and highlights its 1.5-inch color screen, 99-level adjustment, and multi-language support.

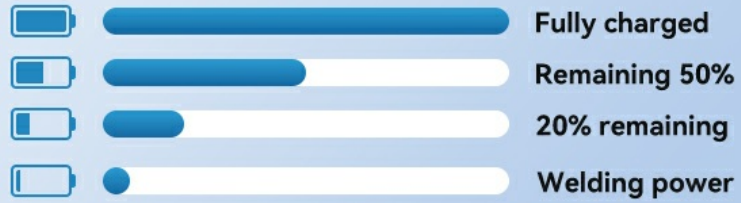
5. SETUP

5.1 Initial Charging

Before first use, fully charge the H5 spot welder using the provided USB Type-C cable and a compatible power adapter (not included). The display will indicate charging status. Ensure the device is cool before charging.



Precautions (charging+maintenance)



Please note that the spot welder must be cooled down before charging it, if not, the spot welder may be damaged.

This image displays battery charge level indicators and a crucial precaution: the spot welder must be cooled down before charging to prevent damage. It shows a USB-C cable connected for charging.

5.2 Adjusting/Replacing Welding Tips

The welding tips can be adjusted for wide or narrow spacing, or replaced if worn. Follow these steps:

1. Loosen the fixing screw counterclockwise.
2. Carefully pull out the spot welding tips using a tool if necessary.
3. Insert new tips or adjust the existing ones to the desired spacing (wide or narrow).
4. Tighten the fixing screw clockwise to secure the tips.

CAPACITY **Handheld** Mini Portable Spot Welder



A step-by-step guide demonstrates how to loosen the screw, pull out the old welding tips, adjust the welding spacing (wide or narrow), and tighten the screw for the replaceable spot welding needles on the H5 unit.

5.3 Language Selection

Upon first power-on or if needed, you can select your preferred language from the device's menu. Use the Adjustment Key to navigate and the ON/OFF/Option Toggle Key to confirm.



A visual representation of the H5's multi-language user interface, showing options for English, Japanese, German, Italian, French, Spanish, Dutch, and Russian.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- To power on, press and hold the ON/OFF/Option Toggle Key.
- To power off, press and hold the ON/OFF/Option Toggle Key again. The device may also have an automatic power-off setting configurable in the menu.

6.2 Navigating the Display and Settings

The OLED display provides access to various settings. Use the Adjustment Key to scroll through options and the ON/OFF/Option Toggle Key to select or confirm. Available settings include:

- **Temperature Display:** Shows the internal temperature of the device.
- **Mode Selection:** Choose between Automatic and Manual welding modes.
- **Preheat Time:** Adjust the preheating duration.
- **Trigger Time:** Set the welding pulse duration (0.5ms to 5ms).
- **Power Level (Gear):** Select from 99 adjustable power levels.
- **Language:** Change the display language.
- **Sound:** Toggle sound alerts on or off.
- **Display Brightness:** Adjust screen brightness.
- **Automatic Power Off:** Set the inactivity time before the device powers off.

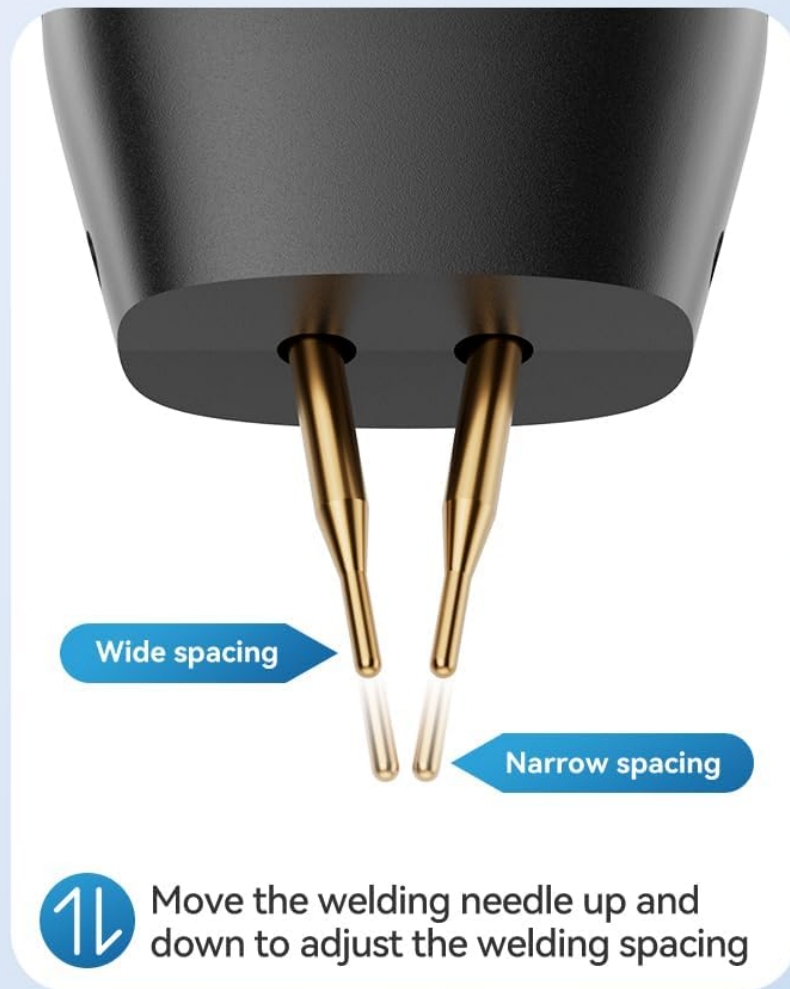
6.3 Welding Modes

The H5 offers two welding modes:

- **Automatic Mode:** For fast and simple welding. The device detects contact with both probes and automatically triggers the weld after a pre-set delay.
- **Manual Mode:** Provides controlled and independent welding. The weld is triggered by pressing the Trigger Button after positioning the welding tips.

Upgrade-Replaceable Spot Welding Needle

0.8mm–Welding spot distance,
Faster make battery packs



Loosen the screw
counterclockwise



Pull out the spot
welding tips with a tool



Tighten the screw
clockwise

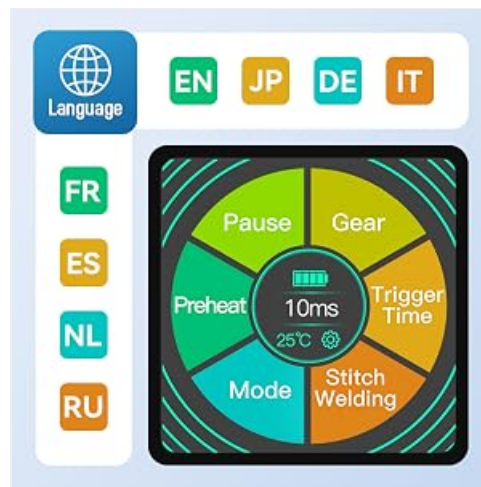
This visual compares the two welding modes: Automatic for fast and simple welding, and Manual mode, which uses a trigger key for controlled and independent welding, suitable for battery repairs and rebuilds.

6.4 Welding Process

1. Prepare the surfaces to be welded. Ensure they are clean and free of oxidation. Use the included sandpaper if necessary.
2. Select the appropriate welding mode (Automatic or Manual) and adjust the power level (Gear), preheat time, and trigger time based on the material thickness and type. Start with lower settings and increase gradually if needed.
3. Position the welding tips firmly and squarely on the nickel strip and battery terminal. Apply consistent pressure.
4. In Automatic mode, hold the tips in place until the weld triggers. In Manual mode, press the Trigger Button once the tips are firmly positioned.
5. After each weld, inspect the joint for strength and consistency. Adjust settings as needed.



This graphic explains the continuous spot welding feature, supporting 0.1-0.4mm thickness with 99 gear adjustments, demonstrating how multiple welds can be applied in sequence ('Stitch Welding').



Illustrates the adjustable trigger time feature (0.5 to 5ms) for precise welding control, showing the welding process on different materials.

6.5 Applicable Materials and Thicknesses

The H5 spot welder is suitable for:

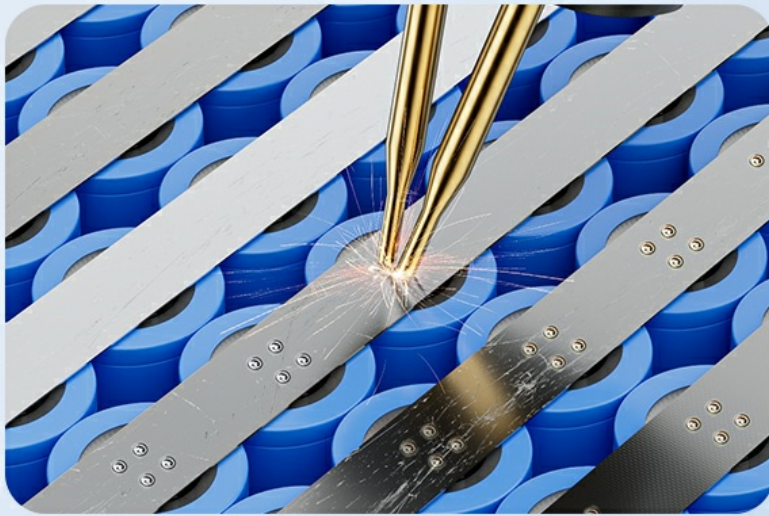
- Cylindrical lithium batteries (e.g., 18650, 21700, 26650, 32650)
- Cell phone batteries
- Button batteries
- Nickel-metal hydride batteries
- Nickel-cadmium batteries

It supports welding of various thin metal sheets:

- Nickel-plated sheet: up to 0.3mm (MAX)
- Pure Nickel: up to 0.25mm (MAX)
- Stainless Steel: up to 0.4mm (MAX)
- Ferrous Metal: up to 0.4mm (MAX)

Increase battery capacity by 60%, improve welding effect by 40%

Supports welding of most type materials



Nickel plated 0.3mm (MAX)

Stainless steel 0.4mm (MAX)

Ferrous metal 0.4mm (MAX)

Pure nickel 0.25mm (MAX)

This image highlights the H5's capability to weld various materials, including nickel-plated (0.3mm MAX), stainless steel (0.4mm MAX), ferrous metal (0.4mm MAX), and pure nickel (0.25mm MAX), noting improvements in battery capacity and welding effect.

AWithZ

Handheld Series H5 Battery spot welder

Battery capacity:

5000mAh

Output current:

1020A max

Output voltage:

4.2V max

Weld pure nickel



This image showcases the versatile applications of the H5 Handheld Spot Welder, including welding power batteries, Li-Polymer batteries, cylindrical batteries, and various metal parts, emphasizing its all-in-one design.

7. MAINTENANCE

- **Cleaning:** Regularly clean the welding tips and the device body with a dry, soft cloth. Ensure no debris obstructs the welding tips or ventilation areas.

- **Tip Replacement:** Replace welding tips when they become worn or pitted to ensure consistent weld quality. Refer to Section 5.2 for instructions.
- **Storage:** Store the spot welder in a cool, dry place away from direct sunlight and moisture.
- **Battery Care:** For long-term storage, charge the internal battery to approximately 50% to prolong its lifespan. Avoid fully discharging the battery for extended periods.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on	Low battery; Device malfunction	Charge the device fully; Contact customer support if issue persists.
Poor weld quality (weak, inconsistent)	Incorrect power settings; Dirty/worn tips; Insufficient pressure; Material too thick	Adjust power level (Gear) and trigger time; Clean or replace welding tips; Apply firm, consistent pressure; Ensure material is within specified thickness limits.
Device automatically shuts down	Overheating (internal temperature > 60°C)	Allow the device to cool down completely before resuming operation. Avoid prolonged continuous use.
Display shows incorrect language	Language setting changed	Navigate to the language settings in the menu and select your preferred language.

9. SPECIFICATIONS

Feature	Detail
Model	H5
Brand	AWithZ
Battery Capacity	5000mAh Lithium Polymer
Output Voltage	4.2V (Max)
Output Current	1020A (Max)
Welding Thickness	0.1-0.3mm (general), up to 0.2mm (pure nickel)
Adjustable Levels	99 Gear Adjustment
Display	1.5-inch Color OLED
Charging Port	USB Type-C
Item Weight	13.7 ounces (approx. 388g)
Dimensions	9.13 x 3.46 x 1.54 inches (Package)
Special Features	Portable, Dual Pulse Output, 7-Language UI, Integrated Design

Enhanced - High Capacity Battery Spot Welder

Built-in surging power battery,
provide sufficient power



Output voltage:

4.2V

Output current:

1020A

5000mAh

Charging time: 3 hours

****Cool down before charging the device****

An exploded view of the H5 spot welder reveals its internal components, including the 5000mAh battery, circuit board, and cooling elements. Key specifications like 4.2V output voltage and 1020A output current are displayed.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact AWithZ customer service directly. Contact details can typically be found on the manufacturer's official website or on the product packaging.