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HANGCHA



XH SERIES HIGH-VOLTAGE LITHIUM BATTERY FORKLIFT

with capacity of 38,000 to 48,000kg



The World of Hangcha

HANGCHA

XH SERIES HIGH-VOLTAGE LITHIUM BATTERY FORKLIFT

Independently developed by Hangcha on the basis of decades of deep understanding of electric forklifts and internal combustion forklifts, XH series high-voltage counterweight lithium battery forklifts are a new series of high-voltage counterweight lithium battery forklifts that first use a new energy vehicle voltage platform and represent a breakthrough over the traditional design concept. Representing a redefinition of electric forklifts in terms of efficiency, power, reliability, etc., XH series forklift models have performance and operating condition completely superseding that of the internal combustion forklifts.

VOLTAGE
618V

100% CHARGE FOR
1 Hour

WATER RESISTANCE
IPX4

SPEED MODELS
3

PROTECTION RATE
IP67

Stylish appearance

/ With the inherited exterior design of X series internal combustion forklifts and a smooth and sturdy profile, the whole vehicle is stylish, sturdy and powerful, showing modern industrial aesthetics.

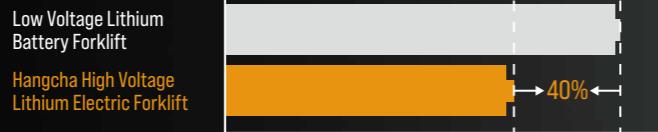
THE *Plus*
FOR YOUR
BUSINESS



FASTER & MORE EFFICIENCY.

Compared with low-voltage lithium battery forklifts, high-voltage lithium battery technology can save about 40% of the overall cost during the service cycle.

40%



Compared with fuel forklifts, high-voltage lithium battery technology can save about 90% of the overall cost during the service cycle.

90%



4000 »
CYCLES OF CHARGING



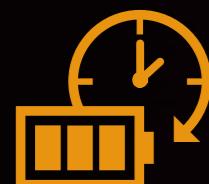
75% LI-ION

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.

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

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

Get the battery fully charge:



1h



10h

Hangcha High Voltage
Electric Forklift

Electric Forklift

HIGH-VOLTAGE
422.9Kwh

Battery capacity



ULTRA LONG BATTERY LIFE

- / A large-capacity lithium battery for the standard configuration can meet the long battery life need.
- / Both the drive and operating systems are efficient and energy-saving vehicle-grade permanent magnet synchronization systems.
- / High-voltage platform, less vehicle current and minimal system heat loss.
- / Braking energy recovery effectively prolongs operating time.



A double-motor walking system increases the range of high efficiency and saves energy significantly.



Advancement

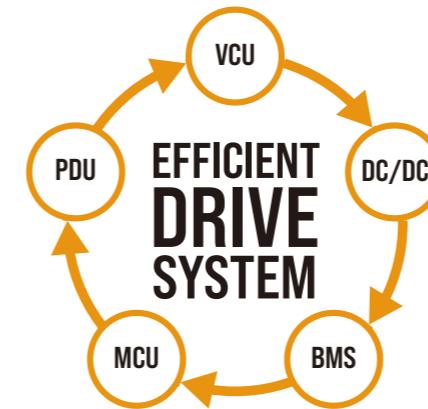
A high-torque permanent magnet synchronous motor provides strong power for the vehicle with performance indicators benchmarked against that of internal combustion forklifts.

618V

A high-voltage platform with low system loss, a standard chilled water tank for heavy-duty truck to achieve good heat dissipation.



With motor, electric control and battery adopting liquid-cooling heat dissipation, the forklift can absolutely carry out long-time and high-intensity operations as internal combustion forklifts.



The vehicle has independently developed VCU program along with PDU+MCU+BMS+DC/DC to form a reliable and efficient drive system with flexible function configuration.



Intelligence

- / 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.



Maintainability

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

SAFE AND RELIABLE

- / The cover of the vehicle is designed to be sealed to the water resistance level of IPX4.
- / The electrical system has high-voltage interlocking, insulation monitoring and potential balancing functions to offer vehicle-grade safety.



Key structural parts have been verified highly reliable by the market for many years while being used by internal combustion forklifts.



Both the battery and junction box have MSD maintenance switches to enable one-click power-down and safer maintenance.



All the motor and electronic controls reach the dust and water resistance level of IP67, a high protection level adequate to withstand harsh operating environments.



The high-voltage lithium battery is equipped with an automatic fire extinguisher for the standard configuration. The vehicle is equipped with a pipe network automatic fire extinguisher for the standard configuration.



A turning deceleration function effectively reduces risk of tipping over.

Features

	Standard	Options
Truck		
Duplex wide-view mast	<input checked="" type="checkbox"/>	
Fully hydraulic power steering	<input checked="" type="checkbox"/>	
Water chilling unit for lithium battery	<input checked="" type="checkbox"/>	
Traction device	<input checked="" type="checkbox"/>	
Oil-resistant tread tire	<input checked="" type="checkbox"/>	
Standard lithium battery box	<input checked="" type="checkbox"/>	
Standard fork	<input checked="" type="checkbox"/>	
Fork positioner-equipped side shift fork	<input checked="" type="checkbox"/>	
Pneumatic tire	<input checked="" type="checkbox"/>	
Forks of other specifications		<input type="radio"/>
Solid tire		<input type="radio"/>
Cab		
Cab	<input checked="" type="checkbox"/>	
Multi-direction adjustable armrest	<input checked="" type="checkbox"/>	
Steering wheel adjusting device	<input checked="" type="checkbox"/>	
Standard seat	<input checked="" type="checkbox"/>	
Cooling and heating air conditioner	<input checked="" type="checkbox"/>	
Chair sensing system	<input checked="" type="checkbox"/>	
Electrically-controlled joystick	<input checked="" type="checkbox"/>	
Vehicle intercom		<input type="radio"/>
Controls and instruments		
LCD bus instrument	<input checked="" type="checkbox"/>	
Multifunctional color-screen instruments	<input checked="" type="checkbox"/>	
Neutral gear switch	<input checked="" type="checkbox"/>	
VCU controller	<input checked="" type="checkbox"/>	
Emergency shut-off switch	<input checked="" type="checkbox"/>	
MSD maintenance switch	<input checked="" type="checkbox"/>	
Weighing system		<input type="radio"/>
Cloud intelligent management system		<input type="radio"/>
Safety		
Hydraulic oil filter alarm	<input checked="" type="checkbox"/>	
Snail horn	<input checked="" type="checkbox"/>	
Visual reversing radar	<input checked="" type="checkbox"/>	
Accumulator low pressure alarm	<input checked="" type="checkbox"/>	
Automatic fire extinguisher for lithium battery	<input checked="" type="checkbox"/>	
Rearview mirror	<input checked="" type="checkbox"/>	
Reversing buzzer		<input type="radio"/>
Reverse voice buzzer		<input type="radio"/>
Fire extinguisher (2kg/4kg)		<input type="radio"/>
Speed limit alarm		<input type="radio"/>
Turning deceleration		<input type="radio"/>
Maintenance		
Maintenance-free 24V lead-acid battery	<input checked="" type="checkbox"/>	
Cab electric tipping	<input checked="" type="checkbox"/>	
Maintenance reminding	<input checked="" type="checkbox"/>	
Tire pressure monitoring		<input type="radio"/>
Driving record system		<input type="radio"/>
Central lubrication system		<input type="radio"/>
Lights		
Alarm light	<input checked="" type="checkbox"/>	
Vehicle LED lights	<input checked="" type="checkbox"/>	
Mast LED light	<input checked="" type="checkbox"/>	
Blue light		<input type="radio"/>
Acoustic and optical alarm light		<input type="radio"/>
Other		
Self-locking valve in the tilting fuel circuit	<input checked="" type="checkbox"/>	
Neutral indicator	<input checked="" type="checkbox"/>	
Speed limit valve in the lifting fuel circuit	<input checked="" type="checkbox"/>	
Vehicle toolkit	<input checked="" type="checkbox"/>	
Quad multiway valve	<input checked="" type="checkbox"/>	
User specified color		<input type="radio"/>