ROROLL GFK-160

Pneumatic Liquid Filling Machine GFK 160 User Manual

Model: GFK-160 | Brand: ROROLL

1. Introduction

This user manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of the ROROLL GFK-160 Pneumatic Liquid Filling Machine. This digital control automatic bottle filler is designed for precise and efficient filling of low-viscosity liquids such as water, drinks, perfumes, juices, and beer, making it suitable for various applications in pharmaceutical, cosmetic, food, and other industries.

The GFK-160 features both automatic and manual control modes, a durable pump, and a robust 304 stainless steel construction for reliability and hygiene.



Figure 1.1: ROROLL GFK-160 Pneumatic Liquid Filling Machine, showing the main unit, foot pedal, filling nozzle, and intake tube with filter.

2. Safety Instructions

Please read and understand all safety instructions before operating the machine to prevent injury or damage.

- Always ensure the machine is properly grounded.
- Do not operate the machine with wet hands or in wet environments.
- Disconnect power before performing any maintenance, cleaning, or assembly.
- Keep hands and loose clothing away from moving parts during operation.
- Use only liquids with low viscosity as specified. Do not use corrosive or highly viscous liquids.
- Ensure all connections (tubing, power cord) are secure before use.
- Keep the work area clean and well-lit.
- This machine is designed for liquid filling. Do not use it for any other purpose.



Figure 2.1: The machine is ideal for low-viscosity liquids like oils, drinks, perfumes, and cosmetics. It is not suitable for corrosive or highly viscous liquids.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, contact customer support.

- 1 x Filling Machine (GFK-160 Main Unit)
- 1 x Power Cord
- 1 x Screwdriver
- 1 x Inner Hexagonal Wrench
- 1 x User Manual (this document)

4. Product Overview and Components

The ROROLL GFK-160 is constructed from durable 304 stainless steel, ensuring longevity and hygienic operation. Key components include the main control unit, pump, anti-drip nozzle, and foot pedal.



Figure 4.1: Key features include food-grade 304 stainless steel construction, a filter mesh to prevent blocking, and an anti-drip nozzle for efficient filling.

- **Control Panel:** Features an LED display and buttons for setting parameters and controlling operation.
- **Pump:** The advanced pump ensures efficient liquid transfer with a maximum flow rate of 0.8 gal/min (3.2 L/min).
- **Anti-Drip Nozzle:** Designed to prevent leakage and ensure precise filling.
- **Filter Mesh:** Located on the intake tube to prevent particles from entering the pump and nozzle.
- **Foot Pedal:** Provides manual control for single-shot dispensing.
- **Air Vents:** Located on the side of the unit for heat dissipation, ensuring long-term operation.

5. Specifications

Detailed technical specifications for the GFK-160 filling machine:

Parameter	Value

Model	GFK-160
Power	30W
Max. Flow Rate	0.8 gal/min (3.2 L/min)
Max. Suction Distance	6.6 ft (2 m)
Repetitive Error	< 0.5%
Filling Volume Range	0.18-123.2 oz (5-3500 ml)
Filling Speed	5-30 bottles/min
Nozzle Diameter	0.31 in (8 mm)
Anti-Dripping Function	Available
Memory Function (out of Power)	Available
Suitable Soft Tube	17# (interior diameter: 6.4 mm, thickness: 1.6 mm, max pressure: 0.24Mp)
Product Size (L x W x H)	13.8 x 10.7 x 5.9 in (35 x 27 x 15 cm)
Net Weight	12.1 lbs (5.5 kg)

PRODUCT SPECIFICATIONS:

Net Weight: 12.1 lbs / 5.5 kg
Product Size: 13.8 x 10.7 x 5.9 in / 35 x 27 x 15 cm



Figure 5.1: Dimensions of the GFK-160 machine: 13.8 inches (35 cm) long, 10.7 inches (27 cm) wide, and 5.9 inches (15 cm) high.

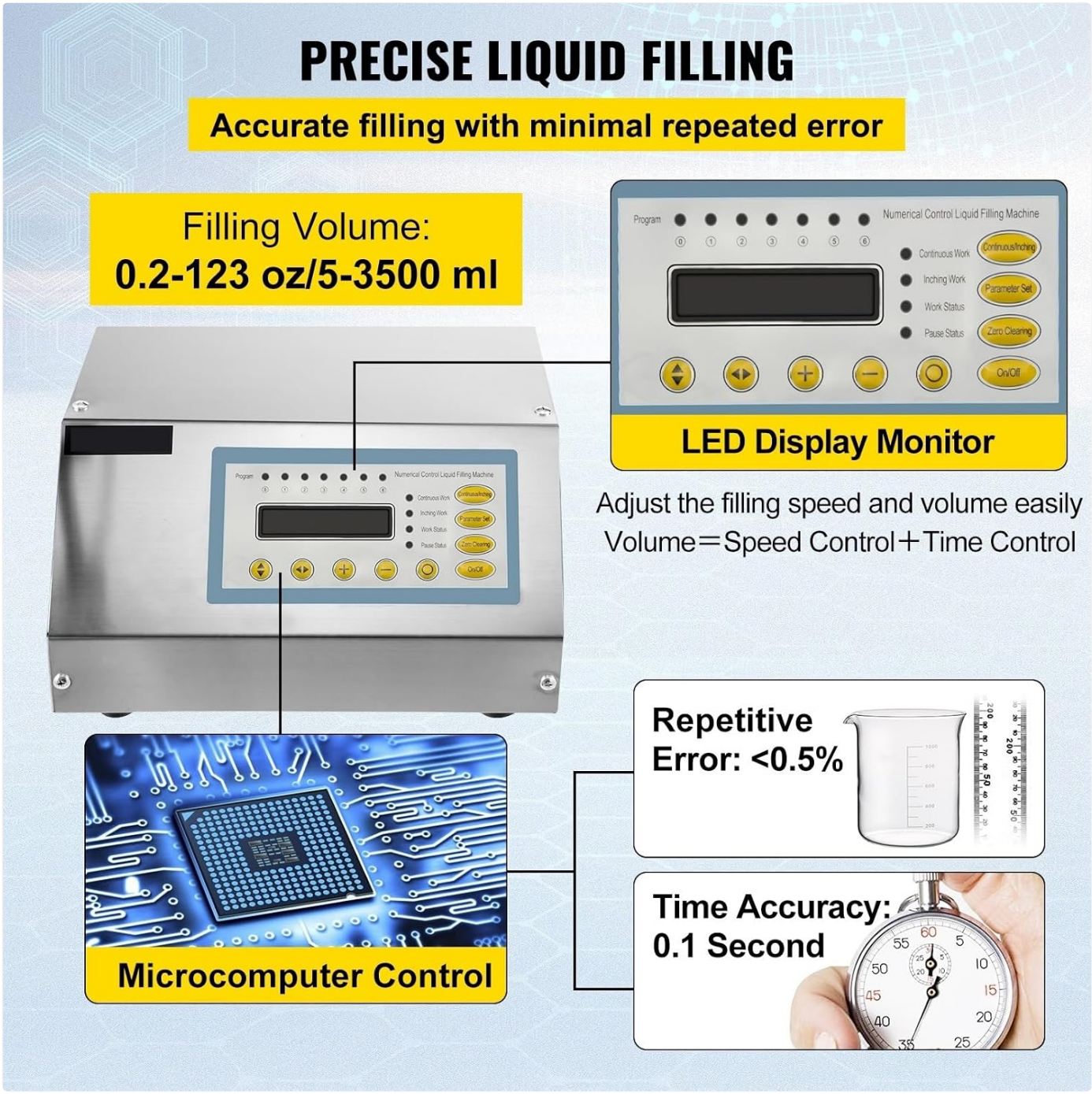


Figure 5.2: The machine offers precise liquid filling with a volume range of 0.2-123 oz (5-3500 ml), a repetitive error of less than 0.5%, and time accuracy of 0.1 second, controlled by a microcomputer and LED display.

6. Setup

Follow these steps to set up your GFK-160 filling machine for first use:

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future storage or transport.
2. **Placement:** Place the main unit on a stable, level, and clean surface. Ensure there is adequate space around the machine for ventilation and operation.
3. **Nozzle and Stand Assembly:**
   - Attach the nozzle stand to the main unit using the provided screws and wrench.
   - Secure the filling nozzle to the stand, ensuring it is at the desired height for your bottles.
4. **Tube Connection:**
   - Connect the intake tube (with filter mesh) to the designated inlet port on the machine. Ensure the filter end is submerged in your liquid supply.

- Connect the output tube (with anti-drip nozzle) to the designated outlet port.

5. **Foot Pedal Connection:** Plug the foot pedal cable into the corresponding port on the side of the main unit.
6. **Power Connection:** Connect the power cord to the machine's power socket, then plug it into a suitable grounded electrical outlet.
7. **Initial Cleaning:** Before first use, run clean water through the system to flush out any manufacturing residues.

7. Operating Instructions

The GFK-160 offers both automatic and manual control modes for flexible operation.

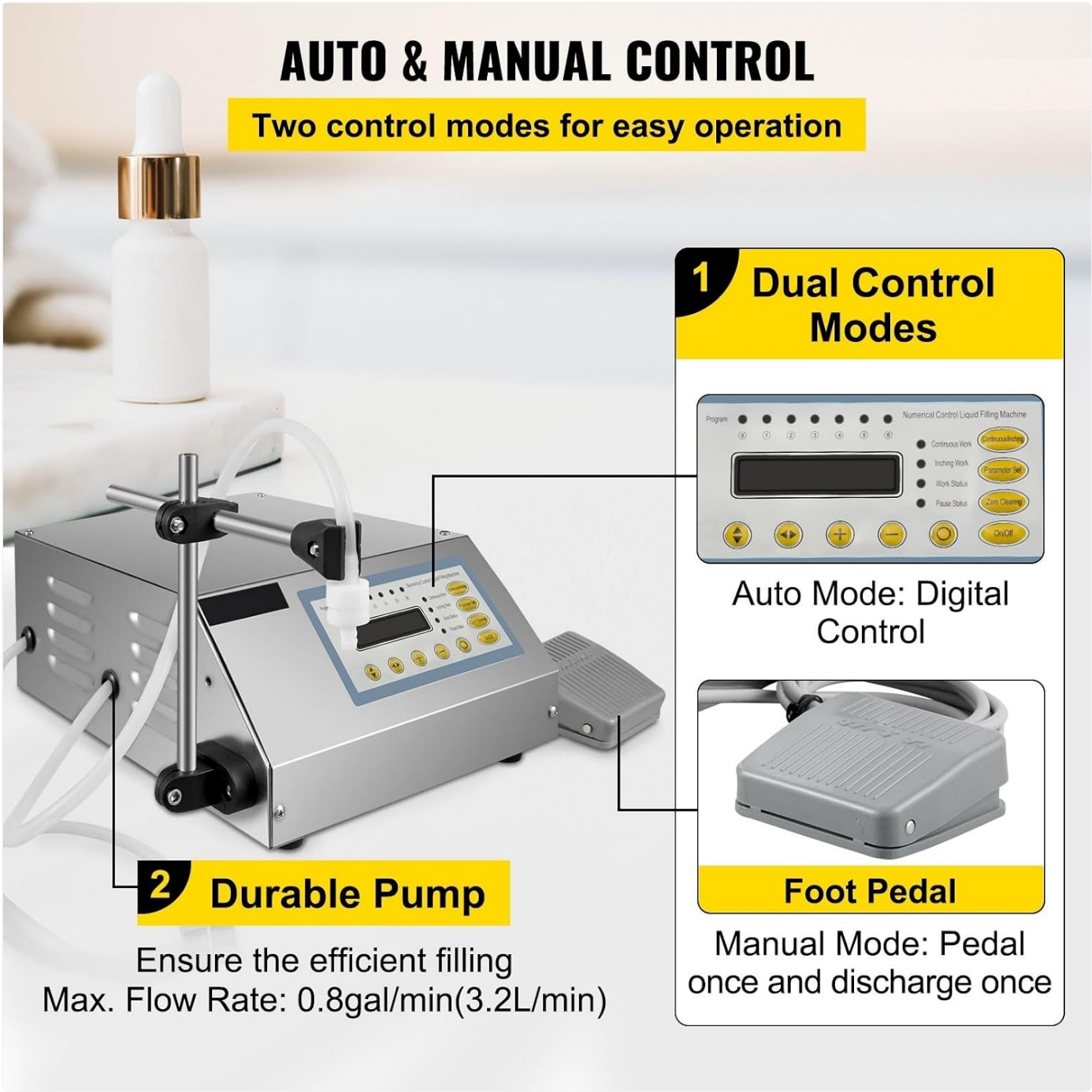


Figure 7.1: The machine supports both automatic digital control and manual operation via the foot pedal.

7.1. Control Panel Overview

The control panel features an LED display and several buttons for setting and controlling the filling process. Refer to the diagram on the machine's panel for specific button functions (e.g., Program, Continuous Work, Inching Work, Parameter Set, Work Status, Pause Status, Clear Counting, On/Off).

7.2. Setting Filling Parameters

To set the desired filling volume and speed:

1. Turn on the machine using the On/Off button.
2. Press the "Parameter Set" button to enter the setting mode.
3. Use the arrow keys (Up/Down) to navigate between parameters such as filling time, interval time, and counting mode.
4. Use the Left/Right keys to adjust the values. The filling volume is determined by the filling time and pump speed.
5. Press "Parameter Set" again to save and exit the setting mode.

7.3. Automatic Mode Operation

In automatic mode, the machine fills continuously based on the set parameters.

1. Ensure parameters are set as desired (refer to 7.2).
2. Place bottles under the nozzle.
3. Press the "Continuous Work" button (or equivalent for auto mode start) on the control panel.
4. The machine will begin filling bottles automatically with the set volume and interval.
5. To pause or stop, press the "Pause Status" or "On/Off" button.

7.4. Manual Mode Operation

Manual mode allows for single-shot dispensing using the foot pedal.



Figure 7.2: The foot switch provides convenient manual control for single dispensing actions.

1. Ensure parameters are set as desired (refer to 7.2).
2. Place a bottle under the nozzle.
3. Press the foot pedal once. The machine will dispense the set volume of liquid.
4. Release the foot pedal.
5. Repeat for each bottle.

8. Maintenance

Regular maintenance ensures the longevity and optimal performance of your GFK-160 machine.

- **Daily Cleaning:** After each use, especially when changing liquids, run clean water through the system to flush out any residual liquid. For thorough cleaning, disassemble the tubes and nozzle and wash them with appropriate cleaning solutions.

- **Exterior Cleaning:** Wipe down the exterior of the machine with a damp cloth. Do not use abrasive cleaners or immerse the main unit in water.
- **Filter Inspection:** Regularly inspect the filter mesh on the intake tube for clogs or damage. Clean or replace as necessary to ensure proper flow.
- **Tube and Nozzle Inspection:** Check tubes and the anti-drip nozzle for any signs of wear, cracks, or blockages. Replace damaged components promptly.
- **Storage:** When not in use for extended periods, clean the machine thoroughly, disconnect power, and store it in a dry, dust-free environment.

9. Troubleshooting

This section addresses common issues you might encounter with your GFK-160 machine.

Problem	Possible Cause	Solution
Machine does not power on.	No power supply; loose power cord.	Check power outlet; ensure power cord is securely connected to both the machine and the outlet.
Liquid flow is weak or inconsistent.	Clogged filter; kinked or blocked tubing; air in the system; liquid too viscous.	Clean or replace filter; check tubing for kinks or blockages; prime the pump by running water through it; ensure liquid viscosity is suitable.
Filling volume is inaccurate.	Incorrect parameter settings; air bubbles in liquid; pump wear.	Re-calibrate filling time/volume settings; ensure liquid is free of excessive air bubbles; if persistent, pump may require service.
Liquid leaks from nozzle.	Anti-drip function not working; nozzle not properly seated; damaged nozzle.	Check anti-drip mechanism; ensure nozzle is securely attached; replace nozzle if damaged.
Foot pedal not responding.	Loose connection; faulty pedal.	Ensure foot pedal cable is securely plugged in; test machine in auto mode to confirm main unit functionality. If issue persists, pedal may need replacement.

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact ROROLL customer service. Keep your purchase receipt as proof of purchase.
Manufacturer: ROROLL
Model Number: 1005002865143526 (GFK-160)

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