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IS045001:2018



IS014001:2015





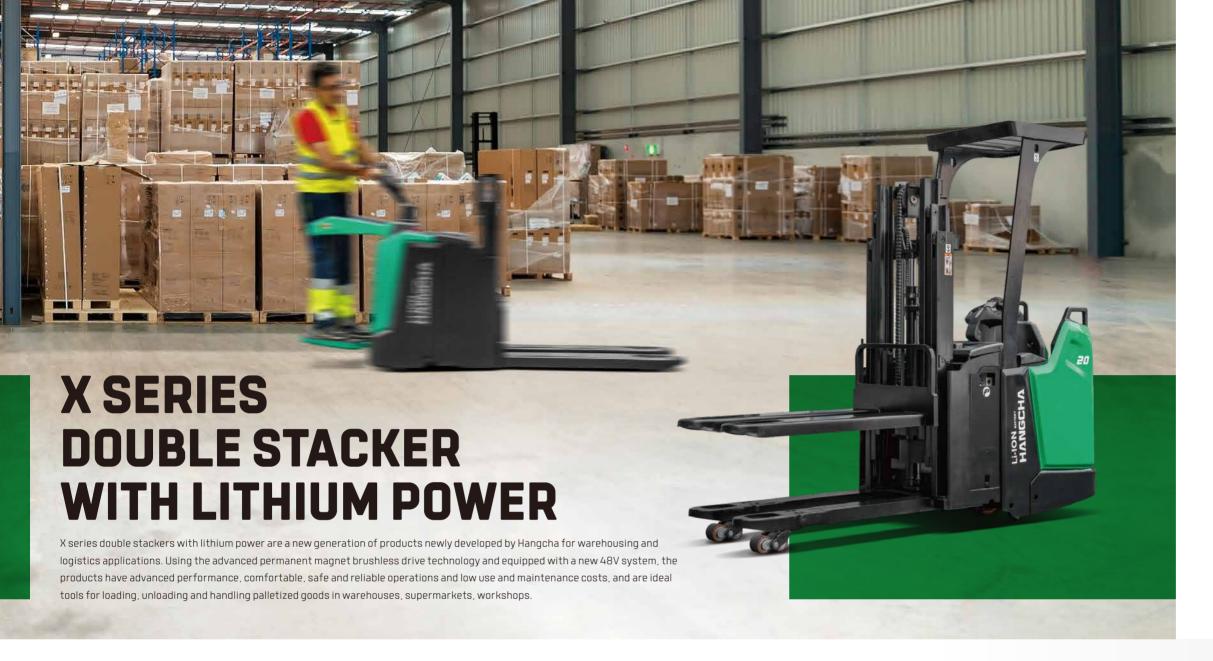


Forklift" App

IS09001:2015



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RUGGED ON THE OUTSIDE



- The X series double stacker with lithium power adopts a professional industrial design of exterior and a series family design. The truck has a smooth vivid profile and a fully ergonomic design, following the latest exterior
- Made of high-strength steel plates that are molded by stamping, the truck exterior is robust, durable and high-grade, and meets environmental protection requirements.







REVOLUTIONARY **PERFORMANCE**

- The permanent magnet synchronous drive system has excellent performance and low energy consumption. The 48V power supply system has less heat generated.
- With high power drive motor, provides fast travel speed and good gradeability.
- PERMANENT MAGNET SYNCHRONOUS DRIVE MOTOR

- The electric steering feature enables easier and more flexible operation (Stand-on & rider model)
- With the VCU control, the truck can be controlled accurately, stably and more efficiently.
- Regenerative brake and slope anti-slide function are offered by
- Double-stacker capability for excellent passability; handles two pallets simultaneously, doubling throughput.



28.0% Gradeability (laden)

CDD20-XT1S-SISUD

28.0 % Gradeability (laden)

MAINTENANCE

- Permanent magnet synchronous motor need no maintenance
- 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.
- The fault information can be checked directly via the interactive instruments instead of the manual.



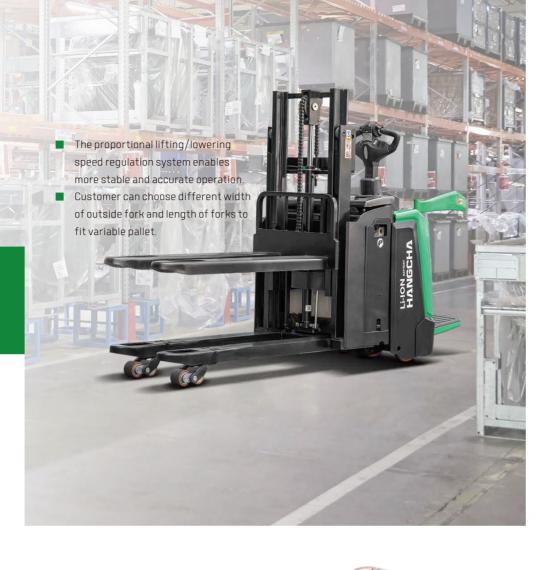


COMFORTABLE EXPERIENCE

- Optimized designing structure can offer a good visibility and easy entrance of the pallet.
- The compact body and big rounded design provide an ideal operation in limited space, and the wedge designed chassis greatly increases the passing ability.
 - Newly developed tiller is compact and stylish.
 - Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.







RELIABILITY

- With the 5-piovt and low center of gravity design and a high-strength steel frame structure, the frame has a large residual load capacity.
- The newly designed traction system of the pedestrian double stacker keeps the drive motor from rotating with the tiller during steering, preventing all cables connected to the motor from breaking easily.
- Using non-contact proximity switch, it can provides long life and reliable operation.





The lifting cylinders have been optimized for design, ensuring stability and reliability, with reduced stress and increased durability.

SAFETY

- Turning speed is automatically reduced when steering (Stand-on & rider model).
- 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.
- It has an intelligent soft landing that automatically slows down the lowering speed when the fork is less than 100mm above the ground, effectively protecting cargo safety.
- The emergency button on the tiller head can effectively avoid the harm to the driver.





Travel speed will be automatically reduced after fork lifting 500mm.



function can ensure the safety of the truck when the fork is lifted to the top.

Standard electronic lift limit and intelligent controller-based protection provide dual safeguards, eliminating impact at full lift to protect both the motor and the cargo.













- Water-proof plugs and connectors applied to provide a reliable protection to electric system.
- The power plug is fixed on the truck body to avoid damage from battery installment.
- The hydraulic power unit applied to provide low noise, low vibration, smooth lifting and landing reliable operation.
- The battery is reliably fixed and the battery cover is support by soft materials, so that the vibration and noise generated during the operation of the vehicle are reduced.

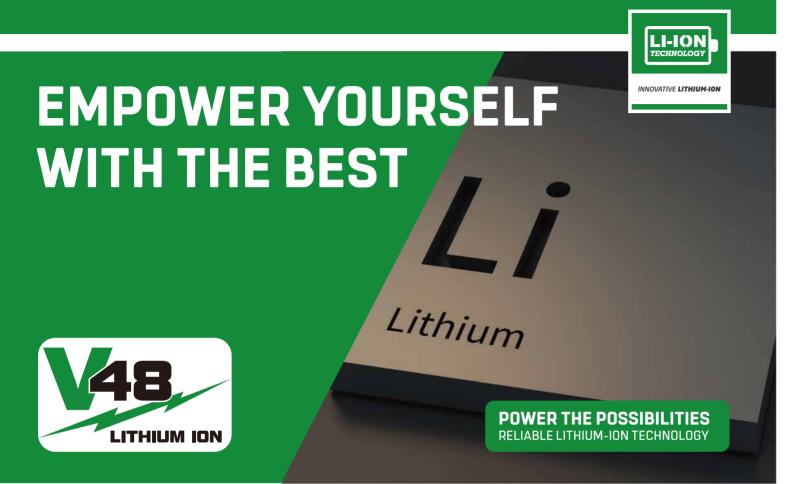






The stamped fork with higher strength and impact resistance, and guided fork prongs, further improve operation efficiency.

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.

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-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.



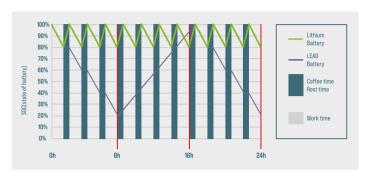
3. The power consumed for charging (kWh) = the available power of the lithium

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

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.

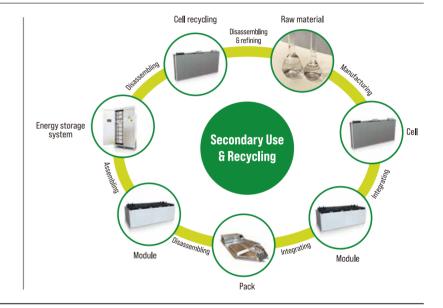


Safety

/ 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 -30°C -65°C Storage environment temperature:

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. 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).

battery + 93% (the charging efficiency of the charger is calculated as 93%).



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

HANGCHA BMS (hattery 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 CPC data validation

Features

Truck	Standard	Options
48V permanent magnet synchronous drive motor	•	
Hydraulic power unit	•	
PU wheel	•	
1190mm fork length	•	
570mm outside fork width	•	
The ground clearance height of fork is 90mm	•	
Lifting damping system	•	
Multi-function tiller	•	
48V/80Ah lithium battery(EVE)	•	
Additional wheels	•	
Dual load wheels	•	
USB plug	•	
Fork lift & lower adopts stepless speed regulating	•	
Electronic lift limit	•	
Soft landing	•	
Different length of forks		0
680mm width of outside fork		0
Key switch		0
48V/105Ah lithium battery(EVE)		0
48V/125Ah lithium battery (CATL)		0
Load backrest		0
Different lift height (see mast table)		0
Overhead guard (Rider model)		0
Controls and instruments		
Electric steering (Stand-on model)	•	
Systech controller	•	
Interactive meter	•	
Non contact interlock switch	•	
Safety		
Emergency disconnect switch	•	
Horn	•	
PIN code access	•	
Turning deceleration (Stand-on & rider model)	•	
Mast protection: mesh		0

