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Hanchen 3-100g Peristaltic Pump Liquid Filling Machine Instruction Manual

Model: 3-100g Liquid Filling Machine

Brand: Hanchen

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, setup, and maintenance of your Hanchen 3-100g Peristaltic Pump Liquid Filling Machine. This automatic, weight-based filling machine is designed for precise dispensing of low-viscosity liquids into small bottles, ranging from 3g to 100g. Its peristaltic pump ensures hygienic and contamination-free filling, making it ideal for essential oils, oral liquids, perfumes, nail polish, and inks.

FULLY AUTOMATIC

Just put the bottle
on and free your hands



Automatically
start



Automatically
tare



Automatically
stop



Automatically
count bottles

Image: The Hanchen 3-100g Liquid Filling Machine, showcasing its compact design and digital control panel.

2. SAFETY INFORMATION

Please read and understand all safety warnings and operating instructions before using the machine. Failure to do so may result in injury or damage to the equipment.

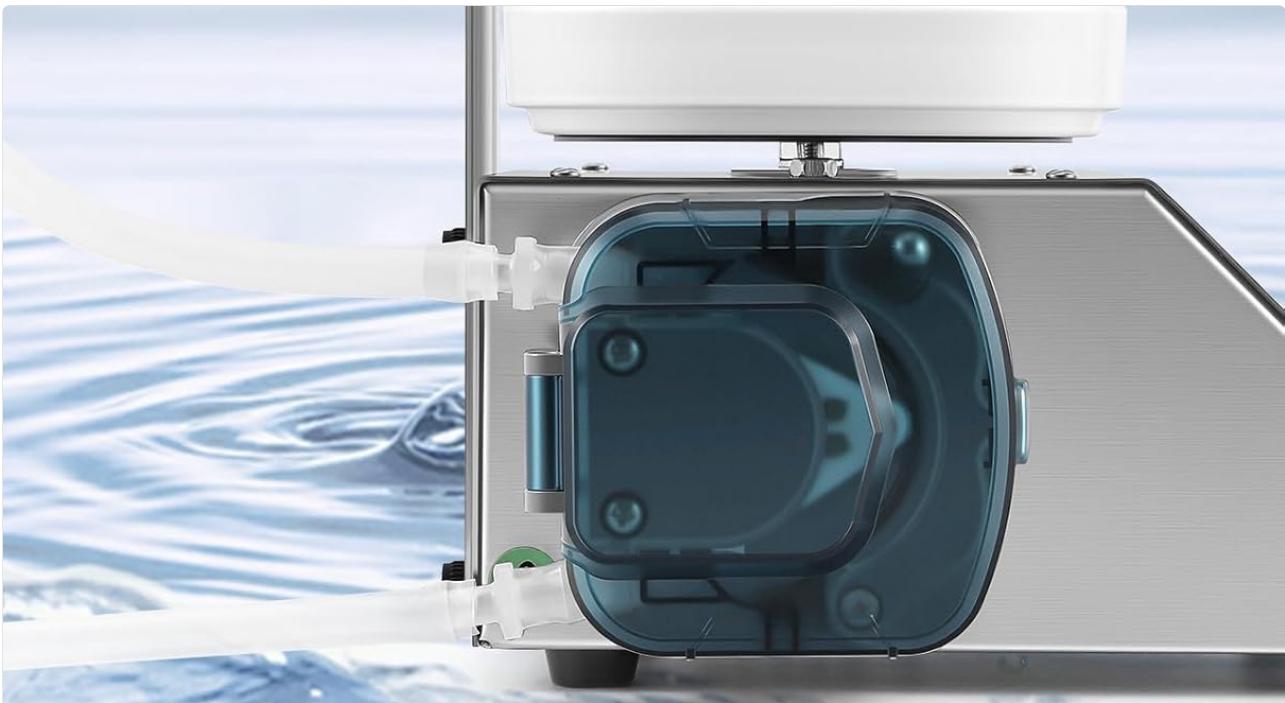
- Always ensure the machine is placed on a stable, level surface.

- Do not operate the machine with wet hands or in wet conditions.
- Ensure the power supply matches the machine's requirements.
- Keep hands and loose clothing away from moving parts during operation.
- Disconnect power before cleaning or performing any maintenance.
- Use only approved accessories and replacement parts.
- Avoid filling highly corrosive or flammable liquids without proper safety precautions and material compatibility checks.

3. PRODUCT OVERVIEW AND COMPONENTS

The Hanchen Liquid Filling Machine consists of several key components designed for precise and automated liquid dispensing:

- **Control Panel:** Features a digital display for weight, set value, counter, and trigger, along with a numeric keypad for input and mode selection.
- **Weighing Pan:** A platform where bottles are placed for weight-based filling.
- **Peristaltic Pump:** A hygienic pump mechanism that ensures liquid only contacts the silicone tubing, preventing contamination.
- **Nozzle Support and Nozzle:** Adjustable support for the filling nozzle, which can be changed for different bottle opening sizes (e.g., 4mm and 6mm).
- **Silicone Tubing:** Food-grade, clear, wear-resistant, and corrosion-resistant tubing for liquid transfer, including a mesh strainer for the inlet.
- **Speed Control Knob:** Located on the side for adjusting pump speed.



HYGIENE PERISTALTIC PUMP

Liquid only contacts silicone tubing, being hygiene and convenient



The peristaltic pump tubing is a consumable that leak due to wear after a period of use. Please replace it promptly at that time.

Image: Close-up of the machine's control panel, showing the digital display and keypad for setting parameters.

HIGH ACCURACY

Even can handle

1ml 1
bottle

Super high
accuracy up to

0.5ml



① Limited theoretical value. There will be instability

Image: Detailed view of the peristaltic pump, highlighting the tubing and its hygienic design.

4. SETUP INSTRUCTIONS

Follow these steps to set up your liquid filling machine:

1. Install the support rod into the designated slot on the machine base and secure it with the provided screws.
2. Use a flat-head screwdriver to open the pump cover.

3. Lift the short bar and open the tube buckle.
4. Place the peristaltic pump tube inside the pump mechanism, ensuring it is properly seated.
5. Close the tube buckle and the pump cover securely.
6. Attach the mesh strainer to the long silicone inlet tube.
7. Connect the long silicone inlet tube to the inlet of the pump head.
8. Connect the short silicone outlet tube to the outlet of the pump head.
9. Connect the other end of the outlet tube to the filling nozzle. Ensure the arrow on the check valve in the middle of the tubing is aligned with the direction of water flow.
10. Adjust the height of the nozzle support using the knob to suit your bottle size.
11. If needed, slip the 4mm nozzle onto the standard nozzle for smaller bottle openings.
12. Place the weighing pan onto the machine. You can use foam strips to position bottles for consistent filling.

SLIDE RAIL BRACKET

Advanced design of adjusting the height of the nozzle by simply move the knob

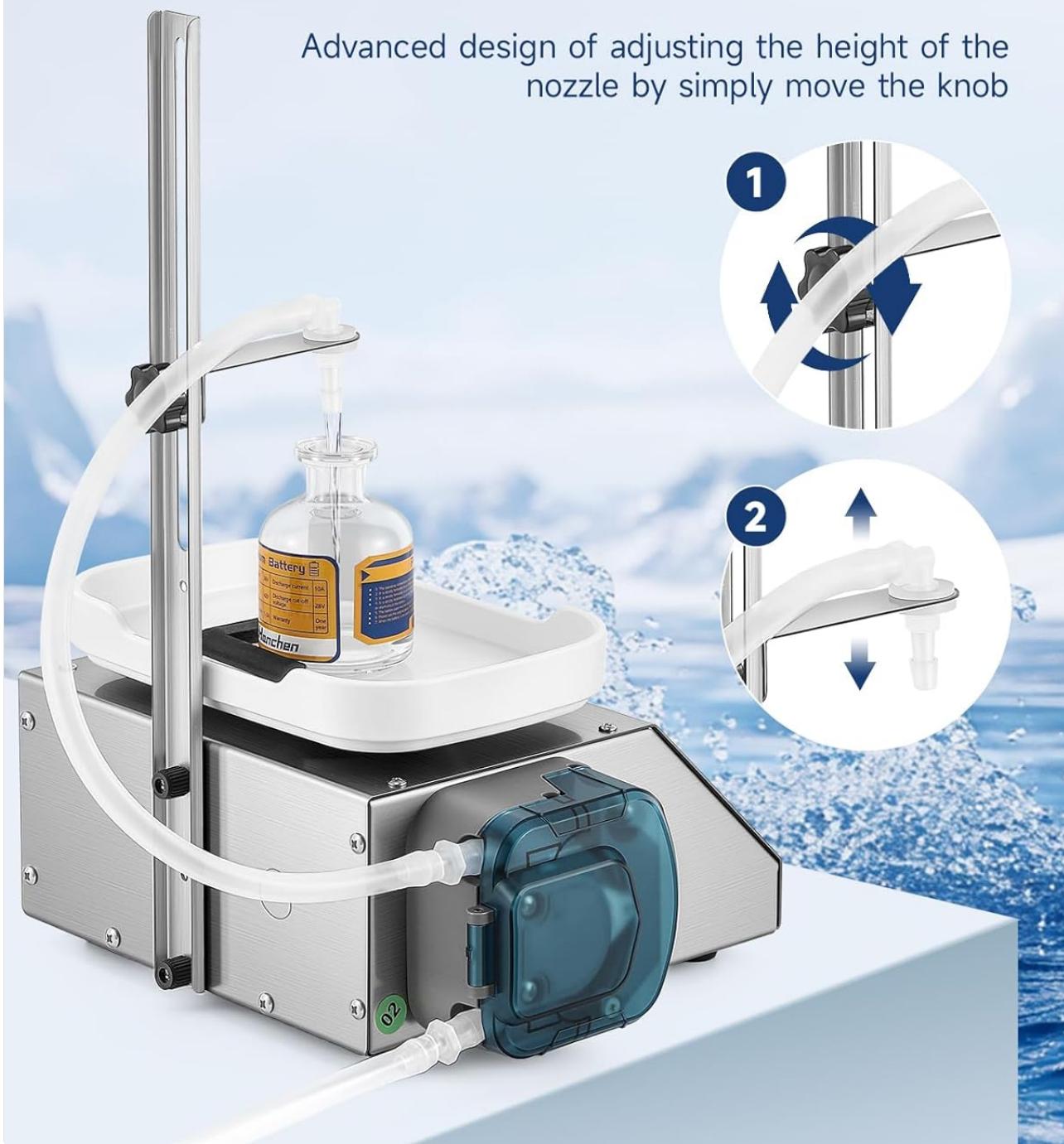


Image: Visual guide illustrating the step-by-step assembly of the machine's components, including tubing and nozzle.

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Video: An official Hanchen installation guide demonstrating the assembly process of the 3-100g Liquid Filling Machine.

5. OPERATING INSTRUCTIONS

The machine offers both Manual and Automatic operating modes for flexible use.

5.1. Setting the Fill Weight

1. Turn on the liquid filling machine. The display will show "WELCOME" then switch to the main operating screen.
2. Press the "Set" key on the control panel.
3. Enter the desired weight of liquid (in grams) you wish to fill into each bottle using the numeric keypad. Press "Set" again to confirm.
4. Adjust the speed knob on the side to change the pump speed. The number will be displayed in the "Trigger" line.
5. For optimal accuracy and splash prevention, the machine features a deceleration program at the end of the filling cycle.

DIRECTLY ENTER WEIGHT

Game-changer of Amount Setting



Image: A hand interacting with the control panel to directly input the desired fill weight.

5.2. Manual Mode Operation

In Manual Mode, you control the start of each fill cycle:

1. Ensure the machine is in "Man" (Manual) mode, indicated on the display.
2. Place an empty bottle on the weighing pan.
3. Press the "Tare" button to zero out the weight of the empty bottle.
4. Press the "Run" button to start the filling process. The machine will fill until the set weight is reached, then stop.

5. Remove the filled bottle.

5.3. Automatic Mode Operation

In Automatic Mode, the machine automatically tares, fills, and stops when a bottle is placed on the pan:

1. Press the "A/M" button to switch to "Auto" (Automatic) mode.
2. Place an empty bottle on the weighing pan. The machine will automatically tare the bottle's weight and begin filling.
3. Once the set weight is reached, the machine will stop filling.
4. Remove the filled bottle. The machine is now ready for the next bottle.
5. The machine will automatically count the number of bottles filled.

DESIGN FOR SMALL BOTTLES

Suitable for 3-100 ml/gram bottles



Essential oil



Perfume



Potion



Oral liquid



Ink

**PERFECT
FOR THIN
LIQUID**

Suitable for fluid with a low viscosity

Image: The machine accurately filling small bottles, demonstrating its suitability for various liquid products like essential oils.

Your browser does not support the video tag.

Video: An official Hanchen video demonstrating the operation of the 3-100g Peristaltic Pump Liquid Filling Machine in both manual and automatic modes.

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Video: A demonstration of the 50ml liquid filling machine, highlighting its efficiency and precision in dispensing liquids.

6. MAINTENANCE

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

- **Cleaning:** After each use, especially when changing liquids, clean the silicone tubing thoroughly. The independent filling channel ensures liquid only contacts the tube, simplifying cleaning.
- **Tubing Replacement:** The peristaltic pump tubing is a consumable item and may wear out over time. Replace it promptly if you notice any signs of wear or leakage to maintain hygiene and accuracy.
- **General Care:** Keep the machine clean and free from dust and liquid spills. Store in a dry environment.

7. TROUBLESHOOTING

If you encounter issues with your Hanchen Liquid Filling Machine, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate filling weight	Incorrect set weight; Worn pump tubing; Unstable surface; Air bubbles in tubing.	Verify set weight; Replace pump tubing; Ensure stable surface; Prime pump to remove air.
Pump not starting/stopping	Power issue; Incorrect mode selection; Sensor obstruction (Auto mode).	Check power connection; Ensure correct mode (Manual/Auto); Clear any obstructions on weighing pan.
Liquid leakage	Loose tubing connections; Damaged tubing; Pump cover not properly closed.	Tighten all connections; Replace damaged tubing; Ensure pump cover is securely latched.
Display errors	Electrical interference; Internal fault.	Restart the machine; Contact customer support if persistent.

If the problem persists after attempting these solutions, please contact Hanchen customer support.

8. SPECIFICATIONS

Feature	Specification
Model	3-100g Liquid Filling Machine
Filling Range	3-100g
Filling Accuracy	Up to 0.5%
Max Pump Speed	1200ml/min

Feature	Specification
Peristaltic Pump Type	Large 1200ml/min
Nozzle Sizes	4mm, 6mm
Package Dimensions	14.65 x 9.53 x 7.68 inches
Item Weight	4.4 pounds
Manufacturer	Hanchen

9. WARRANTY AND SUPPORT

Hanchen is committed to providing high-quality products and excellent customer service. For any questions, technical assistance, or warranty claims, please contact our support team.

- After-Sales Support:** We provide after-sales support with a response within 24 hours.
- Repair Services:** Our repair warehouse in the United States provides repair services.
- For further assistance, please refer to the contact information provided with your product packaging or visit the official Hanchen store.