



**HANGCHA GROUP CO., LTD.**

**Factory site:** 666 Xiangfu Road,  
Hangzhou, Zhejiang, China (311305)

**Tel:** +86-571-88926735 88926755

**Fax:** +86-571-88926789 88132890

[sales@hcforklift.com](mailto:sales@hcforklift.com)  
[www.hcforklift.com](http://www.hcforklift.com)



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HANGCHA trucks conform  
to the European Safety  
Requirements.

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# A Series Pallet Truck

with capacity of 4,000 to 6,000kg

LI-ION  
TECHNOLOGY

INNOVATIVE LITHIUM-ION



*The World of Hangcha*



**HANGCHA**



# A SERIES LITHIUM BATTERY PALLET TRUCK

The A series lithium battery 4-6t pallet truck can be used for handling large and heavy cargoes in mold factories, motor factories, PV and other industries. The compact size and strong bearing capacity allow it to handle heavy cargoes in narrow passages.

## Exterior

A large number of steel plate stamping and molding processes are used to enable a robust and durable product.

The series A pallet stacker adopts a professional industrial design of exterior. The vehicle has a smooth vivid profile and a fully ergonomic design, following the exterior design trend.

## REVOLUTIONARY PERFORMANCE



The hydraulic pump station, switches, connectors and other key parts are all products of internationally renowned brands.



## More innovation to revolutionize your work

AC walking motor featuring excellent acceleration performance, good climbing performance, low heat generation, no carbon brush and maintenance-free operation.

### CATL lithium battery

CATL lithium battery as standard configuration to greatly improve work efficiency due to its rapid charging and plug-and-play feature.

### CANBUS structure

The CANBUS structure makes the whole vehicle communication faster and more reliable.

### CURTIS AC control system

The CURTIS AC control system performs accurate, stable and more efficient control.

### Flexible turning

Several speed gears to make operation more convenient and flexible.



# TACKLE THE JOB IN TOTAL COMFORT

The operating panel is designed with a USB charging port and a slot for placing a mobile phone so that the operator can conveniently charge the phone at any time.



The optimized design of the body structure enables the forklift to have an excellent operating view and to access the pallet more easily.



The battery box cover is designed with an air spring to allow the cover to be opened more easily.



It is designed to be compact with large round corners to improve suitability for narrow-space operation and with a wedge-shape chassis to provide higher passing ability



The floating drive suspension system allows the vehicle to run more stably and the operator to operate more comfortably.

Designed with shock-absorbing function, the pedal can greatly improve the ride comfort and alleviate the operator's fatigue due to long-time driving.

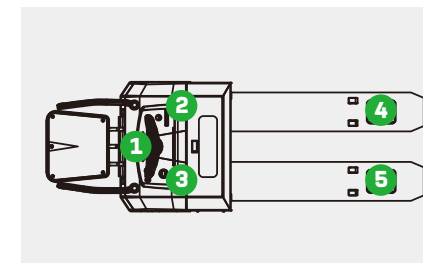


# SOLID-MOUNTED STRENGTH

- The new drive boost design can effectively ensure the driving wheel load to prevent slippage.
- With a low noise and low vibration hydraulic power unit to enable stable and reliable lifting and descending.
- The battery is reliably fixed and the battery cover is supported by soft materials, so that the vibration and noise generated during the operation of the vehicle are reduced.
- The non-contact proximity switch has a long life and can work reliably.
- With an electronic lifting limit switch to avoid overflow from the hydraulic power unit, save more energy and protect the motor of the power unit.



The unique floating suspension system enable the driving wheel to contact the ground all the time. The booster cylinder equipped can adjust the road holding of the driving wheel along with the lifted loads to prevent slippage and ensure good stability of the forklift.



With the five-point low center of gravity design and a high-strength steel frame structure, the vehicle frame has a large residual load capacity and a long service life.



All wires and cables connected with a water-proof plug and connector, providing reliable protection and significantly improves the reliability of the electrical system.

*Different optional prongs and prong lengths are applicable to handling of various pallets.*

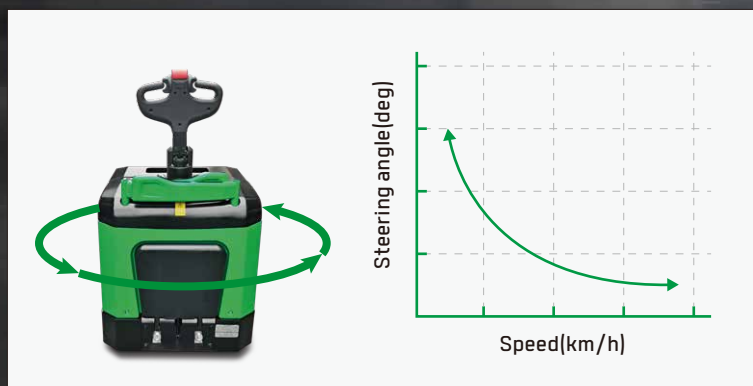


The stamped fork with higher strength and impact resistance, and guided fork prongs, further improve operation efficiency.



# SAFETY FROM EVERY ANGLE

With the dual protection by the electronic lifting limit and a smart controller that are provided for the standard configuration, the impact caused by lifting to the top can be avoided, the operating motor can be effectively protected and the safety of the goods can be ensured.



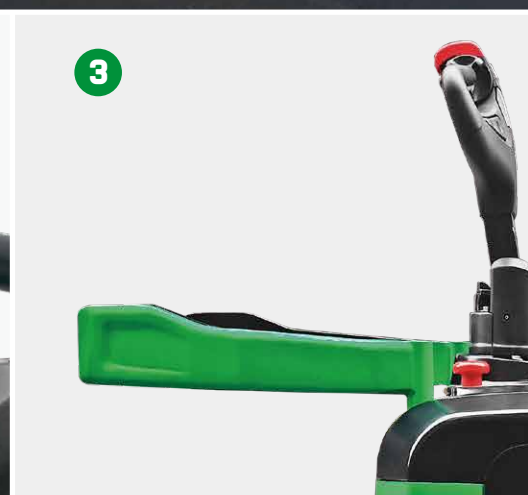
A standard feature of automatic speed decrease along with the steering angle increase is provided.

## Protect more

- 1 Anti-roll back function to ensure safe operation.
- 2 In the event of an emergency during driving, the red brake button on the head of the joystick can be pressed to effectively brake and prevent the driver from being injured.
- 3 The side guard is integrally molded, which can better protect the operator.

## THREE FUNCTIONS

1. Release braking
2. Reversing braking
3. Emergency braking



HANGCHA provides Li-ion battery (LiFePO<sub>4</sub>) with 6 years or 12000 hours warranty.

6 YEARS  
WARRANTY





# EASY TO MAINTENANCE

- The AC motor has no carbon brush and is maintenance-free, which greatly saves the cost of use.
- With a rear hood that can be completely opened to expose all components and facilitate the maintenance of the vehicle.
- With all spindles equipped with lubricated sleeves and oil cups to facilitate maintenance and a long service life.



The integrated power display, timing and fault self-diagnosis meter is convenient for maintenance.

## Features

Truck	Standard	Options
AC drive motor	●	
CURTIS AC controller	●	
CATL lithium battery	●	
Stand-on operation of the pedal and the side guard	●	
Double load wheels	●	
Fork length: 1300mm	●	
Fork interval: 710mm	●	
Electronic lifting limit	●	
USB charging port	●	
Electric steering	●	
A full range of prong lengths		○
A full range of prong intervals		○
Controls and instruments		
Emergency shut-off switch	●	
Color multi-function round meter	●	
CAN bus multi-function joystick	●	
Horn	●	
Smart module		○
Safety		
Beep		○
Lights		
Blue light		○
Alarm light		○

# LITHIUM POWERED



# EMPOWER YOURSELF WITH THE BEST



Li  
Lithium

POWER THE POSSIBILITIES  
RELIABLE LITHIUM-ION TECHNOLOGY

# LITHIUM BATTERY ADVANTAGES

**Long service life**  
4000 full charging cycles with at least 80% residual capacity.

**Cold area application**  
Li-Ion batteries maintain high performance at temperatures below freezing.

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

**High safety and reliability**  
Intelligent battery management monitoring every important function, no emission of battery gasses.

**Maintenance free**  
No topping up of water or checking acid levels.

**Opportunity charging**  
Full performance during several shifts thanks to effective interim charging.

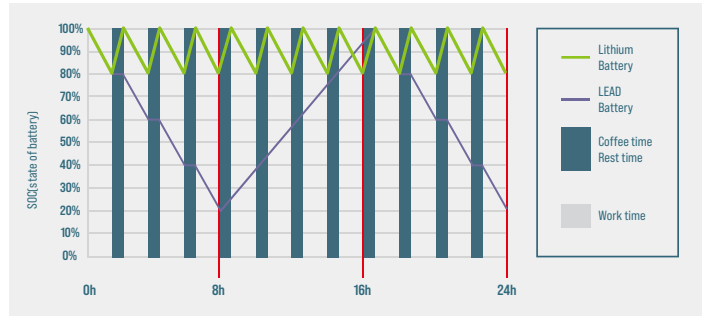
**High energy density**  
The high energy density of the Li-Ion battery ensures long working times and increases the high availability.

# FEATURES & BENEFITS

## THE HANGCHA DIFFERENCE

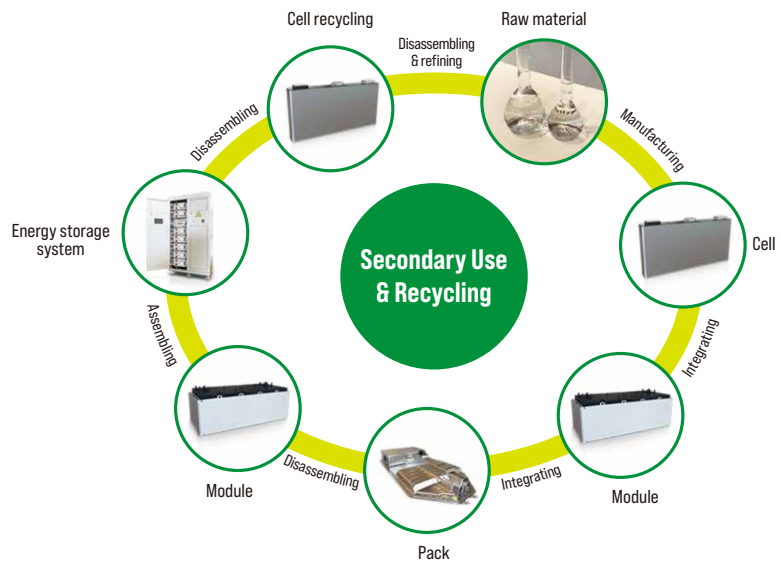
### Efficiency

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.



#### QUESTION 1

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

Charging temperature: 0°C - 65°C  
Discharge temperature: -30°C - 65°C  
Storage environment temperature: -30°C - 60°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.

#### QUESTION 2

**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.**

#### QUESTION 3

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

HANGCHA BMS (battery management system) can monitors the cells at all time. 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:

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