

## HITBOX HBM1200

# HITBOX HBM1200 3-in-1 MIG 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 MIG, Lift TIG, and ARC (MMA) welding processes, making it suitable for both beginners and experienced users. Its dual voltage capability (110V/220V) ensures broad compatibility with different power sources.

#### Key Features:

- **Dual Voltage, 3-in-1 Functionality:** Supports 110V/220V input, offering Flux MIG, Lift TIG, and ARC (MMA) welding modes. Ideal for carbon steel, iron, or stainless steel.
- **Easy Control:** Simple panel design with adjustable wire feed speed and power settings for precise control.
- **High Duty Cycle:** Rated duty cycle of 60% at 120 amps, ensuring longer operational periods and increased efficiency.
- **Overload Safety Protection:** Automatic shutdown feature protects the machine from overheating or exceeding voltage/current limits. Integrated cooling fans enhance durability.
- **Compact & Portable:** Lightweight design (approximately 6.6 pounds) makes it easy to transport and use in various workplaces.



Figure 1: The HITBOX HBM1200 3-in-1 MIG Welder with included accessories.

## 2. WHAT'S INCLUDED

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Your HITBOX HBM1200 package includes the following components:

- HITBOX HBM1200 Welding Machine
- MIG Torch
- Electrode Holder (for Stick Welding)
- Ground Clamp
- 0.8mm Flux Core Wire (1 lb roll)
- Welding Rods (for practice)
- Extra MIG Tips

- Wire Brush with Hammer
- Owner's Manual



Figure 2: Overview of the HITBOX HBM1200 welding machine and its accessories.



Figure 3: Detailed diagram of the included welding accessories.

## 3. SETUP

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Before operating the welder, ensure you have read the safety instructions in the owner's manual. Proper setup is crucial for safe and effective welding.

### 3.1 Initial Inspection

Unpack all components and inspect them for any damage. Ensure all listed items in Section 2 are present.

### 3.2 Power Connection

The HBM1200 supports dual voltage (110V/220V). Connect the appropriate power plug to a suitable power outlet. The machine will automatically detect the voltage.

### 3.3 Connecting Welding Cables

Connect the MIG torch, electrode holder, and ground clamp to their respective terminals on the front panel of the welder. Ensure connections are secure.

### 3.4 Installing Flux Core Wire (for MIG Welding)

1. Open the side panel of the welder to access the wire feed mechanism.
2. Place the 1 lb roll of flux core wire onto the spool holder.
3. Thread the wire through the guide and into the wire feed roller. Ensure the wire is properly seated in the

groove of the roller.

4. Close the side panel.

# SMOOTH WIRE FEEDING

## Quality Wire Feeder



Figure 4: View of the wire feeding mechanism inside the welder.

Your browser does not support the video tag.

Video 1: Official HITBOX HBM1200 unboxing and initial setup guide. This video demonstrates the contents of the package and how to prepare the welder for use.

## 4. OPERATION

The HBM1200 offers three primary welding modes: Flux MIG, Lift TIG, and ARC (MMA). Always wear appropriate personal protective equipment (PPE) including a welding helmet, gloves, and protective clothing before operating the machine.



Figure 5: The HBM1200 supports Flux MIG, MMA (Stick), and Lift TIG welding processes.

### 4.1 Selecting Welding Mode

Use the MODE button on the front panel to cycle through the available welding processes: Flux MIG, Lift TIG, and

# PERFECT FOR BEGINNERS

Large Display, Easy to Read



Figure 6: The digital display and control knobs allow for easy mode selection and parameter adjustment.

## 4.2 Adjusting Parameters

Once a mode is selected, use the control knobs to adjust welding parameters such as amperage (A) and voltage (V) to suit your specific application and material thickness. Refer to the owner's manual for recommended settings for different materials and wire sizes.



Figure 7: Detailed view of the control panel for precise adjustments.

### 4.3 Welding Techniques

Practice on scrap metal to get a feel for the machine and fine-tune your settings. Maintain a consistent travel speed and arc length for optimal weld quality.



Figure 8: The HBM1200 in use, demonstrating its capability for various welding tasks.

## 5. SPECIFICATIONS

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Attribute	Value
Model	HBM1200 (MIG Welder 145A)
Manufacturer	SHENZHEN UNITWELD WELDING AND MOTOR
Part Number	UW-MIG120JP
Item Weight	6.6 pounds
Product Dimensions	9.06 x 4.33 x 6.69 inches
Country of Origin	China
Color	3 in 1 Mig Welder 145a
Material	Metal
Power Source	DC
Voltage	100 Volts (Supports 110V/220V operation)
Duty Cycle	60%
Welding Thickness	0.8-5mm
Wire Feed Speed	1.5-16 m/min
Insulation Grade	F
Protection Class	IP21S

Figure 9: Technical specifications of the HITBOX HBM1200.



## HITBOX | PRODUCT PARAMETERS

Model: HBM1200	Duty Cycle: 60%
Input Voltage: 220V-50/60Hz	Welding thickness: 0.8-5mm
Output Current: 20-200A	Wire feed speed(m/min): 1.5-16
No-load Voltage: 55V	Post flow time(S): 1.0+0.5
Input Power: 13.4KVA	Insulation grade: F
Efficiency: 85%	Protection Class: IP21S

Figure 10: Visual representation of key product parameters.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your HITBOX HBM1200 welder.

- **Cleaning:** Regularly clean the machine's exterior and ventilation openings to prevent dust and debris buildup. Use the included wire brush to clean weld areas.
- **Torch and Cable Inspection:** Periodically inspect the MIG torch, electrode holder, and ground clamp cables for any signs of wear, damage, or loose connections. Replace worn parts as necessary.
- **Tip Replacement:** Replace MIG tips when they become worn or clogged to ensure consistent wire feeding and arc stability.
- **Wire Feed Mechanism:** Keep the wire feed rollers clean and free of debris. Ensure proper tension for smooth wire delivery.
- **Storage:** Store the welder in a dry, clean environment away from excessive moisture and dust when not in use.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your HITBOX HBM1200 welder.

Problem	Possible Cause	Solution
No Power	Loose power connection, tripped circuit breaker, machine fault.	Check power cable, reset breaker, ensure power switch is ON. If issue persists, contact support.
No Arc / Weak Arc	Poor ground connection, incorrect settings, worn electrode/tip, wire feed issue.	Ensure ground clamp is on clean metal. Adjust amperage/voltage. Replace electrode/tip. Check wire feed tension.
Wire Not Feeding	Wire tangled, incorrect tension, clogged tip, motor issue.	Check wire spool for tangles. Adjust wire feed tension. Clean or replace tip.
Overheat Protection Activated	Extended use, blocked ventilation.	Allow machine to cool down. Ensure ventilation openings are clear. Reduce duty cycle.

For more detailed troubleshooting, please refer to the comprehensive owner's manual.

## 8. WARRANTY AND SUPPORT

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HITBOX stands behind the quality of its products. The HITBOX HBM1200 welding machine comes with **2 years of quality support**.

If you encounter any problems or have questions regarding your welder, please contact HITBOX customer service. Professional staff are available to provide assistance and answer your queries.

For contact information, please refer to the official HITBOX website or the contact details provided in your owner's manual.

## 9. ADDITIONAL RESOURCES

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For a complete guide and detailed instructions, please download the official User Guide (PDF):

[Download User Guide  
\(PDF\)](#)