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› TECHTONGDA Stainless Steel Screw Conveyor (Model L188102) User Manual

TECHTONGDA L188102

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Efficient Powder and Granular Material Handling

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your TECHTONGDA Stainless Steel Screw Conveyor, Model L188102. Please read this manual thoroughly before operating the equipment to ensure proper function and to prevent injury or damage.

The TECHTONGDA L188102 is designed for conveying various small particles and powdery materials, offering an efficient and clean solution for industrial feeding tasks.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in serious injury or equipment damage.

- Always ensure the power supply matches the equipment's requirements (110V, 1100W).
- Do not operate the conveyor without proper grounding.
- Keep hands, loose clothing, and tools away from moving parts, especially the auger screw and motor.
- Ensure all safety guards are in place before operation.
- Disconnect power before performing any maintenance, cleaning, or troubleshooting.
- Operate the machine on a stable, level surface.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves.
- Do not overload the hopper or exceed the specified conveying capacity.

3. PRODUCT OVERVIEW

The TECHTONGDA L188102 screw conveyor is constructed from durable stainless steel, designed for reliable and hygienic material transfer. It features a hopper for material intake and an inclined auger for vertical and horizontal conveyance.

3.1 Key Features

- **Efficient and Safe:** Equipped with a powerful 1100W motor and spiral spring mechanism for enhanced efficiency and stability.

- **Superb Performance:** Offers a 1.65m effective conveying height and a capacity of 600lb/min. Features a rigid drive shaft and spiral blades for consistent operation.
- **Innovative Design:** Minimizes scattered and flying powder during transport, suitable for various granular and powdery materials.
- **Multipurpose Use:** Ideal for industries such as grain processing, building materials, and casting production. Designed for dust-free and low-noise indoor operation.
- **Durable Construction:** Made from high-quality stainless steel for reliability, ease of cleaning, and extended lifespan.

3.2 Components



Figure 1: Overall view of the TECHTONGDA Stainless Steel Screw Conveyor, showing the hopper, inclined auger tube, and base with casters. This unit is designed for efficient material transfer.

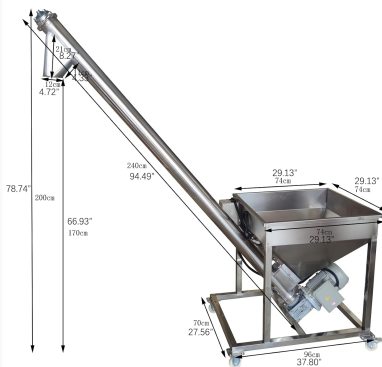


Figure 2: Detailed dimensional drawing of the screw conveyor, indicating key measurements for installation and space planning. Dimensions include hopper size, conveyor length, and overall height.



Figure 3: Close-up view of the control panel, featuring start (green), stop (red), and emergency stop buttons. The panel is clearly labeled for intuitive operation.



Figure 4: View of the motor and gearbox assembly, which powers the auger. This robust unit ensures consistent and powerful material conveyance.



Figure 5: Close-up of a caster wheel with a locking mechanism, providing mobility and stability for the conveyor unit.

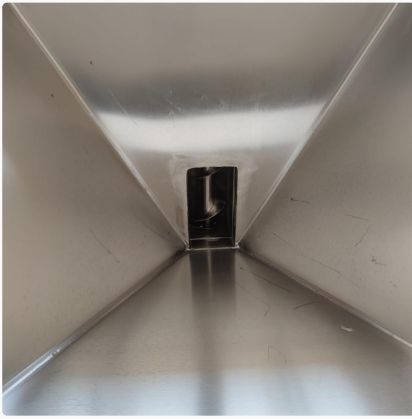


Figure 6: Internal view of the hopper, showing the entry point of the auger screw. The design facilitates smooth material flow into the conveyor tube.



Figure 7: Close-up of the stainless steel auger screws, highlighting their robust construction and spiral design for efficient material movement.



Figure 8: Detailed view of the hopper and the lower section of the conveyor, including critical dimensions for integration into existing systems.

4. SPECIFICATIONS

Attribute	Value
Model Number	L188102
Manufacturer	TECHTONGDA
Material	Stainless Steel
Power	110V, 1100W
Effective Conveying Height	1.65 meters
Capacity	600 lb/min

Attribute	Value
Item Weight	245 Pounds

5. SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage. Report any damage to the carrier immediately.
2. **Assembly:** The main components of the conveyor are typically pre-assembled. Ensure the hopper is securely attached to the base frame and the inclined auger tube is firmly connected to the hopper outlet and discharge end. Refer to the assembly diagram if provided separately.
3. **Placement:** Position the conveyor on a stable, level surface. Ensure adequate clearance around the machine for operation and maintenance.
4. **Caster Locks:** Engage the locks on the caster wheels to prevent unintended movement during operation.
5. **Electrical Connection:** Connect the power cord to a grounded 110V power outlet. Verify that the power supply matches the machine's requirements.
6. **Initial Inspection:** Before first use, visually inspect all connections, bolts, and moving parts to ensure they are secure and free from obstructions.

6. OPERATING INSTRUCTIONS

1. **Preparation:** Ensure the discharge point is ready to receive material and the hopper is clear of any foreign objects.
2. **Start-up:** Press the green 'Start' button on the control panel (refer to Figure 3). The motor will begin to operate, and the auger will start rotating.
3. **Material Loading:** Slowly introduce the material into the hopper. Monitor the flow to prevent overloading. The conveyor is designed for small particles and powdery materials (refer to Figure 9 for examples).



Figure 9: Examples of materials suitable for conveyance, including coffee beans, corn, salt, flour, sugar, and ground coffee.

4. **Monitoring:** Observe the material flow and the conveyor's operation. If any unusual noises or vibrations occur, immediately press the red 'Stop' button.
5. **Shut-down:** Once conveying is complete, press the red 'Stop' button on the control panel. Allow the auger to clear any remaining material before completely powering down.
6. **Emergency Stop:** In case of an emergency, press the large red 'Emergency Stop' button. This will immediately cut power to the motor.

7. MAINTENANCE

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

- **Daily Cleaning:** After each use, clean the hopper and auger tube to prevent material buildup, especially when conveying different types of materials. Stainless steel construction facilitates easy cleaning.
- **Weekly Inspection:**
 - Check all bolts and fasteners for tightness.
 - Inspect the auger screw for wear or damage.
 - Examine the motor and gearbox for any signs of overheating or unusual noise.
 - Verify the condition of the power cord and electrical connections.
- **Lubrication:** Refer to the motor and gearbox manufacturer's guidelines for lubrication schedules and types of lubricants.
- **Storage:** When not in use for extended periods, clean the conveyor thoroughly and store it in a dry, protected environment.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Conveyor does not start	No power supply Emergency stop engaged Motor fault	Check power connection and outlet Disengage emergency stop button Contact qualified technician
Material flow is inconsistent or stopped	Hopper empty Material bridging in hopper Auger jammed Motor overload	Refill hopper Gently agitate material in hopper Disconnect power, clear obstruction Reduce material feed rate
Unusual noise or vibration	Loose components Bearing wear Foreign object in auger Motor issue	Tighten fasteners Contact qualified technician for bearing replacement Disconnect power, clear obstruction Contact qualified technician
Motor overheats	Overloading Insufficient ventilation Motor fault	Reduce material feed rate Ensure adequate airflow around motor Contact qualified technician

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your seller directly. Keep your purchase receipt and model number (L188102) readily available when seeking support.

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