



ZHEJIANG HANGCHA IMP. & EXP. 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



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ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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XH SERIES HIGH-VOLTAGE LITHIUM BATTERY FORKLIFT

with capacity of 8,000 to 10,000kg



The World of 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, the dedicated XH series heavy-duty high-voltage lithium battery forklifts are a new series of products with a new energy vehicle voltage platform and a pioneered special structure that represents a breakthrough over the traditional design concept. Breaking through the perception of drive electric forklift, the series of products supersede the internal combustion forklifts and redefine the new generation of electric forklifts in terms of efficiency, power, reliability, etc..

THE *Plus*
FOR YOUR
BUSINESS

VOLTAGE

309 V

SPEED MODELS

3

MAX. GRADEABILITY

30%

TRAVEL SPEED

32km/h

WATER RESISTANCE

IPX4

PROTECTION RATE

IP67

Stylish exterior

/ With the inherited classic exterior design of the dedicated XC lithium battery forklift and a smooth and sturdy profile, the whole vehicle is impact, elegant, stylish and sturdy.



COMMITTED TO IMPROVING

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%

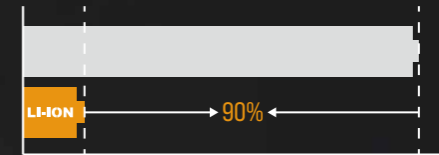
Low Voltage Lithium Battery Forklift
Hangcha High Voltage Lithium Electric Forklift



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

90%

Fuel Forklift
Lithium Electric Forklift



4000

CYCLES OF CHARGING



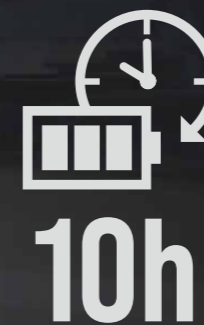
Under normal charging and discharging conditions, the lithium battery of Hangcha products has a capacity retention rate of more than 75% and a life span of up to 10 years after 4000 cycles of charging and discharging.

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

Get the battery fully charge:



Hangcha High Voltage Electric Forklift



Electric Forklift

POWER PERFORMANCE COMPARISON

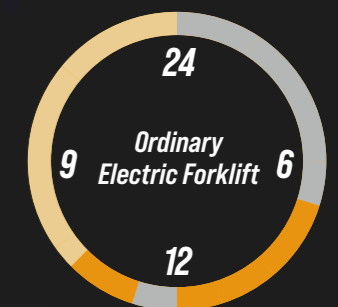
	High Voltage Lithium Electric Forklift	Fuel Forklift
Travel speed, laden/unladen	29/32km/h	15-20km/h
Lift speed, laden/unladen	420/470mm/s	430/470mm/s
Max. gradeability, S2-5min, laden/unladen	24/30%	15%-20%

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

Working time Charging time Idle time



Charge for 1.5 hour, work for 6 hours



Slow charging, need spare battery, high cost, complicated management

EFFICIENT AND DURABLE



Standard large-capacity lithium battery



Charging port

Ultra-long battery life

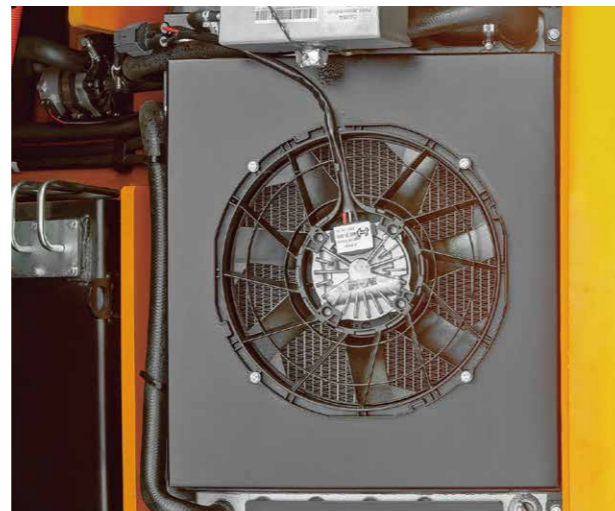
- / Standard large-capacity lithium battery meets long battery life requirements.
- / Both the drive and operating systems are vehicle-grade permanent magnet synchronization systems, being energy-saving and efficient;
- / With 309V high-voltage platform, the vehicle boasts of a smaller current and very low heat loss;
- / The vehicle uses an overall controller to control the traction motor controller assembly and the driving motor controller assembly to form a highly independent, light-weighted, efficient and intelligent drive system.

Quick charge

- / The standard battery with superfast charging technology needs only 1.5h to charge fully;
- / Compatible with the automobile charging pile to enable more convenient charging;
- / Optional slow-charge charger (3 hours to charge fully), cost-effective and economical.

Internal combustion condition

- / Both the drive and operating systems are vehicle-grade permanent magnet synchronization systems. Equipped with a high speed ratio gearbox, the driving speed, upslope degree and acceleration performance surpass that of internal combustion vehicles.
- / It adopts the same structural design of drive axle, steering axle and tires as internal combustion forklifts, which can meet the demand of high-intensity operating conditions.
- / With regard to the series of products, a water cooling system with a good heat dissipation effect is used on a new energy forklift for the first time, so that the forklift can carry out long-time and high-intensity operations as internal combustion forklifts.
- / It meets all-weather operating conditions and is usable under severe operating conditions such as cold storage, heavy rain and waterlogged roads.



Cooling system

SAFE AND RELIABLE

The cover of the vehicle is designed to be sealed to the water resistance level of IPX4 for the body. 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.



Electrical system

- / The electrical system is equipped with high-voltage interlocks, insulation detection and vehicle-grade safety means. The MSD maintenance switch enables one-click power-down and safer maintenance.



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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.



An optional OPS seat sensing feature is provided to enable high safety by disabling the descending, lifting and driving when the driver leaves the seat and giving out an alarm when the driver leaves the seat without activating the hand brake.

Easily maintainable

- / Equipped with a lock, charging, liquid replenishment and maintenance become convenient.
- / The water tank lid can be removed quickly and easily without a tool to enable a large operating area for cleaning and maintenance.

Standard Specification

- / Multi-function color-screen combination instrument
- / Large integral rubber pedal pads
- / LED combination headlights, LED rear combination three-color taillights
- / Duplex wide-view mast
- / 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
- / Integrated fuse box
- / Charging muzzle meeting national standards
- / Reverse buzzer
- / Lithium battery pack
- / Lithium battery pack with low temperature electric heating systems
- / Maintenance-free 12V lead-acid battery
- / Two-in-one permanent magnet AC traction motor controller
- / Two-in-one permanent magnet AC oil pump motor controller
- / Two-in-one DC-DC power supply
- / VCU controller
- / MSD maintenance switch
- / Emergency power off switch
- / Mileage display, operating time display
- / Load sensing steering system
- / Turning deceleration function
- / Fork descending buffering
- / SPE power selection
- / Electronic water pump
- / Electronic fan
- / Heat dissipater
- / Expansion tank
- / Quadruple multi-way valve
- / Silent gear pump
- / Toolbox, folder
- / Traction pin
- / Left and right rear view mirrors
- / Hangcha cloud intelligent management system

Options

- / Solid tire
- / Reversing video
- / Front/rear blue lights
- / Rear operation lights
- / Dedicated lithium battery charger
- / Reverse armrest (with a horn button)
- / OPS seat sensing function
- / Quintuple multi-way valve
- / Widened fork carriage
- / Forks of other lengths
- / Free duplex mast
- / Free triplex mast
- / Accessories for other specifications
- / Start with a PIN code or by swiping a card
- / Coloring solid environmentally friendly seamless tire
- / Integrated fingertip control system including ergonomic armrests

Optional battery list

Voltage/capacity	302Ah
309V	●
348V	○

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



8.0t Mast Specification

Type	Model	Lifting height	Overall height		Free lift	Front Overhang	Tilt range		Capacity	
			Lowered	Extended			Without backrest	FWD	BWD	Load center@900mm
				mm	mm	mm				mm
Wide view mast	X80M250	2500	2450	3710	200	714	6	12	8000	
	X80M270	2700	2550	3910	200	714	6	12	8000	
	X80M300	3000	2700	4210	200	714	6	12	8000	
	X80M330	3300	2850	4510	200	714	6	12	8000	
	X80M350	3500	2950	4710	200	714	6	12	8000	
	X80M360	3600	3000	4810	200	714	6	12	8000	
	X80M400	4000	3200	5210	200	714	6	12	8000	
	X80M430	4300	3400	5510	200	714	6	6	8000	
	X80M450	4500	3500	5710	200	714	6	6	8000	
	X80M480	4800	3650	6010	200	714	6	6	8000	
	X80M500	5000	3750	6210	200	714	6	6	8000	
	X80M550	5500	4050	6740	200	714	3	6	7400	
	X80M600	6000	4300	7240	200	714	3	6	7000	
	X80M650	6500	4600	7790	200	714	3	6	5800	
Wide view full free duplex mast	X80U230	2300	2350	3505	1145	719	6	12	8000	
	X80U250	2500	2450	3705	1245	719	6	12	8000	
	X80U270	2700	2550	3905	1345	719	6	12	8000	
	X80U300	3000	2700	4205	1495	719	6	12	8000	
	X80U330	3300	2850	4505	1645	719	6	12	8000	
	X80U360	3600	3000	4805	1795	719	6	12	8000	
Wide view full free triplex mast	X80N450	4500	2750	5775	1485	759	6	6	7000	
	X80N480	4800	2850	6075	1585	759	6	6	7000	
	X80N500	5000	2950	6360	1600	759	6	6	6500	
	X80N550	5500	3100	6810	1800	759	3	6	6100	
	X80N600	6000	3250	7275	1985	759	3	6	5600	
	X80N650	6500	3530	7840	2200	759	3	6	5000	
	X80N700	7000	3700	8310	2400	759	3	6	4200	

9.0-10t Mast Specification

Type	Model	Lifting height	Overall height		Free lift	Front Overhang	Tilt range		Capacity	
			Lowered	Extended			Without backrest	FWD	BWD	Load center@600mm
				mm	mm	mm				mm
Wide view mast	X100M250	2500	2600	4055	200	726	6	12	9000	10000
	X100M270	2700	2700	4255	200	726	6	12	9000	10000
	X100M300	3000	2850	4555	200	726	6	12	9000	10000
	X100M330	3300	3000	4855	200	726	6	12	9000	10000
	X100M350	3500	3100	5055	200	726	6	12	9000	10000
	X100M360	3600	3150	5155	200	726	6	12	9000	10000
	X100M400	4000	3350	5555	200	726	6	12	9000	10000
	X100M430	4300	3550	5855	200	726	6	6	9000	10000
	X100M450	4500	3650	6055	200	726	6	6	9000	10000
	X100M480	4800	3800	6355	200	726	6	6	9000	10000
	X100M500	5000	3900	6555	200	726	6	6	9000	10000
	X100M550	5500	4200	7055	200	726	3	6	8500	9000
	X100M600	6000	4450	7555	200	726	3	6	7500	8000
	X100M650	6500	4750	8055	200	726	3	6	6000	6700
Wide view full free duplex mast	X100U230	2300	2500	3845	955	744	6	12	9000	10000
	X100U250	2500	2600	4045	1055	744	6	12	9000	10000
	X100U270	2700	2700	4245	1155	744	6	12	9000	10000
	X100U300	3000	2850	4545	1305	744	6	12	9000	10000
	X100U330	3300	3000	4845	1455	744	6	12	9000	10000
	X100U360	3600	3150	5145	1605	744	6	12	9000	10000
Wide view full free triplex mast	X100U400	4000	3350	5545	1805	744	6	12	9000	10000
	X100N450	4500	2850	6055	1305	794	6	6	8000	8500
	X100N480	4800	2950	6355	1405	794	6	6	8000	8500
	X100N500	5000	3050	6555	1505	794	6	6	8000	8200
	X100N550	5500	3200	7055	1655	794	3	6	7500	7700
	X100N600	6000	3350	7555	1805	794	3	6	6700	7000
	X100N650	6500	3630	8055	2085	794	3	6	5800	6200
X100N700	7000	3800	8555	2255	794	3	6	4800	5200	

XH Series 8.0-10t High-voltage Lithium Battery Forklift Specification

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation	CPD80-XHLY2G	CPD90-XHY2G	CPD100-XHY2G	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Electric	Electric	Electric	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated	Seated	
	1.5	Rated capacity/rated load	Q (kg)	8000	9000	10000
	1.6	Load centre distance	c (mm)	900	600	600
	1.7	Load distance, centre of drive axle to fork	x (mm)	714	726	726
	1.8	Wheelbase	y (mm)	2500	2500	2500
Weight	2.1	Service Weight	kg	14000	13400	14200
	2.2	Axle loading, laden front/rear	kg	19345/2655	20080/2320	21640/2560
	2.3	Axle loading, unladen front/rear	kg	6230/7770	6250/7150	6350/7850
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic
	3.2	Tyre size, front		9.00-20-14PR	9.00-20-14PR	9.00-20-14PR
	3.3	Tyre size, rear		9.00-20-14PR	9.00-20-14PR	9.00-20-14PR
	3.4	Wheels, number front / rear (x = driven wheels)		4x/2	4x/2	4x/2
	3.5	Tread, front	b10 (mm)	1628	1628	1628
	3.6	Tread, rear	b11 (mm)	1700	1700	1700
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta(^{\circ})$	6/12	6/12	6/12
	4.2	Height, mast lowered	h1 (mm)	2700	2850	2850
	4.3	Free lift	h2 (mm)	200	200	200
	4.4	Lift	h3 (mm)	3000	3000	3000
	4.5	Height, mast extended	h4 (mm)	4210	4555	4555
	4.6	Height of overhead guard (cabin)	h6 (mm)	2560	2560	2560
	4.7	Seat height/stand height	h7 (mm)	1387	1387	1387
	4.8	Overall length	l1 (mm)	5774	5486	5486
	4.9	Length to face of forks	l2 (mm)	3974	3986	3986
	4.10	Overall width	b1 (mm)	2197	2197	2197
	4.11	Fork dimensions	s/e/l (mm)	80x160x1800	80x160x1520	80x160x1520
	4.12	Distance between fork-arms	bs (mm)	440/2000	440/2000	440/2000
	4.13	Ground clearance, laden, below mast	m1 (mm)	250	250	250
	4.14	Ground clearance, centre of wheelbase	m2 (mm)	320	320	320
4.15	Aisle width for pallets 1200 x 1200 lengthways	Ast (mm)	5734	5746	5746	
4.16	Turning radius	Wa (mm)	3620	3620	3620	
Performance data	5.1	Travel speed, laden/unladen	km/h	29/32	29/32	29/32
	5.2	Lift speed, laden/unladen	mm/s	420/470	400/470	380/470
	5.3	Lowering speed, laden	mm/s	455	455	455
	5.4	Max. gradeability, laden/unladen	%	22/30	24/30	22/30
	5.5	Service brake		Hydraulic	Hydraulic	Hydraulic
	5.6	Parking brake		Mechanical	Mechanical	Mechanical
Electric-engine	6.1	Drive motor rating S2 60 min	kW	54.5	54.5	54.5
	6.2	Lift motor rating at S3 15%	kW	35x2	35x2	35x2
	6.3	Battery voltage, nominal capacity K5	V/Ah	309/302	309/302	309/302
	6.4	Battery weight	kg	890	890	890
7.1	Type of drive unit		AC	AC	AC	
8.1	Manufacturer		Enpower	Enpower	Enpower	
9.1	Operating pressure for attachments	MPa	20	20	20	

