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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.





HIGH PERFORMANCE

- 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] (Excluding model F2)





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.







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.



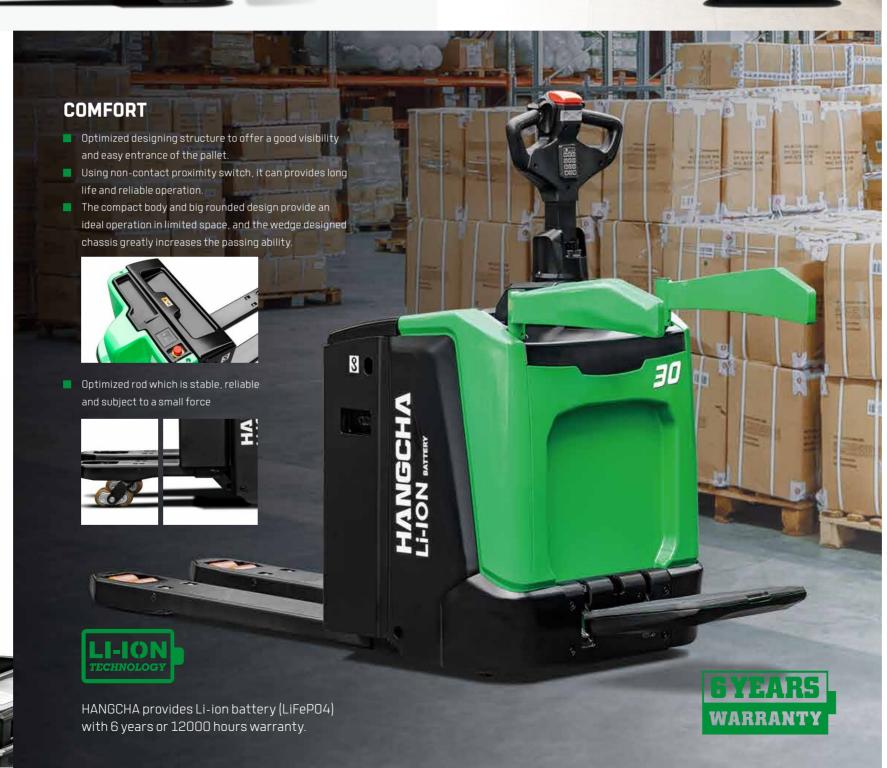
NEW TILLER

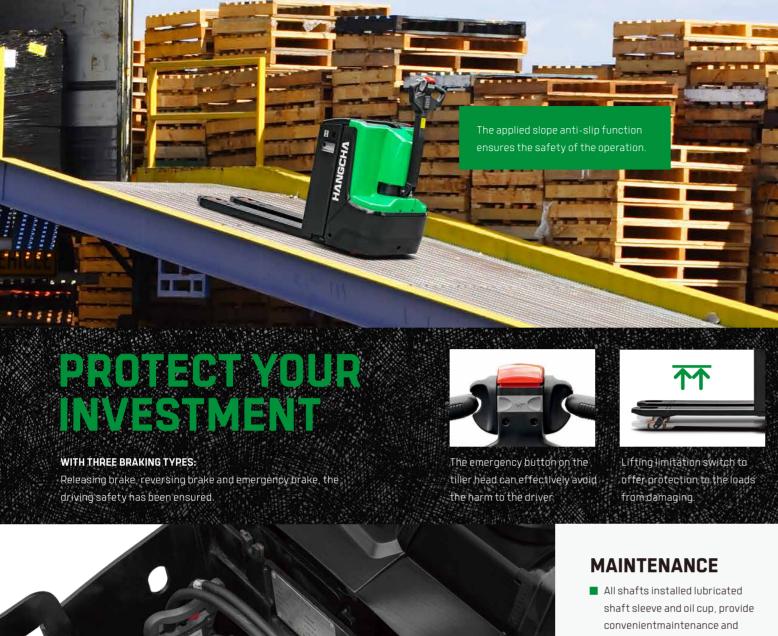
- The novelly developed tiller is compact and stylish.
- Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.



PIN code access







- 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.







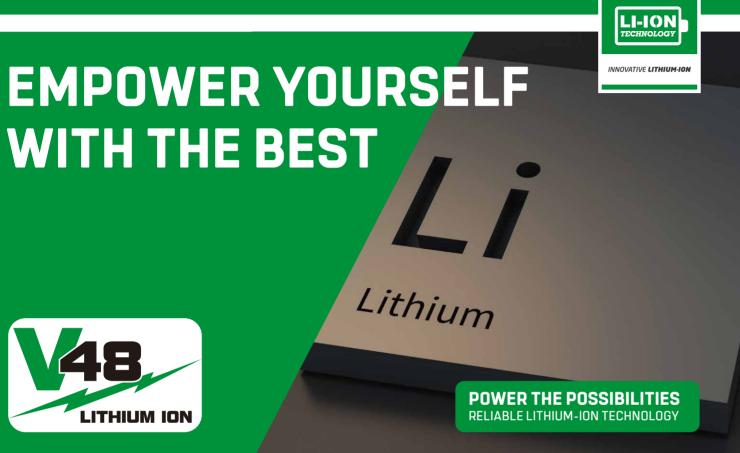
Truck	Standard	Options
48V permanent magnet synchronous drive motor	•	
Hydraulic power unit	•	
PU drive wheel	•	
1150mm fork length	•	
540mm outside fork width	•	
Balance wheels	•	
Double load wheels	•	
Different length of forks		0
Different width of outside fork		0
Single load wheel		0
48V/105Ah lithium battery (EVE)	•	
48V/125Ah lithium battery (CATL)		0
Controls and instruments		
Multi-function tiller	•	
USB power supply	•	
Key switch		0
Electric steering(stand-on type)	•	
Systech controller	•	
Interactive meter	•	
Electronic lifting limitation	•	
PIN code access	•	
Safety		
Emergency disconnect switch	•	
Turning deceleration(stand-on type)	•	
Horn	•	
Other		
48V3OA charger		0
48V50A charger		0
Lithium battery[48V/105Ah,EVE] with the on-board charger[48V,20A][Excluding model	IF2)	0





Maintenance-free permanent magnet synchronous motor.

LITHIUM POWERED



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.

The high energy density of the Li-lon battery ensures long



Cold area application

Li-lon batteries maintain high performance at temperatures



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.



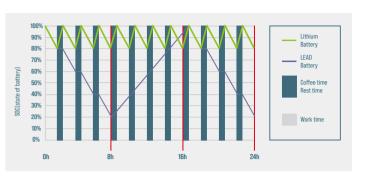
High energy density

working times and increases the high availability.



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.





O: What are the characteristics of lithium batteries, especially when used in high and low temperature environments?

Charging temperature 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:

- 1. Confirm that there is no battery system alarm message on the instrument panel.
- 2. 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



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) × 90% ÷ charger output current (A).
- 3. The power consumed for charging (kWh) = the available power of the lithium battery + 93% (the charging efficiency of the charger is calculated as 93%).
- 4. 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



FEATURES & BENEFITS

THE HANGCHA DIFFERENCE

O: 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



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



Other Features

Low cost, low power consumption Historical data record Flexible cascade expansion CRC data validation