

**POWERFUL  
EFFICIENT**



**FORX**

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**XC Series  
4-W Electric Forklift Truck  
With Lithium Iron-Phosphate**

with capacity of 4,000 to 5,000kg



**FORX**

# INNOVATIVE SOLUTIONS NEW POWER NOW

The XC series forklift truck powered by lithium battery, with their world-first architecture and advanced design concepts, have made significant breakthroughs in ergonomics, efficiency, and comfort. To maintain its leading position in the industry, HANGCHA has improved and upgraded the AC asynchronous motor, launching the model with a permanent magnet synchronous motor platform.

HANGCHA's lithium battery with Innovative, reliable lithium-ion technology provide better experience, higher efficiency and more energy-saving. Rapid charging and opportunity charging ensure continuous availability of trucks. Lightweight design, flexible, high level of energy efficiency, maintenance-free, long service life.



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



## EVE battery packs

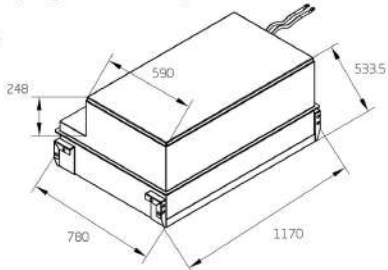
	Pack1	Pack2	Pack3
	4 - 5t	4 - 5t	4 - 5t
Battery capacity (kWh)	76.8V*608Ah, 46.69Kwh	76.8V*840Ah, 64.51Kwh	76.8V*912Ah, 70.04Kwh (Charger with dual charging ports)

## Large-capacity CATL battery packs (Optional)

Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.

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

	Pack1	Pack2
	4 - 5t	4 - 5t
Battery capacity (kWh)	80V*604Ah, 48.32Kwh	80V*906Ah, 72.48Kwh (Charger with dual charging ports)



## Excellent Ergonomic Design

- / The truck has a large operating space more than **50%** larger than the traditional electric truck.
- / The dashboard in the driver's cab is placed overhead and can be seen when the driver lifts her/his head, and the function buttons can be pressed easily.
- / For the optional integrated fingertip operating system, the combined operation armrest integrates the emergency shut-off, horn and quadruple thumb switches, etc., is electrically controlled through the CAN bus, and is highly reliable.
- / The enlarged brake pedal and appropriate regenerative braking function can effectively reduce the driver's fatigue.



## Advantages



The rear axle is provided with a flexible suspension system (for standard configuration and with turning and deceleration functions) to effectively filter the road clutter and improve the driver's comfort.

The noise can be as low as 73dBA.

The high-frequency MOSFET integrated controller ensures smooth and accurate driving and lifting control, and has excellent speed regulation performance, good performance of electronic control matching the motor, functions of regenerative braking, reverse braking and anti-sliding on ramps, etc., and high safety and reliability.

The ultra-high power AC traction motor has a bridge structure.

An ultra-high power AC pump motor is used. The system has high efficiency, complete protection functions, built-in speed and temperature sensors, and greatly improved reliability and life.

# RELIABLE TRUCKS



## Easy operations and maintenance

With the fully sealed hood and side plates, all major components including the electrically controlled components, motor, electrical components, etc. are sealed from dust and water.

The drive motor of a high protection level is dustproof and waterproof and highly reliable.

The packs can be easily removed by a manual or electric cart, and can be repaired and maintained conveniently.

The hood (with a self-locking gas spring) can be opened at a large angle facilitating the maintenance and replacement of the battery.



The water resistance level of the vehicle is IPX4.

## Energy saving and high efficiency

With the support of the 80V dual permanent magnet synchronous motor system, the truck has undergone national standard tests and achieved a 27% reduction in energy consumption;

The travelling speed, lifting speed, and climbing ability are all about 6% higher than the AC motor model, making it more efficient.





## Safety

The optional descending lock function can disable the descending function when the driver leaves the seat and enable high safety.

The standard configuration provides a fork descending buffering function. In addition, an optional electronic control function for buffering the fork's ascending is provided to protect the goods from falling and damaging the ground.

The handbrake can be optionally equipped with an alarm buzzer to prompt the driver to pull up the handbrake before leaving the truck.



Three horn buttons are provided, which are respectively on the driver's steering wheel, thumb switch equipped armrest (optional) and reverse armrest (optional), for alerting and protecting the surrounding people.



## Main Accessories

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

The emergency cut-off switch equipped for the standard configuration complies with EU regulations.

The truck has passed the CE certification.

Electronic and hydraulic overload protection devices.



A PIN code should be provided before entering the system. 99 sets of PIN codes are available for the administrator. The truck is highly secured and irrelevant personnel cannot start the truck.



Quick charge < 2.0h  
(Optional charger)



## Comfort

Owing to the low center of gravity and good stability, the driver feels comfortable during turning.

The ergonomically designed tilt-adjustable small-diameter steering wheel makes the driver feel good. The seat can be adjusted back and forth by 210mm. The operator can choose the best driving position.

The intelligent sensing enables buffered descending. When the fork is 100 - 60mm away from the ground, the descending will automatically slow down, so that the goods and pallet will not hit the ground and the goods and ground can be protected effectively.

With friendly human-computer interfaces, the new large-screen LED instruments have good visibility and clear readings.

Silence, no pollution, energy saving and other advantages meet the environmental protection requirements.



The wide-view mast with optimized design is unlikely to obstruct the operator's line of sight. The enlarged opening size of the fork carriage enables a wider view.



Grammer fingertip (Optional)

## Options

- / Lithium packs (roller type) that can be replaced quickly
- / Start with a PIN code or by swiping a card
- / Ultra-elastic solid nose tire
- / Environmentally-friendly colored solid tire
- / Left and right rearview mirrors
- / Reversing video
- / Front/rear blue lights
- / Rear operation lights
- / Dedicated lithium battery charger (Titan or Schneider)
- / Cold storage vehicle
- / Reverse armrest (containing a horn button)
- / Hood with a key lock
- / OPS seat sensing function
- / Fork ascending buffering
- / Triple multiway valve
- / Quadruple multiway valve
- / Quintuple multiway valve
- / Widened / heightened load backrest
- / Widened fork carriage
- / Forks of other lengths
- / Free duplex mast
- / Free triplex mast
- / Built-in side shifter
- / Accessories of other specifications
- / Grammer MSG531 suspension seat
- / Tool box, folder
- / Integrated fingertip control system including ergonomic armrests

## Standard specification

- / High-power AC drive motor
- / High-power AC oil pump motor
- / Silent gear pump
- / Multi-function color screen instrument cluster
- / Large integral rubber pedal pad
- / Stamped iron hood, stamped iron side plates
- / Stamped stainless steel boarding step
- / The gas spring of the hood with a touch-proof mechanism
- / Handbrake with a touch-proof mechanism
- / Turning deceleration function
- / Smart cloud module
- / Fork descending buffering
- / SPE power selection
- / Mileage display, operating time display
- / Integrated fuse box
- / Charging muzzle meeting national standards
- / DC-DC converter
- / Electronic cooling fan
- / Doublet multiway valve
- / Emergency shut-off switch
- / Reversing buzzer
- / Traction pin
- / Load sensing steering system
- / Standard duplex mast, fork, fork carriage and load backrest
- / Lithium packs with low temperature electric heating systems
- / LED combination headlights, LED rear combination three-color taillights