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› Moonshan Liquid Filling Machine User Manual

Moonshan Double Nozzle

Liquid Filling Machine User Manual

Model: Double Nozzle

Brand: Moonshan

1. INTRODUCTION

This manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your Moonshan Liquid Filling Machine. This automatic bottle filler machine features a digital control system and a 22 oz/min peristaltic pump, designed for precise filling of various low-viscosity liquids such as wine, cosmetic oil, beverages, lotions, and essential oils. Please read this manual thoroughly before operating the machine to ensure safe and efficient use.



Figure 1: Moonshan Double Nozzle Liquid Filling Machine overview.

2. PRODUCT FEATURES

- **Upgraded 22 oz/min Peristaltic Pump:** Liquid contacts only the tube, preventing cross-contamination. Features self-priming, air cut-off, easy disassembly, high temperature resistance (up to 212°F/100°C), and corrosion resistance (75% alcohol applicable).
- **Wide Application:** Suitable for low-viscosity, particle-free, slightly corrosive liquids (e.g., wine, beverage, cosmetic oil, essential oil, MCT oil). Ideal for filling amounts less than 5 oz. Includes OD 4mm and OD 6mm nozzles.
- **Digital Input:** Precise and convenient digital display control for speed adjustment.
- **Multifunctional Design:** LED digital display, bottle counting, independent pump control, self-priming, thermal protection, anti-drip function, power-off memory, automatic/manual operation conversion, continuous idling and load operation.

HYGIENE PERISTALTIC PUMP



Hygiene



Pollution-free



Corrosion-resistant

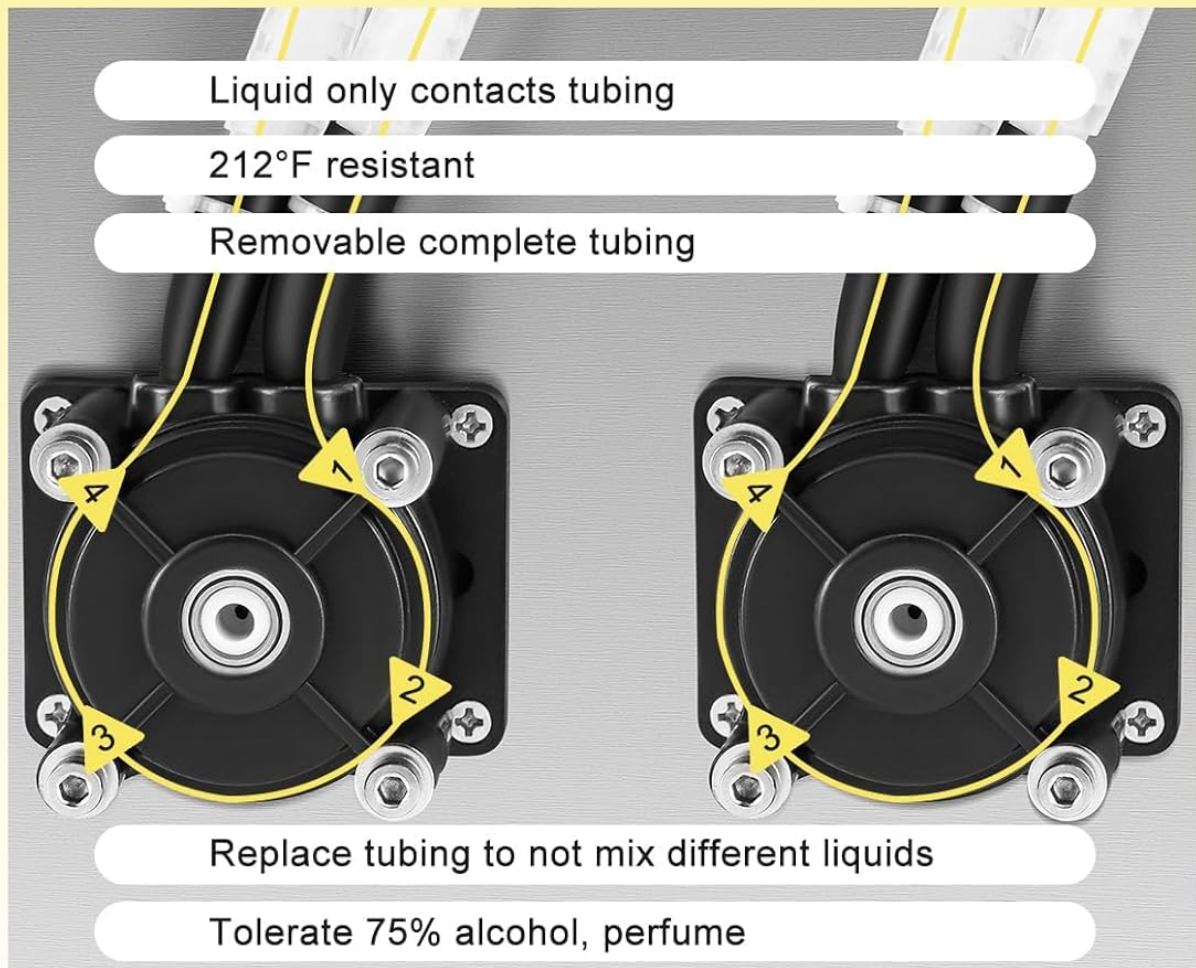


Figure 2: Advantages of the peristaltic pump, highlighting hygiene, pollution-free operation, and corrosion resistance. Liquid only contacts the tubing, which is 212°F resistant and easily removable for replacement.

DOUBLE NOZZLE

High-precision Peristaltic Pump Filling Machine



22 FL.OZ/min per nozzle



<1% error



Figure 3: Double nozzle design for high-precision filling, achieving less than 1% error with a filling speed of 22 FL.OZ/min per nozzle.

INDEPENDENT CONTROL DESIGN

1. Independent control of pump's speed and status
2. Double work efficiency
3. Fill different liquids at the same time
4. Fill different volumes at the same time



Simple and Clear to Use

Adjust settings as you needed



Figure 4: Independent control design allows for separate adjustment of pump speed and status, enabling double work efficiency and the ability to fill different liquids or volumes simultaneously. The digital display provides clear and simple settings adjustment.

QUALITY ACCESSORIES

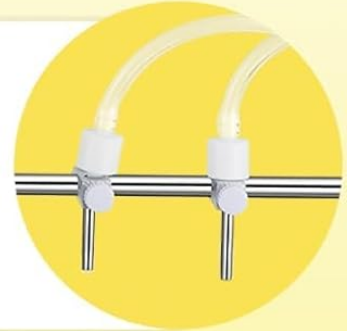


Check Valves

Attached to inlet tubing and discharge nozzle, ensure accuracy and stability

304 Stainless Steel Nozzle

4mm and 6mm included, long design for pouches



Quality Mesh Filter

Prevent foreign matters from entering pump to destroy it

Adjustable Bracket

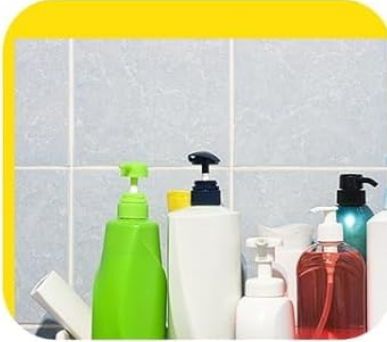
Adjust the filling height and direction according to your own needs



Figure 5: Included quality accessories: Check Valves attached to inlet tubing and discharge nozzle for accuracy and stability; 304 Stainless Steel Nozzles (4mm and 6mm) suitable for various bottle openings; Quality Mesh Filter to prevent foreign matter from damaging the pump; and an Adjustable Bracket for setting filling height and direction.

WIDESPREAD APPLICATIONS

Design for small amount and precise filling needs



Daily Chemical

Glass Detergent 75%,
Alcohol Disinfectant



Thin Oil

Oil Based Tincture



Essential Oil

Orange Oil,
Lavender Oil



Cosmetics

Cosmetic oil,
Toner



Beverage

Water, Juice,
Wine

suitable for **< 5 OZ**



Gel, Sauce, Acetone, 99.9% Isopropanol,
Juice with pulp



Figure 6: The machine is designed for small amount and precise filling needs, suitable for daily chemicals, thin oils, essential oils, cosmetics, and beverages. It is ideal for liquids under 5 oz. Not suitable for gel, sauce, juice with pulp, acetone, or thick oils.

3. SETUP

Before initial operation, ensure the machine is placed on a stable, level surface. Connect the power supply. Follow these steps for initial preparation:

1. **Connect Tubing:** Attach the inlet and outlet tubing securely to the machine and nozzles.

- 2. Install Nozzles:** Select the appropriate nozzle (OD 4mm or OD 6mm) for your bottle opening and attach it to the discharge end of the tubing.
- 3. Adjust Bracket:** Loosen the hex screw on the adjustable bracket to set the desired filling height and direction of the drip nozzle. Tighten the screw to secure.
- 4. Empty Air from Tubing:** Before filling, it is crucial to remove any air from the tubing. Press and hold the "Inching" button on the control panel until liquid flows smoothly through the nozzles, indicating all air has been purged.

ADVANTAGES OF PERISTALTIC PUMP



1. Mold growing inside the pump.



2. Small particles block the pump.



3. Complex to repair machine and difficult to clean.





Sanitary



Precise



Visible



Convenient

Figure 7: The adjustable bracket allows for precise positioning of the filling nozzles.

Foot Pedal

The liquid filling machine is equipped with a footswitch to control the filling process, and you can use two methods to control the state of the machine: stepping on it with your feet or pressing it with your hands.




Figure 8: Use the "Inching" button to quickly empty air from the tubing before operation or to clean the tubing after use.

4. OPERATING INSTRUCTIONS

The Moonshan Liquid Filling Machine offers both manual and automatic filling modes, controlled via a digital panel and an optional foot pedal.

4.1 Determining Filling Time

To achieve accurate filling volumes, first determine the required filling time for your desired liquid and volume. This can be done by using the "Setting" key:

1. Ensure tubing is purged of air (use "Inching" button if necessary).
2. Place a measuring container (e.g., graduated cylinder) under the nozzle.

3. Press the "Setting" key. The machine will begin dispensing liquid.
4. Observe the digital display for the elapsed time. Stop the filling when the desired volume is reached in your measuring container.
5. Note the time displayed. This is your optimal filling time for that specific volume and liquid viscosity.

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Video 1: Demonstrates how to operate the Moonshan Peristaltic Pump Filling Machine, including setting filling time, and using manual, foot pedal, inching, and automatic modes. This video specifically shows the operation for a single nozzle machine, but the principles apply to the double nozzle model for setting individual pump parameters.

4.2 Setting Filling Parameters

Once you have determined the filling time, you can set the parameters on the control panel:

1. Use the "Set/Exit", "Move", "Add/Unit" buttons to adjust the "Filling Time" and "Waiting Time" (delay between fills in automatic mode) as needed.
2. Adjust the pump speed using the dedicated speed adjustment buttons (usually labeled with '+' and '-' and a digital display for speed, e.g., 0-100).

4.3 Filling Modes

- **Manual Filling Mode:** Press the "Manual" button. Each press of the "Manual" button or activation of the foot pedal will initiate a single filling cycle based on the set filling time.
- **Automatic Filling Mode:** Press the "Auto" button. The machine will continuously perform filling cycles based on the set "Filling Time" and "Waiting Time".
- **Foot Pedal Operation:** The machine is equipped with a foot pedal for convenient manual control. Press the foot pedal to start a filling cycle. This is particularly useful for hands-free operation.
- **Inching Button:** This button allows for momentary liquid dispensing. It is primarily used for purging air from the tubing during setup or for cleaning the tubing after use by pulling liquid out. Press and hold to activate.

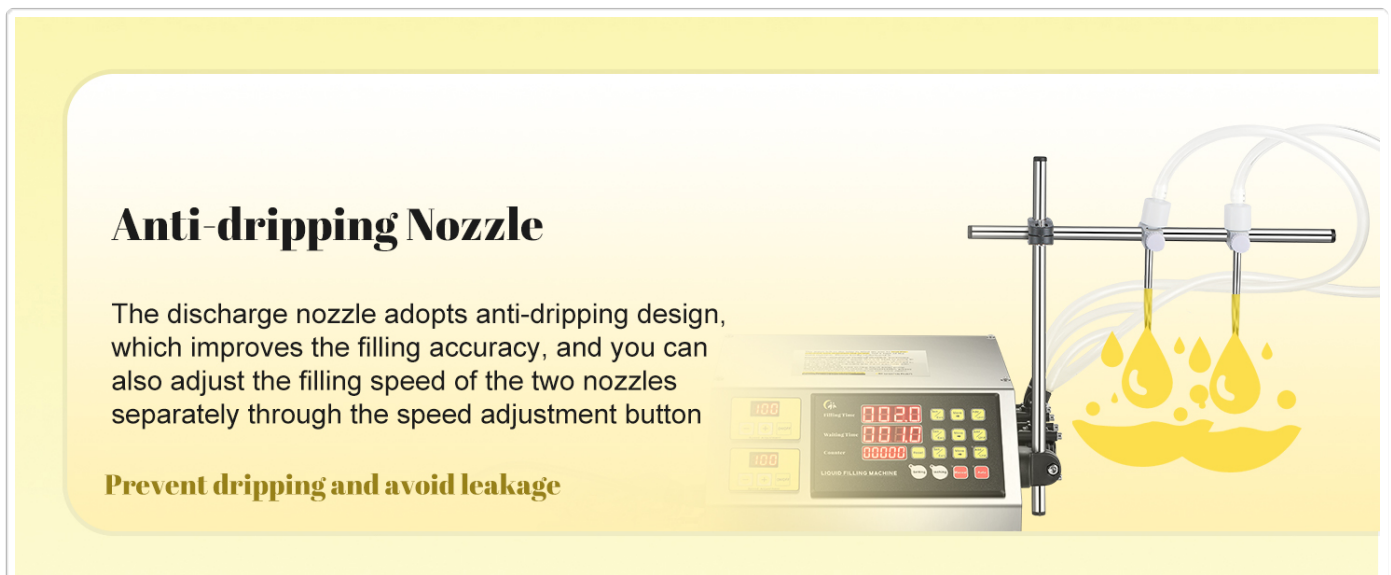


Figure 9: The foot pedal provides convenient hands-free control for starting and stopping filling cycles.

Removable Tubing

The two tubing at the connection of peristaltic pump can be moved, which is very convenient for replacement.

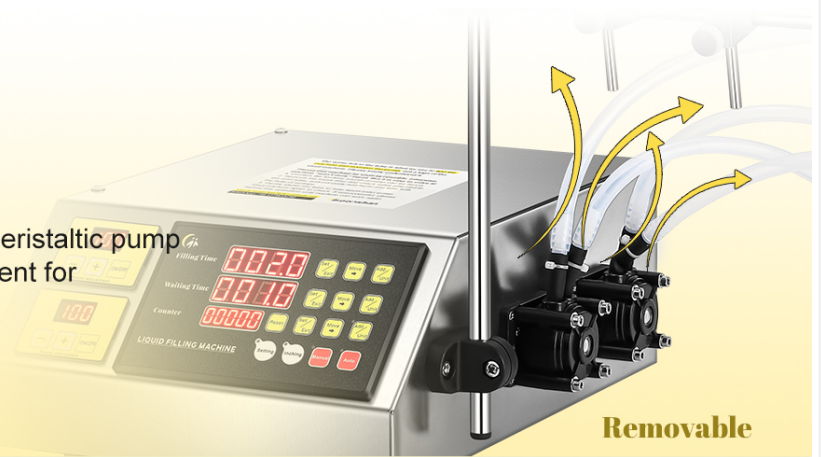


Figure 10: The anti-dripping nozzle design prevents leakage and improves filling accuracy.

5. MAINTENANCE

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

- **Tubing Cleaning:** After each use, especially when changing liquids or for storage, clean the tubing thoroughly. Use the "Inching" button to run cleaning solution (e.g., warm soapy water followed by clean water) through the system until clear.
- **Tubing Replacement:** The peristaltic tubes are designed for easy replacement. Regularly inspect the tubes for wear, cracks, or discoloration. Replace them as needed to maintain hygiene and filling accuracy.
- **Filter Cleaning:** Periodically check and clean the mesh filter to prevent blockages and ensure smooth liquid flow.
- **General Cleaning:** Wipe down the exterior of the machine with a damp cloth. Avoid using abrasive cleaners or submerging the unit in water.

Adjustable Bracket

After loosening the hex screw with a hex wrench, the height and direction of the drip nozzle can be adjusted freely.



Figure 11: The two tubings at the connection of the peristaltic pump are easily removable for cleaning and replacement.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No liquid dispensed / Pump not running.	Power not connected. Tubing kinked or blocked. Air in tubing. Pump motor issue.	Check power connection and switch. Inspect tubing for kinks or blockages. Use "Inching" button to purge air. Contact customer support if pump motor is faulty.
Inconsistent filling volume.	Air bubbles in liquid/tubing. Incorrect filling time setting. Liquid viscosity changes. Worn peristaltic tubes.	Ensure liquid is free of excessive air. Purge tubing. Recalibrate filling time for current liquid. Adjust filling time or speed for new viscosity. Replace peristaltic tubes.
Liquid leakage.	Loose tubing connections. Damaged tubing. Nozzle not properly sealed.	Tighten all tubing connections. Inspect and replace damaged tubing. Ensure nozzle is securely attached and anti-drip mechanism is clear.
Pumps run at different rates (Double Nozzle model).	Individual pump speed settings are not synchronized. Tubing wear or blockage difference between nozzles.	Adjust individual pump speed settings on the control panel to match. Inspect and clean/replace tubing for each nozzle to ensure consistent flow.

7. SPECIFICATIONS

- **Model:** Double Nozzle
- **Filling Speed:** Up to 22 oz/min per nozzle
- **Pump Type:** Peristaltic Pump
- **Control:** Digital
- **Temperature Resistance:** Up to 212°F (100°C)
- **Corrosion Resistance:** Suitable for 75% alcohol
- **Nozzle Sizes Included:** OD 4mm, OD 6mm
- **Package Dimensions:** 14.5 x 14.1 x 7.3 inches
- **Item Weight:** 12.32 pounds
- **ASIN:** B08YVDSG26
- **Date First Available:** March 13, 2021

8. WARRANTY AND SUPPORT

Moonshan provides a one-year replacement warranty for broken accessories, which includes the pump, foot pedal, and nozzles. For any questions, technical assistance, or warranty claims, please contact Moonshan customer support. Refer to your purchase documentation for specific contact details or visit the official Moonshan store page.

You can visit the Moonshan Store for more information: [Moonshan Store](#)