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## GZ GUOZHI ARC130A

# GZ GUOZHI ARC130A Portable Welding Machine User Manual

Model: ARC130A | Brand: GZ GUOZHI

Contents Overview Safety Package Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

### 1. Product Overview

The GZ GUOZHI ARC130A is a portable 110V, 130Amp handheld ARC welding machine designed for various welding tasks. It features a digital display and IGBT inverter technology for stable performance. Its compact and lightweight design makes it suitable for both home DIY projects and professional use in various environments, including aerial work.

This welder is capable of welding stainless steel, mild steel, and iron.**Note: This machine is not suitable for welding aluminum.**




Image 1.1: The GZ GUOZHI ARC130A Portable Welding Machine, showcasing its compact design.




Image 1.2: Key features of the handheld welding machine, including IGBT technology, ARC Force, Hot Start, and Low Noise operation.

## 2. Safety Information

Always prioritize safety when operating welding equipment. Failure to follow safety guidelines can result in serious injury or property damage.

### 2.1 General Safety Precautions

- **Eye and Face Protection:** Always wear a welding helmet with appropriate shade lenses to protect your eyes and face from arc rays and sparks.
- **Protective Clothing:** Wear flame-resistant clothing, heavy-duty gloves, and closed-toe shoes to protect against burns and electrical shock.
- **Ventilation:** Ensure adequate ventilation in the work area to disperse welding fumes, which can be harmful if inhaled.
- **Fire Hazards:** Keep a fire extinguisher nearby. Remove all flammable materials from the welding area. Sparks and hot metal can travel considerable distances.
- **Electrical Safety:** Ensure the welding machine is properly grounded. Do not operate in wet conditions. Inspect cables and connections for damage before each use.
- **Work Area:** Keep the work area clean and free of clutter. Ensure stable footing.

### 2.2 Built-in Protection Features

The GZ GUOZHI ARC130A is equipped with multiple safety features to ensure reliable operation:

- **Over-heating Protection:** Automatically shuts down the machine if internal temperatures exceed safe limits.
- **Over-current Protection:** Prevents damage from excessive current draw.
- **Over-loading Protection:** Safeguards the machine from sustained high loads.
- **Over-voltage Protection:** Protects against damage from input voltage spikes.




Image 2.1: Visual representation of the welding machine's safety features, including protections against overheating, overload, over-voltage, and over-current.

## 3. Package Contents

Upon unpacking, verify that all items listed below are present and undamaged:

- 1x GZ GUOZHI ARC130A Handheld Welder Machine
- 1x Toolbox
- 1x 500A Work Clamp Assembly (with cable)

- 1x Pair of Welding Gloves
- 5x 3/32" Welding Rods




Image 3.1: Illustration of all items included in the GZ GUOZHI ARC130A welding machine package.

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Video 3.1: An unboxing video demonstrating the contents of the GUOZHI 130amp Handheld Welder package.

## 4. Setup Instructions

Follow these steps to prepare your welding machine for operation:

1. **Connect the Work Clamp:** Attach the 500A work clamp to a clean, bare metal section of your workpiece. Ensure a secure connection for proper electrical circuit.
2. **Insert the Welding Rod:** Loosen the electrode holder on the front of the welding machine. Insert a 3/32" welding rod (or other compatible size) into the holder and tighten to secure it.
3. **Power Connection:** Plug the welding machine into a standard 110V power outlet. Ensure the outlet can handle the machine's power requirements (14300 watts).
4. **Initial Inspection:** Before powering on, visually inspect all connections and cables for any signs of damage or loose fittings.




Image 4.1: Close-up of the digital display and the process of inserting a welding rod into the electrode holder.

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Video 4.1: A demonstration of setting up and operating the GZ GUOZHI 130amp Stick Welder.

## 5. Operating Instructions

Once the machine is set up and all safety precautions are in place, you can begin welding:

1. **Power On:** Turn on the welding machine using the power switch. The digital display will illuminate, showing the current amperage setting.
2. **Adjust Current:** Use the current adjustment knob to set the desired amperage (20-130Amp). The optimal setting depends on the material thickness and electrode type. Refer to electrode manufacturer guidelines for specific recommendations.
3. **Initiate Arc:** Bring the tip of the welding rod into contact with the workpiece and quickly lift it slightly to strike an arc. The built-in hot start function assists in quick arc ignition.
4. **Maintain Arc:** Maintain a consistent arc length and travel speed to create a uniform weld bead.

5. **Electrode Types:** This welder is ideal for electrodes such as E6011, E6013, E6014, and E7018.
6. **Working in Cold Conditions:** The machine is designed to operate normally even at temperatures as low as -20°C (-4°F).




Image 5.1: Detail of the current adjustment knob and indicators for safety protection during operation.




Image 5.2: The welding machine operating effectively in cold conditions, down to -20 degrees Celsius.

## 6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your welding machine.

- **Cleaning:** Periodically clean the exterior of the machine with a dry cloth. Ensure the ventilation openings are free from dust and debris to maintain efficient heat dissipation.
- **Cable Inspection:** Regularly check the welding cables, work clamp, and electrode holder for cuts, abrasions, or loose connections. Replace damaged components immediately.
- **Storage:** Store the welding machine in a dry, clean environment, away from direct sunlight and extreme temperatures. Use the provided toolbox for organized storage.




Image 6.1: Illustration of the 360-degree cooling technology, highlighting the importance of keeping ventilation clear for energy saving and smooth welding.

## 7. Troubleshooting

Refer to the table below for common issues and their potential solutions.

| Problem | Possible Cause | Solution |
|---|---|---|
| No Arc / Difficulty Striking Arc | Loose connections<br>Improper grounding<br>Incorrect amperage setting<br>Damp or old electrodes | Check all cable connections.<br>Ensure workpiece is clean and properly grounded.<br>Adjust amperage according to material and electrode.<br>Use fresh, dry electrodes. |
| Weak or Unstable Arc | Low input voltage<br>Long extension cord (voltage drop)<br>Incorrect amperage | Ensure stable power supply.<br>Use a shorter, heavier gauge extension cord if necessary.<br>Increase amperage setting. |
| Machine Shuts Off (Overheat) | Exceeded duty cycle<br>Blocked ventilation<br>High ambient temperature | Allow machine to cool down.<br>Clear any obstructions from air vents.<br>Operate in a cooler environment if possible. |

## 8. Technical Specifications

| Feature | Specification |
|---|---|
| Brand | GZ GUOZHI |
| Model Number | ARC130A |
| Input Voltage | 110 Volts |
| Output Current Range | 20-130 Amp |
| Wattage | 14300 watts |

| Feature | Specification |
|---|---|
| Item Weight | 3.7 Pounds |
| Duty Cycle (EN 60974-1) | 30% at 120A, 100% at 93A (at 24.8V/23.7V) |
| Enclosure Class | IP21S |
| Cooling | Fan Cooling |
| Special Features | Lightweight, Portable, Handheld, Digital Display, IGBT Inverter, Hot Start Function |
| Included Components | Welder Machine, Toolbox, 500A Work Clamp Assembly, Welding Gloves, 3/32" Welding Rods |

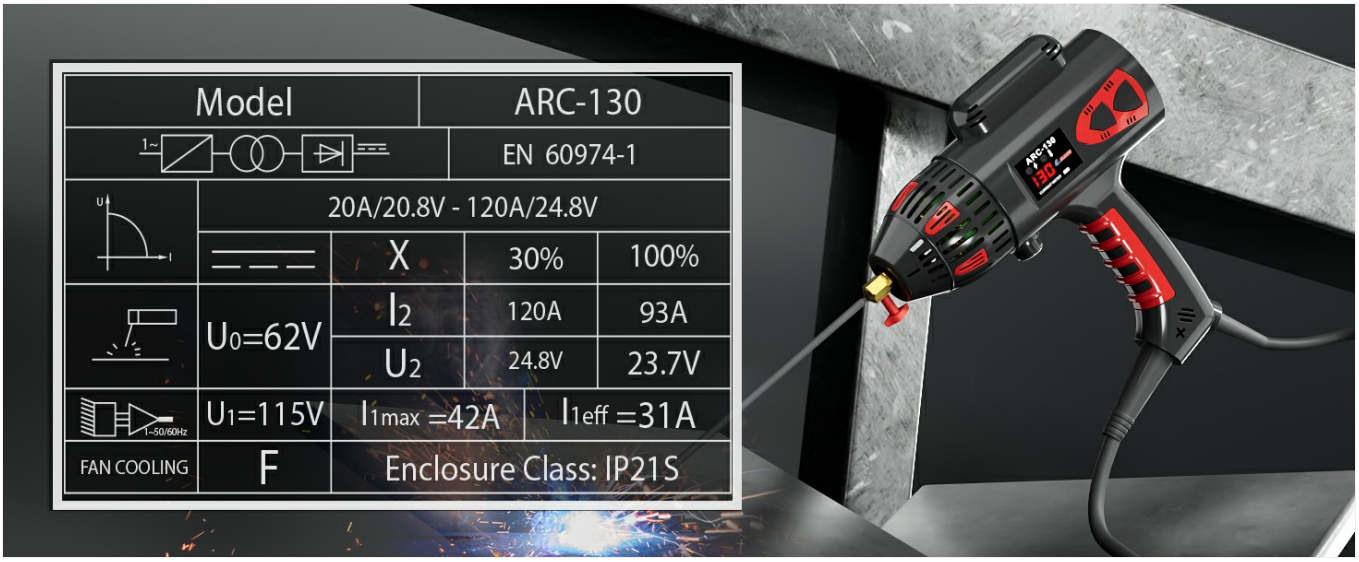



Image 8.1: Detailed technical specifications for the ARC-130 model.

## 9. Warranty and Support

### 9.1 Warranty Information

GZ GUOZHI provides a **12-month warranty** for machines purchased from the GZ GUOZHI store (excluding accessories). If the machine experiences damage due to non-human factors within this 12-month period, a replacement will be provided. This warranty does not cover repairs.




Image 9.1: Details regarding the 12-month warranty and customer service.

### 9.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact the GZ GUOZHI customer support team through the Amazon channel or via email. The support team aims to resolve issues promptly.

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