

# Powered Hand Drill Lifter (Hook & Strap)

LFT200DH

## User Manual








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# 1 Safety Precautions

To ensure personal safety and prevent equipment damage, it is essential to pay attention to the safety signs and prompts in this manual:

 <b>WARNING</b>	<b>May cause serious injuries or even death!</b>
 <b>CAUTION</b>	<b>May cause slight injury!</b>
 <b>NOTE</b>	<b>May cause machine damage!</b>

## General Safety

- Read the user manual and pay attention to the warning and safety instructions before operation.
- Before use, inspect the overall structure of the machine body to ensure there are no severe damages.
- Carefully read the technical specifications, during equipment operation, ensure the load does not exceed the rated weight capacity.
- Only trained personnel may operate this equipment, and operators must be in sound physical and mental condition.
- Only the accessories provided by the company can be used.

## Operating Requirements

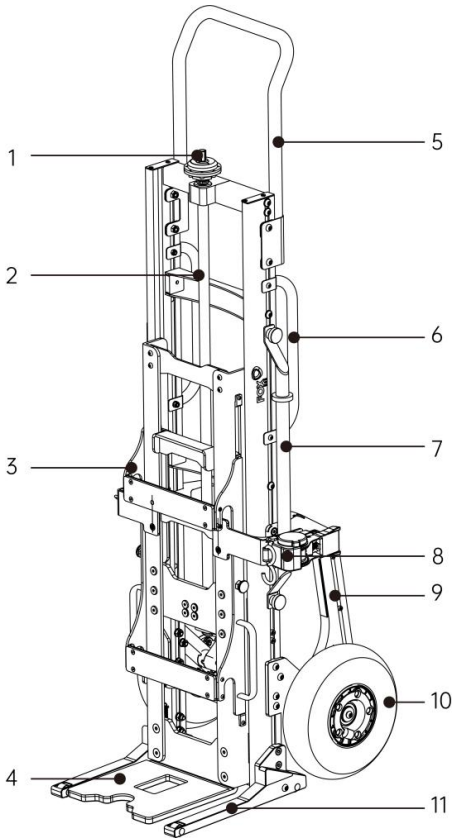
- Please comply with all applicable laws and regulations during transportation..
- Wear anti-slip shoes; operate using both hands at all times.practice with the equipment unloaded first; ensure proper safety measures are in place during practice.
- This product is designed exclusively for cargo transportation and must not be used to carry passengers. Always use safety straps to secure the load.
- Do not place hands under the loading plate or touch rotating parts during operation.
- Do not use the equipment if the powered hand drill lifter tires are under-inflated or damaged.
- If the drive components become jammed, stop using the equipment immediately.
- Keep the lead screw lubricated. If excessive resistance occurs, add appropriate lubricant or perform immediate repairs.

## Environmental Requirements

- Please ensure that the driving route is free of obstacles and the road surface is dry.
- Avoid using the product in rainy, wet, slippery, snowy, or icy conditions to prevent potential risks such as reduced braking performance or skidding.
- Do not use this equipment on escalators or moving conveyor belts.
- Please store in a dry environment; do not use high-pressure cleaning equipment to avoid damage caused by moisture.
- External factors such as sunlight exposure may cause the equipment surface to heat up. Keep it away from flammable materials.

## 2 Product Description

### 2.1 Product Structure



- 1: Hand drill mounting point
- 2: Lifting lead screw
- 3: Auxiliary handle buckle bracket
- 4: Lifting loading plate
- 5: Fixed handrail
- 6: Push handrail
- 7: Auxiliary handle
- 8: Automatic retracting ratchet tie down strap
- 9: Towing bracket
- 10: Solid tires
- 11: Roller support legs

### 2.2 Equipment Application

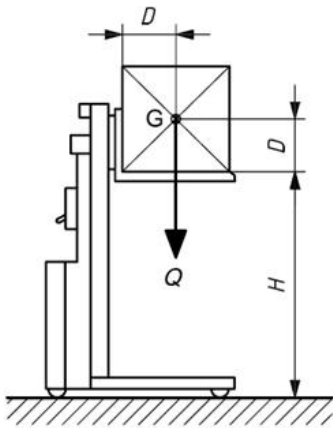
The powered hand drill lifter is a new type of handling and lifting equipment that can be used with an electric hand drill.

The main function is to transport household energy storage products from outdoors to the user's home across grass, gravel roads, and paved roads after unloading, and then lift them for wall mounting.

## 2.3 Technical Specifications

### Specifications

Overall dimensions	Height: 1520 mm Width: 484 mm Length: 551 mm
Lifting loading plate dimensions	Width: 232 mm Length: 217 mm
Weight	34.5±1kg
Rated Load Capacity	200kg
Lifting Stroke	800 mm
Max. Loading Plate Height	809 mm
Storage/Operating Temperature Range	-5°C to +35°C/0°C to +40°C
Serial Number Label	Refer to the nameplate on the machine body



H (Rated Lifting Height): 800 mm

G (Cargo Center of Gravity)

D (Standard Load Center Distance): 130 mm

Q (Rated Load Capacity): 200kg



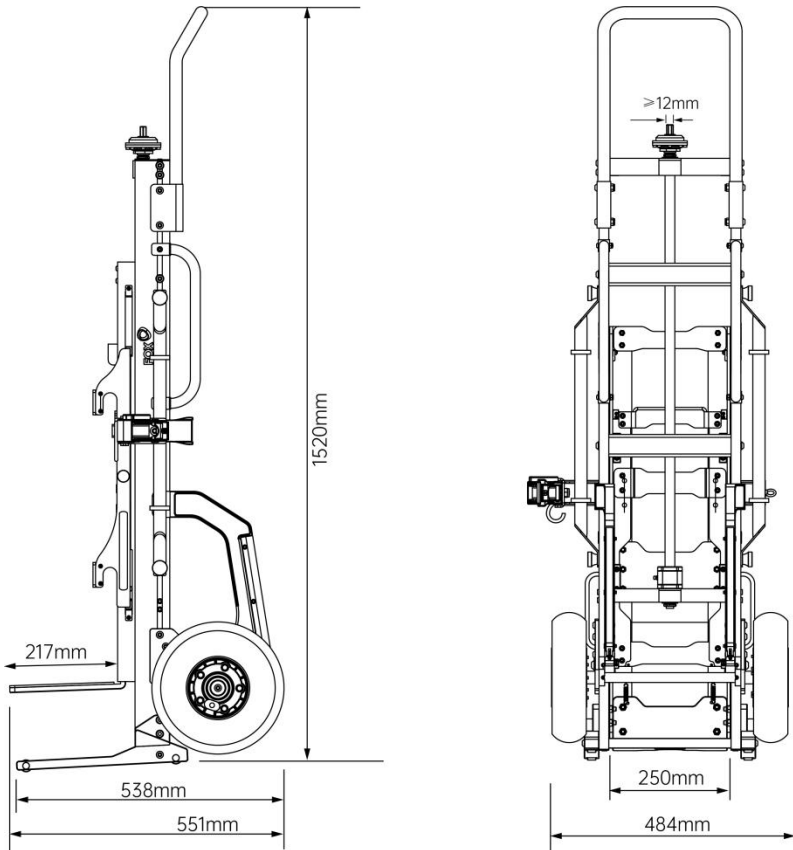
#### NOTE

Rated Operating Conditions -- If the load exceeds the rated operating parameters, the carrying capacity must be reduced. Otherwise, there is a risk of equipment damage or machine tipping hazards.

## 2.4 Equipment Information

This user manual is applicable only to the LFT series product LFT200DH.

## 2.5 Overall Equipment Dimensions

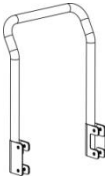

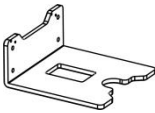



Overall dimensions

# 3 Product Installation Instructions

## 3.1 Product Components

The main components of the powered hand drill lifter are shown in the figure below. Assemble using the included screws.

Component Name	Illustration
Fixed handrail	
Roller support legs	
Lifting loading plate	
Body frame	

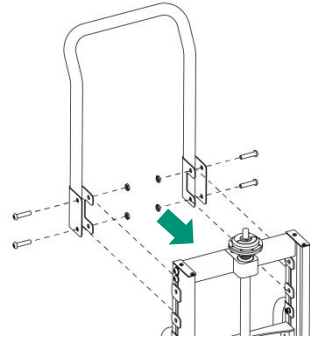
## 3.2 Installation Steps

The installation procedures for the LFT200DH are as follows.

### Step 1 Install the fixed handrail

Place the fixed armrest on top of the machine frame as shown in the figure.

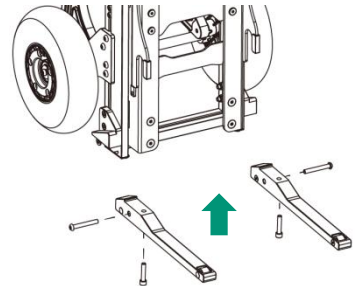
Secure the armrest to the frame using the four provided hexagon socket button head screws (M8x35), then fasten it with hexagon thin nuts.



### Step 2 Install the leg assembly

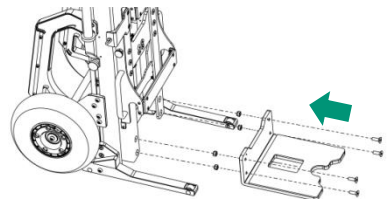
Align the mounting holes of the stainless steel legs with those of the connecting blocks respectively.

Fix the side edges of the stainless steel legs using hexagon socket button head screws (M8x60), then fix the bottom of the stainless steel legs using hexagon socket cap screws (M8x40).



### Step 3 Install the loading plate

Fix the loading plate on the lifting assembly, then fasten it with M8x25 hexagon socket countersunk head screws and hexagon lock nuts.

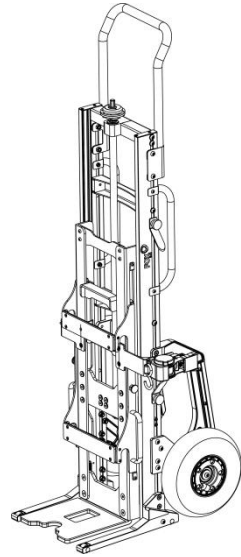


**Step 4** After installation, the effect is shown in the right figure.



**CAUTION**

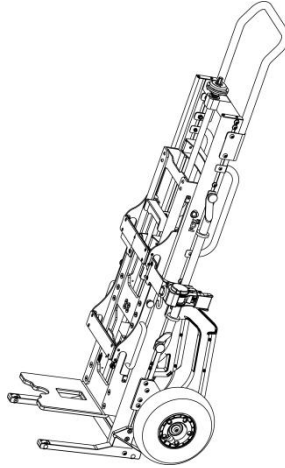
Ensure all screws are fully tightened to prevent loosening. Should any operational abnormalities be detected during installation, immediately contact the manufacturer or an authorized local distributor.



## 4 Basic Function Descriptions

### 4.1 Loading Board Instruction

When using the load-carrying plate tooling, place the battery on the plate and secure it with straps.



#### WARNING

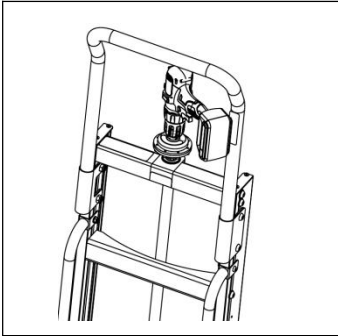
Since the tooling's support frame moves vertically, do not allow any battery or body parts to extend between the support frame and the lead screw. This prevents battery damage or potential injury/fatality from pinching.



#### NOTE

- When lifting or lowering battery with the tooling, the center of gravity of the battery must not exceed  $2/3$  of the load-carrying plate. Failure to comply may result in tipping hazards.
- Never place body parts or fragile items under the load-carrying plate.

## 4.2 Lifter Start-Up



Insert the hand drill into the top mounting interface and lock it securely. Then, lean the hand drill against one side of the handrail for additional support, and secure it with a strap. Once the handle is stabilized, you can begin lifting the cargo.



### NOTE

The LFT200DH does not have a limit switch. When the loading plate reaches the upper limit, it will stop moving and cannot rise further. When the loading plate reaches the lower limit, it will also stop moving and cannot descend further. Please stop rotating the electric drill after reaching the upper and lower limits to avoid damage.



### WARNING

- The gear of the electric drill needs to be adjusted to the normal gear, and the impact gear will cause damage to the machine body.
- Do not use the trolley in an upright position on soft ground, as this may cause the outriggers to break.

## 5 Operations



### NOTE

- Before the initial operation, please place the machine in an environment above 0°C without freezing!
- When lifting and lowering battery, it is necessary to conduct an empty-load test first. Only after confirming there are no abnormalities should battery be loaded for transportation.
- The maximum continuous working time for lifting and lowering should not exceed 10 minutes. It is recommended that the machine rest for 1 minute after working continuously for 3 minutes of lifting and lowering.



### WARNING

- Only trained personnel can operate this machine!
- Overloading is strictly prohibited.
- During operation, do not place any body parts or fragile items in front of the LFT200DH or under the loading plate. This is to prevent injuries or property damage caused by falling loads or machine tipping hazards.

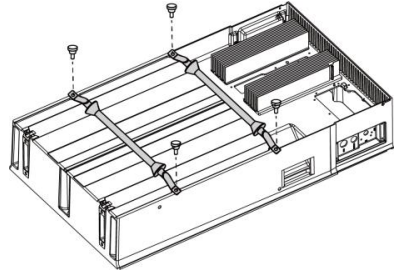
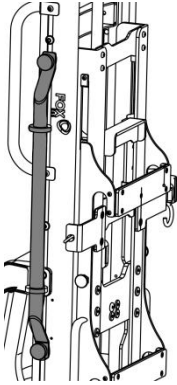
### 5.1 Loading the Battery

Users may choose one of the following methods to load goods according to the battery product and usage scenario.

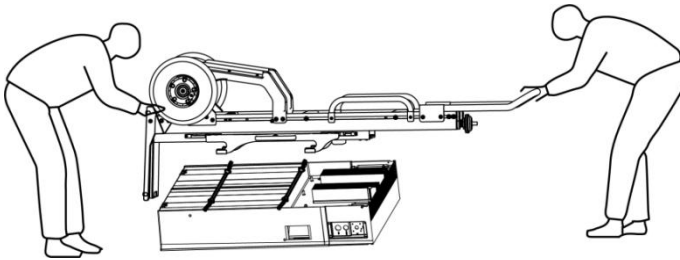
#### ■ Method 1: Loading with the auxiliary handle

**Step 1** Carefully inspect the powered hand drill lifter to ensure that all screws are tight and all mechanical devices are in normal working condition.

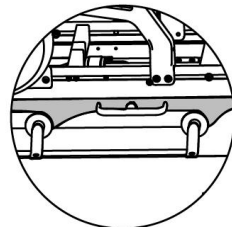
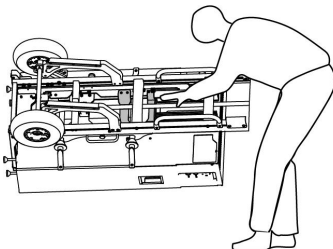
**Step 2** First, remove the auxiliary handle on both sides of the powered hand drill lifter, then fix them to the front of the battery to be loaded.



**Step 3** With the assistance of two people, lift the powered hand drill lifter and position it in front of the battery to be loaded, as shown in the figure below.

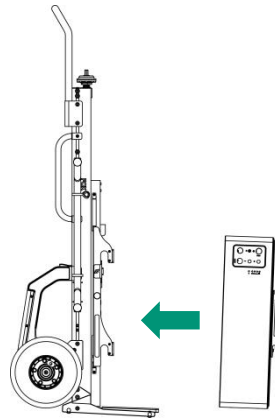


**Step 4** Pull the top lifting handle of the loading plate to make the auxiliary handle buckle bracket engage with the auxiliary handle.

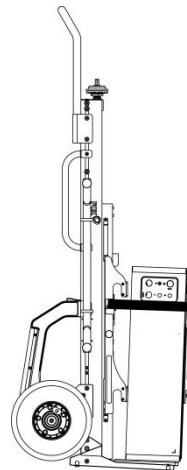


■ Method 2: Loading with the Automatic Retracting Ratchet Tie Down Strap

**Step 1** Place the battery gently onto the loading plate.



**Step 2** Secure the battery using the built-in automatic retracting ratchet tie down strap.



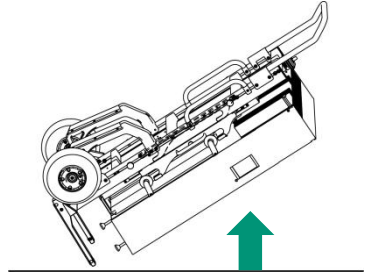
## 5.2 Flat Ground Operation

**Step 1** Lift the battery with two people working together (this step can be skipped for Method 2).



### WARNING

When operating on flat ground, be sure to pay attention to the overall tilt Angle of the machine body to avoid overturning.

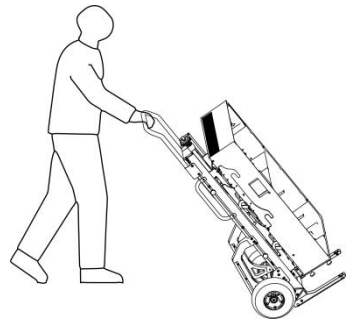


**Step 2** Keep your body balanced, push or pull the fixed handrail with arm strength, and use the wheel-foot drive device at the bottom of the equipment.



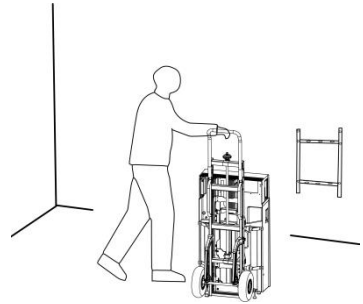
### WARNING

Avoid running over sharp objects during ground operation to prevent tire punctures.



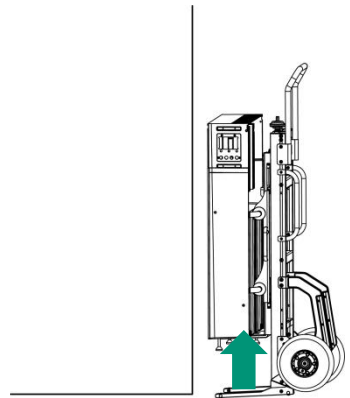
## 5.3 Installing the Battery

**Step 1** Move the battery close to the installation position.



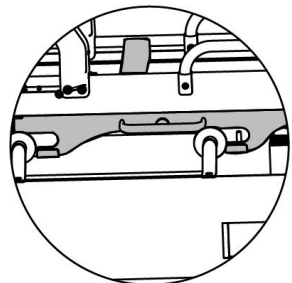
**Step 2** Adjust the position of the powered hand drill lifter to align the battery with the mounting bracket.

Keep the powered hand drill lifter and battery upright, use a hand drill to lift the loading plate, lift the rear fixing buckle of the battery to a position slightly higher than the fixing positions on the mounting bracket, then lower slowly and secure the battery properly.

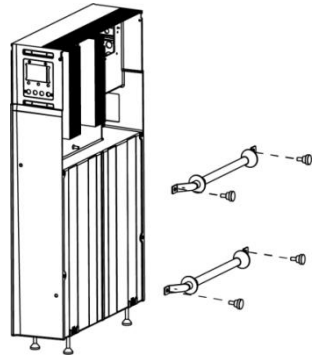


**Step 3** After installation, remove the powered hand drill lifter and the auxiliary handle.

- When loading the battery using Method 1:
  - ① As shown in the right figure, disengage the auxiliary handle buckle bracket from the powered hand drill lifter and pull it out of the powered hand drill lifter.



- ② Remove the auxiliary handle in the manner shown in the right figure and fix it on the powered hand drill lifter.



- When loading battery using Method 2: Simply unbuckle the automatic retracting ratchet tie down strap and remove the powered hand drill lifter.

## 6 Storage and Transportation

### 6.1 Transportation

- Short-distance transportation: Position the powered hand drill lifter against the edge of the cargo compartment and secure it with straps.
- Long-distance transportation: Remove detachable components, orient the loading plate upward, and place the powered hand drill lifter flat on the cargo compartment floor.

### 6.2 Storage

- Storage: Store the lift in an indoor environment between 0°C to 30°C, away from moisture (water).
- Long-term storage: Apply lubricant evenly to the lead screw before sealing the equipment for storage.



#### NOTE

The product must be properly positioned during both transit and storage.

## 7 Inspection and Maintenance

### 7.1 Routine Inspection

During long-term operation of the product, performance degradation may occur due to factors such as component wear and dust accumulation. Regular inspection and maintenance can effectively prevent potential safety hazards caused by equipment failures.



#### **WARNING**

Before use, perform a no-load ascending/descending operation check on the LFT200DH. Immediately stop usage and contact the manufacturer or local distributor for inspection if any of the following issues occur.

- (1) The loading plate fails to lift after the hand drill has been activated for a period.
- (2) Abnormal tilting of the loading plate or machine body.
- (3) The strap locking mechanism malfunctions.
- (4) Fractures or other damage are detected on the lifting lead screw.
- (5) Stuttering or jamming occurs during the loading plate's movement during no-load operation.
- (6) Unusual noises are generated during empty load operation.
- (7) Deformation or damage is found on the loading plate, machine body, or other components.
- (8) The pneumatic wheel fails to function in walking or other aspects.



#### **NOTE**

The powered hand drill lifter should be inspected monthly. If any damage is detected, immediately cease operation and contact the local distributor for repairs or replacement of wear parts.

## 7.2 Maintenance and Servicing



### NOTE

- Please protect all components from corrosive substances or any items that may be destructive!
- Please operate in accordance with the operation manual!
- Long-term overloading will lead to a decline in the performance of the body and shorten its lifespan!
- Please keep the rust-prone parts dry!
- Please replace the grease in time!

## 7.3 Recycling

The powered hand drill lifter is a product with a long service life. However, if your powered hand drill lifter has reached the end of its service life, you may return its components to our company or our authorized agents for recycling.

## 8 Fault Management

Problem	Detection and solution methods
The loading plate cannot be raised or lowered	If the hand drill fails to start despite having sufficient battery power, check whether the drill is rotating normally and verify its gear settings. Excessive torque may trigger torque-limiting protection. If the issue persists, contact the supplier.
The tires fail to rotate	Please contact your supplier.
Abnormal auxiliary handle buckle bracket function of the powered hand drill lifter	If the auxiliary handle buckle bracket malfunctions, contact the supplier for assistance.
Abnormal noises occur in the powered hand drill lifter	If abnormal noises occur during lifting, remove the load and inspect the slide rails for foreign objects (ensure work is halted during inspection to prevent damage). Test for noises during no-load operation. If the noises persist, please contact the supplier.

# 9 Warranty and Liability

## 9.1 Warranty

- (1) During the warranty period, the powered hand drill lifter is guaranteed for one year under normal usage conditions. The vulnerable parts are guaranteed for three months.

**Equipment damage or damage caused by the following reasons is not covered by the warranty:**

- Damage caused by improper use or operation.
- Vandalism or intentional damage.
- Natural wear and tear of consumables (e.g., casters, safety straps).
- Unauthorized structural modifications or improper use of accessories.
- Improper or insufficient maintenance.
- Overloading the machine beyond rated capacity.

**(2) Cases Incurring Service Fees During Warranty:**

- Damage caused by misuse, improper maintenance, or storage by the user.
- Damage due to unauthorized disassembly by non-certified personnel.
- Missing or invalid warranty card or purchase invoice.
- Warranty card information mismatching the product or tampered details.
- Damage caused by force majeure (e.g., natural disasters).

- (3) For products that are not within the scope of repair and have exceeded the warranty period, we will still serve you warmly and only charge for the cost of parts.

## 9.2 Liability

**The manufacturer shall not be held liable for damage to the powered hand drill lifter caused by any of the following circumstances:**

- Improper operation of the equipment.
- Unauthorized repairs, disassembly, or modifications to the equipment.
- Failure to follow the operation manual guidelines.
- Installation of non-approved accessories or configurations not specified by the manufacturer.
- Unauthorized removal of factory-installed components.
- Operation under overload conditions.

**The content of this manual is subject to change due to improvements in product quality or upgrades to technical specifications. Our company reserves the right to make such changes without further notice. For the latest product information, please contact our company to request updated documentation.**



