

SNEED PACK

Automatic Liquid Filling Production
Line:

Round Bottle Labeler
– Tabletop



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 **SNEED**
Coding Solutions, Inc.

Hey there,

Congrats on scoring your very own piece of the “SNEED-PACK Automatic Liquid Filling Production Line!” We’re stoked that you’re now a part of our automation tribe. This manual is like your compass to navigate through all your new gear’s cool features and hacks. Feeling like a deep dive? Swing by and schedule a video chat with our tech pros - just zap that QR code. Or if it’s a quick fix you need, the other QR code will whisk you away to our online Help Desk faster than you can say, “Automate everything!” Big thanks for choosing Sneed Coding - get ready to rock the world of automation with us!

Schedule a video meeting with one of our tech pros



Visit our Help Desk:



Table of Contents

| | |
|---|----|
| Safety Precautions | 3 |
| Technical Specifications | 4 |
| External Parts Diagram | 5 |
| External Parts Diagram (cont.) | 6 |
| Menu & Button Navigation | 7 |
| Conveyor Controls | 9 |
| Setup and Installation | 10 |
| Label Installation | 10 |
| Clamp and Label Applicator Adjustments..... | 11 |
| Sensor Adjustment..... | 12 |

Safety Precautions



- ✿ Keep your hands clear of any moving parts while the equipment is in operation, and always power down prior to inspection. Failure to do so may cause bodily harm.



- ✿ Risk of electric shock, make sure the machine is properly grounded before use.



- ✿ Do not alter the mechanical or electrical systems. Any changes could result in malfunction or injury.



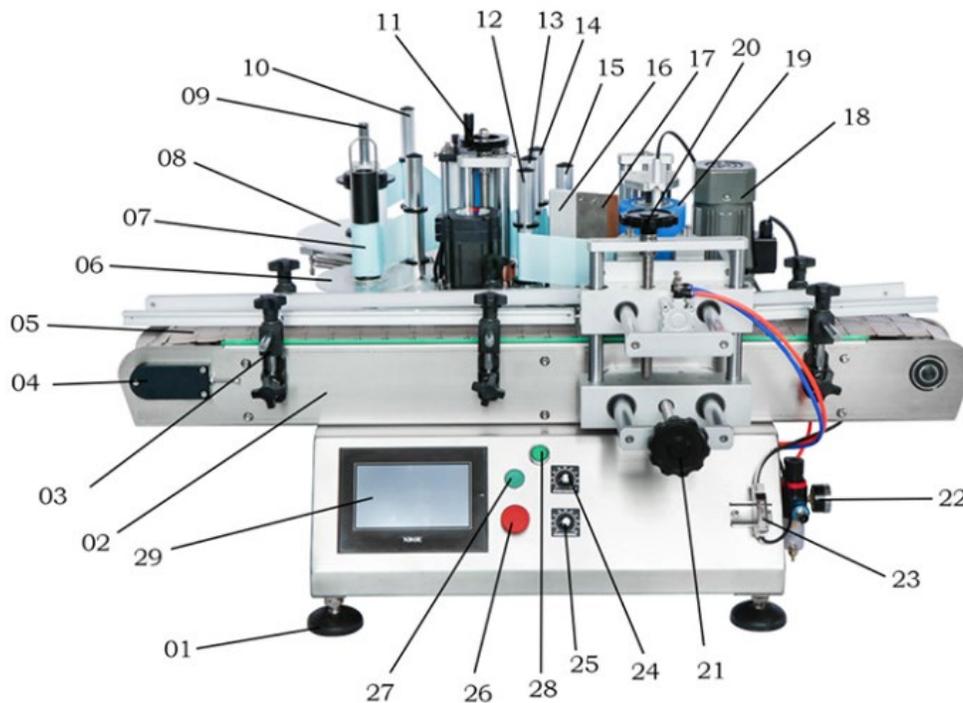
- ✿ Always turn off the power to the equipment before replacing any consumables.

Technical Specifications



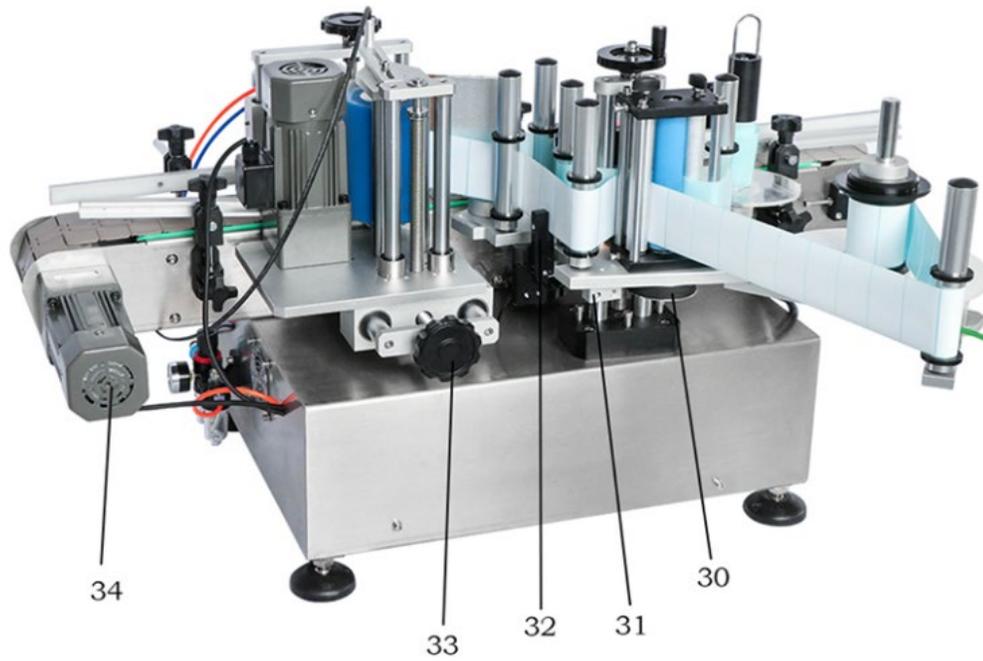
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| Model | TB-500 Automatic Bottle Labeler |
| Power | 110V-60HZ / 220V-50HZ |
| Working Speed | Up to 50 Bottles / Minute |
| Recommended Label Size | 15 - 140mm (W) * 25 - 300mm (L) |
| Inside Diameter of Roll | Ø76mm |
| Outside Diameter of Roll | Up to Ø350mm |
| Recommended Bottle Size | Ø30 - 120mm / H:25 - 350mm |
| Labeling Accuracy | ± 1mm |
| Overall Machine Size | 815*1275*800mm |
| Machine Weight | 126 kg / 278 lbs |

External Parts Diagram



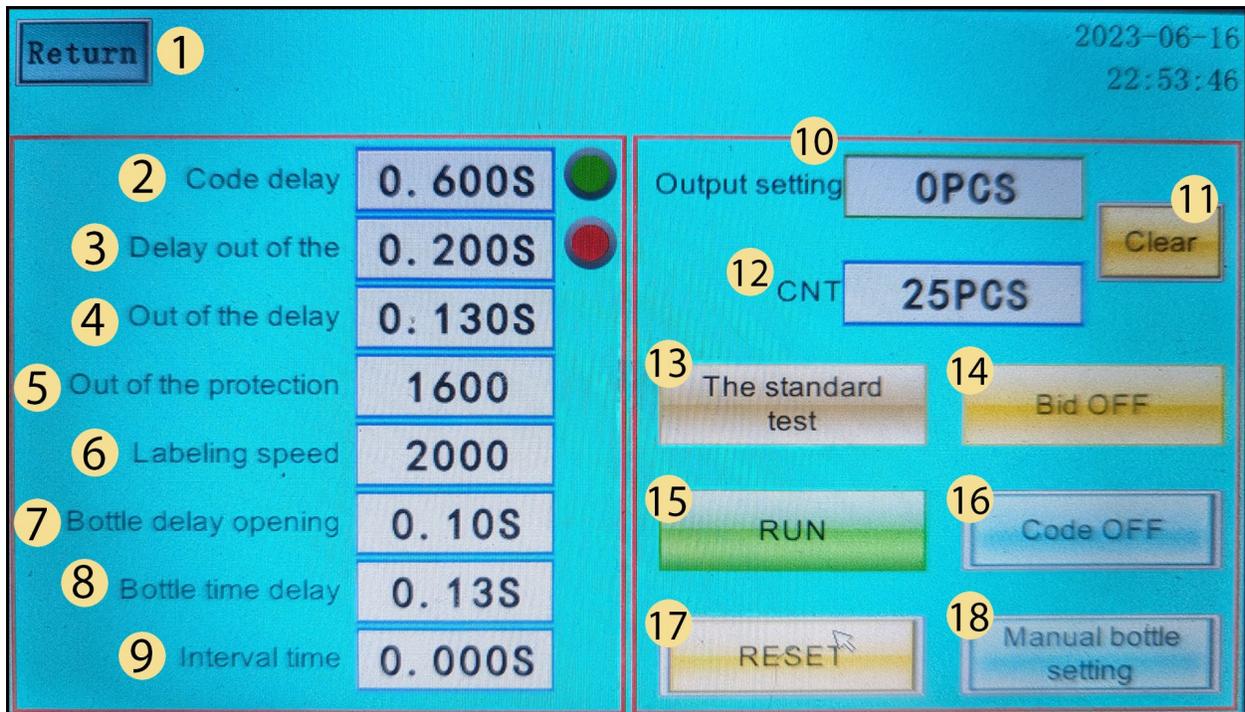
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|---------------------------------------|---|
| 1. Adjustable Legs | 18. Labeling Motor |
| 2. Conveyor Frame | 19. Label Applicator Wheel |
| 3. Guide Rail Mounts | 20. Bottle Clamp Adjustment Handle |
| 4. Belt Tensioner | 21. Bottle Clamp Adjustment Handle |
| 5. Conveyor Belt | 22. Air Regulator |
| 6. Label Winding Tray | 23. Bottle Sensor |
| 7. Label Winding Roller | 24. Speed Control Knob for Label Applicator Wheel |
| 8. Label Tray | 25. Speed Control Knob for Conveyor |
| 9. Label Roller | 26. Emergency Stop Button |
| 10. Transitional Roller | 27. Power on Button |
| 11. Labeling Height Adjustment Handle | 28. Power Indicator Light |
| 12. Transitional Roller | 29. Touch Screen |
| 13. Transitional Roller | |
| 14. Transitional Roller | |
| 15. Transitional Roller | |
| 16. Label Separating Blade Bracket | |
| 17. Label Separating Blade | |

External Parts Diagram (cont.)



- 30. Labeler drive belt
- 31. Label Sensor Rail assembly
- 32. Label Sensor
- 33. Label Applicator Adjustment Handle
- 34. Conveyor Motor

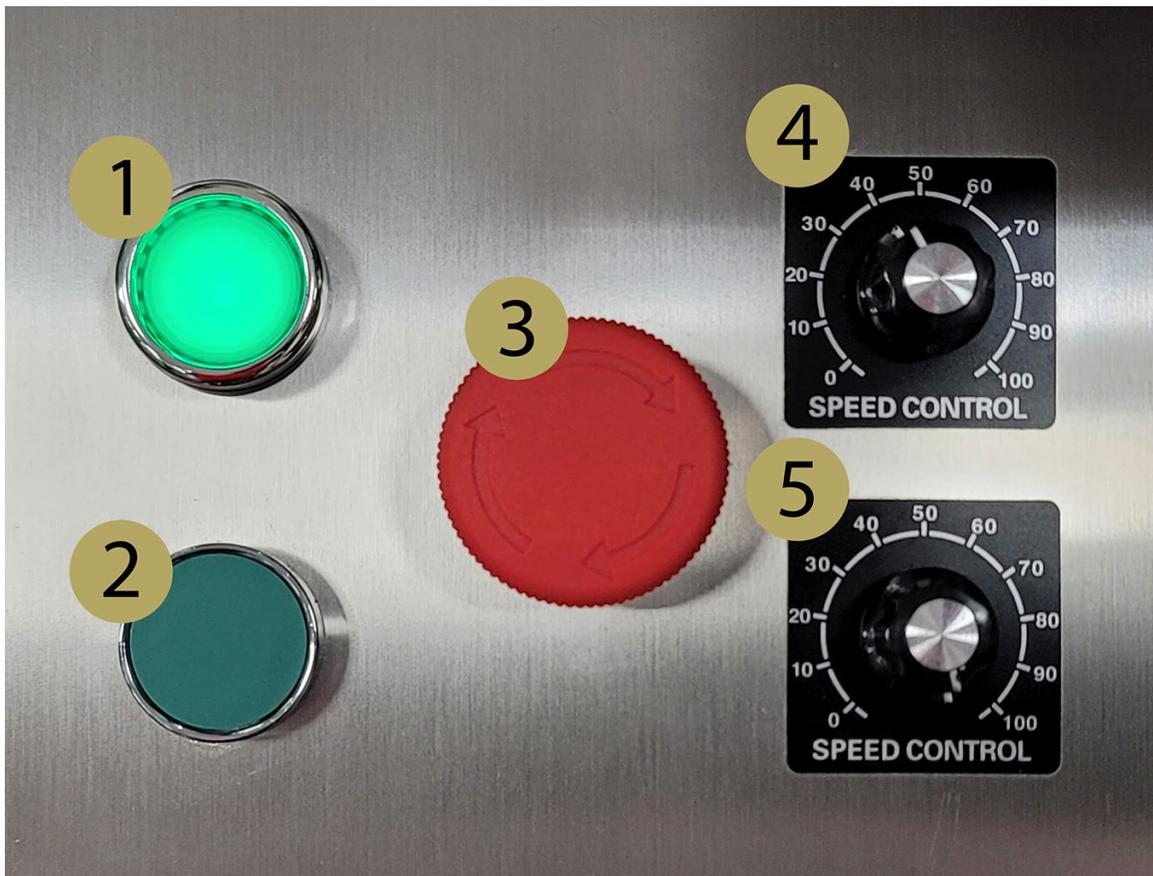
Menu & Button Navigation



1. **Return**
Purpose: This button facilitates navigation back to the language menu, allowing users to adjust the machine's interface language settings.
2. **Print Delay (For Equipped Coders)**
Function: Adjusts the time delay between the bottle triggering the sensor and the coder applying a print onto the label. This setting is applicable only if the labeler is equipped with a coder.
3. **Label Application Delay**
Purpose: This button enables adjustment of the time delay between bottles triggering the sensor and the subsequent application of labels onto the bottles.
4. **Label Sensor Release Delay**
Function: Controls the delay between the label sensor triggering and the label application, ensuring precise label placement.
5. **Label Roll Travel Distance Control**
Purpose: Regulates the maximum distance the label roll can travel. Setting this parameter too low may result in incomplete label separation, while setting it excessively high may lead to label wastage.
6. **Label Application Speed Control**
Function: Governs the speed at which labels are applied to bottles. This setting operates in conjunction with the bottle roller settings listed below.

7. **Clamp Activation Delay**
Purpose: Adjusts the delay between the bottle triggering the sensor and the closing of the clamps, ensuring optimal bottle positioning.
8. **Clamp Release Delay**
Function: Defines the delay between the completion of label application and the subsequent opening of the clamps.
9. **Multiple Label Application Delay**
Purpose: Controls the delay between successive labels being applied to a bottle. Keep this setting at 0 if single-label application is utilized.
10. **Production Run Count Display**
Function: Provides a visual representation of the current count of bottles labeled, aiding in production monitoring and record-keeping.
11. **Production Run Count Reset**
Purpose: Clears the current count, resetting back to zero.
12. **Sensor-Triggered Bottle Limit**
Function: Sets the maximum number of bottles that can trigger the sensor. Once this number is reached, the belt operation will cease.
13. **Label Test**
Purpose: Initiates the rotation of the label roller, resulting in a slight ejection of labels for adjustment or troubleshooting.
14. **Bottle Sensor Toggle**
Function: Controls the activation or deactivation of the bottle sensor, regulating its responsiveness in the labeling process.
15. **Master Control: Start and Stop**
Purpose: Initiates or halts the operation of the belt and all associated functions, providing centralized control over the labeling process.
16. **Date Coding Toggle (For Equipped Coders)**
Function: Enables or disables the date coder. This setting is relevant only if the labeler is equipped with a coder.
17. **Fault Reset**
Purpose: Resets the labeler in the event of a fault-induced stoppage, allowing for rapid recovery and resumption of operations.
18. **Manual Bottle Clamp Control**
Function: Manually adjusts the position of the bottle clamp to either an open or closed state, optimizing the secure hold of bottles during the labeling process.

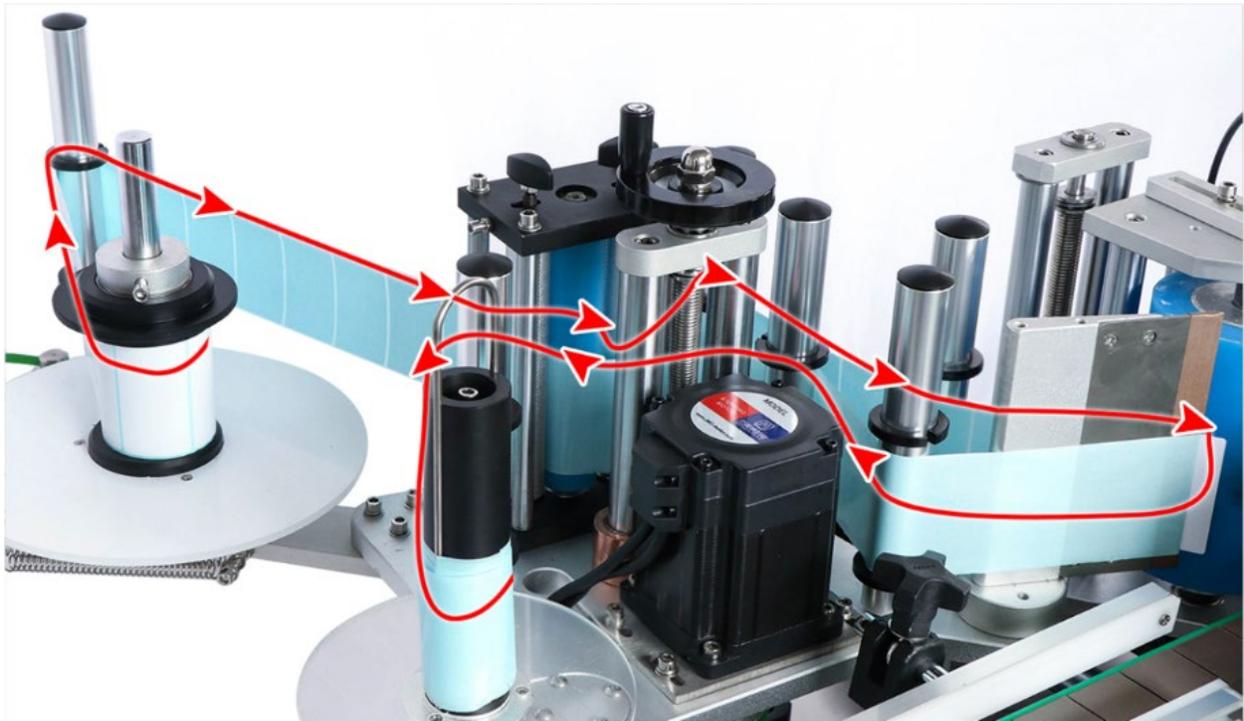
Conveyor Controls



- 1. Main Power Activation**
Function: Depress this button to initiate the machine's power supply, activating its operational state.
- 2. Conveyor Start**
Purpose: Initiates the conveyor's motion upon button activation. To halt conveyor movement, employ button 15 depicted in the previous diagram.
- 3. Emergency Stop Mechanism**
Function: This button serves as the Emergency Stop mechanism. Pressing it promptly halts machine operations, while pulling it out re-establishes normal operational flow.
- 4. Conveyor Speed Regulation**
Purpose: Offers control over the velocity of the conveyor's movement, allowing adjustment to suit specific operational requirements.
- 5. Label Applicator Wheel Speed Adjustment**
Function: Governs the rotational speed of the Label Applicator Wheel. Optimal coordination with labeling speed is crucial, necessitating higher settings for increased labeling speeds.

Setup and Installation

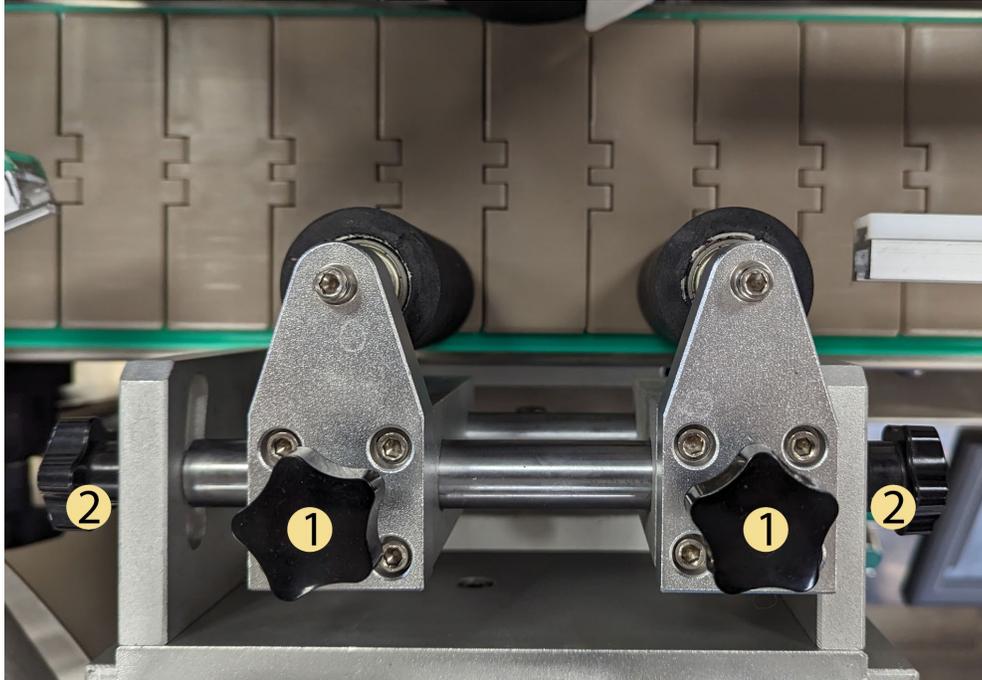
Label Installation



1. The red line above indicates the correct threading path for the labels
2. When installing the label roll to the tray, confirm that the labels are facing outwards.
3. Adjust the bottom guide rings on the transitional rollers so the label roll rests on top of them.
4. Wind the labels as shown in the image above.
5. Wind the labels counter clockwise on the winding table around the roller.
6. "Lock" the labels onto the roller using the metal clamp.
7. Position the upper guide rings on the transitional rollers so they touch the edge of the label roll.

Clamp and Label Applicator Adjustments

1. Before adjusting any of the handles, press the “Manual Bottle Setting” button (Button 18) on the touch screen. This will set the clamp to the closed position, and will allow you to adjust the final position of the clamps.
2. Place the bottle on the conveyor in between the bottle clamp rollers and the Label Applicator Wheel.

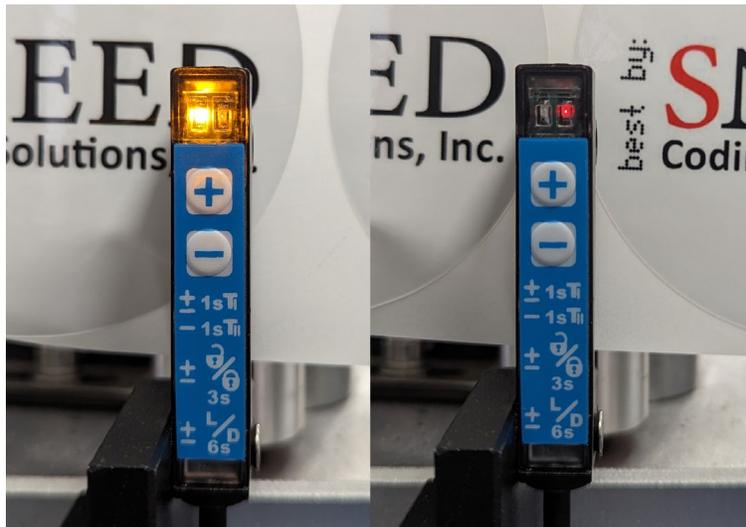


3. Clamp the bottle into place by using the bottle clamp adjustment handles and the label applicator adjustment handle.
4. Adjust the rollers(1) so that they can clamp the bottle securely against the label applicator.
5. You may have to adjust the angle of the rollers(2) depending on the shape of the bottle.
6. Adjust the height of the bottle sensor until it is between 2-5 cm away from the cap.

Sensor Adjustment



1. To adjust the sensitivity of the bottle sensor, place the bottle underneath the sensor and adjust the screws clockwise or counterclockwise until the indicator light turns on.
2. Pass the bottle through multiple times and ensure the indicator light turns on with each pass.



1. To adjust the label sensor sensitivity, position the labels until they pass through the sensor.
2. Adjust the sensitivity by using the plus and minus buttons until the indicator light turns on while the label is positioned behind the sensor, and off while the label is positioned away from the sensor.