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> [HITBOX HBM1200 3-in-1 Flux Core MIG/ARC/Lift TIG Welder Instruction Manual](#)

## HITBOX HBM1200

# HITBOX HBM1200 3-in-1 Flux Core MIG/ARC/Lift TIG Welder Instruction Manual

Model: HBM1200 | Brand: HITBOX

## 1. INTRODUCTION

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The HITBOX HBM1200 is a versatile 3-in-1 welding machine designed for various welding tasks. It supports Flux Core MIG (Gasless), ARC (MMA), and Lift TIG welding modes. This machine is suitable for home repairs, DIY projects, and agricultural work, offering a user-friendly experience with its synergistic control system and integrated safety features.



*Image: The HITBOX HBM1200 3-in-1 welding machine, showcasing its compact design and multiple welding capabilities.*

## 2. SAFETY INFORMATION

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

- **Personal Protective Equipment (PPE):** Always wear a welding helmet with appropriate shade, flame-resistant clothing, welding gloves, and safety shoes.
- **Ventilation:** Ensure adequate ventilation to remove welding fumes. Work in a well-ventilated area or use fume extraction equipment.
- **Fire Hazards:** Keep flammable materials away from the welding area. Have a fire extinguisher readily available.
- **Electrical Safety:** Ensure the welding machine is properly grounded. Do not operate in wet conditions. Inspect cables and connections for damage before use.
- **Arc Rays:** Protect eyes and skin from arc rays, which can cause burns and eye damage.
- **Integrated Safety:** The HBM1200 features automatic overheat and overcurrent protection to prevent circuit damage and ensure durable operation.



*Image: Illustration of the welder's safety features, including digital display, inverter technology, and heat dissipation.*

### 3. PACKAGE CONTENTS

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The HITBOX HBM1200 welding machine package includes the following items:

- 1 × MIG Torch
- 1 × Ground Clamp
- 1 × Welding Clamp (Electrode Holder)
- 1 × Brush
- 4 × Welding Nozzles
- 1 × 0.8 mm Flux-Cored Wire
- 5 × Electrodes
- 1 × User Manual

# 3 IN 1

## MACHINE À SOUDER



MIG SANS GAZ



ARC/MMA



LIFT TIG



Image: The HITBOX HBM1200 welder shown with its included accessories, such as the MIG torch, ground clamp, and electrode holder.

## 4. SETUP INSTRUCTIONS

### 4.1. Power Connection

Connect the welding machine to a suitable 230V power supply. Ensure the power switch on the back of the unit is in the OFF position before connecting.

### 4.2. MMA/ARC Welding Setup

1. Connect the electrode holder (welding clamp) to the positive (+) terminal on the front panel.
2. Connect the ground clamp to the negative (-) terminal on the front panel.
3. Securely attach the ground clamp to the workpiece or welding table.
4. Insert an electrode into the electrode holder.

### 4.3. Flux Core MIG Welding Setup (Gasless)

1. Open the side panel of the machine.
2. Install the 0.8mm flux-cored wire spool onto the spindle.

3. Thread the wire through the feeder mechanism and into the MIG torch liner.
4. Close the side panel.
5. Connect the MIG torch to the negative (-) terminal on the front panel.
6. Connect the ground clamp to the positive (+) terminal on the front panel.
7. Securely attach the ground clamp to the workpiece.



*Image: Internal view of the welder showing the installation of a flux-cored wire spool and the wire feeding mechanism.*

#### 4.4. Lift TIG Welding Setup

*Note: A LIFT TIG torch is not included in the standard kit and must be purchased separately.*

1. Connect the TIG torch to the negative (-) terminal on the front panel.
2. Connect the ground clamp to the positive (+) terminal on the front panel.
3. Securely attach the ground clamp to the workpiece.
4. Connect the gas hose from the TIG torch to a suitable shielding gas cylinder (e.g., Argon) and regulator.
5. Ensure the gas flow is set correctly for your application.

## 5. OPERATING INSTRUCTIONS

### 5.1. Mode Selection

Turn on the welding machine using the power switch. Use the mode selection button on the front panel to cycle through the available welding modes: MMA (ARC), MIG, and TIG. The selected mode will be indicated by an illuminated LED.



Image: The control panel of the HBM1200, highlighting the digital display and mode selection buttons.

### 5.2. Synergic Control (MIG Mode)

In MIG mode, the HBM1200 features a synergistic system that automatically adjusts the wire feed speed based on the welding current. This simplifies setup and ensures a stable arc and consistent, clean welds, making it ideal for beginners.

### 5.3. Adjusting Current and Voltage

Use the control knobs on the front panel to adjust the welding current (Amperage) and voltage according to your specific welding requirements and material thickness. The digital display will show the current settings.

### 5.4. Material Compatibility and Thickness

- **MIG Welding:** Compatible with 0.8mm / 1.0mm flux-cored wire. Welding thickness: 0.8–5 mm. Suitable for carbon steel, iron, galvanized steel, and copper.
- **ARC Welding:** Compatible with electrodes up to 2.5 mm. Welding thickness: 1–6 mm. Suitable for carbon steel, iron, galvanized steel, and copper.
- **Lift TIG Welding:** Welding thickness: 1–4 mm. Supports stainless steel (requires separate LIFT TIG torch).

## 6. MAINTENANCE

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

- **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 (ensure power is disconnected).
- **Cable Inspection:** Regularly inspect all welding cables, torches, and clamps for signs of wear, cuts, or damage. Replace damaged components immediately.
- **Wire Feeder:** Keep the wire feeder mechanism clean and free of debris to ensure smooth wire feeding.
- **Storage:** Store the welding machine in a dry, clean environment when not in use.

## 7. TROUBLESHOOTING

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This section provides general guidance for common issues. For complex problems, contact customer support.

Problem	Possible Cause	Solution
No power	Power cable disconnected, circuit breaker tripped, power switch off	Check power connections, reset breaker, turn on power switch
No arc (ARC/TIG)	Poor ground connection, incorrect current setting, faulty electrode/torch	Ensure good ground, adjust current, inspect/replace electrode/torch
Wire not feeding (MIG)	Wire tangled, feeder roller tension incorrect, clogged liner, wrong wire size	Check wire spool, adjust roller tension, clean liner, ensure correct wire size
Overheat warning	Exceeded duty cycle, poor ventilation	Allow machine to cool down, ensure proper ventilation

## 8. SPECIFICATIONS

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Feature	Detail
Manufacturer	HITBOX
Model	HBM1200
Dimensions (L x W x H)	43 x 20 x 37 cm

Feature	Detail
Weight	6.8 kg
Voltage	230 Volts
Power Type	DC
Welding Modes	Flux Core MIG, ARC (MMA), Lift TIG
MIG Wire Compatibility	0.8 mm / 1.0 mm flux-cored wire
ARC Electrode Compatibility	Up to 2.5 mm
MIG Welding Thickness	0.8–5 mm
ARC Welding Thickness	1–6 mm
TIG Welding Thickness	1–4 mm
Special Features	IGBT Inverter Technology, Overheat/Overcurrent Protection, Digital Display
Included Components	MIG torch, ground clamp, welding clamp, brush, welding nozzles, 0.8mm flux-cored wire, electrodes, user manual

## 9. WARRANTY AND SUPPORT

HITBOX offers reliable welding solutions with over 10 years of experience. For any issues or inquiries regarding your HBM1200 welding machine, customer service is available 24/7 to provide prompt assistance.

Please refer to the official HITBOX website or your purchase documentation for specific warranty terms and contact information.