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ISO45001
ISO45001:2018



ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

X SERIES

RIDER PALLET TRUCK

with capacity of 2,000 to 3,000kg

X SERIES RIDER PALLET TRUCK

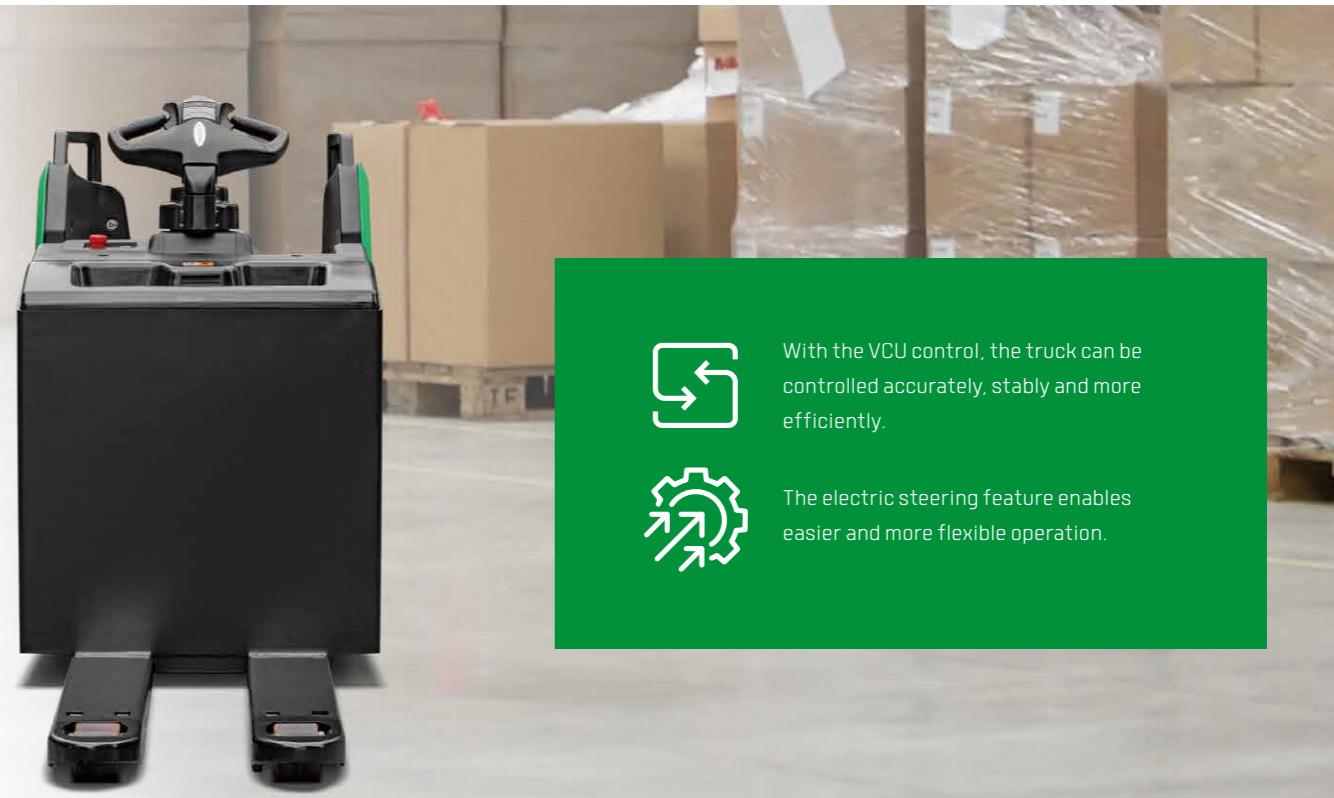
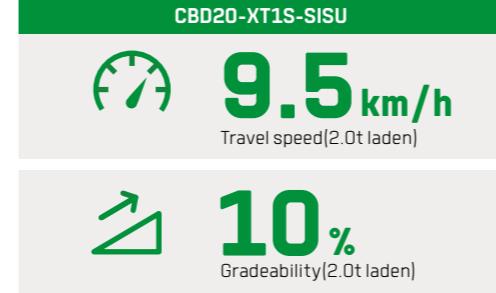
X series rider pallet truck are a new generation of products newly developed by Hangcha for warehousing and logistics applications. Using the advanced permanent magnet brushless drive technology and equipped with a new 48V system, the products have advanced performance, comfortable, safe and reliable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

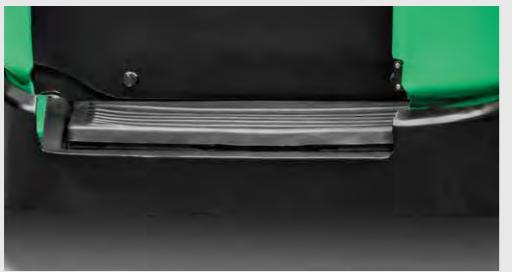


REVOLUTIONARY PERFORMANCE

48V
VOLTAGE
WITH
PERMANENT MAGNET
SYNCHRONOUS DRIVE MOTOR

- Regenerative brake and slope anti-slide function are offered by this truck.
- 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.





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



The novelly developed tiller is compact and stylish.



Optimized designing structure to offer a good visibility and easy entrance of the pallet.



LI-ION
TECHNOLOGY

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

COMFORTABLE EXPERIENCE

- Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.
- The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.
- Customer can choose different width of outside fork and length of forks to fit variable pallet.
- The new torsion bar - equipped additional wheel system enables the truck to drive stably.



6 YEARS WARRANTY

MORE PROTECT

RELIABILITY

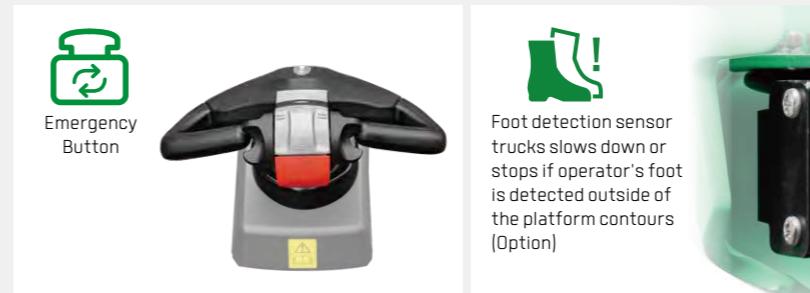
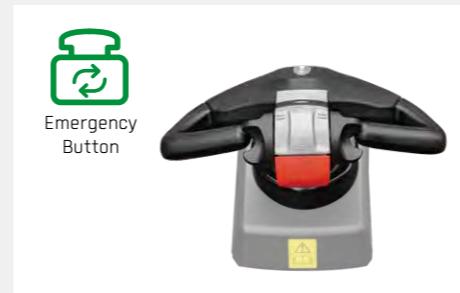
- Optimized mast which is stable, reliable and subject to a small force.
- The stamped fork with higher strength and impact resistance, and guided fork prongs, further improve operation efficiency.
- Using non-contact proximity switch, it can provides long life and reliable operation.
- Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- The hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.

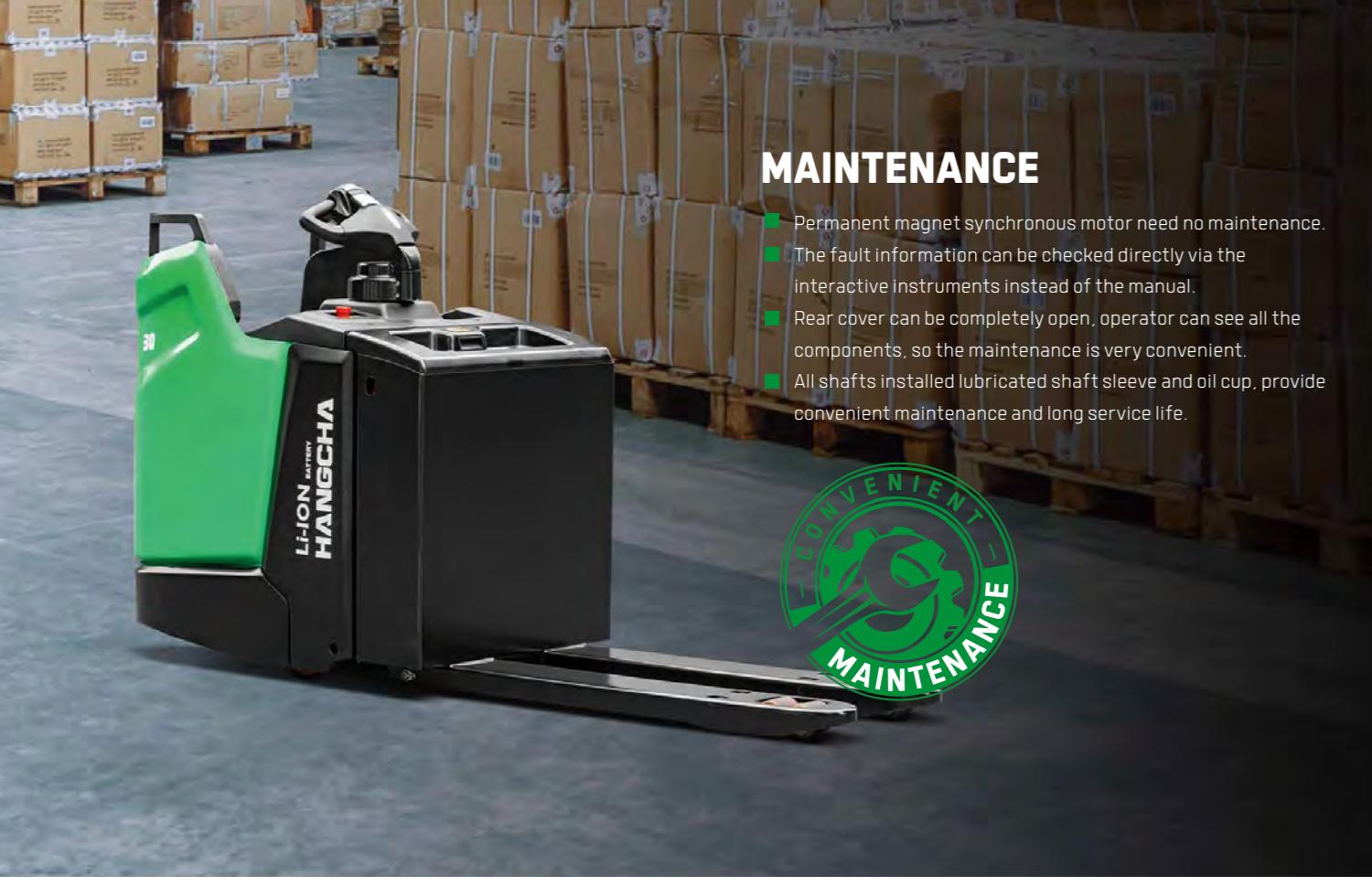
[Option]Lithium battery with the on-board charger(48V,20A)



SAFETY

- With three braking types: releasing brake, reversing brake and emergency brake, the driving safety has been ensured.
- The applied slope anti-slip function ensures the safety of the operation.
- Turning speed is automatically reduced when steering.
- The emergency button on the tiller head can effectively avoid the harm to the driver.
- Lifting limitation switch to offer protection to the loads from damaging.





Features

	Standard	Options
Truck		
48V permanent magnet synchronous drive motor	●	
Hydraulic power unit	●	
PU wheel	●	
1150mm fork length	●	
540mm outside fork width	●	
The ground clearance height of fork is 85mm	●	
Electronic lifting limitation	●	
Multi-function tiller	●	
Additional wheels	●	
Dual load wheels	●	
USB plug	●	
Different length of forks		○
Different width of outside fork		○
Single load wheel		○
Key switch		○
48V/105Ah lithium battery (EVE)	●	
48V/125Ah lithium battery (CATL)		○
Lithium battery(48V/105Ah,EVE) with the on-board charger(48V,20A)		○
Controls and instruments		
Electric steering	●	
Systech controller	●	
Interactive meter	●	
Non contact interlock switch	●	
Safety		
Emergency disconnect switch	●	
Horn	●	
PIN code access	●	
Turning deceleration	●	

MAINTENANCE

- Permanent magnet synchronous motor need no maintenance.
- The fault information can be checked directly via the interactive instruments instead of the manual.
- Rear cover can be completely open, operator can see all the components, so the maintenance is very convenient.
- All shafts installed lubricated shaft sleeve and oil cup, provide convenient maintenance and long service life.

LITHIUM POWERED

LI-ION TECHNOLOGY
INNOVATIVE LITHIUM-ION

EMPOWER YOURSELF WITH THE BEST

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.



High energy density

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



Cold area application

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



High safety and reliability

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



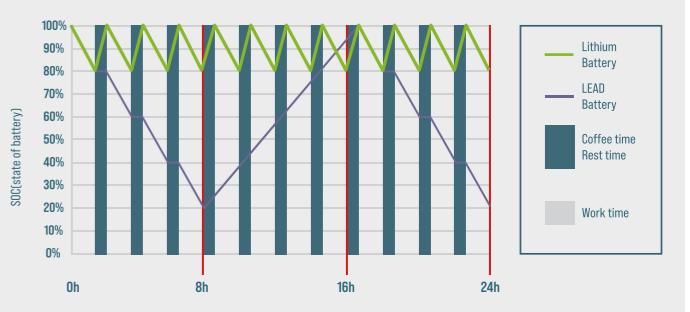
Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

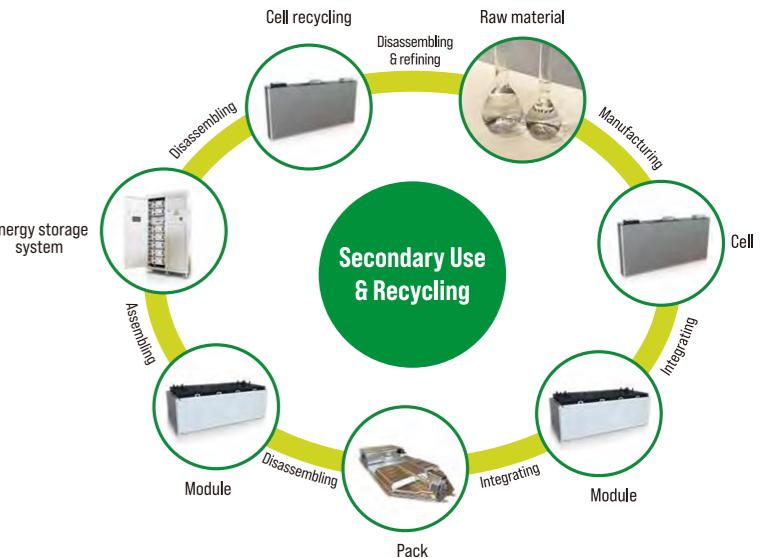
Efficiency

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.



QUESTION 1

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:

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