

NEWTRY DDX-450

NEWTRY DDX-450 Desktop Automatic Capping Machine User Manual

Model: DDX-450 | Brand: NEWTRY

1. PRODUCT OVERVIEW

The NEWTRY DDX-450 is a desktop electric capping machine designed for efficiently sealing round bottles with various cap types. It features an electric screw cap mechanism and hand delivery for operation, making it suitable for small to medium-scale production environments.

1.1 Working Principle

This machine operates by applying a constant torque to screw caps, anti-theft caps, and press-fit caps. The capping head's pressure is adjustable to ensure a secure seal without damaging the cap or bottle, accommodating a wide range of materials and specifications.

1.2 Key Features

- **Height Adjustment Knob:** Allows precise adjustment of the capping head to accommodate different bottle heights (40-370mm).
- **Dual Motor System:** Equipped with two independent motors, one for controlling the cap rotation and another for lifting the capping head, ensuring strong tightening force and enhanced durability.
- **Constant Torque Capping Head:** Provides consistent and adjustable pressure for reliable cap sealing, preventing overtightening or undertightening.
- **Bottle Positioning Device:** Features a safety device to securely position bottles, preventing them from tipping over during the capping process and ensuring safer operation.
- **Simple Control Panel:** Designed for ease of use with a clear and intuitive interface, simplifying operation.

2. SAFETY INSTRUCTIONS

To ensure safe operation and prevent injury or damage to the machine, please read and adhere to the following

safety guidelines:

- Always ensure the machine is placed on a stable, level, and non-slip surface before operation.
- Keep hands, hair, and loose clothing away from all moving parts, especially the capping head and motor, during operation.
- Disconnect the power supply before performing any adjustments, maintenance, cleaning, or when the machine is not in use.
- Do not operate the machine in wet conditions or with wet hands to avoid electrical shock.
- Ensure proper ventilation around the machine to prevent overheating.
- Only use the machine for its intended purpose: capping bottles within the specified diameter and height range.
- In case of any malfunction, unusual noise, or smoke, immediately turn off the power and consult the troubleshooting section or contact customer support.
- Do not attempt to modify the machine or use non-original parts, as this may void the warranty and pose safety risks.

3. SETUP AND ASSEMBLY

Carefully unpack all components. Verify that all parts are present and undamaged before proceeding with assembly.

3.1 Component Identification

Refer to the image below for a visual guide to the main components of the DDX-450 capping machine.



Figure 3.1: Front view of the NEWTRY DDX-450 Desktop Automatic Capping Machine. This image shows the control panel, capping head, and bottle positioning area.



Figure 3.2: Side view of the NEWTRY DDX-450 Desktop Automatic Capping Machine, illustrating the motor and structural frame.

3.2 Initial Placement

Place the machine on a sturdy, level workbench capable of supporting its weight (23KG). Ensure there is adequate space around the machine for safe operation, bottle handling, and access to controls.

3.3 Power Connection

Connect the power cord to a compatible 110V or 220V power outlet, depending on the voltage specified for your machine. Ensure the power switch on the control panel is in the 'OFF' position before connecting to power.

4. OPERATING INSTRUCTIONS

Follow these steps for efficient and safe operation of your DDX-450 capping machine.

4.1 Adjusting for Bottle Height

Use the height adjustment knob located on the top of the machine to raise or lower the capping head. Adjust it to the appropriate height for your specific bottles, ensuring the capping head can comfortably reach and engage the cap without excessive force or obstruction. The machine accommodates bottle heights from 40mm to 370mm.

4.2 Adjusting Capping Torque

The constant torque capping head allows for adjustable pressure. Locate the torque adjustment mechanism (typically a knob or screw near the capping head) and turn it to achieve the desired cap tightness. It is recommended to test on a sample bottle first to prevent overtightening, which can damage the cap or bottle, or undertightening, which can result in a loose seal.

4.3 Capping Process

1. Ensure the machine is powered on and properly adjusted for your bottle and cap size.
2. Place an uncapped bottle onto the bottle positioning device, ensuring it is centered and stable.
3. Manually place a cap securely onto the bottle.
4. Activate the capping mechanism using the control panel (e.g., pressing the start button). The machine will lower the capping head, rotate to secure the cap, and then retract.
5. Remove the capped bottle.
6. Repeat the process for subsequent bottles.

The machine is capable of capping 20-40 bottles per minute, depending on operator efficiency and bottle/cap characteristics.

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Video 4.1: Demonstration of the NEWTRY DDX-450 Desktop Automatic Capping Machine in operation, showing the capping process for multiple bottles.

APPLICATIONS

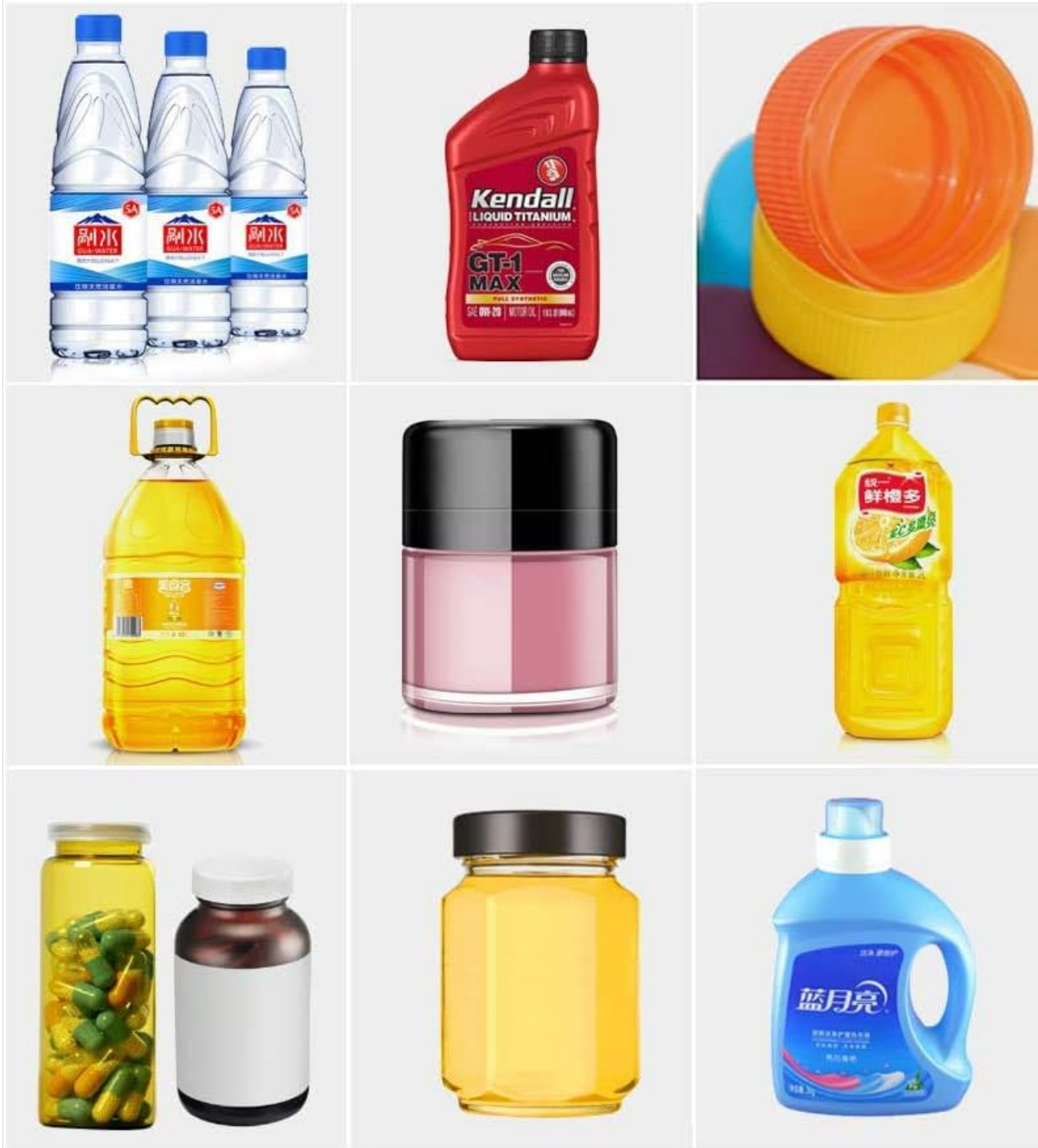


Figure 4.1: Examples of various bottle types and sizes that can be capped by the NEWTRY DDX-450 machine, including water bottles, oil containers, and jars.

5. MAINTENANCE

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

5.1 Cleaning

Regularly clean the machine's surfaces with a soft, dry cloth. Ensure no dust, liquid spills, or debris accumulates in or around moving parts. Always disconnect power before cleaning.

5.2 Lubrication

Periodically check moving parts, such as the vertical guide rods and the capping head mechanism, for smooth operation. Apply a small amount of machine-grade lubricant to designated points as needed to reduce friction and wear.

5.3 Inspection

Inspect the power cord for any signs of damage (fraying, cuts). Check all fasteners, screws, and connections to ensure they are secure. Tighten any loose components. Examine the capping head for wear and tear; replace if necessary.

PRODUCT ADVANTAGES

0 DIFFERENCE NO MIDDLEMEN MAKE A DIFFERENCE



Overall aluminum alloy

It has the characteristics of corrosion resistance and wear resistance, and can also be used in harsh environments.

Figure 5.1: Close-up of the NEWTRY DDX-450 machine's control panel and main structure, highlighting the aluminum alloy construction for durability.

High configuration motor, excellent quality

Strong torque, using high-strength inverter, can stepless speed regulation



Figure 5.2: Detailed view of the NEWTRY DDX-450 machine's motor, emphasizing its robust design and stepless speed regulation capability.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Machine does not power on.	Power cord disconnected, power switch off, no power from outlet.	Check power connections, ensure the main power switch is in the 'ON' position, test the power outlet with another device.
Cap is too loose or too tight.	Incorrect torque setting on the capping head.	Adjust the constant torque capping head to increase or decrease pressure. Test with a sample bottle.

Problem	Possible Cause	Solution
Bottle tips over during capping.	Bottle not correctly placed in the positioning device, or device not properly adjusted for bottle size.	Ensure the bottle is centered and stable within the positioning device. Adjust the device if necessary to securely hold the bottle.
Capping head does not move or rotate.	Motor issue, electrical fault, or physical obstruction.	Check for any visible obstructions. If the motor is unresponsive, turn off the machine and contact customer support.

7. TECHNICAL SPECIFICATIONS

Parameter	Value
Equipment Name	Desktop Electric Round Bottle Capping Machine
Model	DDX-450
Power Supply	110V/220V
Rated Power	50W
Working Method	Electric screw cap, hand delivery
Model Type	Desktop
Chassis Material	Iron, aluminum spray paint
Screw Cap Diameter	10-50MM
Production Capacity	20-40 times/min
Applicable Bottle Height	40-370MM
Machine Size (L×W×H)	520×300×530MM (20.47"L x 11.81"W x 20.87"H)
Net Weight	23KG
Material	Metal
Color	Silver
Manufacturer	NEWTRY
ASIN	B071LGRVWX
Date First Available	May 16, 2017

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your NEWTRY DDX-450 Desktop

Automatic Capping Machine, please contact NEWTRY customer service. Keep your purchase receipt and the model number (DDX-450) handy for faster assistance.

Visit the official NEWTRY store for more products and information:[NEWTRY Store](#)