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DIHOOL DHLCT-150

DIHOOL Electric Scissor Lift Table DHLCT-150 Instruction Manual

1. INTRODUCTION

Thank you for choosing the DIHOOL Electric Scissor Lift Table, Model DHLCT-150. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new lift table. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

Always prioritize safety when operating the lift table. Failure to follow these instructions may result in injury or damage to the equipment.

- **Weight Capacity:** Do not exceed the maximum load capacity of 350 lbs (150 kg). Overloading can cause instability and damage.
- **Stable Surface:** Ensure the lift table is placed on a flat, stable, and level surface before operation.
- **Obstruction Detection:** The system includes obstruction/resistance detection. If an unusual current spike is detected, the lift will stop or rebound to prevent accidents. Do not intentionally obstruct the lift during operation.
- **Power Source:** Use the provided AC100-240V adapter or a DC24V-30V power source. If using a 12V power source, a 12V to 24V DC step-up converter (120W+ required) is necessary.
- **Continuous Operation:** Avoid continuous long-term operation. The maximum continuous runtime is 20 minutes to prevent motor overheating.
- **Children and Pets:** Keep children and pets away from the lift table during operation.
- **Maintenance:** Regularly inspect the lift table for any signs of wear or damage. Do not operate if damaged.
- **Emergency Stop:** Familiarize yourself with how to quickly disconnect power in an emergency.

3. PACKAGE CONTENTS

Verify that all components are present upon unpacking:

- Electric Scissor Lift Table (main unit)

- DC Motor Controller (Model: IPS-S2)
- Wireless Remote Controller (battery not included, Model 23A)
- Wired Handle Controller (2.5m cable)
- AC/DC Power Supply Adapter
- Adjustable Feet (pre-installed or to be installed)



Figure 3.1: Included components: DC Motor Controller, Wireless Remote, Wired Handle Controller, and AC/DC Power Supply.

4. PRODUCT OVERVIEW AND FEATURES

The DIHOOL Electric Scissor Lift Table is designed for versatile lifting applications, offering quiet operation and robust construction.

- **High Capacity:** Supports loads up to 350 lbs (150 kg).
- **Adjustable Height:** Lifting stroke of 19.09 inches (485mm), adjusting from 7.68 inches (195mm) to 26.77 inches (680mm).
- **Quiet Operation:** Equipped with an upgraded high-torque motor, operating under 50dB.
- **Safety Features:** Obstruction/resistance detection, self-locking function, and built-in limit switch.
- **Control Methods:** Wireless remote, wired handle, and WiFi control via eWelink APP.
- **Durable Construction:** Built with robust steel materials and an X-shaped frame for stability.

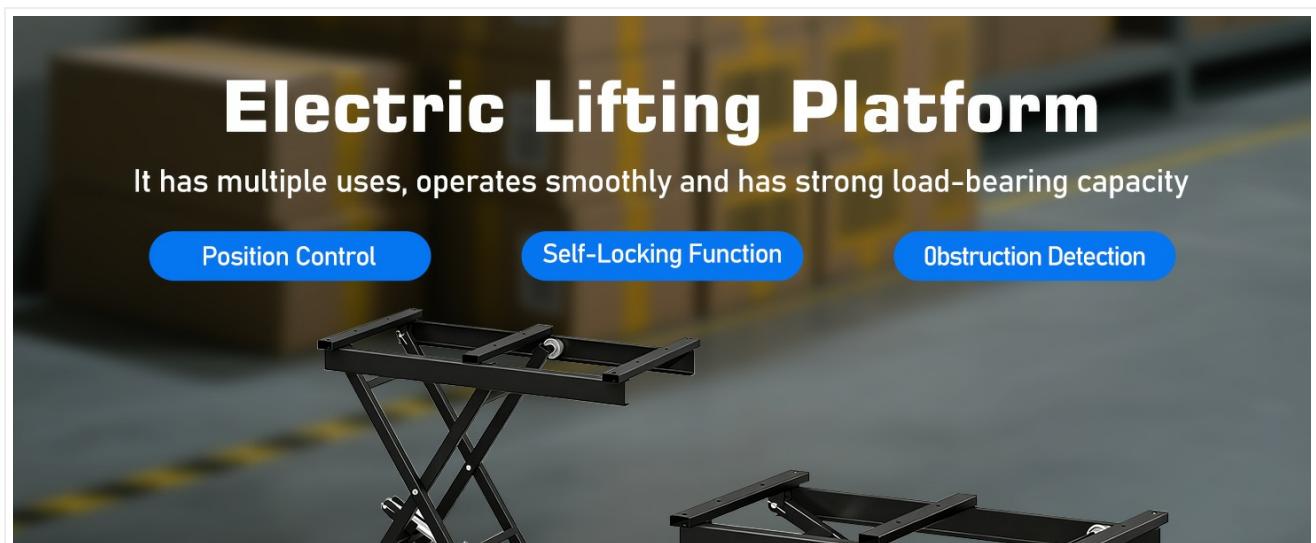


Figure 4.1: Three available control methods for the lift table.



Figure 4.2: Quality details of the lift table's construction.

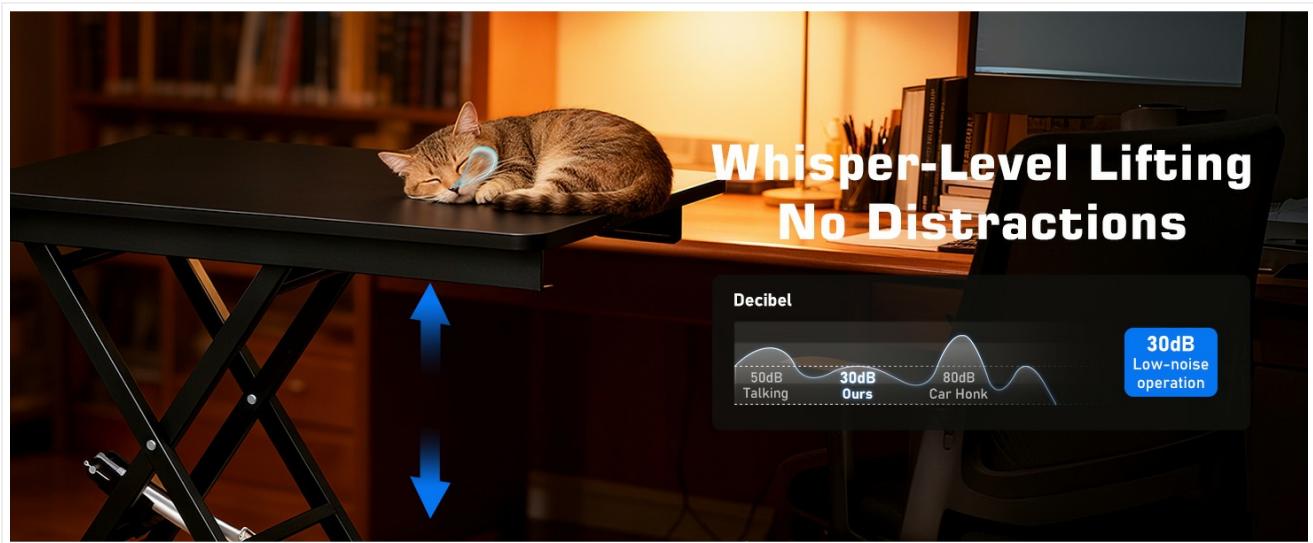


Figure 4.3: Maximum load capacity and speed of the lift table.



Figure 4.4: Safety and control features ensuring secure use.

5. SPECIFICATIONS

Feature	Specification
Model	DHLCT-150
Load Capacity	150kg / 330lbs (Note: Product title states 350lbs, specifications state 330lbs. Refer to product listing for exact model capacity.)
No-load Speed	10mm/s, 0.4inch/s
Min Height	195mm / 7.68 inches
Max Height	680mm / 26.77 inches
Stroke	485mm / 19.09 inches
Size (L*W*H)	760*430*195 mm / 29.92*16.93*7.68 inches
Weight	16kg / 35lbs (Product listing states 37.4 pounds)
Voltage	DC 24V
Surface Treatment	Electrophoretic Black
Operating Temperature	-10°C ~ +65°C
IP Grade	IP43



Figure 5.1: Parameter introduction with key dimensions.



Figure 5.2: DHLCT-150 detailed parameters.

6. SETUP AND INSTALLATION

The DIHOOL Electric Scissor Lift Table comes pre-assembled and pre-wired for ease of use. Follow these steps for initial setup:

6.1 Unpacking and Placement

1. Carefully remove all components from the packaging.
2. Place the lift table on a stable, level surface where it will be used.
3. Ensure there is sufficient clearance around the table for safe operation and to avoid obstructions.

6.2 Connecting Power and Controls

1. Connect the DC Motor Controller to the lift table's motor and power input. The unit is pre-wired, so simply ensure connections are secure.
2. Plug the AC/DC Power Supply Adapter into the DC Motor Controller.
3. Plug the AC/DC Power Supply Adapter into a standard AC 100-240V wall outlet.
4. Connect the wired handle controller to the designated port on the DC Motor Controller.
5. For wireless remote control, ensure a Model 23A battery is inserted (not included).
6. For WiFi control, download the eWelink APP from your device's app store and follow the in-app instructions to pair with the controller.

OURS	Others
	
Max Load Capacity: 450lb	Max Load Capacity: 400lb
Decibel: ≤30dB, low noise	Decibel: ≤50dB, loud noise
Speed: 0.35in/s	Speed: 0.2in/s
Material: Steel, surface electrophoretic black, not easy to rust or deform	Material: Iron material, prone to deformation and rusting
Motor: High power motor with strong thrust	Motor: Low power motor with low thrust
Stability: Equipped with a base for better stability	Stability: No base, easy to shake

Figure 6.1: Easy plug-and-play assembly.

7. OPERATING INSTRUCTIONS

The lift table offers multiple control options for convenience and flexibility.

7.1 DC Motor Controller (IPS-S2) Overview

	Model: DHLCT-150A	Load Capacity: 330 lb	No-load Speed: 0.43 in/s
	Min Height: 8.3 in	Max Height: 22.8 in	Stroke: 14.6 in
Size(L * W * H): 23.2x16.5x8.3 in			Weight: 31 lb

Figure 7.1: DC Motor Controller (IPS-S2) description.

The IPS-S2 controller features a digital display and several buttons for direct control and setting adjustments:

- B1:** UP button for lifting the platform.
- B2:** DOWN button for lowering the platform.
- K1, K2, K3:** Function setting buttons.
- L:** Standby time setting.

7.2 Functional Operation and Settings

The controller allows for advanced settings to customize operation and safety:

Function Code	Function Description	Value Range	Default Value

Function Code	Function Description	Value Range	Default Value
A	Current Limit For Up (Set the limited current value for the moving up (Amp))	A00.1-A10.0	4.2
B	Current Limit For Down (Set the limited current value for the moving down (Amp))	B00.1-B10.0	1
C	Running Time (Set the running time of the motor (Seconds))	C000-C999	80
D	Current Limit For Rebound (Set the Current Rate of Change for moving down (Amp))	D00.1-D02.0	00.3
E	Rebound Time (Set the running time during rebound (Seconds))	E001-E999	001
F	Reduce Voltage For Down (Set the Reduce percentage of voltage during lifting down (Percentage))	F020-F093	093
L	Standby Time (Set the standby time of the screen (Minutes))	L000-L999	005

To enter function settings, press the K1 button for 3 seconds. Use K2 and K3 to adjust values. The limited current value can be adjusted based on actual operation conditions. For initial use, the current for the first time running may be higher; you can set a lower current value after several runs. This helps prevent motor damage and extends equipment lifespan.

7.3 Control Methods

- Wireless Remote:** Use the UP and DOWN buttons on the remote to control the lift. The remote has a range of up to 30 meters.
- Wired Handle:** Use the UP and DOWN buttons on the wired handle for direct control. The cable length is 2.5m.
- Controller Buttons:** Use the B1 (UP) and B2 (DOWN) buttons directly on the IPS-S2 controller.
- eWelink APP (WiFi Control):** Download the eWelink APP to control the lift via WiFi. This allows for advanced features and automation.
- External Switches:** The controller supports connection to external switches such as Photoelectric Switch, Inductive Switch, Push Button, Pedal Button, or Relays for customized control.
- Automatic Lifting:** Can be configured to achieve automatic lifting based on control signals.
- Exhibition Mode:** Can be set to run automatically for exhibition displays.

Video 7.1: Demonstration of the Electric Scissor Lift Table's operation and controller settings. This video illustrates how to adjust current limits and use the up/down functions, including obstruction detection.

Video 7.2: A practical demonstration of the DIHOOL Electric Scissor Lift in use, showcasing its smooth lifting and lowering capabilities for various applications.

8. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your DIHOOL Electric Scissor Lift Table.

- Cleaning:** Wipe down the lift table with a damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- Lubrication:** Periodically lubricate the scissor mechanism pivot points and the linear actuator screw with a suitable

lubricant to ensure smooth operation and prevent wear.

- **Inspection:** Regularly check all bolts, nuts, and connections for tightness. Inspect the power cable and control cables for any signs of damage or fraying.
- **Motor and Actuator:** Listen for unusual noises during operation. If any abnormal sounds or movements occur, discontinue use and troubleshoot.
- **Storage:** When not in use for extended periods, store the lift table in a dry, clean environment.

9. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Lift does not move	No power, loose connection, remote battery dead, motor overload.	Check power adapter and wall outlet. Ensure all cables are securely connected. Replace remote battery. Reduce load if overloaded.
Lift moves slowly or with difficulty	Overload, insufficient power, lack of lubrication, obstruction.	Reduce load. Check power supply. Lubricate moving parts. Remove any obstructions.
Lift stops unexpectedly	Obstruction detection triggered, motor overheating, power interruption.	Remove obstruction. Allow motor to cool down. Check power connection.
Remote control not working	Dead battery, out of range, interference.	Replace battery (Model 23A). Move closer to the lift table. Reduce potential interference.
WiFi control not connecting	Incorrect pairing, WiFi signal issue, APP error.	Re-pair the device via the eWalink APP. Check WiFi signal strength. Restart the APP or your device.

If the problem persists after attempting these solutions, please contact DIHOOL customer support.

10. WARRANTY AND SUPPORT

DIHOOL products are designed for quality and durability. For warranty information and customer support, please refer to the 'Protection To Fix Card' included with your product or contact DIHOOL directly through their official channels. Please provide your purchase store, order number, name, contact information, and a detailed quality problem statement when seeking support.

Note: Maintenance is not provided for situations such as unauthorized disassembly, improper use, natural disasters, or force majeure events.