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## HITBOX UW-MIG185JP

# HITBOX 200A MIG Welder Instruction Manual

MODEL: UW-MIG185JP

## 1. SAFETY INFORMATION

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Always read and understand all safety warnings and instructions before operating the HITBOX 200A MIG Welder. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Electric Shock:** Welding current can cause electric shock. Do not touch live electrical parts. Wear dry, insulating gloves.
- **Fumes and Gases:** Welding produces fumes and gases. Work in a well-ventilated area. Use local exhaust or ventilation.
- **Arc Rays:** Arc rays can burn eyes and skin. Wear a welding helmet with appropriate shade and protective clothing.
- **Fire and Explosion:** Welding can cause fire or explosion. Keep flammable materials away from the welding area. Have a fire extinguisher readily available.
- **Hot Parts:** Welded parts are hot. Allow them to cool before handling.

## 2. PRODUCT OVERVIEW

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The HITBOX 200A MIG Welder is a versatile 5-in-1 smart welding machine designed for MIG, MAG, LIFT TIG, and Stick (MMA) welding processes. It features a colorful LCD screen for easy operation and supports dual voltage input (110V/220V).



Figure 2.1: HITBOX 200A MIG Welder and standard accessories including ground clamp, MIG torch, power cable, and welding wire.

## 2.1 Front and Rear Panel

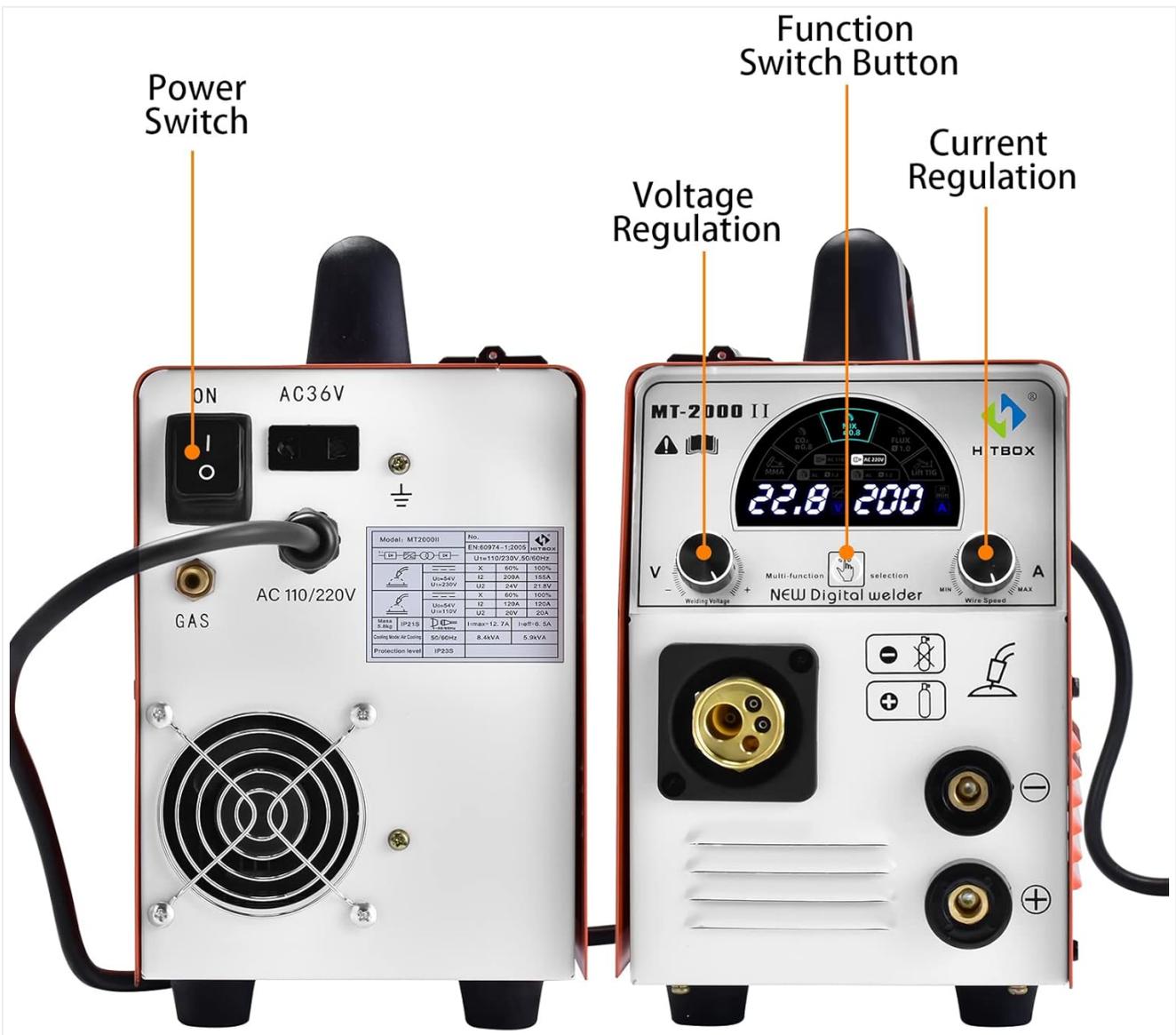


Figure 2.2: Front panel showing welding connections and control knobs. Rear panel showing power switch, AC36V output, and gas inlet.

- **Front Panel:** Features the colorful LCD display, welding voltage and wire speed adjustment knobs, multi-function/selection button, MIG torch connection, and positive/negative output terminals.
- **Rear Panel:** Includes the main power switch, AC 110V/220V input, gas inlet, and cooling fan.

### 3. SETUP

#### 3.1 Unpacking and Inspection

Carefully remove the welder and all accessories from the packaging. Inspect for any shipping damage. Report any damage to your supplier immediately.

Verify that all components listed in the packing list are present:

- HITBOX 200A MIG Welder Unit
- MIG Welding Torch
- Ground Clamp
- Electrode Holder (for Stick/MMA welding)
- Gas Hose
- Extra MIG Tips
- Power Cable

## 3.2 Power Connection

Ensure the power switch on the rear panel is in the "OFF" position before connecting to power. This welder supports dual voltage (110V/220V) and automatically detects the input voltage.

1. Connect the power cable to the appropriate power outlet (110V or 220V). Ensure the outlet has sufficient amperage capacity (e.g., 40A breaker for full output).
2. Press the power switch on the rear panel to the "ON" position. The LCD display will illuminate.

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Video 3.1: This video demonstrates the power connection process and initial display functionality of the HITBOX 200A MIG Welder, showing how to turn it on and navigate basic settings.

## 3.3 Accessory Connection

Proper connection of welding accessories is crucial for safe and effective operation. Refer to the connection diagrams below for different welding modes.

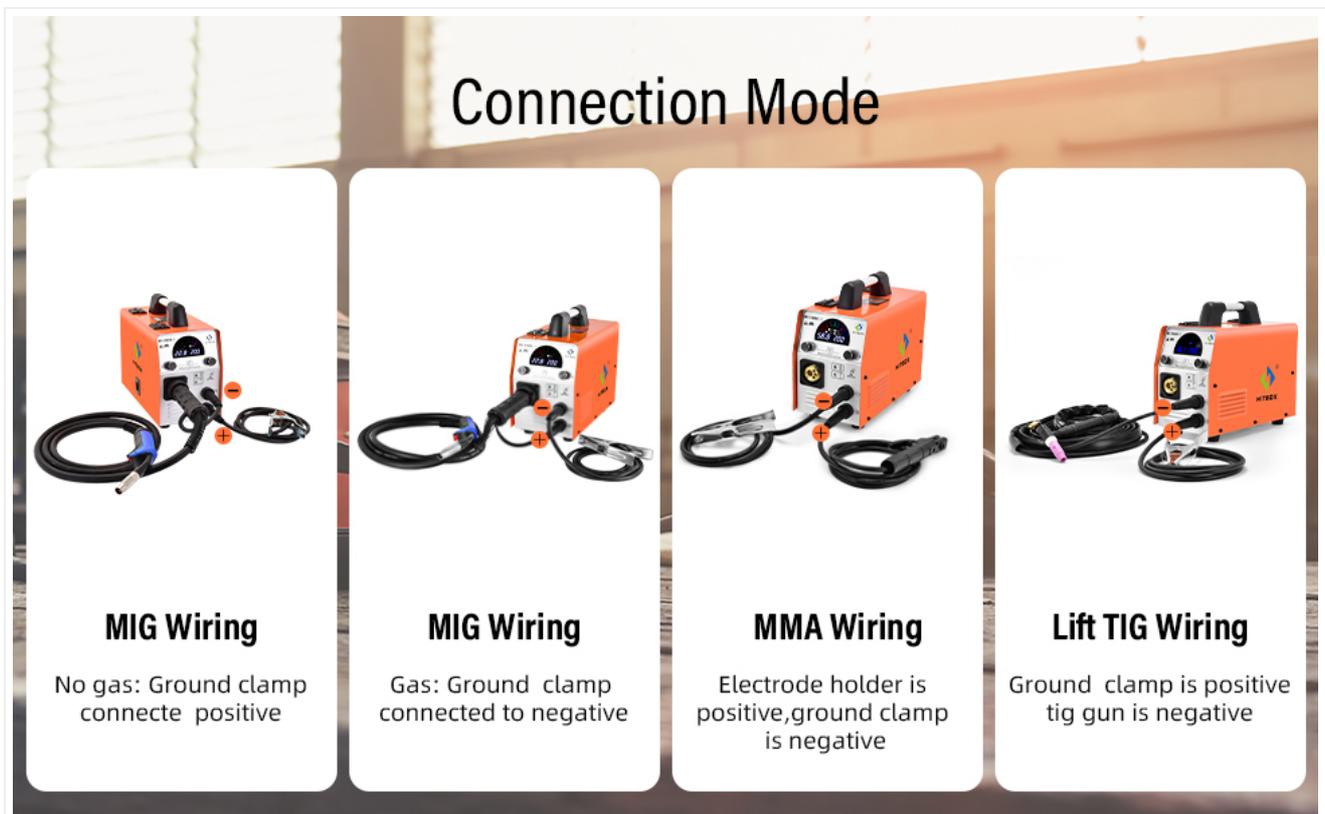


Figure 3.1: Connection modes for MIG (Gas/Gasless), MMA, and Lift TIG welding. Note the polarity changes for different processes.

- **MIG Welding (Gasless Flux Core):** Connect the ground clamp to the positive (+) terminal and the MIG torch to the negative (-) terminal.
- **MIG Welding (Gas Shielded):** Connect the ground clamp to the negative (-) terminal and the MIG torch to the positive (+) terminal. Connect the gas hose from your gas cylinder to the gas inlet on the rear panel.
- **Stick (MMA) Welding:** Connect the electrode holder to the positive (+) terminal and the ground clamp to the negative (-) terminal.
- **Lift TIG Welding:** Connect the TIG torch to the negative (-) terminal and the ground clamp to the positive (+) terminal. (Note: TIG torch is sold separately).

## 4. OPERATING INSTRUCTIONS

### 4.1 Control Panel Overview

The HITBOX 200A features an intuitive colorful LCD display and control knobs for precise adjustments.

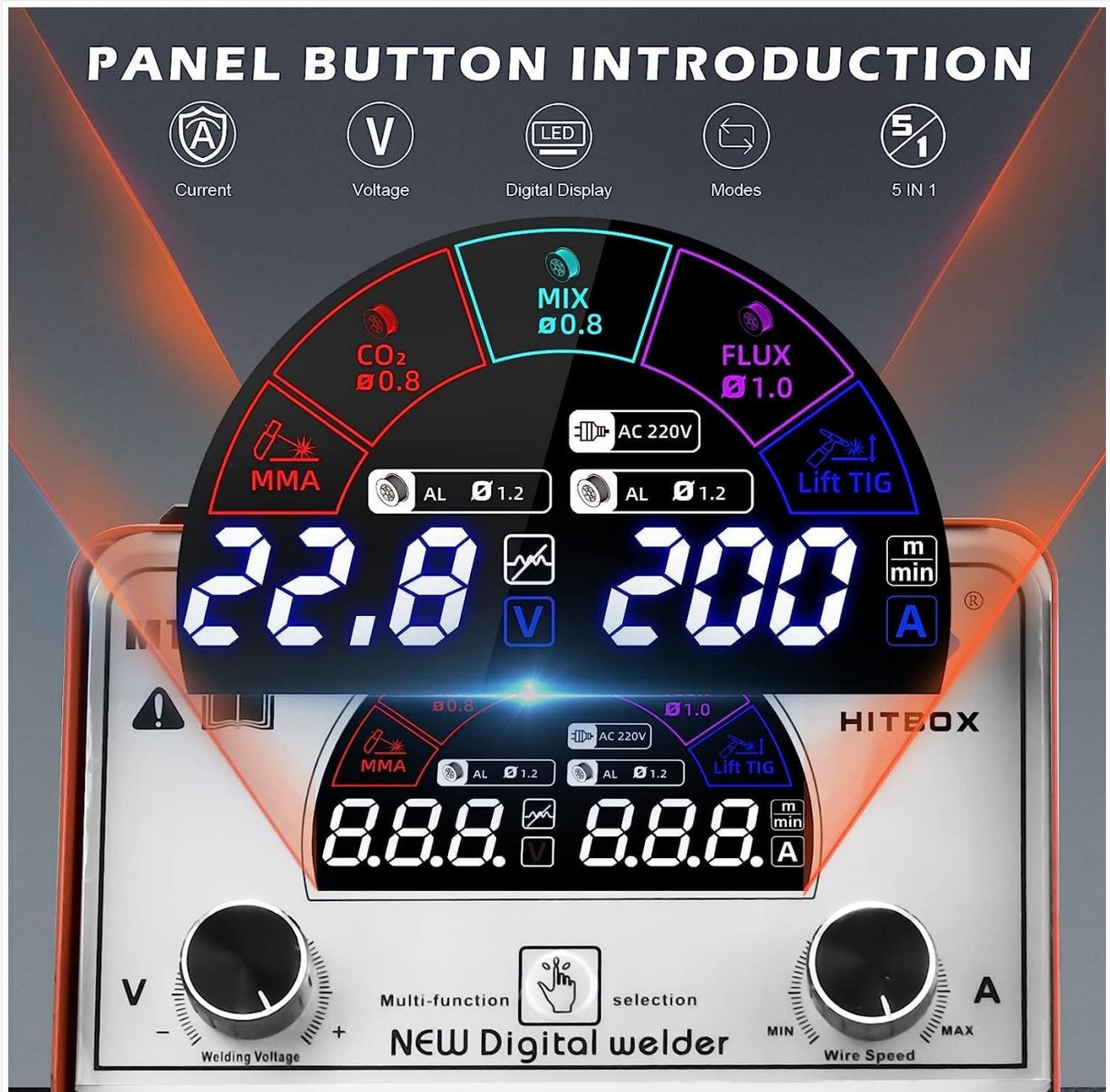


Figure 4.1: The control panel features a digital display for current and voltage, a multi-function/selection button, and adjustment knobs for welding voltage and wire speed.

- **Digital Display:** Shows current (Amps) and voltage (Volts) settings.
- **Multi-function/Selection Button:** Press to cycle through welding modes (MIG, MMA, LIFT TIG, Flux Core, Mixed Gas).
- **Welding Voltage Knob:** Adjusts the welding voltage.
- **Wire Speed Knob:** Adjusts the wire feed speed (for MIG modes) or current (for MMA/TIG).

## 4.2 Welding Mode Selection

Use the multi-function/selection button to choose your desired welding process. The selected mode will be highlighted on the colorful LCD screen.



**V** 110 V  
220 V

**A** 200A large  
current

**Multi**  
machine

**60%** 60%  
usage

**Mixing gas**  
support

**IGBT** IGBT inverter  
control

Figure 4.2: The upgraded colorful panel clearly displays the active welding mode and parameters, making selection straightforward.

- **MIG (CO2/MIX):** For gas-shielded MIG welding with CO2 or mixed gas.
- **FLUX:** For gasless flux-cored welding.
- **MMA:** For Stick welding.
- **LIFT TIG:** For Lift TIG welding (requires separate TIG torch).

### 4.3 Parameter Adjustment

Adjust welding voltage and wire speed (or current for MMA/TIG) using the respective knobs. The display will show real-time values.

# Adjustable voltage in mig welding mode



Figure 4.3: Adjusting the welding voltage knob to fine-tune the output for MIG welding. Recommended voltage ranges for MIG gas, gasless, and mixed gas are displayed.

Refer to the welding thickness chart for recommended settings:



Figure 4.4: This chart provides general guidelines for welding thickness across different modes: MIG (1-8mm), LIFT TIG (1-6mm), and MMA (2-12mm).

## 4.4 Welding Wire Compatibility

The machine is compatible with 0.8mm-1.0mm rolls of solid core wire and flux core wire.

# WELDING WIRE

0.8-1.0mm

Apply to 0.8mm-1.0mm rolls  
of solid core wire  
and flux core wire.

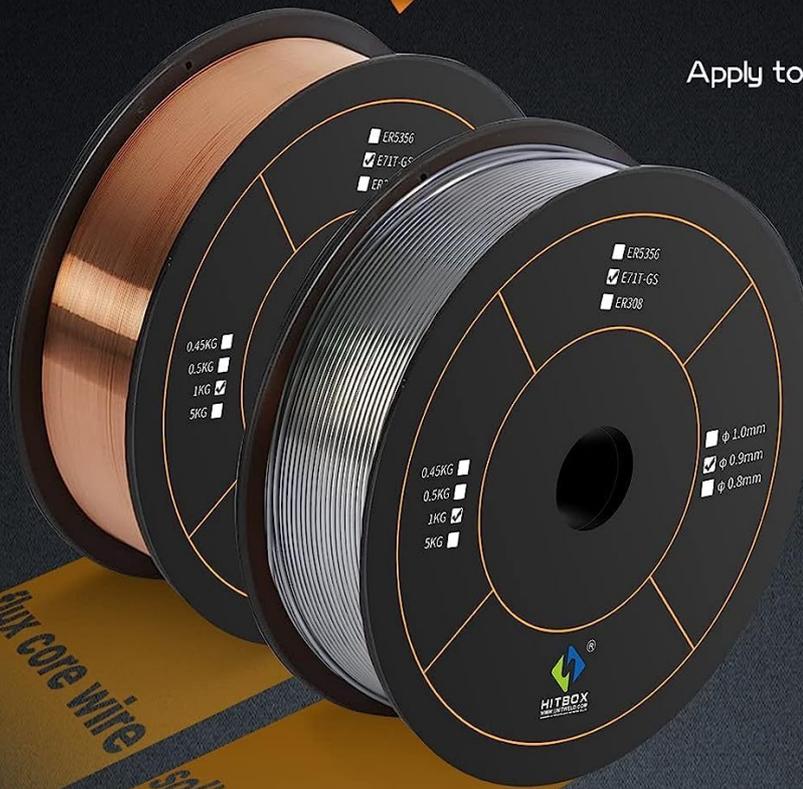


Figure 4.5: Illustration of compatible welding wire types and sizes (0.8mm-1.0mm) for both flux core and solid core applications.

Ensure the correct drive roller is installed for the wire size and type being used. The machine features automatic wire feeding.



Figure 4.6: The internal mechanism for automatic wire feeding, ensuring smooth and consistent wire delivery during welding operations.

## 4.5 Multi-Process Welding Capabilities

The HITBOX 200A supports various welding processes, making it suitable for a wide range of applications on materials like carbon steel, iron, and stainless steel.

# 4-in-1 Multi-process welder

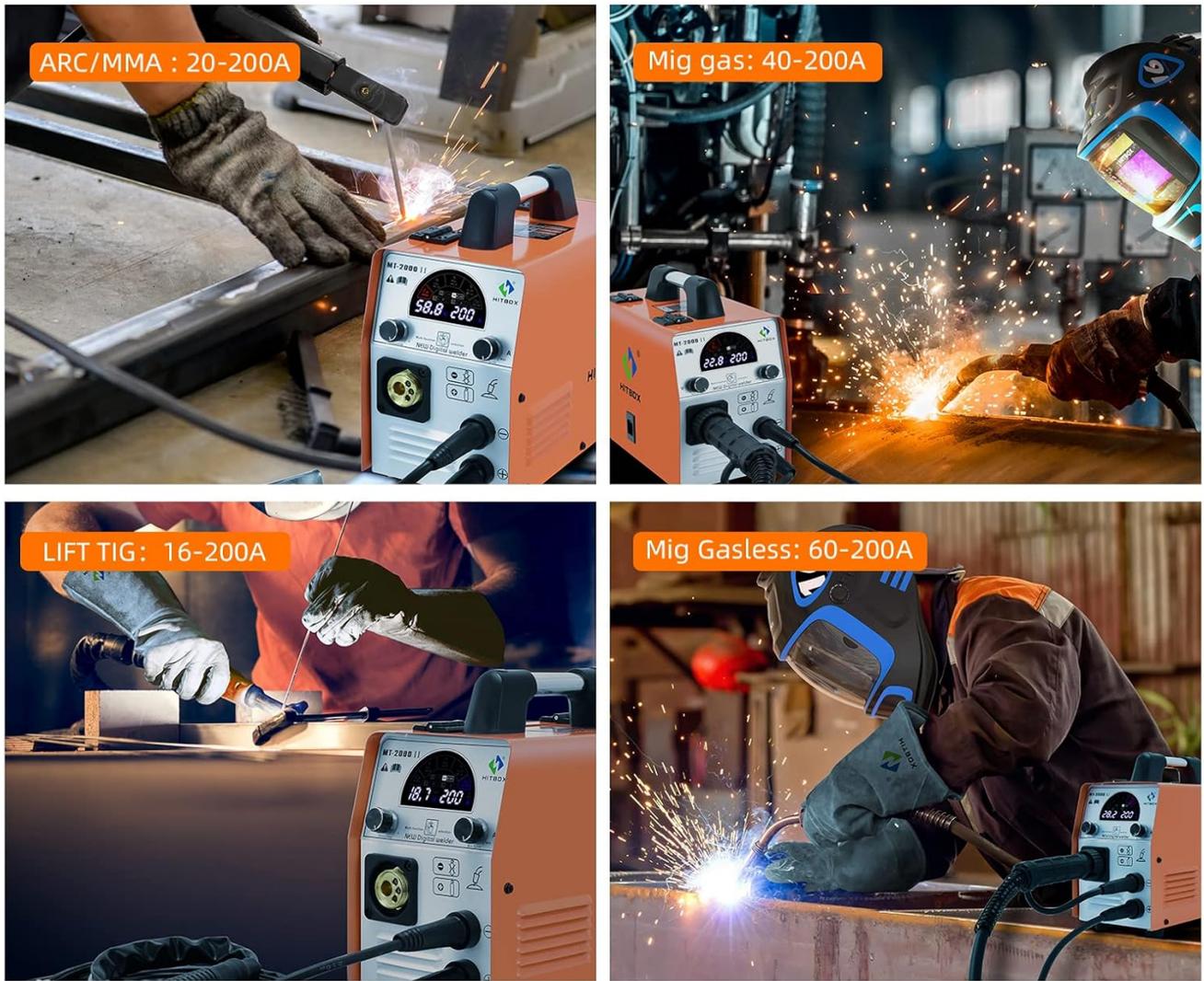


Figure 4.7: Visual representation of the welder's multi-process capabilities, including ARC/MMA (20-200A), MIG Gas (40-200A), LIFT TIG (16-200A), and MIG Gasless (60-200A).

## 5. MAINTENANCE

### 5.1 General Maintenance

- **Cleaning:** Regularly clean the machine's exterior with a soft, dry cloth. Ensure ventilation openings are free from dust and debris.
- **Fan:** Check the cooling fan for obstructions and ensure it operates freely.
- **Cables and Connections:** Inspect all welding cables, power cords, and connections for damage, fraying, or loose contacts before each use. Replace damaged components immediately.
- **Wire Feeder:** Keep the wire feeder mechanism clean and free of dust or metal shavings to ensure smooth wire feeding.

### 5.2 Storage

When not in use, store the welder in a dry, clean environment, away from direct sunlight, moisture, and extreme temperatures. Disconnect all cables and store them neatly.

## 6. TROUBLESHOOTING

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This section provides solutions for common issues. For more detailed troubleshooting, refer to the full user guide PDF.

Problem	Possible Cause	Solution
Welder does not power on.	No power supply; Power switch off; Internal fuse blown.	Check power outlet and cable; Ensure power switch is ON; Contact service for fuse replacement.
No welding output.	Loose connections; Incorrect mode selection; Overheat protection activated.	Check all cable connections; Verify welding mode; Allow machine to cool down.
Wire feeding issues.	Incorrect wire tension; Clogged liner; Wrong drive roller.	Adjust wire tension; Clean or replace liner; Install correct drive roller.
Poor weld quality.	Incorrect parameters (voltage/wire speed); Improper gas flow (MIG); Contaminated workpiece.	Adjust settings according to chart; Check gas cylinder and flow rate; Clean workpiece thoroughly.

## 7. SPECIFICATIONS

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Key technical specifications for the HITBOX 200A MIG Welder.

Feature	Detail
Model Number	UW-MIG185JP
Input Voltage	110V/220V (Dual Voltage)
Welding Processes	MIG, MAG, LIFT TIG, Stick (MMA)
Max Output Current	200A
Item Weight	15.43 pounds
Product Dimensions	11.02 x 5.31 x 8.66 inches
Duty Cycle	60% (at max output)
Technology	IGBT Inverter

## 8. WARRANTY AND SUPPORT

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### 8.1 Warranty Information

HITBOX products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official HITBOX website.

### 8.2 Customer Support

If you encounter any issues or have questions regarding your HITBOX 200A MIG Welder, please contact HITBOX customer support. You can find contact information on the official HITBOX website or through your purchase platform.

For a comprehensive guide, download the official User Guide (PDF) from [here](#).