

- Manuals.plus /
- › FEIFANKE /
- › FEIFANKE MIG135-110V 3-IN-1 Welding Machine User Manual

FEIFANKE MIG135-110V

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Model: MIG135-110V | Brand: FEIFANKE

1. INTRODUCTION

Thank you for choosing the FEIFANKE MIG135-110V 3-IN-1 Welding Machine. This versatile and portable welder is designed for various welding tasks, offering MIG, ARC (MMA/Stick), and Lift TIG functionalities. Its intelligent synergic control simplifies operation, making it suitable for both beginners and experienced welders. This manual provides essential information for safe and effective use, setup, operation, and maintenance of your welding machine.



Figure 1.1: FEIFANKE MIG135-110V 3-IN-1 Welding Machine and included accessories.

2. SAFETY INFORMATION

Always prioritize safety when operating welding equipment. Read and understand all safety warnings and instructions before use. Failure to do so may result in serious injury or property damage.

2.1 General Safety Precautions

- Wear appropriate personal protective equipment (PPE), including welding helmet, gloves, protective clothing, and safety shoes.

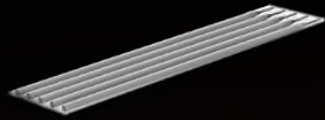
- Ensure adequate ventilation in the welding area to avoid inhaling fumes.
- Keep flammable materials away from the welding area.
- Do not operate the machine in wet conditions or expose it to rain.
- Disconnect power before performing any maintenance or adjustments.

2.2 Built-in Protection Features

The FEIFANKE MIG135-110V is equipped with multiple safety features to ensure reliable and safe operation:

- **Voltage Variation Compensation:** Maintains stable output despite input voltage fluctuations.
- **Overcurrent Protection:** Automatically shuts down if current exceeds safe limits.
- **Overheat Protection:** Prevents damage from excessive temperature buildup.
- **Overvoltage and Undervoltage Protection:** Safeguards the machine from harmful voltage levels.
- **Waterproof IPS21:** Provides protection against vertically falling water drops.

SIZE & ACCESSORIES



5*3/32" welding rods



3*0.8/3*1.0mm Conductivity Nozzles



1*Brush



Electrode Holder



1LB 0.8mm flux core wire



Ground Clamp

3.7KG/8.16LB



Figure 2.1: Safety and protection features of the welding machine, including waterproof, overload, overcurrent, and overheating protection.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x FEIFANKE 135A 110V MIG Welding Machine
- 1 x MIG Torch (2m/6.6ft)
- 1 x Ground Clamp (1.2m/3.94ft)
- 1 x Electrode Holder (1.8m/5.9ft)
- 5 x 3/32" Welding Rods
- 1 x 1 LB 0.8 mm Flux Core Wire
- 3 x 0.8 mm Conductivity Nozzles
- 3 x 1.0 mm Conductivity Nozzles
- 1 x Wire Brush
- 1 x User Manual

Excellent Performance in ARC Welding



Hot Start



VRD



ARC Force



Anti-Stick



Figure 3.1: All accessories included with the FEIFANKE MIG135-110V welding machine, including the MIG torch, electrode holder, ground clamp, flux core wire, welding rods, conductivity nozzles, and brush.

4. SETUP AND OPERATION

4.1 Wire Installation (Flux Core MIG)

1. Open the side panel of the welder.
2. Place the 1 LB flux core wire spool onto the spindle. Ensure the spool lock spring and spacer are correctly positioned.
3. Thread the wire through the wire feeder mechanism. Ensure the drive roller's "0.8" marking faces outward for 0.8mm wire.
4. Close the side panel.



Figure 4.1: Detailed steps for installing the flux core wire spool and threading the wire through the feeder mechanism, ensuring the correct

drive roller size is selected.

4.2 MIG Torch and Ground Clamp Installation

1. Connect the MIG torch to the designated MIG interface on the front panel.
2. Plug the torch's power cable into the 2-pin socket.
3. Connect the ground clamp into the positive terminal.

Note: Incorrect installation will prevent the machine from arcing.

Synergic Control

The wire feed speed is automatically adjusted according to the current.

TWO steps to start welding:

1. Press to select welding mode
2. Rotate to adjust parameter



4.3 Operating Modes (3-IN-1 Functionality)

The FEIFANKE MIG135-110V supports three welding processes:

- **MIG (Gasless Flux Core):** Ideal for general repair work and thin materials. Uses flux-cored wire without external shielding gas.
- **ARC (MMA/Stick):** Suitable for welding carbon and stainless steel (1mm to 5mm). Compatible with 3/32" welding rods.
- **Lift TIG:** Provides precise welding for various metals. (*TIG torch not included, sold separately*).

3-IN-1 110V

Multi-Process Welder



MMA/Stick 



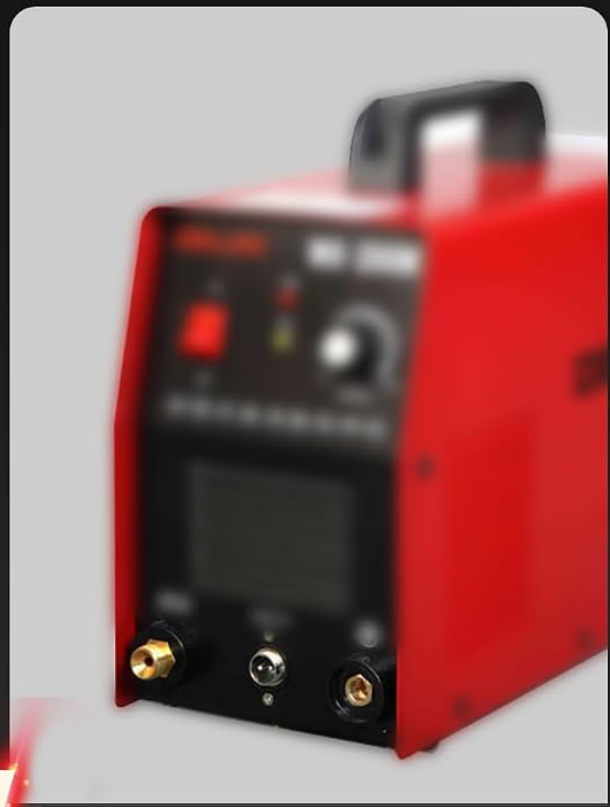
Flux Core MIG 



Lfit TIG 



Figure 4.3: Visual representation of the three welding modes supported by the machine: MMA/Stick, Flux Core MIG, and Lift TIG.



Dual Torch Interface

Dual-Gun System

Install 2 welding guns at once

Instant Mode Switching

No need to change guns,
just change modes

Faster Work

Save time, increase efficiency

VS

Single Torch Interface

Single-Gun Only

Change guns for different modes

Slower Setup

Wasted time on adjustments

More Effort

Extra steps required

Figure 4.4: The dual torch interface allows for quick switching between MIG and MMA/TIG modes without changing guns, enhancing efficiency.

4.4 Synergic Control and Parameter Adjustment

The synergic control feature intelligently matches the voltage and automatically adjusts the wire feeding speed based on the current setting (30-135A). This simplifies setup and ensures optimal welding parameters.

1. **Step 1:** Press the parameter adjustment knob to select the desired welding mode (MIG, ARC, or Lift TIG).
2. **Step 2:** Rotate the parameter adjustment knob to fine-tune the current (30-135A). The machine will recommend a

suitable plate thickness based on your settings.

The large digital panel provides clear readings for welding mode, automatic rod diameter, automatic plate thickness, input voltage, digital display of current, and the parameter knob.

Intelligent Digital Display

Clear display and easy to operate

1: Welding Mode

2: Automatic Rod Diameter

3: Automatic Plate Thickness

4: Input Voltage

5: Digital Display

6: Parameter Knob
(Press button to switch modes)



Figure 4.5: The intelligent digital display and synergic control knob for easy mode selection and parameter adjustment.

4.5 ARC Welding Performance Features

For ARC welding, the machine incorporates advanced features for a smoother and more stable arc:

- **Hot Start:** Provides an initial boost of current to ensure easy arc ignition.
- **VRD (Voltage Reduction Device):** Reduces open-circuit voltage for increased safety.
- **ARC Force:** Prevents the electrode from sticking and maintains arc stability.
- **Anti-Stick:** Automatically reduces current if the electrode sticks, allowing for easy removal.

WORLD CLASS INSURANCE

Certified by CE UKCA FC UL standard labs



Waterproof



Overload



Over current
Protection



Over heating
Protection



Figure 4.6: Key features enhancing ARC welding performance, including Hot Start for easy ignition and Anti-Stick for smooth operation.

5. SPECIFICATIONS

Feature	Detail
Manufacturer	FEIFANKE
Part Number	MIG135
Item Weight	13.7 pounds
Package Dimensions	14.45 x 11.42 x 7.52 inches
Item Model Number	MIG135-110V
Size	Large
Style	MIG135-110V
Pattern	110V
Power Source	AC/DC
Output Current	30-135A
Suitable Plate Thickness	1mm to 5mm (carbon and stainless steel)
Certifications	CE, UKCA, FCC, UL

6. MAINTENANCE

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

- Keep the machine clean and free from dust and debris. Use a dry cloth for cleaning.
- Periodically check all cables and connections for wear or damage. Replace if necessary.
- Ensure proper ventilation by keeping the cooling fan and vents clear of obstructions.
- Store the machine in a dry, well-ventilated area when not in use.



Figure 6.1: The welding machine features a high-efficiency cooling fan for effective heat dissipation, ensuring stable performance during extended use.

7. TROUBLESHOOTING

If you encounter issues with your welding machine, refer to the following common troubleshooting steps:

- **No Power:** Check power cord connection, wall outlet, and ensure the power switch is ON.
- **No Arc:** Verify all connections (MIG torch, ground clamp, electrode holder) are secure. Ensure wire is properly fed and contact tip is clear. Check selected welding mode and parameters.
- **Poor Weld Quality:** Adjust current/wire speed settings. Ensure proper material preparation and clean work surface. Check for correct wire diameter and contact tip size.
- **Overheat Indicator:** Allow the machine to cool down. Ensure proper ventilation and clear any obstructions from the cooling vents.

For persistent issues, please contact FEIFANKE customer support.

8. WARRANTY AND SUPPORT

FEIFANKE stands behind the quality of its products. Your welding machine comes with:

- A **30-day money-back guarantee**.
- A **2-year guarantee** for manufacturing defects.
- Defective welding machines can be replaced within **60 days** of purchase.

FEIFANKE provides 24/7 customer service to assist you with any questions or concerns. Please refer to the contact information provided in your original purchase documentation for support.

IMPORTANT NOTE REGARDING VIDEOS

Based on the provided information, there are no official product videos from the seller available for embedding in this manual. All available videos are from third-party influencers and therefore cannot be included as per the content generation guidelines.

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Details

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