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> [VIVOHOME MIG Welder 130 Flux Core Wire Automatic Feed Welding Machine User Manual](#)

VIVOHOME VH313

VIVOHOME MIG Welder 130 Flux Core Wire Automatic Feed Welding Machine User Manual

Model: VH313

1. SAFETY INFORMATION

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

- **Eye and Face Protection:** Always wear a welding helmet with appropriate shade lenses to protect against arc flash and sparks. The included mask provides basic protection; consider an auto-darkening helmet for enhanced safety and visibility.
- **Body Protection:** Wear flame-resistant clothing, welding gloves, and sturdy footwear. Avoid synthetic materials that can melt.
- **Ventilation:** Ensure adequate ventilation to remove welding fumes, which can be hazardous to your health. Work in a well-ventilated area or use a fume extractor.
- **Electrical Safety:** Ensure the welder is properly grounded. Do not operate in wet conditions. Inspect cables and connections for damage before each use.
- **Fire Prevention:** Keep flammable materials away from the welding area. Have a fire extinguisher readily available. Sparks and hot metal can cause fires.
- **Workpiece Security:** Secure the workpiece to prevent movement during welding.

2. PRODUCT OVERVIEW

The VIVOHOME MIG Welder 130 is a portable flux-cored wire welding machine designed for DIY home repairs and hobby projects. It operates without the need for external gas, as the flux-cored wire self-releases inert gas during welding to prevent oxidation.

Key Features:

- **No Gas Operation:** Utilizes convenient flux-cored wire, eliminating the need for external shielding gas.
- **Adjustable Welding Speed:** Features 10-speed variable wire feed controls for precise welding.
- **Current Flow Settings:** Offers 4 current flow settings (MIN/MAX, 1/2) for various welding tasks.
- **Portable Design:** Lightweight (34.6 lbs) and compact with a comfortable handle for easy transport.

- **Overheat Protection:** Includes a built-in fan and indicator for thermal protection.

Components:

Familiarize yourself with the main components of your welding machine:



Figure 2.1: VIVOHOME MIG Welder 130 with included accessories.

MIG130 WELDING MACHINE FEATURES



Figure 2.2: Front panel layout with welding torch plug, wire speed knob, ampere knob, power switch, overheat protection indicator, ground play connection, and input cable.

MIG130 WELDING MACHINE FEATURES



Easy to Carry & Move



10 Speed Control



4 Levels Current Flow Setting

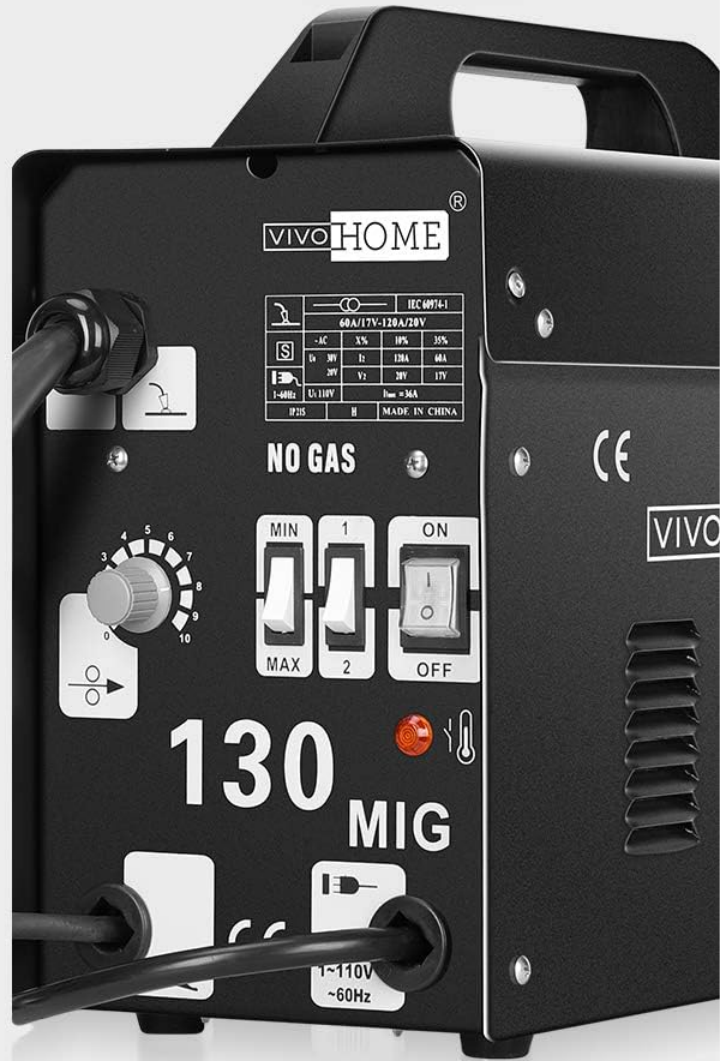


Figure 2.3: Detailed view of the 10-speed wire feed control and 4-level current settings.



Built-in storage space



Built-in fan overheat protective vent



Anti-slip pads



Figure 2.4: Internal features including built-in storage space, fan overheat protective vent, and anti-slip pads.

MIG130 WELDING MACHINE FEATURES



Figure 2.5: Essential welding components: ground clip, nozzle, and base, used with concentrated flux.

3. SETUP

Follow these steps to set up your VIVOHOME MIG Welder for operation:

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all accessories listed in the manual are present.
2. **Attach Welder Handle:** Open the panel above the welder. Securely mount the welder handle to the top of the unit using the provided screws. This handle facilitates easy carrying and movement of the machine.

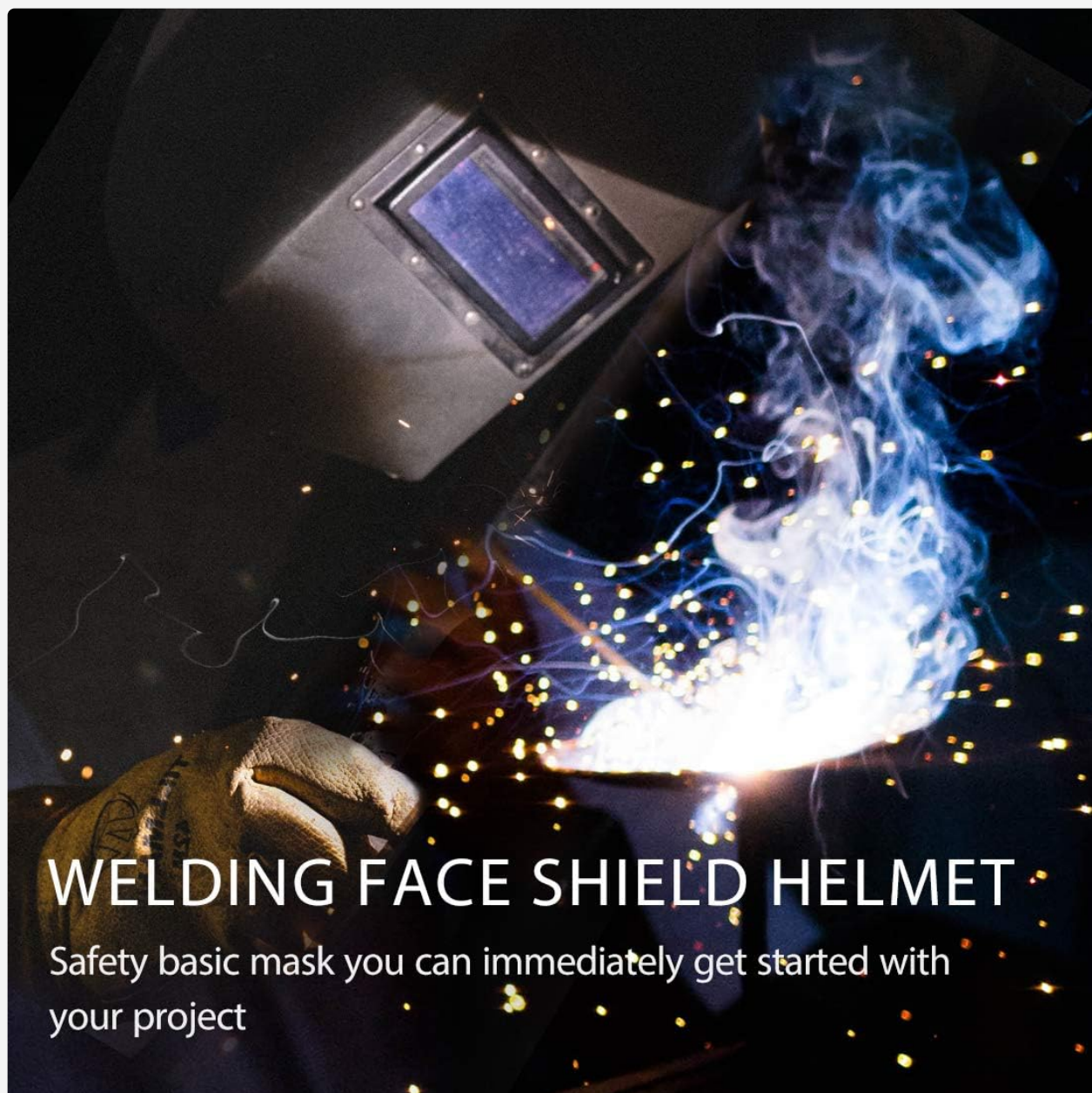
Video 3.1: Demonstrates the process of opening the welder panel and mounting the welder handle.

3. **Load Welding Wire Spool:** Open the side compartment of the welder. Place the flux-cored wire spool onto the spindle and tighten it with the twisting wing nut. Ensure the wire feeds smoothly into the wire feed mechanism. Insert the spool wire and secure it with the clamp and lever.

Video 3.2: Illustrates loading the wire spool and securing the wire within the feeder mechanism.

4. **Attach Welding Mask Handle:** Assemble the provided welding mask by attaching the handle. This basic

mask is for immediate use, but an upgraded auto-darkening helmet is recommended for prolonged or professional use.



WELDING FACE SHIELD HELMET

Safety basic mask you can immediately get started with your project

Figure 3.1: The included welding face shield helmet.

Video 3.3: Shows the assembly of the welding mask.

5. **Connect Ground Clamp:** Attach the ground clamp to the workpiece you intend to weld. Ensure a clean, secure connection for proper electrical circuit and effective welding.
6. **Power Connection:** Plug the welder into a suitable 110V power outlet. Ensure the outlet can handle the welder's power requirements (Max absorbed power: 3.6KVA).

4. OPERATING INSTRUCTIONS

Once set up, you can begin your welding project. Always wear appropriate personal protective equipment (PPE) before starting.

1. **Power On:** Flip the main power switch to the 'ON' position.
2. **Select Current Setting:** Choose the appropriate current setting (MIN/MAX, 1/2) based on the thickness of the material you are welding. Start with lower settings for thinner materials and increase as needed.
3. **Adjust Wire Speed:** Use the wire speed knob to adjust the wire feed rate. A higher number indicates faster

wire feed. Experiment to find the optimal speed for your material and current setting.

- 4. Begin Welding:** Position the welding gun nozzle close to the workpiece. Lower your welding mask. Press the trigger on the welding gun to initiate the arc and wire feed. Maintain a consistent travel speed and angle for a clean weld bead.
- 5. Welding Process:** This machine is well-suited for mild steel and stainless steel. It delivers a professional finish for thin steel welding or auto body work. The flux-cored wire eliminates the need for external gas, making it convenient for home use.

Video 4.1: Demonstrates the welding process using the VIVOHOME MIG Welder.

- 6. Overheat Protection:** If the overheat protection indicator lights up, the machine has reached an unsafe temperature. Turn off the welder and allow it to cool down before resuming operation.

5. MAINTENANCE

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

- Cleaning:** Regularly clean the welding gun nozzle and contact tip to remove spatter. Use a wire brush to clean the workpiece before welding.
- Wire Feed System:** Periodically check the wire feed rollers for wear and ensure they are clean and free of debris. Lubricate the wire if necessary, especially if experiencing feeding issues.
- Cable Inspection:** Inspect all cables (power, welding gun, ground clamp) for cuts, fraying, or damage. Replace damaged cables immediately.
- Storage:** Store the welder in a dry, clean environment away from dust and moisture.

6. TROUBLESHOOTING

If you encounter issues with your welder, refer to the common problems and solutions below:

Problem	Possible Cause	Solution
No arc or inconsistent arc	Poor ground connection, incorrect wire speed, worn contact tip, power issue.	Ensure ground clamp is securely attached to clean metal. Adjust wire speed. Replace contact tip. Check power supply.
Wire not feeding smoothly	Kinked wire, incorrect tension on wire spool, clogged liner, worn drive roller.	Straighten wire. Adjust spool tension. Clean or replace liner. Inspect and replace drive roller if worn.
Welder overheats frequently	Exceeding duty cycle, poor ventilation, blocked fan vents.	Allow welder to cool down. Ensure adequate airflow around the machine. Clean fan vents.
Poor weld quality (e.g., burn-through on thin steel)	Incorrect current setting, improper wire speed, incorrect technique.	Adjust current to a lower setting for thin materials. Fine-tune wire speed. Practice welding technique.

7. SPECIFICATIONS

Detailed technical specifications for the VIVOHOME MIG Welder 130:

PRODUCT SPECIFICATIONS:

VIVOHOME

VOLTAGE: 110V

MAX NO LOAD VOLTAGE OUTPUT: 37V

MAX ABSORBED POWER: 3.6KVA

FREQUENCY: 60Hz



Figure 7.1: Visual representation of product specifications and included accessories.

Specification	Value
Model Number	VH313
Voltage	110V (230 Volts listed in specs, but product title and description indicate 110V for this model. Please verify for your specific unit.)
Frequency	60Hz
Max Absorbed Power	3.6KVA
Max No Load Voltage Output	37V
Item Weight	34.6 pounds

Specification	Value
Dimensions (L x W x H)	13.4 x 7.2 x 11.5 Inches
Material	Stainless Steel
Amperage Capacity	40 Amps
Special Features	Adjustable Welding Speed

Note: Some specifications may vary slightly. Always refer to the label on your specific unit for the most accurate information.

8. WARRANTY AND SUPPORT

VIVOHOME products are designed for reliability and performance. For warranty information, product support, or to purchase replacement parts, please visit the official VIVOHOME website or contact their customer service directly. You can find more information and contact details on the [VIVOHOME Store on Amazon](#).