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Moonshan MS-CS-39

Moonshan Programmable Belt Conveyor 39-inch with Sensor

Model: MS-CS-39

1. Introduction

This manual provides comprehensive instructions for the safe and efficient use of your Moonshan Programmable Belt Conveyor. This desktop conveyor is designed for automated production environments, offering precise control and reliable performance for various applications.



Figure 1: Moonshan 39-inch Programmable Belt Conveyor with Sensor.

Key Features:

- **32 Customizable Operating Programs:** Includes functions like start on signal detection, stop on signal detection, timed start, timed stop, and cyclic start.
- **Stepless Speed Regulation:** Integrated speed control for precise adjustment of belt movement.
- **Durable PVC Conveyor Belt:** Waterproof, flexible, and wear-resistant for long-term use.
- **Load Capacity:** Supports up to 11 pounds (5 kg) with smooth and quiet operation.
- **Desktop Automation:** Compact and powerful design suitable for various factory and home production lines.

2. Package Contents

Please verify that all components are present and undamaged upon unpacking.

- 1 x 39-inch (1 meter) Conveyor Belt Unit
- 1 x Control Box with Digital Display
- 1 x Infrared Sensor
- 2 x Support Brackets
- 1 x Power Adapter
- 1 x Set of Hex Wrenches (for assembly)
- 1 x User Manual (this document)



Figure 2: Main components of the conveyor system.

3. Setup Instructions

Follow these steps to assemble and prepare your conveyor for operation.

1. **Attach Support Brackets:** Secure the two support brackets to the underside of the conveyor belt unit using the provided screws and hex wrenches. Ensure they are evenly spaced for stability.
2. **Position the Conveyor:** Place the assembled conveyor on a stable, flat surface.
3. **Connect the Sensor:** Plug the infrared sensor cable into the designated 'Sensor Port' on the control box. Position the sensor on the conveyor belt as required for your application.
4. **Connect the Control Box:** Plug the conveyor motor cable into the 'Power Output' port on the control box.
5. **Connect Power:** Plug the power adapter into the control box's power input, then connect the adapter to a standard electrical outlet.

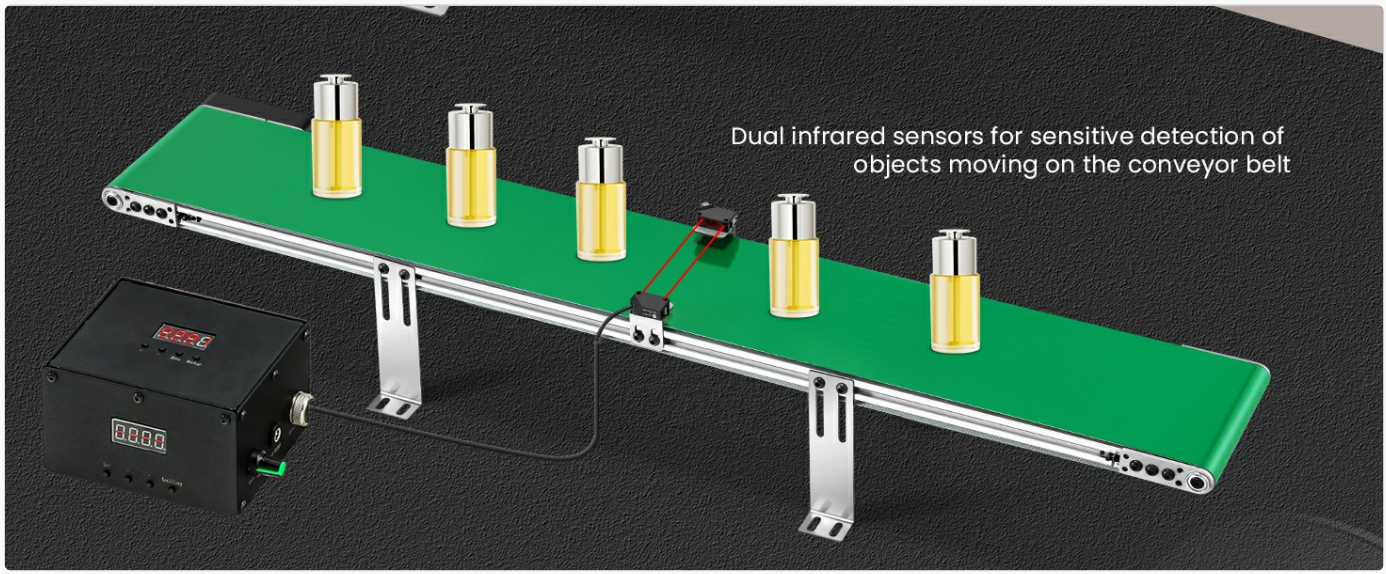


Figure 3: Dual infrared sensors for sensitive object detection.

4. Operating Instructions

4.1 Power On/Off

Once connected to power, the control box display will illuminate. Use the main power switch on the control box to turn the unit on or off.

4.2 Speed Adjustment

The conveyor belt speed can be adjusted using the 'Speed Knob' on the control box. Rotate the knob clockwise to increase speed and counter-clockwise to decrease it. The maximum speed is approximately 4 inches per second.

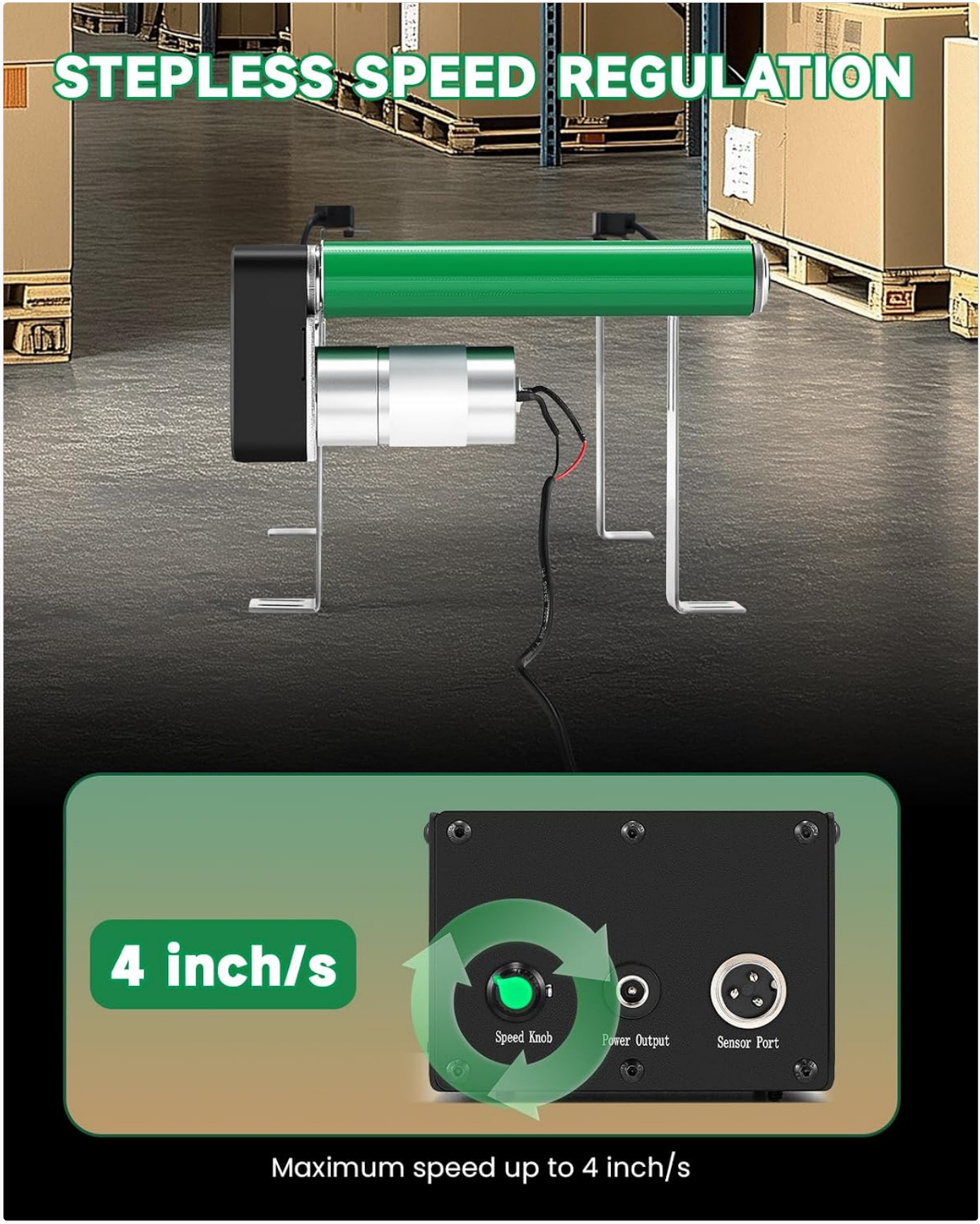


Figure 4: Speed adjustment knob on the control box.

4.3 Programmable Operations

The control box offers 32 customizable operating programs. Refer to the detailed programming guide (separate document or on-screen menu) for specific instructions on setting up each program. Common programs include:

- **Start on Signal Detection:** Conveyor starts when the sensor detects an object.
- **Stop on Signal Detection:** Conveyor stops when the sensor detects an object.

- **Timed Start/Stop:** Conveyor operates for a set duration.
- **Cyclic Start:** Conveyor operates in repeating cycles.



Figure 5: Highly programmable control box with 32 configurable modes.

4.4 Counting Function

The control box includes an automatic counting function, useful for assembly line production. The digital display shows the count of items detected by the sensor. Use the '+' and '-' buttons to adjust the count manually, 'Zero' to reset, and 'Backup' for saving settings.



Figure 6: Control box displaying the counting function.

4.5 Product Demonstration Video

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Video 1: Demonstration of the Moonshan 39-inch Conveyor Belt with Sensor, showcasing its features and operation.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your conveyor.

- **Cleaning the Belt:** Periodically clean the PVC conveyor belt with a damp cloth. Avoid abrasive cleaners. Ensure the belt is dry before operation.
- **Inspect Components:** Regularly check the belt for wear and tear, and ensure all screws and connections are secure.
- **Motor and Rollers:** Keep the motor area and rollers free from dust and debris. The motor is designed to be quiet and efficient.
- **Storage:** When not in use, store the conveyor in a clean, dry environment.

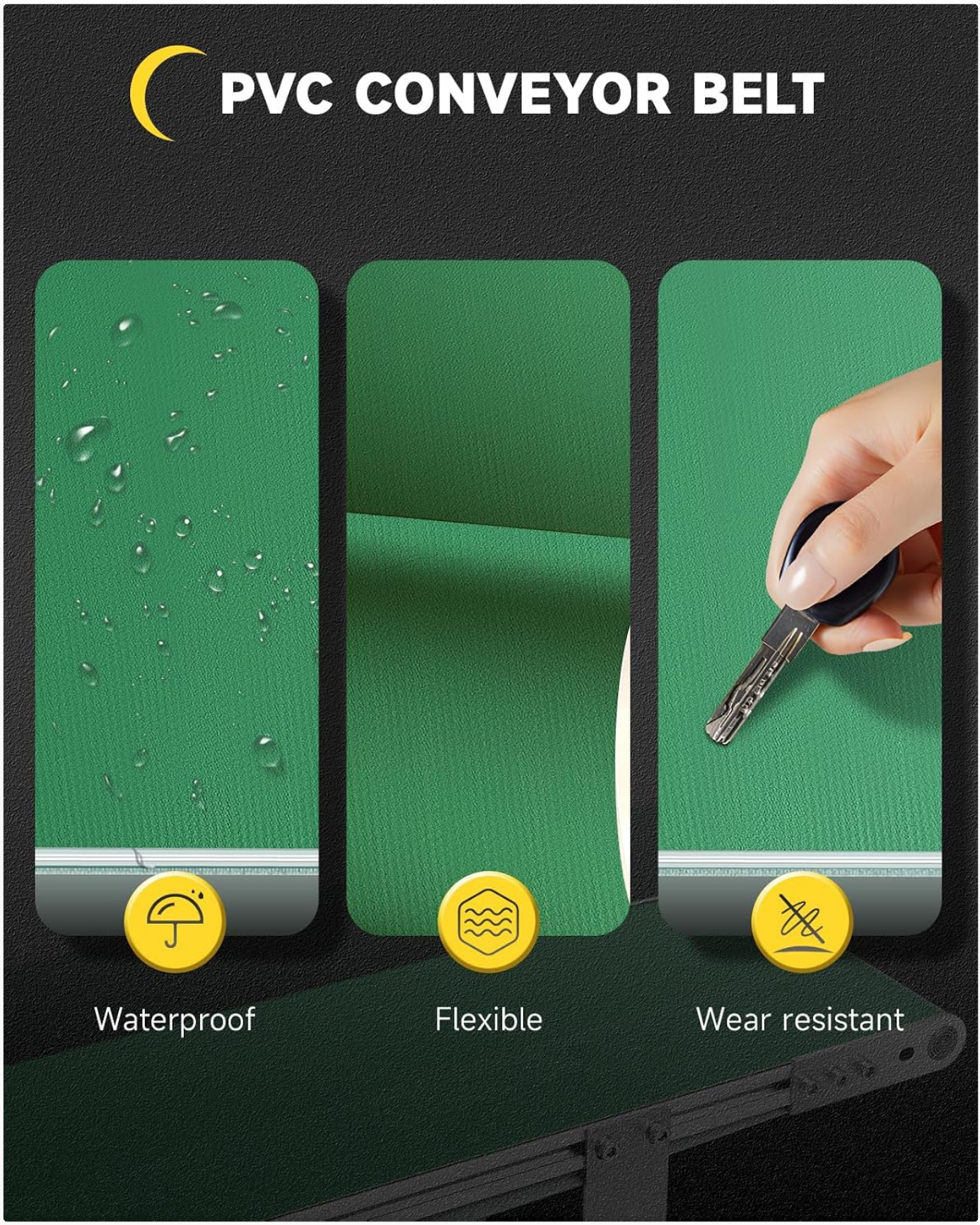


Figure 7: Features of the durable PVC conveyor belt.

6. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Conveyor belt does not move.	No power, loose connection, motor issue.	Check power adapter connection and outlet. Ensure all cables are securely plugged into the control box. Verify the power switch is ON.
Sensor not detecting objects.	Sensor misalignment, dirty sensor lens, incorrect program setting.	Ensure the sensor is properly aligned with the object path. Clean the sensor lens. Check the selected operating program in the control box.
Belt speed is inconsistent.	Speed knob setting, excessive load.	Adjust the 'Speed Knob' to the desired setting. Ensure the load does not exceed 11 pounds (5 kg).
Unusual noise during operation.	Debris in rollers, loose components.	Inspect the rollers and belt path for any foreign objects. Check all screws and connections for tightness.

7. Specifications

Feature	Detail
Brand	Moonshan
Model Number	MS-CS-39
Product Dimensions (L x W)	39 inches x 6 inches (99 cm x 15 cm)
Item Weight	14 pounds (6.35 kg)
Material	Aluminum, Plastic, Stainless Steel
Belt Material	PVC
Max Load Capacity	11 pounds (5 kg)
Speed Adjustment	Stepless
Operating Programs	32 (customizable)
Compatible Devices	Automated Production Equipment, Factory Machinery

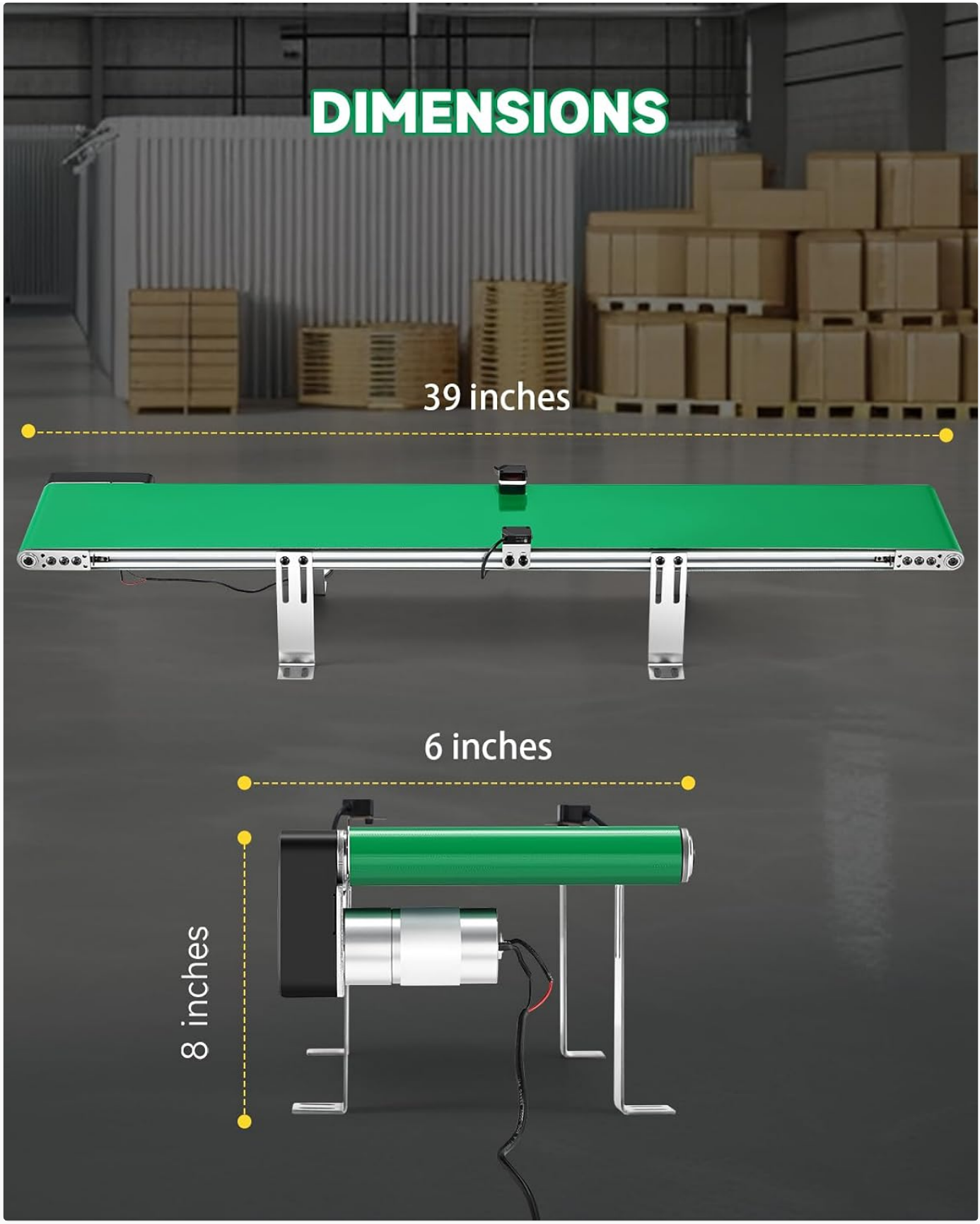


Figure 8: Product dimensions.

8. Warranty

The Moonshan Programmable Belt Conveyor (Model MS-CS-39) comes with a**One-year Warranty** from the date of purchase. This warranty covers manufacturing defects and material faults under normal use. Please retain your proof of

purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

9. Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Moonshan customer support. Visit the official Moonshan store or website for contact information and additional resources.

Moonshan Official Store: Visit Moonshan Store on Amazon

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