

EPT15 Lithium Battery All-electric Pallet Truck Operation manual

**Warning: Read and follow all warnings carefully before operating
Make sure that the safety parts are not damaged at all times.**

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1. Preface

Please read this manual carefully before operating the machine to avoid any operating errors. Correct operation and regular inspections are important factors for the economic operation and life of the machine.

These important contents will be described in the relevant sections below.

All information in this manual is based on the valid data of the product at the time of printing. The manufacturer reserves the right to modify the product at any time in the future without obligation to inform. Therefore, any changes to the product need to be inspected in a timely manner.

2. Purpose

The lithium battery electric pallet truck (economy) is powered by the lithium battery to walk and carry the cargo with electric power, for the purpose of short distance transportation. It is widely used in workshops, warehouses, docks, stations, freight yards, etc. and is an ideal tool to improve efficiency and reduce labor intensity.

3. Technical parameters

The basic parameters of EPT15 lithium battery electric pallet truck (economy) are shown in Figure 1 and Table 1.

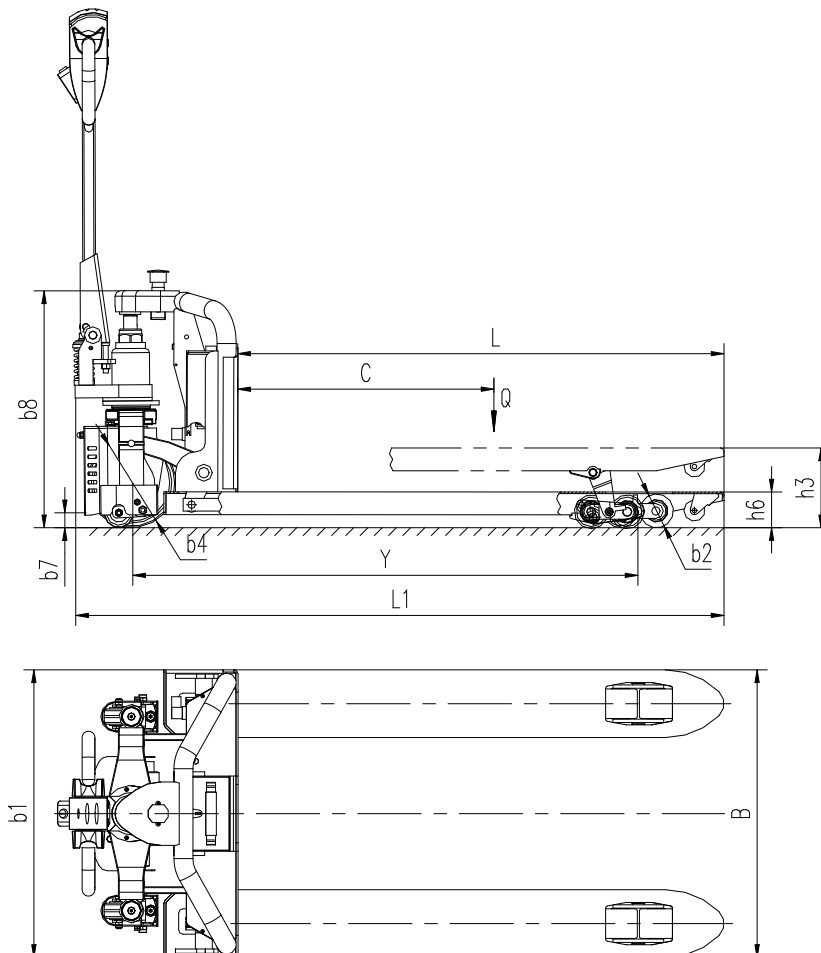


Figure 1

Table 1

Items			Model
			EPT15
Rated lifting capacity	Q	t	1.5
Load center distance	C	mm	600
Max. lifting height	h3		190
Lowest fork height	h6		85
Length of fork	L		1150/1220
Outer spacing of fork	B		560/680
Road clearance	b7		30
Running speed (Heavy load/no load)		km/h	3.5/3.8
Lifting speed of fork, full load/no load		mm/s	18/25
Go-down speed of fork, full load/no load		mm/s	70/40
Battery voltage/rated capacity			24V/25Ah
Wheelbase	Y	mm	1220/1290
Minimum turning radius (Excluding handle)	Wa	mm	~1350/1420
Overall dimension	Full length	L1	1540/1610
	Full width	b1	560/680
	Total height of body	b8	560
Wheel	Outer diameter of front wheel	b2	80
	Outer diameter of bearing wheel	b4	210
Dead weight		Kg	~155/160

4. Operation guide

4.1 Inspect before use

① If the pallet truck is damaged during the transportation, it must not be put into use. You must contact the dealer immediately.

② The pallet truck has been lubricated before delivery and has been filled with hydraulic oil in the hydraulic system.

③ If the pallet truck is equipped with two batteries, the batteries should have been fully charged.

④ Inspect the pallet truck carefully before operation to ensure that there are no faults.

4.2 How to operate the pallet truck

① The pallet truck can only run on hard pavements with a slope of less than 2.5%. Do not operate it on the oily ground to avoid slipping.

② Turn on the electric door key and inspect if the electric capacity is sufficient before operation.

③ If the electric level is low, charge it before operation. Do not use it in case of loss of power to avoid damage to the battery. If the battery is out of service for a long time (more than one month), it should be charged and discharged regularly to protect it.

④ During the operation, press the up button to let the fork up, and release it to stop; press the down button to lower the fork and release it to stop.

⑤ The pallet truck should be kept a certain distance from the surrounding personnel during the loading or unloading; when the cargo is too high or heavy, special care should be taken.

⑥ Please load in strict accordance with technical requirements, and do not overload, so as to avoid any mechanical damage or personal injury.

⑦ Do not lift up and down the cargo at the same time during the driving. Slow down while turning on the flat ground or going up and down a slope. It is forbidden to make a u-turn or turn on any slope to avoid danger.

⑧ After operation, the fork should be placed in the lowest position. The pallet truck may not be placed on a slope. Finally, turn off the power and remove the key to extend the battery life.

5. Operation and maintenance of battery and charger

5.1 Use of charger

① The charger we provide for the pallet truck is provided with excellent constant current characteristics and extremely fast over-current protection, which can automatically stabilize the output current when the voltage fluctuates.

② The charger can effectively prevent overcharging, which can protect the lithium battery and extend the service life regardless of the battery experiencing obvious temperature changes during the charging.

5.2 Battery charging

① Unplug the lithium battery in the body, insert the output plug of the charger, and connect the input plug to an external power source to charge the battery.

② Maintain good ventilation during the charging, without any smoking or open flames.

③ After charging, you should turn off the charging power, unplug the output plug of the charger, and insert the plug on the body into the socket of the lithium battery.

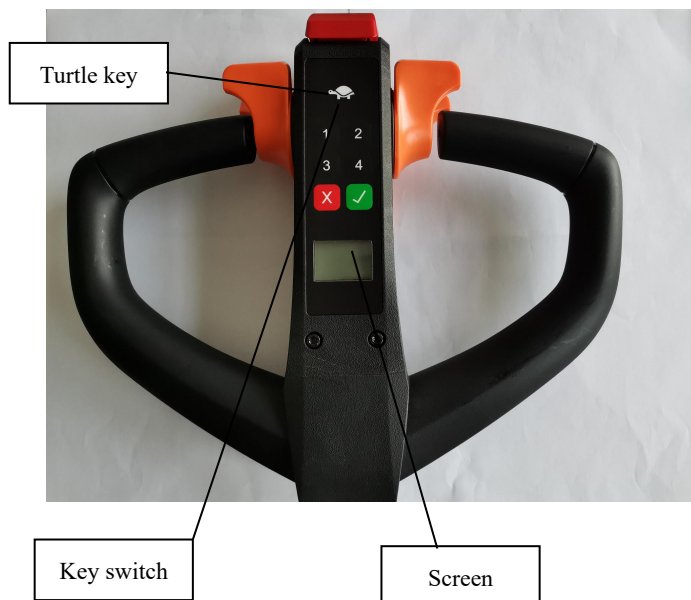
④ After charging, you should maintain the lithium battery and inspect the battery level.

5.3 Description of button function

The functions of the buttons on the operation handle are shown in the figure:



Front of the handle



Reverse side of the handle

The lithium battery plug and power switch (with emergency cut-off function) are shown in the figure:



6. Maintenance guide

6.1 Management inspection

The pallet truck should be maintained and inspected regularly to prevent fatigue wear and tear of the parts, and any potentially hidden dangers should be found in time before serious damage occurs.

Lithium battery is the power source of the pallet truck, which can supply sufficient power in accordance with the corresponding instructions and whose long lithium battery endurance can keep the machine in a good and optimal condition.

6.1.1 Daily inspection

- ① Inspect if the lithium battery is fully charged (see the handle electricity meter).
- ② Let the fork lift to the top position to inspect if the hydraulic oil in the hydraulic system is sufficient and add YA-N32 hydraulic oil or similar oil if necessary.

6.1.2 Weekly inspection

The user of the pallet truck should spend a few minutes every week on cleaning the machine. Special attention should be paid on removing the entanglement such as silk, linen, rags, etc. on the wheels and axles.

6.1.3 Half-year inspection

Inspect the brush in the hydraulic pump motor for tear and wear and replace any brush that may be undesirable to maintain good contact.

6.2 Oil replacement in the hydraulic system

We recommend replacing the hydraulic oil after one month of operation (or 200 hours of operation), and even if the operating time is not reached, the hydraulic oil should be replaced once a year. YA-N32 hydraulic oil or similar should be used. The oil to be used should be clean after filtration and kept in sufficient quantities. When the fork is lifted for twice or three times, there is no excess air in the system, and the machine can work normally again. If the lifting height of the fork is less than the required height, it is necessary to refill the hydraulic oil.

7. Removal and storage

This EPT15 lithium battery electric pallet truck (economy) must be placed horizontally during the transportation and storage to prevent any oil spills.

During the storage, it should be kept clean to avoid moisture and harsh weather conditions. The ambient temperature should not exceed 40 °C. If the battery is out of service for a long time, it should be recharged as appropriate.

8. General faults and troubleshooting

Fault	Fault reason	Troubleshooting
After turning on the switch, the power indicator doesn't illuminate.	The terminal is loose and the switch is in poor contact, causing power interruption.	Inspect the battery terminals and tighten the screws at all connections. The switch contacts should be kept unobstructed.
The speed of the piston rod of the lifting oil cylinder is not uniform during the extension.	There is air in the lifting oil cylinder.	Start twice or three times to remove the air from the oil cylinder.
Lifting oil cylinder cannot be lifted.	Hydraulic oil is insufficient.	Add hydraulic oil.
	Battery level is lower than the allowable value.	Charge the battery.
	Oil leakage.	Inspect, repair, and replace the seals, and tighten the screws at the oil pipe connections.
	Overload.	The lifting load may not exceed the specified value.
The power system produces an abnormal sound during the up-down process.	Insufficient or dirty hydraulic fluid.	Add enough hydraulic oil. Replace the dirty hydraulic oil with clean hydraulic oil.
	Due to the friction caused by the displacement of loose motor and casing.	Tighten the fixed screws.
	The ambient environment is very humid.	Ambient humidity $\leq 90\%$.