

# AWithZ 9000W Battery Spot Welder UK1 Instruction Manual

Model: UK1

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## 1. INTRODUCTION

Thank you for purchasing the AWithZ 9000W Battery Spot Welder UK1. This portable spot welding machine is designed for DIY battery pack creation and various welding tasks, offering precise control and safety features. Please read this manual thoroughly before use to ensure safe and optimal operation.



Image: AWithZ 9000W Battery Spot Welder UK1, showcasing its compact design.

## 2. SAFETY INFORMATION

**WARNING: Improper use of this device can result in serious injury or damage. Always follow safety guidelines.**

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when operating the spot welder.
- Ensure the work area is well-ventilated and free from flammable materials.
- Do not touch the welding pens or welded material immediately after welding, as they will be hot.
- Keep the device away from water and moisture.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep out of reach of children.

## 3. PACKAGE CONTENTS

The AWithZ UK1 Spot Welder package includes all necessary materials for spot welding:

- UK1 Spot Welder Unit
- 2 x Spot Welding Pens
- Foot Switch
- Nickel-plated metal strip (1 roll)

- Charging Cable
- Gauze (for cleaning)
- User Manual

## ワンストップサービス 別売部品の購入の手間を省く



WP110ペン型溶接ヘッド×2

UK1スポット溶接ヘッド フットスイッチ



ニッケルコイル



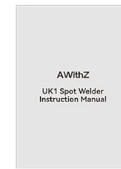
充電ケーブル



予備溶接針1組



サンドペーパー



取扱説明書

Image: The complete package contents of the AWthZ UK1 Spot Welder, including the main unit, welding pens, foot switch, nickel strip, charging cable, and manual.

## 4. PRODUCT OVERVIEW

The AWthZ UK1 features a user-friendly interface and robust design for efficient spot welding.

### 4.1 Key Features

- **Dual Trigger Modes:** Seamlessly switch between hands-free foot switch operation and precise manual control for enhanced safety when handling sensitive batteries.
- **Smart Thermal Protection:** Continuously monitors battery temperature and automatically stops welding (disables trigger) and alerts for overheating, preventing damage. The device also automatically powers off after 8 minutes of inactivity.
- **Ultra-Low Power Consumption:** Optimized for energy efficiency, significantly extending standby time between uses and reducing operating costs.
- **Precise 100-Level Output Control:** Intuitive knob allows fine-tuning of welding strength across 100 levels, accommodating delicate tasks (smartphone/Bluetooth batteries) and robust applications (cylindrical power batteries).
- **Multi-Mode Welding for Diverse Batteries:** Clear control panel enables customized settings for specialized welding of cylindrical power batteries, smartphone batteries, and Bluetooth batteries.
- **Simple Knob Operation & Clear Interface:** Large knob and clearly displayed control panel simplify adjustments (gear, trigger time, mode, continuous spot welding count) for maximum user-friendliness.

### 4.2 Components and Controls

# 独立スイッチ設計 (押しボタン式スイッチと比較) 3000万回の押下寿命



優れた触覚フィードバック

耐久性に優れた  
耐老化構造

Image: Close-up of the AWWith Z UK1 Spot Welder's control panel, showing the knob, display, and various indicators.

# 科学的なインターフェース位置設計 使用時に機械を引きずらない



## 1 フロントオープン式機械は引きずらない

スポット溶接ペン使用時の柔軟性が高く、絡まりや曲げによる損傷がなく、有効長は約40センチ

## 2 サイドホール溶接時は機械が引きずられる

スポット溶接ペンは配線効率化のため3~5cm曲げる必要があり、有効長は約35cmのみ

Image: Diagram illustrating the scientific interface placement design of the AWWith Z UK1 Spot Welder, highlighting the front open and side hole welding methods.

## 5. SETUP

### 5.1 Initial Charging

Before first use, fully charge the spot welder using the provided charging cable and a compatible USB power adapter (5V/1A recommended).

### 5.2 Connecting Welding Pens

1. Insert the gold-plated connectors of the welding pens into the corresponding ports on the front of the spot welder.
2. Ensure a secure connection.

### 5.3 Connecting Foot Switch (Optional)

If using the foot switch for hands-free operation, plug its connector into the designated foot switch port on the device.



Image: Visual guide showing how to connect the spot welding pens and the Type-C charging port on the AWithZ UK1.

Video: Demonstration of the AWithZ Foot Pedal Built-in Capacitor Spot Welder, showing how the foot pedal can be used for hands-free operation. This feature is compatible with the UK1 model.

## 6. OPERATING INSTRUCTIONS

### 6.1 Power On/Off

Press and hold the power button to turn the device on or off. The display will illuminate upon power-on.

### 6.2 Adjusting Welding Parameters

Use the large knob and control buttons to navigate and adjust settings on the display. Parameters include:

- **Gear:** Welding strength (1-100 levels). Rotate the knob to adjust.
- **Trigger Time:** Duration of the welding pulse.
- **Mode:** Select between automatic or manual welding.
- **Continuous Spot Welding Count:** Number of consecutive spot welds.

### 6.3 Welding Modes

- **Automatic Mode:** The device automatically detects contact with the welding material and initiates the weld.
- **Manual Mode:** Welding is initiated by pressing the trigger button on the welding pen or the foot switch.

### 6.4 Performing a Spot Weld

1. Ensure the welding pens are clean and properly connected.
2. Place the nickel strip or welding material onto the battery terminal.
3. Position the welding pen tips firmly onto the material, ensuring good contact.
4. If in automatic mode, the weld will initiate automatically. If in manual mode, press the trigger button or foot switch.
5. Observe the weld quality and adjust parameters as needed.

# 様々な溶接シーンに 幅広く適用



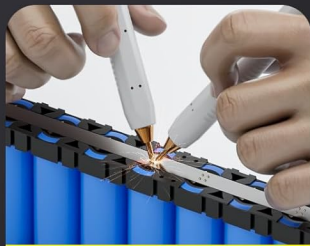
ボタン電池の溶接部品



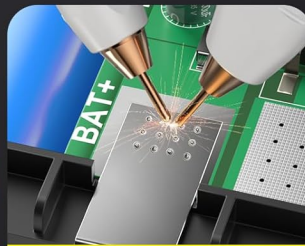
電池/リチウム電池のピン  
溶接と延長



電動工具用バッテリーパックの  
修理と組立



円筒形バッテリーパック  
の溶接と組立



模型飛行機用バッテリー  
パックの溶接と組立



機械的強度/金属接合

Image: Examples of various welding applications for the AWithZ UK1 Spot Welder, including button batteries, lithium battery pins, power tool battery packs, cylindrical battery packs, and model aircraft battery packs.

## 6.5 Welding Material Thickness Reference

Refer to the table below for recommended maximum welding thicknesses for different materials:

Spot Welding Material	Spot Welding Type	Spot Welding Thickness (Reference Value)
Nickel Plated	Polymer Battery, Cylindrical Battery	≤0.25mm
Pure Nickel	Polymer Battery, Cylindrical Battery	≤0.2mm
Steel	Polymer Battery, Cylindrical Battery	≤0.3mm
Iron	Polymer Battery, Cylindrical Battery	≤0.3mm

# スポット溶接材料の厚さ参考値

スポット溶接材料	スポット溶接タイプ	スポット溶接厚さ（参考値）
ニッケルめっき	ポリマー電池、 円筒形電池	≤0.25mm
純ニッケル	ポリマー電池、 円筒形電池	≤0.2mm
鋼	ポリマー電池、 円筒形電池	≤0.3mm
鉄	ポリマー電池、 円筒形電池	≤0.3mm

Image: A visual representation of the spot welding material thickness reference table, showing different materials and their maximum weldable thicknesses.

Video: Demonstration of enhanced continuous spot welding, showing the capability to weld 0.3mm nickel plating. This video illustrates the welding performance of AWithZ spot welders.

## 7. MAINTENANCE

### 7.1 Cleaning Welding Tips

Regularly clean the welding pen tips to ensure optimal performance. Use the provided gauze or fine sandpaper to remove any residue or oxidation. Replace tips if they become excessively worn or damaged.

### 7.2 Battery Care

- Avoid fully discharging the device's internal battery.
- Charge the device regularly, even if not in frequent use, to maintain battery health.
- Store the device in a cool, dry place.

### 7.3 Storage

When not in use, store the spot welder and its accessories in a clean, dry environment, away from direct sunlight and extreme temperatures.

## 8. TROUBLESHOOTING

If you encounter issues with your AWithZ UK1 Spot Welder, refer to the following common problems and solutions:

- **Weak Welds:**
  - Ensure welding tips are clean and sharp.
  - Increase the 'Gear' setting (welding strength).
  - Verify good contact between the welding tips and the material.
- **Overheating Alert:**
  - The device will automatically stop welding if it overheats. Allow it to cool down before resuming operation.
  - Ensure adequate ventilation around the device.
- **Device Not Powering On:**
  - Check the battery level and charge the device if necessary.

- Ensure the power button is pressed and held correctly.

• **Inconsistent Welds:**

- Check for loose connections of welding pens or foot switch.
- Ensure consistent pressure is applied to the welding pens.
- Experiment with different 'Gear' settings and pulse timings.

## 9. SPECIFICATIONS

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Feature	Detail
Brand	AWithZ
Product Model	UK1
Product Size	10 x 5 x 3 cm
Product Weight	790 g
Material	Metal
Power Source	Battery
Battery Included	Yes
Battery Type	Lithium Polymer
Accessories	1.5m Power Cord, 2m Foot Pedal, 2m Nickel-plated Sheet (0.1mm thick), Gauze, Spot Welding Pen (40cm length, supports smart hand control)

## 10. WARRANTY INFORMATION

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The AWithZ 9000W Battery Spot Welder UK1 comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or contact customer support for detailed information regarding warranty terms and conditions.

## 11. CUSTOMER SUPPORT

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For any questions, technical assistance, or support needs, please contact AWithZ customer service through the retailer where you purchased the product or visit the official AWithZ website. Our team is dedicated to providing prompt and helpful solutions.