VEVOR MIG-200

VEVOR MIG-200 Multi-Process Welder

INSTRUCTION MANUAL

Introduction

Thank you for choosing the VEVOR MIG-200 Multi-Process Welder. This 3-in-1 inverter welding machine supports MIG, MMA (Stick), and TIG welding processes, making it versatile for various applications. It is designed for welding carbon steel, iron, stainless steel, and other metals. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your welding equipment.

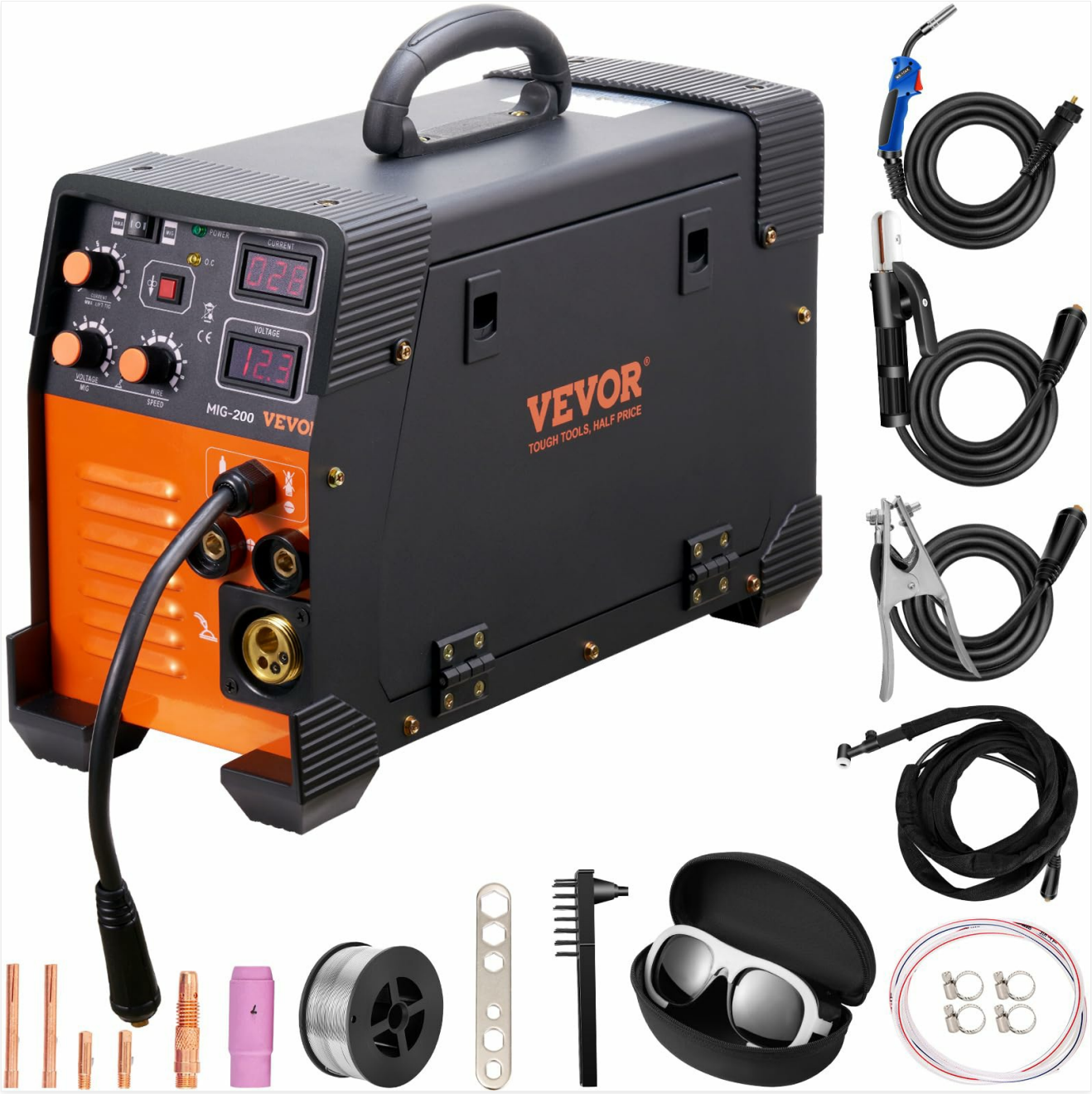

Figure 1: VEVOR MIG-200 Multi-Process Welder. This image shows the compact and portable design of the welding machine, highlighting its control panel and connection points.

Safety Instructions

Welding can be dangerous if proper safety precautions are not followed. Always prioritize your safety and the safety of those around you. Read and understand all safety warnings before operating this equipment.

- **Electric Shock:** Welding current can cause fatal electric shock. Ensure the machine is properly grounded. Do not touch live electrical parts. Wear dry welding gloves and protective clothing.
- **Fumes and Gases:** Welding produces fumes and gases that can be hazardous to your health. Work in a well-ventilated area. Use a fume extractor if necessary.
- **Arc Rays:** Arc rays can injure eyes and burn skin. Always wear a welding helmet with appropriate shade lenses. Protect others in the work area with welding screens.
- **Fire and Explosion:** Welding sparks and hot metal can cause fires and explosions. Keep flammable materials away from the welding area. Have a fire extinguisher readily available.
- **Hot Parts:** Welded materials and equipment can remain hot for a long time. Allow them to cool before handling.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a welding helmet, flame-resistant clothing, welding gloves, and safety shoes.

Product Features

- **Advanced IGBT Inverter Technology:** This welder utilizes advanced IGBT inverter technology, providing a stable arc, low spatter, and consistent weld beads. This technology ensures reliable performance and is suitable for both beginners and experienced welders.

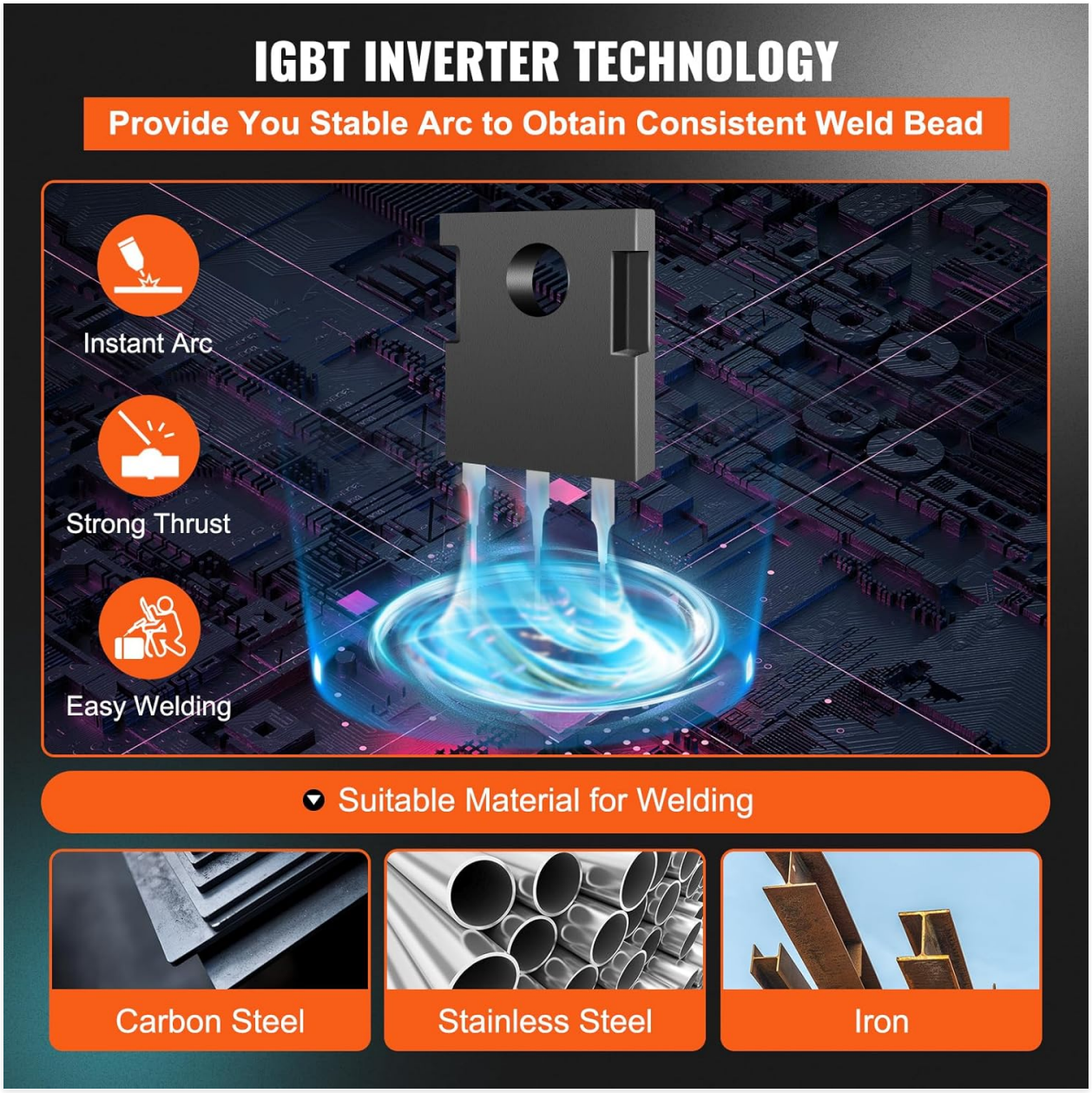

Figure 2: IGBT Inverter Technology. This diagram illustrates the stable arc and consistent weld bead achieved with IGBT technology, suitable for carbon steel, stainless steel, and iron.

- **3-in-1 Multi-Process Welding:** The VEVOR MIG-200 supports MIG, MMA (Stick), and TIG welding modes, offering flexibility for various welding tasks and materials.
- **Flux-Cored and Solid Wire Capability:** This machine can use both flux-cored wire (0.8 mm & 1.0 mm) and solid wire, accommodating 1 kg and 5 kg wire spools. The integrated wire feeder ensures smooth and consistent wire feeding.

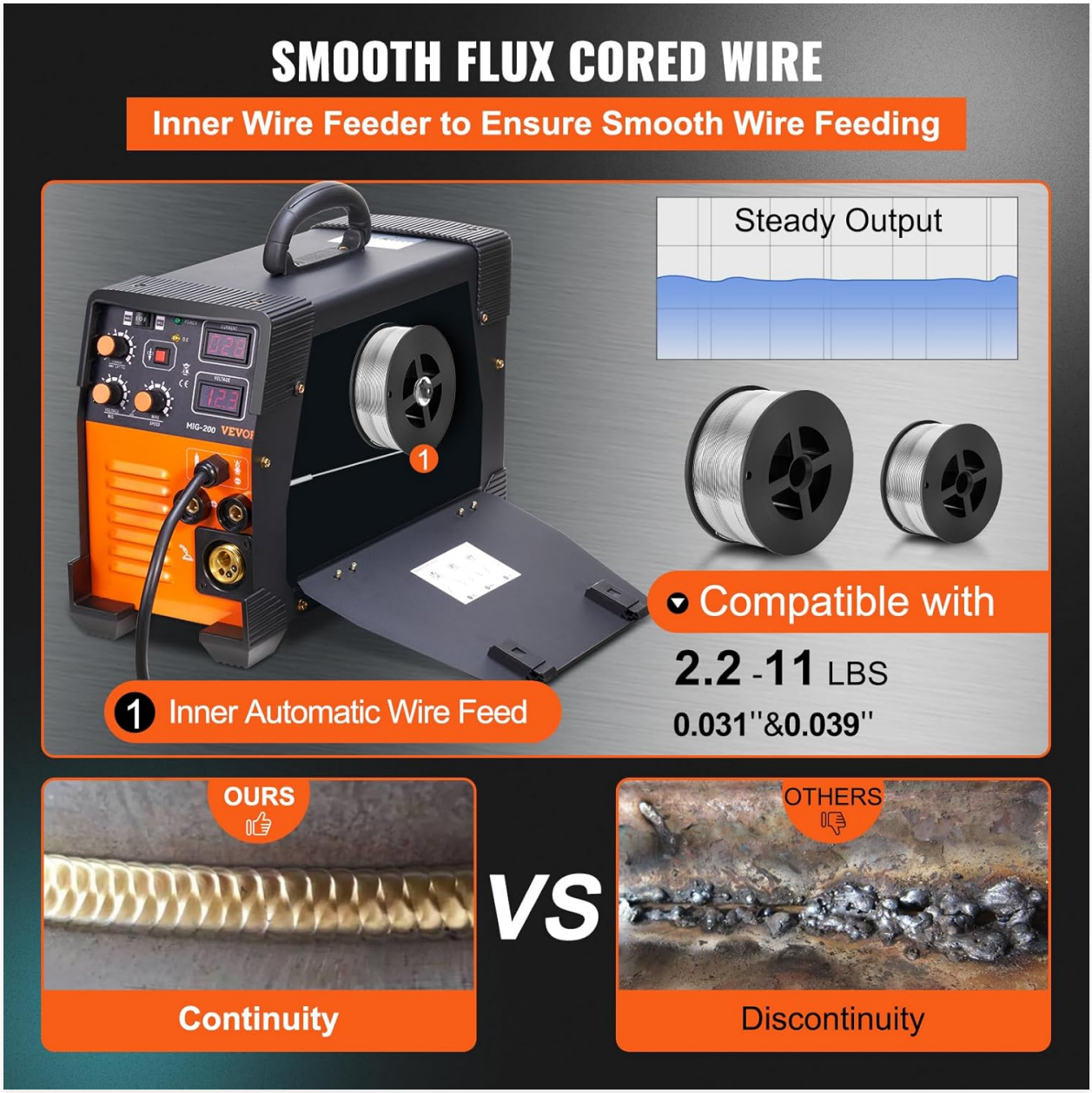

Figure 3: Flux-Cored Wire System. This image demonstrates the internal wire feeder and compatibility with different wire sizes and spool weights, ensuring smooth wire delivery.

- **User-Friendly Control Panel:** The intuitive control panel allows for easy selection of welding modes and precise adjustment of current, voltage, and wire feed speed. The clear LCD digital display provides real-time readings.

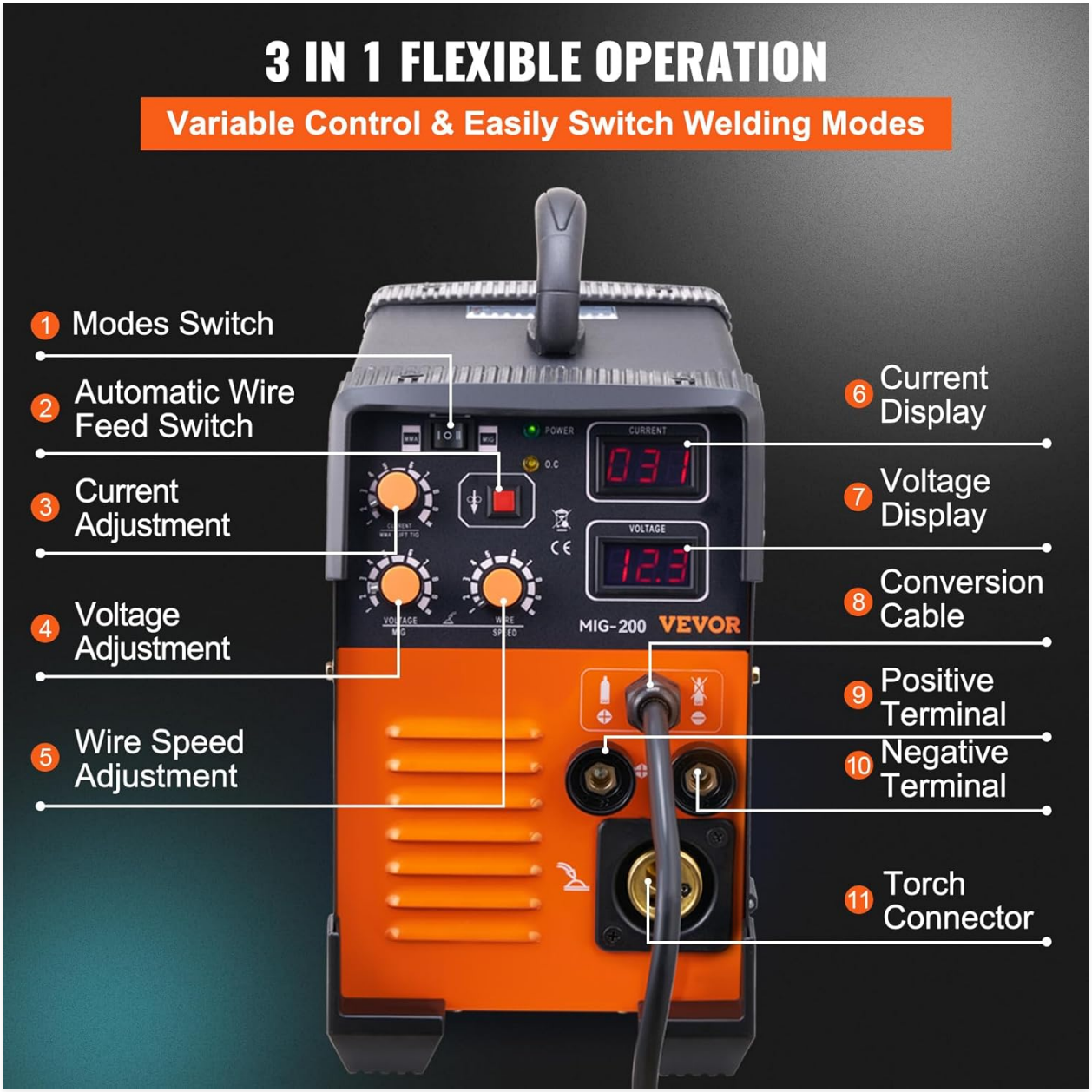

Figure 4: Control Panel. This image highlights the various controls and displays, including mode switch, current/voltage adjustment, wire speed, and digital readouts.

- **Integrated Safety Protection:** The welder features automatic protection against over-current, overload, and overheating. An integrated fan cooling system reduces dust ingress and ensures long-term, stable operation. The machine automatically shuts down if temperatures or electrical parameters exceed safe limits.

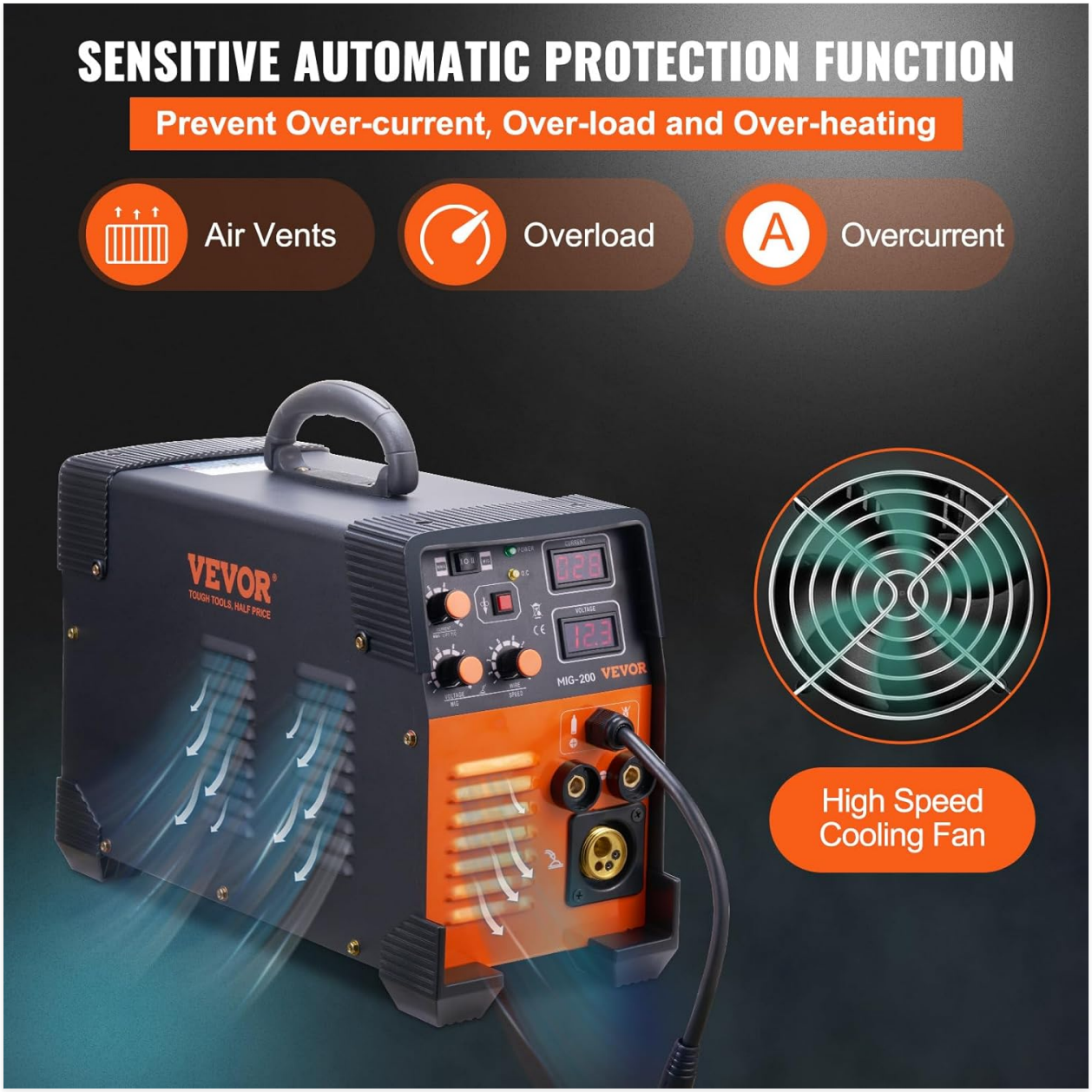

Figure 5: Safety Protection. This image illustrates the air vents and high-speed cooling fan, along with indicators for overload and overcurrent protection.

- **Compact and Portable Design:** Weighing only 8.4 kg (18.5 lbs) and equipped with a comfortable handle, this welder is easy to transport and store, making it ideal for various work environments, including outdoor repairs and DIY projects.

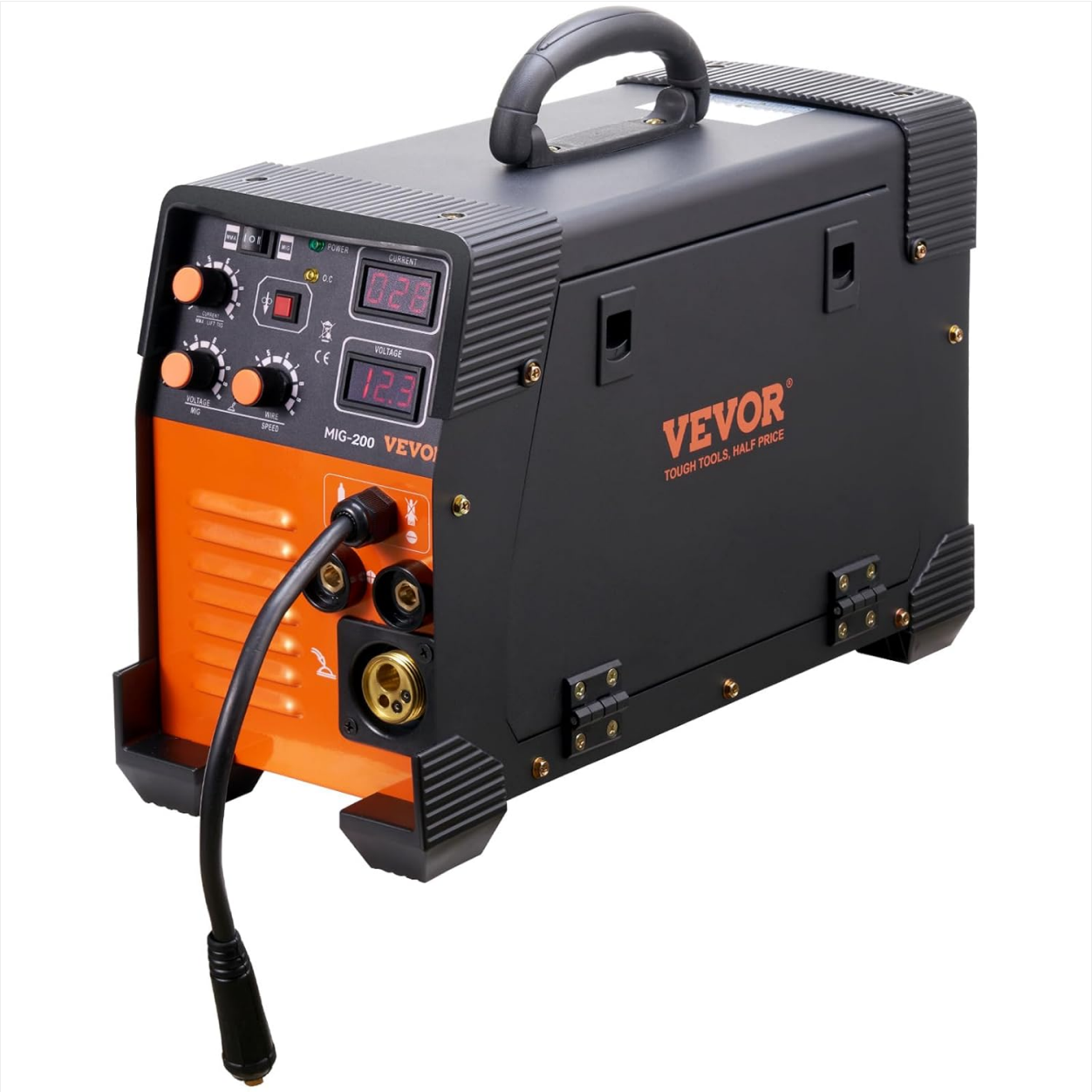

Figure 6: Portable Design. This image shows the side view of the welder, emphasizing its compact size and the integrated carry handle for easy transportation.

Package Contents

Upon unpacking, please verify that all items listed below are included:

- 1 x VEVOR MIG-200 Inverter Welder
- 1 x MIG Welding Torch
- 1 x TIG Welding Torch
- 1 x Cable with Electrode Holder (for MMA)
- 1 x Cable with Earth Clamp
- 1 x 2m Argon Tube
- 1 x Welding Goggles & Brush Kit
- 1 x 1 kg Gas-Shielded Carbon Steel Welding Wire (Ø 0.8 mm)
- 1 x Accessory Kit
- 1 x User Manual

Setup

1. **Unpacking and Inspection:** Carefully remove the welder and all accessories from the packaging. Inspect for any signs of damage during transit. Report any damage to the supplier immediately.
2. **Power Connection:** Connect the power cable to a suitable 220V ± 10% single-phase power supply. Ensure the power source meets the welder's requirements and is properly grounded.
3. **Connecting Welding Torches:**
    - **MIG Torch:** Connect the MIG torch to the designated connector on the front panel.
    - **TIG Torch:** Connect the TIG torch to its respective connector.
    - **MMA Electrode Holder:** Connect the electrode holder cable to the positive (+) terminal and the earth clamp cable to the negative (-) terminal for MMA welding.
4. **Loading Welding Wire (for MIG):**
    - Open the wire feeder compartment.
    - Place the wire spool onto the spindle, ensuring it rotates freely.
    - Thread the welding wire through the wire feeder mechanism and into the MIG torch liner.
    - Close the wire feeder compartment.
5. **Gas Connection (for MIG/TIG with gas shield):** If using gas-shielded welding, connect the argon tube from your gas cylinder regulator to the gas inlet on the welder. Ensure all connections are secure and leak-free.

Operating Instructions

Before operating, ensure all safety precautions are in place and you are wearing appropriate PPE.

1. **Power On:** Turn on the main power switch located on the rear of the machine. The digital displays will illuminate.
2. **Select Welding Mode:** Use the 'Modes Switch' on the control panel to select your desired welding process: MIG, MMA, or TIG.
3. **Adjust Parameters:**
    - **Current Adjustment:** Rotate the 'Current Adjustment' knob to set the welding current (Amps) according to your material thickness and welding requirements.
    - **Voltage Adjustment (MIG only):** Rotate the 'Voltage Adjustment' knob to set the welding voltage (Volts) for MIG welding.
    - **Wire Speed Adjustment (MIG only):** Adjust the 'Wire Speed Adjustment' knob to control the wire feed rate. This should be synchronized with your current and voltage settings for optimal results.
4. **Perform Welding:** Once parameters are set, you can begin welding. Always perform test welds on scrap material to fine-tune your settings before working on your main project.
5. **Power Off:** After completing your work, turn off the main power switch and disconnect the machine from the power supply.

Maintenance

Regular maintenance ensures the longevity and safe operation of your welder.

- **Cleaning:** Regularly clean the exterior of the machine with a dry cloth. Use compressed air to blow out dust and debris from the cooling vents. Ensure the machine is unplugged before cleaning.
- **Inspect Cables and Connections:** Periodically check all welding cables, torches, and connections for wear,

damage, or loose fittings. Replace damaged components immediately.

- **Wire Feeder Maintenance (MIG):** Inspect the wire feeder rollers for wear and cleanliness. Ensure the wire liner is free from kinks or blockages.
- **Storage:** Store the welder in a clean, dry environment, away from moisture and extreme temperatures.

Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
No power to the machine	Power cable unplugged, circuit breaker tripped, machine fault	Check power connection, reset circuit breaker, contact support if fault persists
No arc when welding	Loose connections, incorrect settings, faulty torch/electrode holder, poor ground connection	Check all connections, verify settings, ensure good ground contact, inspect torch/holder
Wire feeding issues (MIG)	Wire tangled, wrong roller size, worn liner, clogged contact tip	Untangle wire, ensure correct rollers, clean/replace liner, replace contact tip
Overheat protection activated	Excessive duty cycle, blocked vents, high ambient temperature	Allow machine to cool, clear vents, reduce welding duration

Specifications

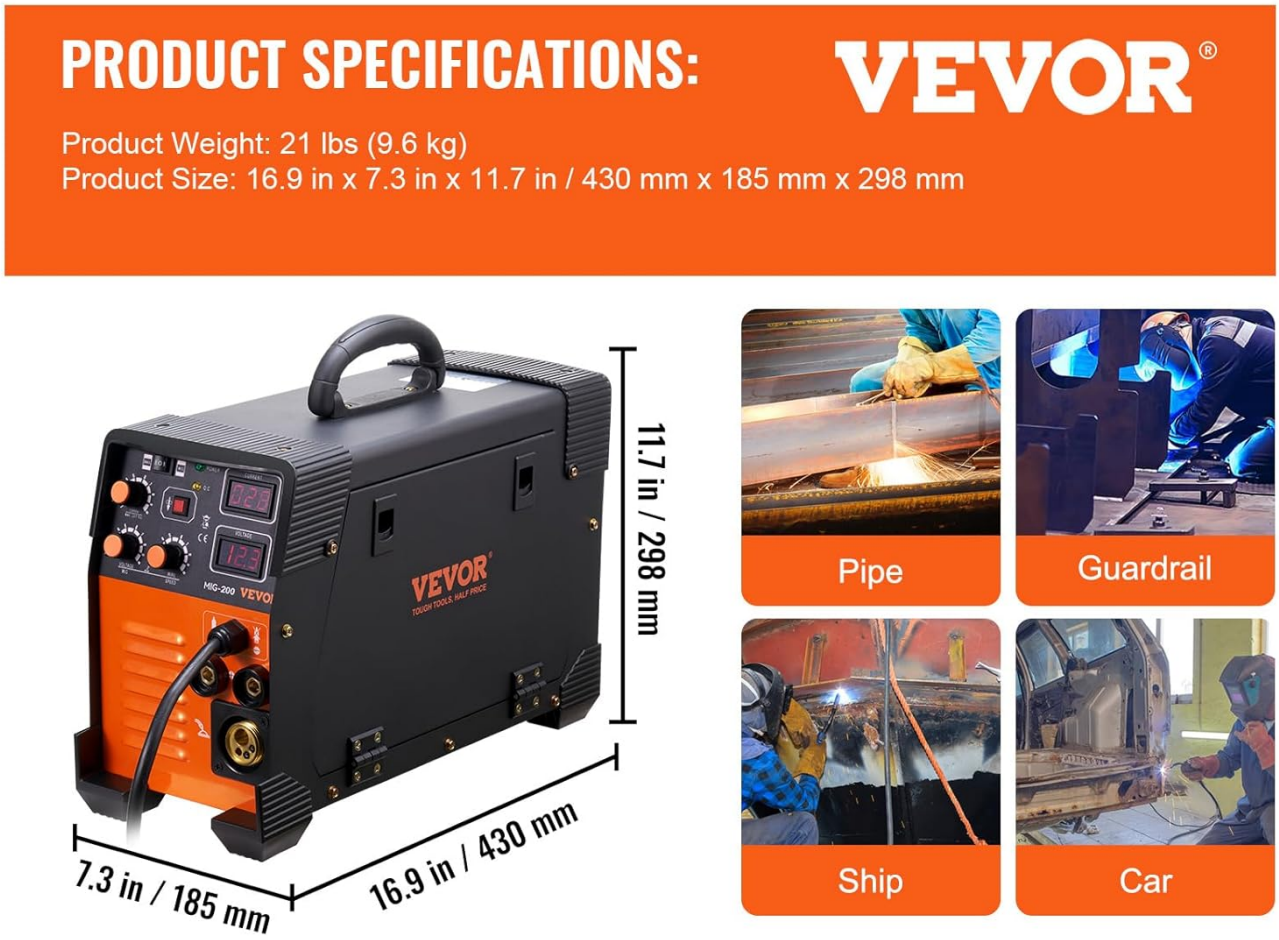

Figure 7: Product Specifications and Applications. This image provides a visual summary of the welder's key technical specifications and examples of its typical applications.

Specification	Value
Model Number	MIG-200
Welder Type	MIG/MMA/TIG Inverter
Voltage	1 Phase 220 V ± 10%
Output Current	30-200 A
Efficiency	85%
Protection Degree	IP21S
Rated Duty Cycle	200 A at 60%
Wire Speed	2.2-12 m/min

Specification	Value
Wire Thickness	0.8 mm & 1.0 mm (0.031" & 0.039")
Wire Weight Capacity	1 kg / 5 kg (2.2 / 11 lbs)
Product Dimensions (L x W x H)	430 mm x 185 mm x 298 mm (16.9 in x 7.3 in x 11.7 in)
Product Weight	8.4 kg (21 lbs)

Contact and Support

For technical assistance, warranty claims, or inquiries regarding spare parts, please contact VEVOR customer support through their official website or the retailer where the product was purchased. Please have your model number (MIG-200) and purchase date available when contacting support.