



# X SERIES

HI-RANGE ELECTRIC STACKER  
WITH LITHIUM POWER

With capacity of 1,200 to 2,000kg



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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform to the European Safety Requirements.



Fimatec Equipamentos  
Rua Ismael da Rocha, 162 - Ramos, Rio de Janeiro - RJ  
CEP 21031-050 - [www.fimatecequipamentos.com.br](http://www.fimatecequipamentos.com.br)

# LET THE LITHIUM POWER TAKE OVER



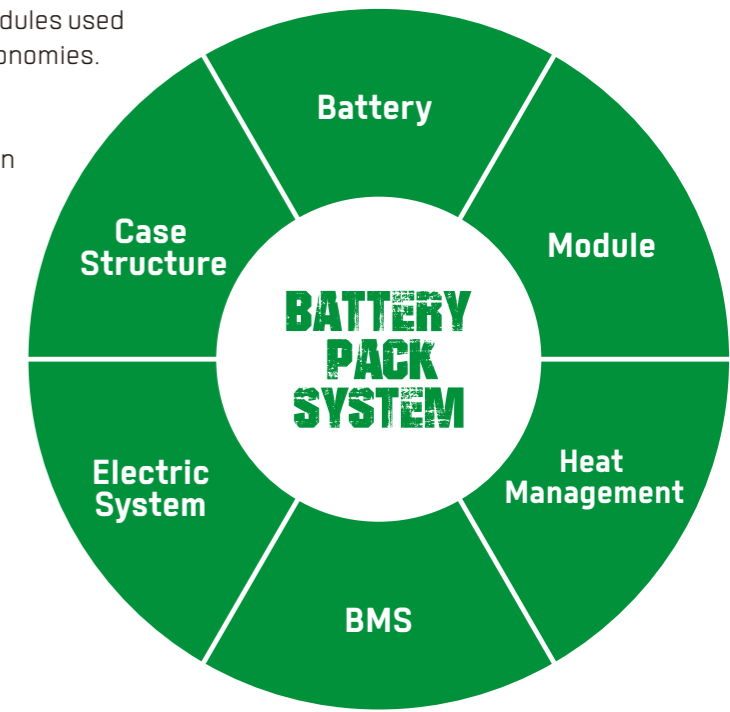
HANGCHA provides Li-ion battery (LiFePO4) with 6 years or 12000 hours warranty.

**6 YEARS  
WARRANTY**

# INNOVATIVE SOLUTIONS NEW POWER NOW

Innovative, reliable lithium-ion technology (Lithium Iron-Phosphate), which are developed jointly by HANGCHA and EVE. Battery cells and modules are from EVE, with reliable quality, exclusively for HANGCHA.

- / We use square lithium iron phosphate batteries and modules used in large quantities by commercial vehicles in mature economies.
- / Safe and effective: Charging efficiency as high as 95%.
- / Quick charging.
- / Long-working: 2000 charging cycles, capacity retention greater than 80%.
- / Maintenance-free: Battery does not require manual maintenance.
- / Green and clean: Pollution-free, zero emissions.



**Rapid charging and opportunity charging ensure continuous availability of vehicles**

Allow for fast full charging or boost charging. They are maintenance free and do not require a battery change when used for multi-shift operations.

# POWERFUL DESIGN TO INCREASE PRODUCTIVITY

RELIABLE OPERATIONS ■

MAINTENANCE COSTS ■

RELIABILITY ■

■ NEW 48V SYSTEM

■ PERFORMANCE

■ COMFORTABLE

■ SAFE



## X SERIES HI-RANGE ELECTRIC STACKER

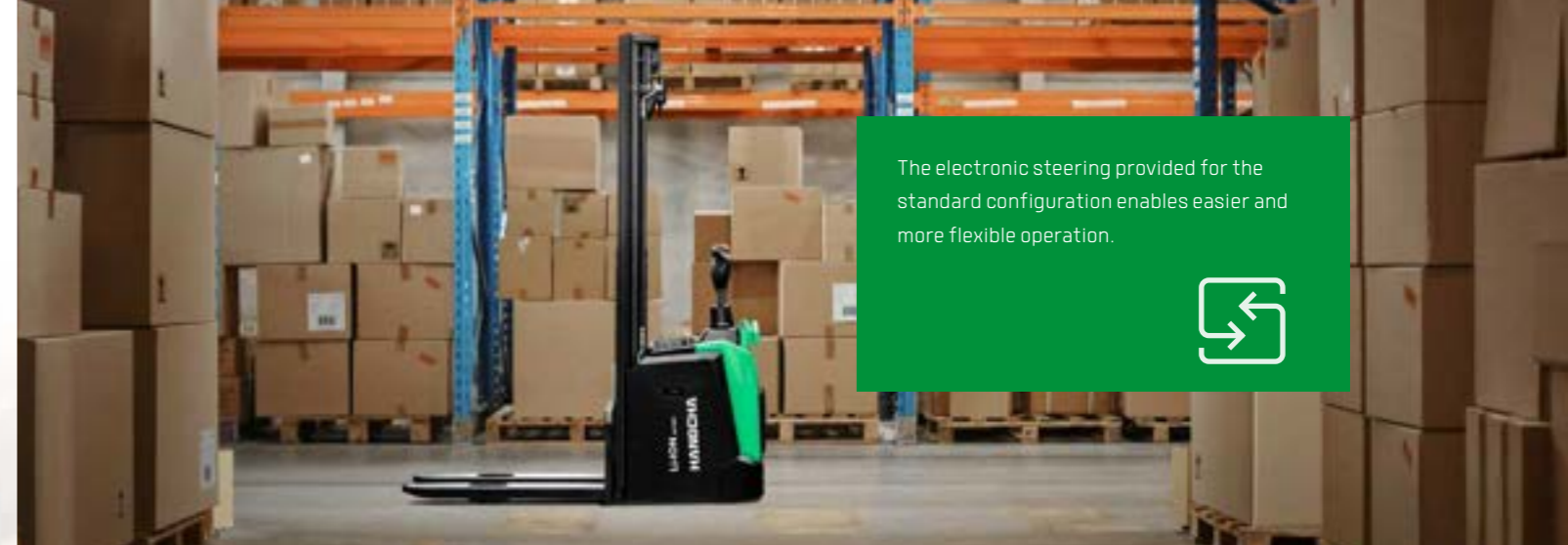
Your reliable, powerful and connected working machine.

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X series Hi-Range Electric stackers 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.

# RUGGED ON THE OUTSIDE.

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.



The electronic steering provided for the standard configuration enables easier and more flexible operation.



## 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.

**48V**  
V O L T A G E  
WITH  
PERMANENT MAGNET  
SYNCHRONOUS DRIVE MOTOR



Pedestrian type	
	<b>6.0 Km/h</b> Travel speed (laden)
	<b>8.0 %</b> Gradeability (laden)(1.6t)

Stand-on type	
	<b>9.0 Km/h</b> Travel speed (laden)
	<b>10 %</b> Gradeability (laden)(1.6t)

## APPEARANCE

The X series Hi-Range Electric stackers 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.



## SIMPLE OPERATION

The proportional descending speed regulation system provided for the standard configuration enables more stable and accurate operation.

System Stepless lifting and descending speed regulation is provided for the standard configuration, to and spillage more precise fork control and more stable goods lifting and descending.



# ENJOY YOUR WORK.

- Optimized designing structure to 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.



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



Customer can choose different width of outside fork and length of forks to fit variable pallet.

## NEW TILLER

With the newly developed compact and stylish tiller, all operations can be completed with one hand.



PIN code access

Displayed turtle speed function applied to move slowly and helps to stack goods in narrow spaces.



## MAINTENANCE

- Maintenance-free permanent magnet synchronous motor.
- 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.



## MORE PROTECT

- With the four-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.
- Using non-contact proximity switch, it can provide long life and reliable operation.
- H-type mast profile section to provide more stable and rigid performance.
- 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.



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.



With a low noise and low vibration hydraulic power unit to enable stable and reliable lifting and descending.



The power plug is fixed on the truck body to avoid damage from battery installment.



Punch-formed forks to provide more strength and tip guide to provide higher efficient operation.



Water-proof plugs and connectors applied to provide a reliable protection to electric system.

**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.



The emergency button on the tiller head can effectively avoid the harm to the driver.



# ADVANCED SAFETY FEATURES

**1**



After fork lifting 500mm.



**2**



Decrease speed when turning




**3**




**Soft Landing**  
(Lift)



**4**



**Soft Landing**  
(Lowering)



**5**



1800mm

- 1** Travel speed will be automatically reduced after fork lifting 500mm.
- 2** Turning speed is automatically reduced when steering only for stand-on.
- 3** A lifting soft landing is provided for the standard configuration so as to ensure the safety of the vehicle when the fork is lifted to the top.
- 4** 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.
- 5** For the standard configuration, a function of stopping lifting when the lifting height reaches the limit of 1.8m and resuming the lifting after the guardrails are retracted is provided to facilitate personnel to escape when high-position goods fall.



## Features

Truck	Standard	Options
48V permanent magnet synchronous drive motor	●	
Hydraulic power unit	●	
PU drive wheel	●	
1150mm fork length	●	
570mm outside fork width	●	
Lifting height limit: 1.8m	●	
Soft landing	●	
48V/80Ah lithium battery(EVE)	●	
Balance wheels	●	
Double load wheels	●	
Fork lift & lower adopts stepless speed regulating	●	
Different length of forks		○
Different width of outside fork		○
Different mast lifting heights		○
48V/105Ah lithium battery (EVE)		○
48V/125Ah lithium battery (CATL)		○
Load backrest		○
Cab		
Interactive meter	●	
Multi-function tiller	●	
Horn	●	
PIN code access	●	
USB	●	
Key switch		○
Controls and instruments		
Electric steering(stand-on type)	●	
Systech controller	●	
Safety		
Emergency disconnect switch	●	
Turning deceleration(stand-on type)	●	
Mast protection		○
Other		
48V30A charger		○
48V50A charger		○

