

Reboot RBM-2100D

Reboot MIG Welder RBM-2100D Instruction Manual

Model: RBM-2100D | Brand: Reboot

PRODUCT OVERVIEW



Figure 1: The Reboot RBM-2100D Multiprocess Welder, a versatile 5-in-1 machine for various welding tasks.

The Reboot RBM-2100D is a versatile 5-in-1 IGBT Inverter Multiprocess Welder designed for various welding applications, including MIG Gas, MIG Gasless, Stick, Lift TIG, and Spool Gun welding. It supports both 110V and 220V input voltages, offering flexibility for different power sources.

#### Key Features:

- **Multi-Process Capability:** MIG Gas, MIG Gasless, Stick (MMA), Lift TIG, and Spool Gun welding.
- **Dual Voltage Input:** Operates on 110V or 220V.
- **High Output:** Up to 210A (220V) and 150A (110V).
- **IGBT Technology:** Ensures stable performance and energy efficiency.
- **Digital Control:** Synthetic digital control for automatic voltage adjustment with current changes.
- **Spool Gun Function:** Facilitates easy aluminum welding.
- **Portable Design:** Lightweight and compact for easy transport.

# PANEL BUTTON INTRODUCTION



Figure 2: Front Panel Button Introduction. This image highlights the current display, voltage display, thermal status LED, 2T/4T function selection, torch/spool gun connector, spool gun switch control socket, polarity selection plug, welding mode selection knob, and current/voltage adjustment knobs.

# 5 IN 1 MULTI-FUNCTION WELDING MACHINE



Figure 3: 5-in-1 Multi-Function Welding Machine. This diagram visually represents the MIG Gas, Flux Core MIG, MMA (Stick), Lift TIG, and Spool Gun welding modes.



# ACCESSORIES & SIZE

size 16.3\*7.1\*12.4 in/41.5\*18\*31.5 cm



Figure 4: Accessories and Size. The image displays the welder along with common accessories like the ground clamp, electrode holder, MIG torch, and wire spool, and indicates the machine's compact dimensions.



Figure 5: Suitable for Wide Range of Metals. The RBM-2100D is capable of welding aluminum, stainless steel, mild steel, and other metal materials, making it suitable for diverse projects.

## SETUP

### 1. Power Connection

Ensure the welder is connected to an appropriate power supply (110V or 220V) as indicated on the machine's specifications. Use a dedicated circuit if possible to avoid overloading.





Figure 6: Rear Panel with Power and Gas Input. This view shows the AC110/220V input and the 9/16" female gas input connection, along with the waterproof ON/OFF switch.

## 2. Wire Installation

The RBM-2100D supports 2LB and 10LB wire spools. Ensure the wire is correctly loaded onto the D100/D200 roller and fed through the torch liner.

# APPLY TO D100/D200 ROLLER

Compatible with 2lb / 10lb Wire Spool

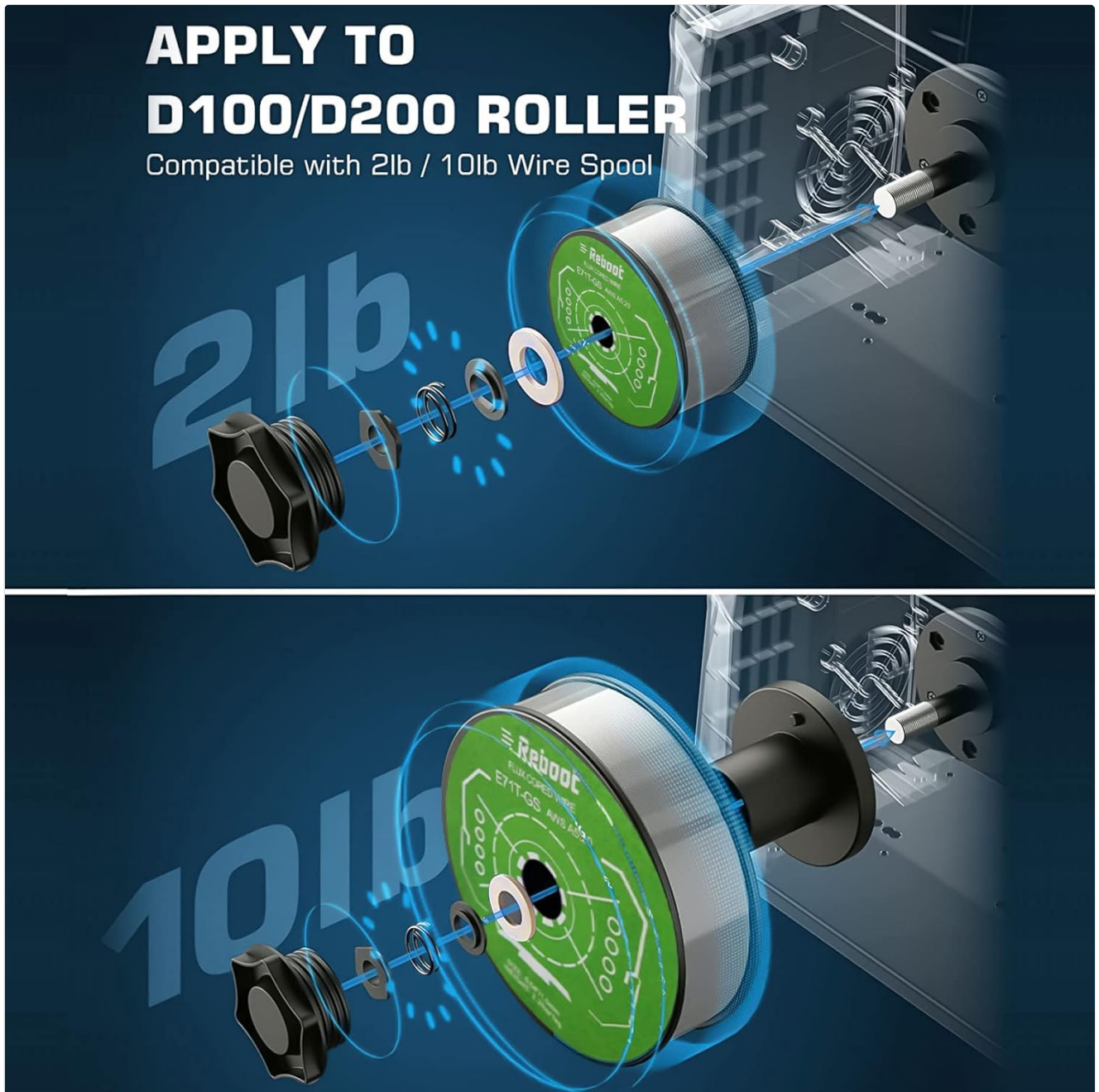


Figure 7: Wire Spool Installation. This diagram illustrates how to properly install both 2lb and 10lb wire spools onto the welder's internal wire feeder mechanism.

## 3. Gas Connection (for MIG Gas and Spool Gun)

For MIG Gas welding, connect your shielding gas cylinder (e.g., CO<sub>2</sub> for solid wire, Argon for aluminum with spool gun) to the gas input on the rear of the machine using appropriate hoses and regulators.

## OPERATING MODES

The RBM-2100D offers multiple welding modes. Select the desired mode using the Welding Mode Selection knob on the front panel.

### 1. MIG Welding (Gas/Gasless)

MIG welding is suitable for various metals including mild steel, stainless steel, and aluminum. Use solid wire with shielding gas for MIG Gas, or flux-cored wire without gas for MIG Gasless.

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Video 1: Reboot MIG Welder 210A 110/220V MIG Welding With Gas. This video demonstrates the process of MIG welding with gas, showing setup and actual welding operation.



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Video 2: Reboot MIG Welder 210A 110/220V Flux Core Welding. This video illustrates the flux core welding process, which does not require external shielding gas.

## 2. Stick Welding (MMA)

The machine supports stick electrodes up to 3.2mm (1/8"). It performs well with 7018 1/8" electrodes, and also with 6013 and 7018 3/32".

## 3. Lift TIG Welding

For Lift TIG welding, connect a TIG torch (not included) to the machine. This mode provides precise control for thinner materials.

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Video 3: Welds 3/50" sheet in Lift TIG mode. This video demonstrates the Lift TIG welding capability on thin metal sheets, showcasing the precision of this mode.

## 4. Spool Gun Welding

The additional spool gun function (spool gun not included) offers improved performance for aluminum welding, reducing the inconvenience of frequent wire changes.

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Video 4: Reboot RBM2100 Spool Gun Welding Aluminum. This video demonstrates the use of a spool gun with the RBM2100D for welding aluminum, highlighting its effectiveness.

## 5. 2T/4T Operative Mode

The 2T/4T function allows for semi-automatic operation, reducing finger fatigue during extended welding sessions. In 2T mode, the trigger must be held down. In 4T mode, a single press starts the arc, and another press stops it.

# WITH 2T/4T OPERATIVE MODE

Semi-automatic mode  
reduces your finger fatigue



## Unified Design Knob

One-click easy adjustment

Figure 8: 2T/4T Operative Mode and Unified Design Knob. This image shows the toggle switch for 2T/4T mode and the unified knob for easy adjustment of welding parameters.

### IMPORTANT SAFETY INFORMATION

Welding can be dangerous. Always ensure proper safety precautions are taken to prevent injury or damage. Read and understand all safety warnings and instructions before operating this equipment.

- Always wear appropriate personal protective equipment (PPE), including welding helmet, gloves, protective clothing, and safety shoes.
- Ensure adequate ventilation to avoid inhalation of welding fumes.
- Protect eyes and skin from arc rays.
- Do not operate in damp or wet conditions.
- Keep children and unauthorized personnel away from the welding area.
- Disconnect power before performing any maintenance or adjustments.

- Refer to local safety regulations and standards.

# SAFETY & RELIABLE



## Multi-Protection Function

Over-current/over-voltage/  
over heating protection



## VRD

Voltage reduce device-  
protection users safety



## Water Rating

IP 21S Standard



## Overload

Automatic shutdown system



Figure 9: Safety features including multi-protection, VRD, water rating, and overload protection. The welder is designed with multiple safety functions to protect the user and the machine.

## MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your welder.

- **Cleaning:** Periodically clean the machine's exterior and ventilation openings to prevent dust and debris buildup. Use compressed air to clear internal components if necessary, ensuring power is disconnected.
- **Cable Inspection:** Inspect all cables, including welding cables, power cord, and torch leads, for any signs of damage, cuts, or fraying. Replace damaged cables immediately.
- **Consumables:** Regularly check and replace worn-out consumables such as contact tips, nozzles, and diffusers on the MIG torch, and tungsten electrodes for TIG welding.
- **Wire Feeder:** Keep the wire feeder mechanism clean and free of debris. Ensure the drive rollers are appropriate for the wire size and are properly tensioned.

## TROUBLESHOOTING



| Problem               | Possible Cause  | Solution   |
|-----------------------|---|--|
| No output power       | Power switch off; circuit breaker tripped; loose connections.                                     | Turn on switch; reset breaker; check all connections.                                |
| Wire not feeding      | Wire tangled; drive roller tension incorrect; wrong drive roller size; clogged liner.             | Untangle wire; adjust tension; install correct roller; clean/replace liner.          |
| Poor weld quality     | Incorrect settings (voltage/current); improper gas flow; contaminated material; worn consumables. | Adjust settings; check gas supply/flow; clean workpiece; replace contact tip/nozzle. |
| Overheat indicator on | Exceeded duty cycle; poor ventilation.  | Allow machine to cool down; ensure proper airflow around the unit.                   |

SPECIFICATIONS

| Feature                           | Detail   |
|-----------------------------------|--|
| Model Number                      | RBM-2100D  |
| Input Voltage                     | 110V/220V  |
| Output Current (220V)             | 210A (60% duty cycle at 200A, 100% at 150A)      |
| Output Current (110V)             | 150A (60% duty cycle at 150A, 100% at 116A)      |
| Welding Modes                     | MIG Gas, MIG Gasless, Stick, Lift TIG, Spool Gun |
| Supported Wire Sizes              | 0.8mm / 1.0mm (1kg/5kg spools)                   |
| Supported Electrode Sizes (Stick) | Max 3.2mm (1/8")                                 |
| Technology                        | IGBT Inverter                                    |
| Dimensions                        | 16.14 x 7.09 x 12.2 inches                       |
| Weight                            | 30.6 pounds                                      |

WARRANTY AND CUSTOMER SERVICE

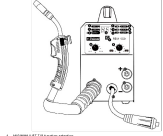





Your Reboot RBM-2100D welder comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, troubleshooting assistance, or warranty claims, please contact our customer service team. Our team is available 24 hours a day to help you with any issues you may encounter.

Please have your model number (RBM-2100D) and purchase information ready when contacting support.

For more information, visit the official [Reboot Store on Amazon](#).

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| <div><div>Operation Manual</div><div><p>Reboot RBM-1500 Multi-Function Welding Machine</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Input power cable</li><li>2. Output power cable</li><li>3. Output power cable</li><li>4. Output power cable</li><li>5. Output power cable</li><li>6. Output power cable</li><li>7. Output power cable</li><li>8. Output power cable</li></ol></div></div>                 | <p><a href="#">Reboot RBM-1500 Multi-Function Welding Machine Operation Manual</a></p> <p>Comprehensive operation manual for the Reboot RBM-1500 multi-function welding machine, detailing its features, setup, operation modes (MMA, MIG, LIFT TIG), technical specifications, and troubleshooting. Learn how to use this IGBT PWM technology welder for various applications.</p>                       |
| <div><div>Operation Manual</div><div><p>Reboot RBM1600 Multi-Function Welding Machine</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Input power cable</li><li>2. Output power cable</li><li>3. Output power cable</li><li>4. Output power cable</li><li>5. Output power cable</li><li>6. Output power cable</li><li>7. Output power cable</li><li>8. Output power cable</li></ol></div></div>                  | <p><a href="#">Reboot RBM1600 Operation Manual: Your Guide to MMA, MIG, and LIFT TIG Welding</a></p> <p>Comprehensive operation manual for the Reboot RBM1600 welding machine. Learn to use MMA, MIG (Gas/Gasless), and LIFT TIG modes with detailed instructions, technical specifications, and troubleshooting tips for optimal performance.</p>  |
| <div><div>Operation Manual</div><div><p>Reboot RBM1300 Multi-Function Welding Machine</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Input power cable</li><li>2. Output power cable</li><li>3. Output power cable</li><li>4. Output power cable</li><li>5. Output power cable</li><li>6. Output power cable</li><li>7. Output power cable</li><li>8. Output power cable</li></ol></div></div>                  | <p><a href="#">Reboot RBM1300 Welding Machine Operation Manual</a></p> <p>This manual provides detailed instructions for operating the Reboot RBM1300 welding machine, covering its features, setup, different welding modes (MMA, MIG Gas, MIG Gasless, LIFT TIG), technical specifications, safety precautions, and troubleshooting.</p>  |
| <div><div>Operation Manual</div><div><p>Reboot RBA1400 &amp; RBA1400D Multi-Function Welding Machine</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Input power cable</li><li>2. Output power cable</li><li>3. Output power cable</li><li>4. Output power cable</li><li>5. Output power cable</li><li>6. Output power cable</li><li>7. Output power cable</li><li>8. Output power cable</li></ol></div></div> | <p><a href="#">Reboot RBA1400 &amp; RBA1400D Welding Machine Operation Manual</a></p> <p>Detailed operation manual for Reboot RBA1400 and RBA1400D welding machines. Covers machine introduction, parts, setup, MMA and LIFT TIG modes, technical specifications, troubleshooting, and welding parameters. Includes safety tips and internal component descriptions.</p>                                  |
| <div><div>Operation Manual</div><div><p>Reboot RBM2100D Multi-Function Welding Machine</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Input power cable</li><li>2. Output power cable</li><li>3. Output power cable</li><li>4. Output power cable</li><li>5. Output power cable</li><li>6. Output power cable</li><li>7. Output power cable</li><li>8. Output power cable</li></ol></div></div>               | <p><a href="#">Reboot RBM2100D Recommended Weld Settings Guide</a></p> <p>A comprehensive guide detailing recommended welding settings for the Reboot RBM2100D multi-process welder. This document covers settings for MIG, TIG, and Stick welding processes, including various electrode types, wire types, and wire diameters, along with control panel descriptions and installation instructions.</p> |
| <div><div>Operation Manual</div><div><p>Reboot RBM1300 Multi-Function Welding Machine</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Input power cable</li><li>2. Output power cable</li><li>3. Output power cable</li><li>4. Output power cable</li><li>5. Output power cable</li><li>6. Output power cable</li><li>7. Output power cable</li><li>8. Output power cable</li></ol></div></div>                | <p><a href="#">Reboot RBM1300 Operation Manual: Your Guide to Advanced Welding</a></p> <p>Discover the capabilities of the Reboot RBM1300 welding machine. This comprehensive manual covers operation, technical specifications, and troubleshooting for MMA, MIG, and LIFT TIG welding modes.</p>  |

