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 www.hcforklift.com

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.



Follow us on

Facebook

IS045001:2018



YouTube

IS014001:2015





WeChat

IS09001:2015



to the European Safety Requirements

Download "Hangcha

Forklift" App



2025 VERSION 3/COPYRIGHT 2025/09

X SERIES

ELECTRIC 4-WAY REACH TRUCK

The 2-3-ton multi-lateral electric forklift can be driven in the modes of straight movement, sideways movement and 360° rotation in situ, etc. It is suitable for places with the need of handling and stacking large and long materials, such as pipes, sheets and wires, and can meet



DESIGNED AROUND YOU

HIGH EFFICIENCY

- The narrow aisles required for handling long stacking materials maximize the space availability of your warehouses.
- A high-power oil pump motor is used. The large-displacement silent gear pumps improve the lifting and descending speed of the fork, as well as its operating efficiency.
- The four-pivot articulated drive and steering axles allow higher passing ability, thus suitable for indoor and outdoor operation.
- The brake kinetic energy regeneration system enables the battery to support longer operating hours after being charged



The mast can be moved forward and backward, and equipped with distance adjusting forks, stacking efficiency is improved.

SPACE SAVING

Allowing straight movement, sideways movement, 360° rotation in situ and a small turning radius, the stacker can operate in narrow aisles.





By traveling sideways, even the truck with lengthy load can. move through narrow aisle close to the vehicle length





Sideways travel mode



COMFORT

- The ergonomically arranged joystick, instruments and switches make operations more comfortable and flexible.
- The suspended cab allows more secure and comfortable operation.
- Electric steering makes steering more gentle and comfortable, and steering mode switching is easier and faster.
- A new integrated instrument cluster has complete functions and clear readings.





Electro-hydraulic proportional fingertip control system allows more accurate and smooth operation of the fork

from top to bottom and from front to rear according to the operator's using habits.

With several speed gears, the vehicle is adapted to different operating conditions.







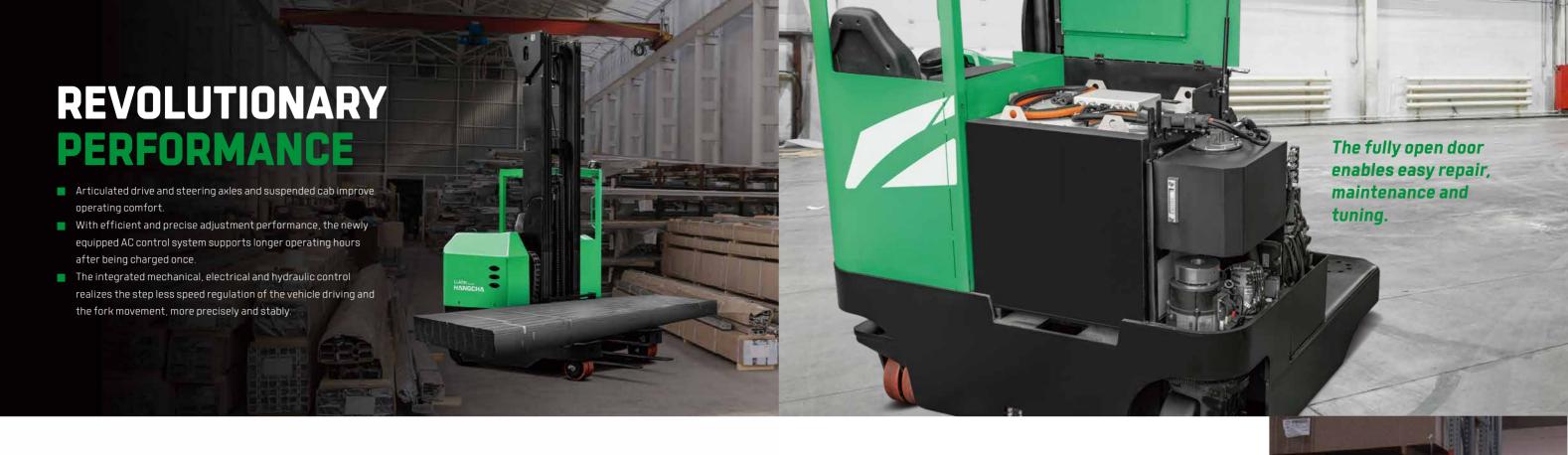
Wide body structure design allows the stacker to have good stability.

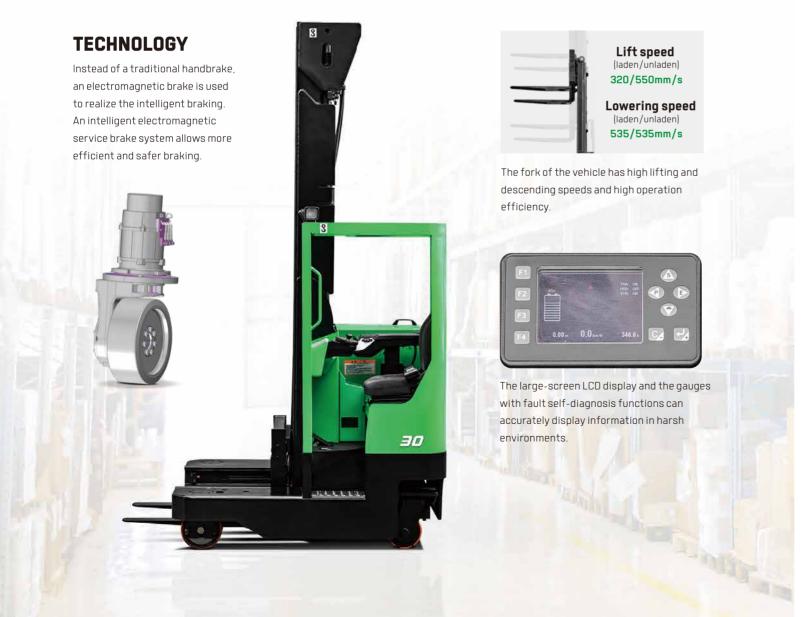
Overall width

STABILITY

1,850mm







MADE FOR EASY MAINTENANCE

The brushless AC motor is maintenance-free and significantly reduces the operating cost.



The battery removed from a side of the vehicle enables easy repair and maintenance of the battery.



The electronically controlled electrical components are placed together and highly integrated.

RELIABILITY AND SAFETY

- The four-pivot low center of gravity design and the design high strength of the main force-bearing components of the frame are appropriate to heavy load operating conditions.
- The efficient AC power system has complete protection functions and greatly improved reliability and service life.



The main electrical components such as the motor controller, contactor, power plug and emergency cut-off switch are all products of well-known foreign brands.



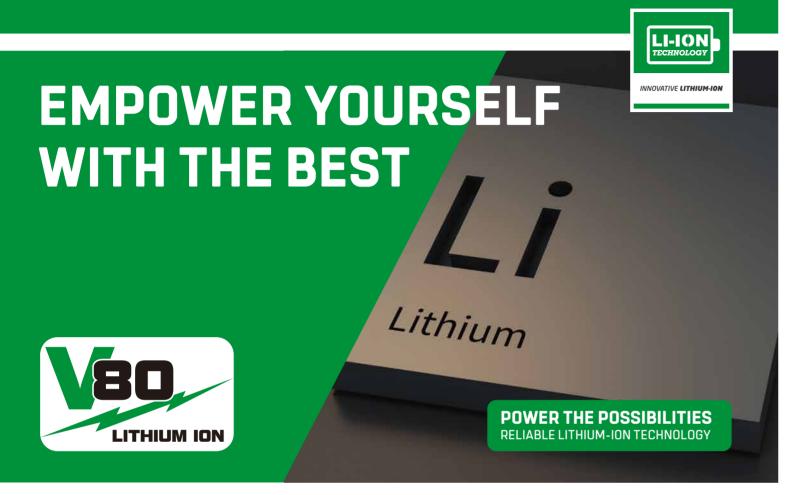
The safety pedals eliminate the safety hazard arising from the operator's incorrect operations.



The front and rear wheel braking systems that allow large braking torque are suitable for indoor and outdoor slippery roads to let the operator drive more safely.



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-lon battery ensures long working times and increases the high availability.



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.



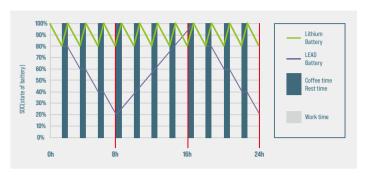
3. The power consumed for charging (kWh) = the available power of the lithium

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

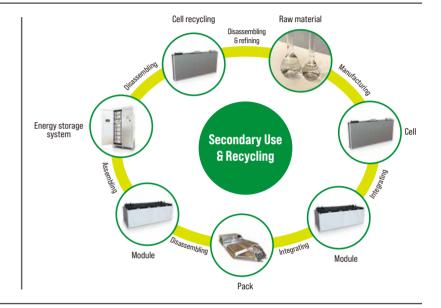
By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.



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

After the truck key switch is closed, the instrument battery condition needs

- 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



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

- 1. Available power of lithium battery (kWh) = rated voltage x rated power x 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
- battery \div 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 (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 CRC data validation