



XH SERIES HIGH-VOLTAGE LITHIUM BATTERY FORKLIFT

with capacity of 12,000 to 18,000kg



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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform to the European Safety Requirements.

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The World of Hangcha



XH SERIES HIGH-VOLTAGE LITHIUM BATTERY FORKLIFT

XH series high-voltage lithium battery forklifts are new series of high-voltage lithium battery forklifts independently developed by Hangcha relying on the new energy automobile voltage platform for the first time based on the deep understanding of electric forklifts and internal combustion forklifts for decades by breaking through the traditional design concept. The series of models redefine electric forklifts in terms of efficiency, power and reliability, and replace the internal combustion with electric forklifts.

VOLTAGE

608 V

SPEED MODELS

3 S/P/E mode
[Super/Power/Eco]

VEHICLE WATER RESISTANCE

IPX4

TRAVEL SPEED

28km/h

CHARGING TIME (20-100%)

1.3Hour

PROTECTION RATE

IP67

Exterior

/ Following the appearance of X series internal combustion forklifts, the series boast smooth and powerful contour lines, and exquisite and compact vehicle body, presenting both fashion and steadiness as a whole.

THE *Plus*
FOR YOUR
BUSINESS



FASTER & MORE EFFICIENCY.

Fast charging makes it possible for the whole vehicle to work continuously, shortening the waiting time and greatly improving efficiency.

Through disruptive battery and fast charging technology, the charging time is greatly shortened.

4000

CYCLES OF CHARGING



75% LI-ION

Under normal charging and discharging conditions, the lithium battery of Hangcha products has a capacity retention rate of more than 75% and a life span of up to 10 years after 4000 cycles of charging and discharging.

HIGH-VOLTAGE

184kWh

Battery capacity



EXCELLENT ERGONOMIC DESIGN

Comfort

- / 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, a large operation space, and excellent ergonomic design.
- / The multifunctional color-screen instruments are designed to have graphical interfaces and display data clearly. The interfaces can be switched to be shown in Chinese and English to meet the needs of customers at home and abroad.
- / The new fully-suspended cab with panoramic view enables a clearer view. Performance of the air conditioner is improved to enable uniform conditioned air blowing from the air outlet and a strong cooling effect. The waterproof, dust-proof, heatproof, soundproof, noise-reducing sealing design improves driving comfort. The molded interior parts enable a more comfortable feel. The integral frame is constituted by profiled steel pipes. The structural parts have higher strength.
- / Integrated handle and pilot remote control allow flexible and accurate operation; hydraulic brake curve is optimized to achieve smooth and easy-to-control braking; suspension seat, following the floating multi-direction adjustable control platform, is comfortable to control.



Intelligent

- / A vehicle central controller is provided, which has bus architecture, several built-in diagnosis and management functions and a central fault alarm function.
- / An optional intelligent management system is provided to enable intelligent remote monitoring and easier equipment management and logistics management.





Advancement

- / Both the drive and operating systems are vehicle-grade permanent magnet synchronization systems. The driving speed, upslope degree and acceleration performance rival that of internal combustion vehicles, and the environmental performance is better than that of internal combustion vehicles.
- / The vehicle's 541V high-voltage platform, equipped with a heavy truck water-cooled standard box, features better heat dissipation, longer endurance mileage and more durable battery.
- / This is the first time that the electric control and motor adopt water-cooled control mode, which obtains better heat dissipation, allows long-term and high-intensity work exactly like an internal combustion forklift.
- / The vehicle adopts a whole machine controller to redeploy the traction integrated controller (PDU+DC/DC+MCU) and two-in-one oil pump controller to form an intelligent driving system, being light-weighted, efficient and independent.



Safety

- / The cover of the vehicle is designed to be sealed to the water resistance level of IPX4. All the motor, electronic controls and high-voltage components reach the dust and water resistance level of IP67, a high protection level adequate to withstand harsh operating environments and ensure safety and reliability.
- / The electrical system is equipped with high-voltage interlocks, insulation detection, and vehicle-grade safety means. The MSD (Manual Service Disconnect)maintenance switch enables one-click power-down and safer maintenance.
- / Some key structural parts have been verified highly reliable by the market for many years while being used by internal combustion forklifts.



Maintainability

- / The over-turnable cab and electric tipping cylinder make tipping easier and more labor-saving.
- / The wide-opened hood better facilitate repair and maintenance of electrical components.

Optional battery list

Capacity/voltage	541/228 V/Ah	541/456 V/Ah	608/302 V/Ah
12-16t	●		○
14-18t		○	●

Note: ● Standard battery capacity; ○ Optional battery capacity;



Standard Specification

- / Duplex mast
- / Standard lifting height
- / Standard fork
- / Hydraulic fork positioning
- / Independently-adjustable fork(12-16t)
- / Standard color
- / Vehicle toolkit
- / Pneumatic tyre
- / Fully hydraulic power steering
- / Tow pin
- / Rear-view mirror on right & left mudguards
- / Integrated joystick
- / Adjustable steering column
- / Adjustable armrest
- / Four-way hydraulic valve
- / Operation proportion control
- / Operator presense system (OPS) with buzzer
- / LCD display screen
- / Main power switch
- / Emergency power off switch
- / Built in sideshift (14-18t)
- / Maintenance-free 24V lead acid battery
- / Reverse buzzer
- / High decible horn
- / LED lights (entire vehicle)
- / 2 x Working light on front mudguard
- / 2 x Front working light on top of cabin
- / 2 x Rear working light on top of cabin
- / 2 x Working light on both sides of mast
- / Reverse sensor
- / Rearview camera system
- / Flashing warning light (non rotating) with control switch
- / On-board diagnostics system
- / Water cooling system for lithium battery
- / Automatic fire suppression system for lithium battery pack
- / Manual service disconnect (MSD) switch
- / High voltage interlock
- / Insulation protection
- / Power-on self-test
- / Energy recovery (braking regeneration)
- / Vehicle control unit (VCU)
- / Hour meter
- / Battery charge indicator
- / Low hydraulic pressure alarm indicator
- / Hydraulic oil filter warning indicator
- / Drive mode indicator
- / Parking brake indicator
- / Service indicator
- / Cabin
- / Climate control system (air-conditioning and heater)
- / Manual tilting cabin
- / Electric tilting cabin
- / Radio
- / Sunshade
- / USB charging interface
- / Clothes hanger hook
- / Reading light
- / Fan

Options

- / Optional lifting height
- / Other fork specifications
- / Fork hook on type
- / Built in sideshift(12-16t)
- / Integrated sideshift
- / User defined colour
- / Fire extinguisher (2kg/4kg)
- / Solid tyre
- / Centralized lubrication system (machine)
- / Electrostatic discharge chain
- / Independently-adjustable fork(14-18t)
- / Rearview camera system with memory
- / Front & rearview camera system
- / Front & rearview camera system with memory
- / 4 directions camera system with single display
- / 4 directions camera recording system with single display
- / In cabin CCTV
- / Rear blue safety light
- / Front and rear blue safety light
- / Three sided blue danger zone light
- / Overspeed alarm
- / Speed limitation
- / Voice reverse alarm
- / Automatic fire suppression system
- / Two-way radio
- / Weight indicator in display
- / Tyre pressure monitoring
- / Turning deceleration
- / 1 x 24V power supply
- / 1 x 12V power supply
- / License plate frame