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TECHTONGDA B07Y1SN9W4

TECHTONGDA Flat Belt Conveyor System Instruction Manual

Model: B07Y1SN9W4

1. Introduction

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your TECHTONGDA Flat Belt Conveyor System. This system is designed for industrial transport, featuring an aluminum frame and a durable 0.08-inch white PU belt, suitable for various applications including food contact. The conveyor is ideal for transferring items such as bottles, electronic parts, plastic bags, and paper boxes in automated production lines across food, beverage, cosmetics, and printing industries.

2. Safety Information

Always read and understand all instructions before operating the conveyor system. Failure to follow safety guidelines may result in injury or damage to the equipment.

- Ensure the conveyor is installed on a stable, level surface.
- Keep hands, hair, loose clothing, and tools clear of all moving parts during operation.
- Disconnect power before performing any maintenance, adjustments, or cleaning.
- Do not exceed the maximum load bearing capacity of 66-110 lbs (30-50 kg).
- Ensure all electrical connections are secure and conform to local regulations.
- Use appropriate personal protective equipment (PPE) as required by your workplace safety standards.

3. Product Overview and Components

The TECHTONGDA Flat Belt Conveyor System is comprised of several key components designed for reliable industrial transport.

Figure 3.1: Overall view of the TECHTONGDA Flat Belt Conveyor System, highlighting its main components and dimensions.

Key components include:

- **Aluminum Frame:** Provides a lightweight yet sturdy structure, connected by screws for stability.
- **PU Belt:** A 0.08-inch thick white Polyurethane belt, widely used in transportation industries, including those with food contact.
- **Power Motor:** Drives the conveyor belt.
- **Speed Controller:** Allows for adjustable belt speed.
- **Adjustable Legs:** The height of the conveyor legs can be adjusted from 13.8 inches to 19.7 inches (35 cm to 50 cm).
- **Side Baffles:** Located on both sides of the belt to prevent items from falling off during transport.

Figure 3.2: Detailed view of the power motor, which drives the conveyor belt.

Figure 3.3: Image of the white Polyurethane (PU) belt, suitable for various transport applications.

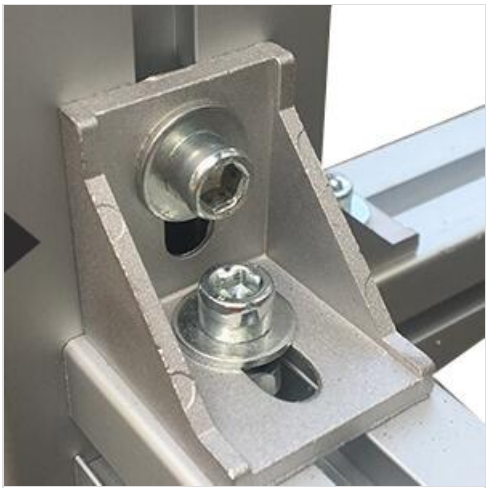

Figure 3.4: Detail of the aluminum frame connection, secured by screws for stability.

4. Setup

Follow these steps to set up your conveyor system:

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Assembly:** Assemble the aluminum frame and attach the belt, motor, and speed controller according to the provided diagrams. Ensure all screws are tightened for stability.
3. **Adjust Leg Height:** Adjust the height of the conveyor legs to your desired working level. The height is adjustable from 13.8 inches to 19.7 inches. Secure the legs once the desired height is achieved.
4. **Positioning:** Place the conveyor system in its intended operational location, ensuring it is on a stable and level surface.
5. **Electrical Connection:** Connect the power motor and speed controller to a suitable power source. Ensure the power supply matches the specifications of the unit.

Figure 4.1: Diagram illustrating the adjustable height feature of the conveyor legs, showing the range of adjustment.

5. Operating Instructions

To operate the TECHTONGDA Flat Belt Conveyor System:

1. **Power On:** Ensure the conveyor is properly set up and connected to a power source. Turn on the main power switch.
2. **Adjust Speed:** Use the speed controller to set the desired belt speed. The adjustable range is 0-20 meters per minute (0-65.6 feet per minute). Adjust the speed to match the requirements of your automated machine or production process.
3. **Load Items:** Carefully place items onto the conveyor belt. Ensure the total weight does not exceed the maximum load bearing capacity of 66-110 lbs (30-50 kg).
4. **Monitor Operation:** Observe the conveyor during operation to ensure smooth transport and proper belt alignment.
5. **Power Off:** When finished, turn off the main power switch and disconnect from the power source if the conveyor will not be used for an extended period.

6. Maintenance

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

1. **Belt Deviation Adjustment:** If the conveyor belt deviates during operation, adjust the screw located on the motor side. Turn the screw gradually until the belt runs centrally.

Figure 6.1: Close-up of the belt adjustment screw located on the motor side, used to correct belt alignment.

2. **Cleaning:** Regularly clean the conveyor belt and frame to prevent buildup of debris, which can affect performance and hygiene, especially in food-related applications. Use mild cleaning agents and ensure the system is powered off and disconnected before cleaning.
3. **Inspection:** Periodically inspect all components, including the belt, motor, frame connections, and electrical wiring, for wear, damage, or loose connections. Replace any worn or damaged parts immediately.
4. **Lubrication:** Consult the manufacturer's guidelines for any specific lubrication requirements for moving parts, if applicable.

7. Troubleshooting

This section addresses common issues you might encounter with your conveyor system.

- **Belt Deviation:** If the belt is not running straight, refer to Section 6, "Belt Deviation Adjustment," and adjust the screw on the motor side.
- **Conveyor Not Starting:**
  - Check if the power cord is securely plugged into a working outlet.
  - Ensure the main power switch is in the 'ON' position.

- Verify that the speed controller is set to a non-zero speed.

- **Unusual Noise or Vibration:**
  - Inspect the belt for any obstructions or damage.
  - Check for loose components or worn bearings in the motor or rollers.
  - Ensure the conveyor is on a stable and level surface.

- **Items Falling Off:** Ensure the side baffles are correctly installed and adjusted. Do not overload the conveyor or place items too close to the edges.

If you encounter issues not covered here or require further assistance, please contact TECHTONGDA customer support.

8. Specifications

Detailed technical specifications for the TECHTONGDA Flat Belt Conveyor System:

Specification	Value
Product Dimensions (Overall)	59 x 11.8 x 0.04 inches (150 x 30 x 0.1 cm)
Belt Dimensions (L x W)	59"L x 11.8"W (150 cm L x 30 cm W)
Belt Material	Polyurethane (PU)
Belt Style	Flat Belt
Frame Material	Aluminum
Adjustable Leg Height	13.8 - 19.7 inches (35 - 50 cm)
Max. Load Bearing	66 - 110 lbs (30 - 50 kg)
Adjustable Belt Speed	0 - 20 m/min (0 - 65.6 ft/min)
Manufacturer	TECHTONGDA
ASIN	B07Y1SN9W4

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your TECHTONGDA Flat Belt Conveyor System, please contact the manufacturer directly. Keep your purchase receipt and product model number (B07Y1SN9W4) handy when contacting support.

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