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E to the European Safety Requirements **X SERIES HI-RANGE PALLET TRUCK**

WITH LITHIUM POWER

With capacity of 2,000 to 3,000kg

LI-ION TECHNOLOGY

INNOVATIVE LITHIUM-ION

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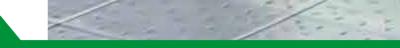
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X SERIES HI-RANGE ELECTRIC PALLET TRUCK

X series Hi-range electric pallet truck are a new generation of products newly developed by Hangcha for warehousing and logistics applications. Using the advanced permanent magnet brushless drive technology and equipped with a new 48V system, the products have advanced performance, comfortable, safe and reliable operations and low use and maintenance costs, and are ideal tools for loading, unloading and handling palletized goods in warehouses, supermarkets and workshops.

HIGH PERFORMANCE

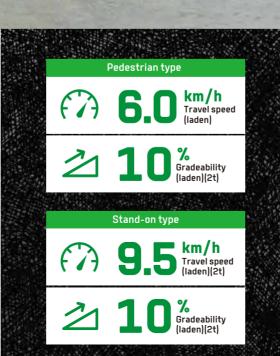
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- With high power drive motor, provides fast travel speed and good gradeability.
- The permanent magnet synchronous drive system has excellent performance and low energy consumption. The 48V power supply system has less heat generated.
- With the VCU control, the vehicle can be controlled accurately, stably and more efficiently.





(Option)Lithium battery with the on-board charger(48V,20A)



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The electronic steering provided for the standard configuration enables easier and more flexible operation.

RUGGED ON THE OUTSIDE.

- The X series Hi range electric pallet truck adopts a professional industrial design of exterior and a series family design. The vehicle has a smooth vivid profile and a fully ergonomic design, following the latest exterior design trend.
- Made of high-strength steel plates that are molded by stamping, the vehicle exterior is robust, durable and high-grade, and meets environmental protection requirements.







ENJOY YOUR WORK.

Customer can choose different width of outside fork and length of forks to fit variable pallet The new torsion bar - equipped auxiliary wheel system enables the vehicle to drive stably.



The standing driving pedal with shock-absorbing design significantly improves standing driving comfort and reduces long-time driving fatigue.

RELIABILITY

- With the low center of gravity design and a high-strength steel frame structure, the vehicle frame has a large residual load capacity.
- The hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.



NEW TILLER

- The novelly developed tiller is compact and stylish.
- Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.



PIN code access



COMFORT

- Optimized designing structure to offer a good visibility and easy entrance of the pallet.
- Using non-contact proximity switch, it can provides long life and reliable operation.
- The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.



 Optimized rod which is stable, reliable and subject to a small force





HANGCHA provides Li-ion battery (LiFePO4) with 6 years or 12000 hours warranty.

HANGCHA

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MORE PROTECT



Water-proof plugs and connectors applied to provide a reliable protection to electric system.



The integral metal rear hood can withstand external impact.



The stamped fork with higher strength and impact resistance, and guided fork prongs, further improve operation efficiency.

Pedestrian type use the new design drive system, the drive motor will not accompany the tiller rotation, it can keep all the cable connect to the drive motor avoid being bent.

PROTECT YOUR INVESTMENT

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WITH THREE BRAKING TYPES: Releasing brake, reversing brake and emergency brake, the driving safety has been ensured. The emergency button on the tiller head can effectively avoid the harm to the driver.

The applied slope anti-slip function ensures the safety of the operation.

No. of Street, or other

Lifting limitation switch to d offer protection to the loads from damaging

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MAINTENANCE

- All shafts installed lubricated shaft sleeve and oil cup, provide convenientmaintenance and long service life.
- Rear cover can be completely open, operator can see all the components, so the maintenance is very convenient.

The fault information can be checked directly via the interactive instruments instead of the manual.





Features

Truck		
48V per	manent magnet synchronous drive motor	
Hydrauli	ic power unit	
PU drive	wheel	
1150mn	n fork length	
540mm	outside fork width	
48V/80	Ah lithium battery(EVE)	
Balance	wheels	
Double load wheels		
Different length of forks		
Differen	t width of outside fork	
	ad wheel	
	5Ah lithium battery (EVE)	
48V/12	5Ah lithium battery (CATL)	
Contro	ols and instruments	
Multi-fu	nction tiller	
USB power supply		
Key switch		
Electric steering(stand-on type)		
Systech	controller	
Interact	ive meter	
Electronic lifting limitation		
PIN code	access	
Safety	,	
Emergency disconnect switch		
Turning deceleration(stand-on type)		
Horn		
Other		
48V30A charger		
48V50A charger		
Lithium	battery(48V/80Ah,EVE) with the on-board charger(48V,20A)	
Lithium	battery(48V/105Ah,EVE) with the on-board charger(48V,20A)	
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Maintenance-free permanent magnet synchronous motor.



 Standard	Options
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LITHIUM POWERED



EMPOWER YOURSELF WITH THE BEST



POWER THE POSSIBILITIES RELIABLE LITHIUM-ION TECHNOLOGY

LITHIUM BATTERY ADVANTAGES



Long service life

4000 full charging cycles with at least 75% residual capacity.



Return on investment

Add flexibility to your operation, cost-saving in the long term, increased efficiencies.



Maintenance free

No topping up of water or checking acid levels.

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High energy density

The high energy density of the Li-lon battery ensures long working times and increases the high availability.

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Lithium

Cold area application

Li-lon batteries maintain high performance at temperatures below freezing.



High safety and reliability

Intelligent battery management monitoring every important function, no emission of battery gasses.



Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

Efficiency

By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.

Safety

 Intelligent battery management monitoring every important function.

/ Higher user safety, thanks to acid-free use.

/ User friendly due to avoided battery change.

/ No emission of battery gasses.



Q: What are the characteristics of lithium batteries, especially

when used in high and low temperature environments?

Charging temperature:	-30°C -65°C
Discharge temperature:	-30°C -65°C
Storage environment temperature:	-30°C -65°C

After the truck key switch is closed, the instrument battery condition needs to be checked:

Confirm that there is no battery system alarm message on the instrument panel.
Please check the remaining power before use. It is recommended to use the SOC between 50% and 100%.

3. If the SOC is lower than 20%, it is not recommended to continue using it. Please charge it as soon as possible.



UESTION

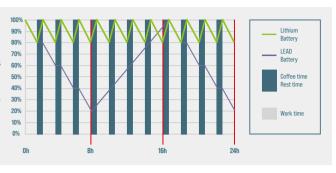
Q: What is the charging time and usage time calculation of forklift lithium battery?

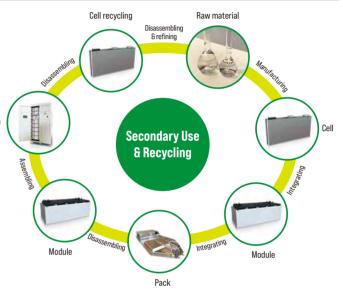
1. Available power of lithium battery (kWh) = rated voltage * rated power * 90% (To avoid over-discharge damaging the battery, the forklift is equipped with low power protection (less than 10%)).

2. Charging time (h) = rated capacity of lithium battery (Ah) \star 90% \star charger output current (A).

The power consumed for charging (kWh) = the available power of the lithium battery + 93% (the charging efficiency of the charger is calculated as 93%).
Usage time (h) = available power of lithium battery + energy consumption data.

For specific energy consumption values, please refer to the technical table on the sharing platform.







Q: How does Hangcha BMS work to ensure the safety of the lithium battery?

HANGCHA BMS (battery management system) can monitor the cells at all times. As a result, hangcha lithium power is the reliable solution.



Battery Safety Management:

Overcharge/over discharge protection Overcurrent/over-temperature/low- temperature protection Multi-level fault diagnosis protection Double fault monitoring



Battery Parameter Detection

Battery voltage detection and analysis Battery current detection and analysis Battery temperature detection and analysis



Equilibrium Management:

Equalization based on voltage mode Equalization based on time mode Equalization based on battery cell SOC Active/passive equalization optional



Other Features:

ita. **the** Low cost, low power consumption Historical data record Flexible cascade expansion CRC data validation