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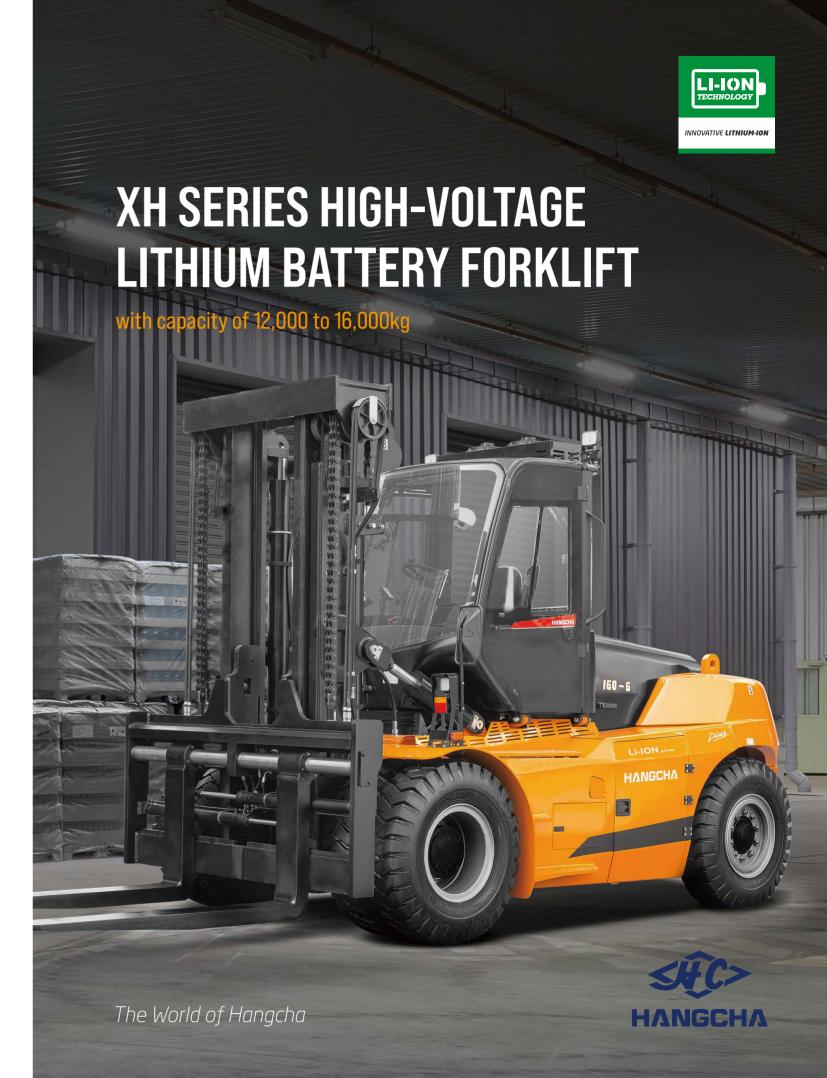
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Forklift" App

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THE DIME

FOR YOUR BUSINESS

HANGCHA

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 electric forklifts with internal combustion.

VOLTAGE

541 V

MAX. GRADEABILITY

30%

WATER RESISTANCE

IPX4

SPEED MODELS

3

TRAVEL SPEED

27km/h

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.

COMMITTED TO IMPROVING service cycle.

MORE 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.



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

Fuel Forklift

Lithium Electric Forklift





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.

nrough disruptive battery and fast charging technology, the varging 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	26/27km/h	15-20km/h
Lift speed, laden/unladen	400/500mm/s	430/470mm/s
Max. gradeability, S2=5min, laden/unladen	30%	15%-20%

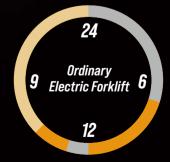
Fast charging makes it possible for the whole vehicle to work isly, shortening the waiting time and greatly improving







Charge for 1.5 hour, work for 6 hours



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

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.









Intelligentization

- / 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 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.



Standard Specification

- / Duplex wide-view mast
- / Hydraulic prong adjustment
- / Standard fork
- / Cab
- / Cooling and heating air conditioner
- / Fully hydraulic power steering
- / Quadruple multi-way valve
- / Chair sensing system
- / Steering wheel adjusting device
- / Self-locking valve in the tilting fuel circuit
- / Speed limit valve in the lifting fuel circuit
- / Traction device
- / Main power switch
- / Reversing radar
- / LCD bus instrument
- / Neutral indicator
- / Accumulator low pressure alarm
- / Hydraulic oil filter alarm
- / Vehicle LED lights
- / Pneumatic tire
- / Reverse buzzer
- / Snail horn
- / Manual/electric tipping pump
- / Armrest's multi-directional adjustment device
- / Vehicle toolkit
- / Multi-function color-screen combination instrument
- / Standard lithium battery box
- / Water chilling unit for lithium battery
- / Maintenance-free 24V lead-acid battery
- / Integrated controller (PDU+DC/DC+MCU)
- / Two-in-one oil pump motor controller
- / VCU controller
- / MSD maintenance switch
- / Emergency power off switch
- / Water chilling unit for electric control and motor
- / Automatic fire extinguisher for lithium battery
- / Cab fan

Options

- / User specified color
- / Forks of Others specifications
- / Masts of Others specifications
- / Solid tire
- / Vehicle intercom
- / Reverse voice buzzer
- / Electronic alarm light (with/without a control switch)
- / Rear view system (optional with memory)
- / Front and rear view systems (optional with memory)
- / Fire extinguisher (2kg/4kg)
- / Mast LED operation light
- / Four-channel driving record system
- / Speed limit
- / Blue light
- / Weighing system

Optional battery list

Capacity (Ah)	12-16t 541V	12-16t 608V		
228	•	_		
302	_	0		

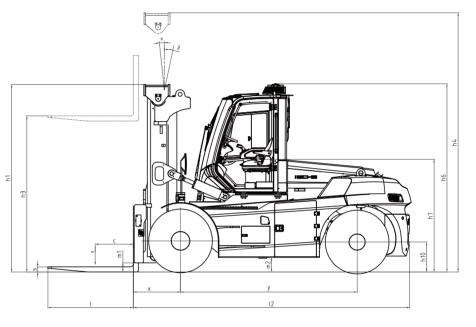
Note: • Standard battery capacity; O Optional battery capacity; — Null

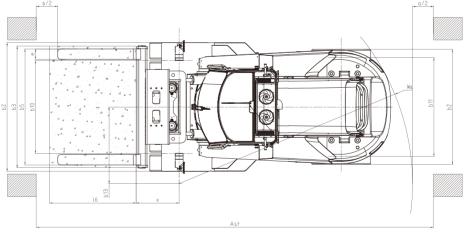
XH Series 12-16t High-voltage Lithium Battery Forklift Specification

	1.1	Manufacturer			HANGCHA GROUP CO.,LTD.		
	1.2	Manufacturer's type designation		CPD120-XHXL2G	CPD140-XHXL2G	CPD160-XHXL2G	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric	Electric	
hing	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	
Distinguishing mark	1.5	Rated capacity/rated load	Q (kg)	12000	14000	16000	
Dist	1.6	Load centre distance	c (mm)	600	600	600	
	1.8	Load distance, centre of drive axle to fork	x (mm)	746	825	825	
	1.9	Wheelbase	y (mm)	3100	3100	3100	
	2.1	Service Weight	kg	17000	19400 20500		
Weight	2.2	Axle loading, laden front/rear	kg	24590/3410	30200/3200 32800/3700		
	2.3	Axle loading, unladen front/rear	kg	8300/8700	9700/9700 9430/11070		
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		pneumatic	pneumatic	pneumatic	
	3.2	Tyre size, front		10.00-20-18PR	11.00-20-18PR	12.00-20-20PR	
ssis	3.3	Tyre size, rear		10.00-20-18PR	11.00-20-18PR	12.00-20-20PR	
Tyres, chassis	3.5	Wheels, number front / rear (x = driven wheels)		4x/2	4x/2	4x/2	
Ţ	3.6	Tread, front	b10 (mm)	1780	1780	1780	
	3.7	Tread, rear	b11 (mm)	1890	1890	1890	
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/12	6/12	6/12	
	4.2	Height, mast lowered	hı (mm)	3180	3270	3290	
	4.4	Lift	ha (mm)	3000	3000	3000	
	4.5	Height, mast extended	h4 (mm)	4695	4790	4790	
	4.7	Height of overhead guard (cabin)	h6 (mm)	3265	3280	3300	
	4.8	Seat height/stand height	h7 (mm)	1925	1940	1960	
	4.12	Coupling height	h10 (mm)	538	553	573	
	4.19	Overall length	lı (mm)	6190	553 5/3 6260 6350		
Dimensions	4.20	Length to face of forks	l2 (mm)	4690	4760 4850		
Dime	4.21	Overall width	b1 (mm)	2460	2460	2460	
	4.22	Fork dimensions	s/e/I (mm)	80/200/1500	90/200/1500	90/200/1500	
	4.24	Fork-carriage width	b3 (mm)	2372	2372	2372	
	4.25	Distance between fork-arms	b5 (mm)	520/2200	520/2200		
	4.31	Ground clearance, laden, below mast	m1 (mm)	235	250	270	
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	220	235 255		
	4.34.1	Aisle width for pallets crossways	Ast (mm)	6795	6875	6975	
	4.35	Turning radius	Wa (mm)	4350	4350	4450	
	5.1	Travel speed, laden/unladen	km/h	23/25	23/25	26/27	
žá	5.2	Lift speed, laden/unladen	m/s	0.4/0.5	0.35/0.45 0.35/0.4		
Performance data	5.6	Max. Drawbar pull, laden/unladen	N	100000	100000 100000		
formai	5.8	Max. gradeability, laden/unladen	%	30/30	30/30	25/25	
Per	5.10	Service brake		Wet disc brake system(WDB)	Wet disc brake system(WDB)	Wet disc brake system(WDB)	
		Parking brake		Spring	g Applied,Hydraulic release multidisc brake(SAHR)	
	6.1	Drive motor rating S2 60 min	kW	120	120	120	
	6.2	Lift motor rating at \$3 15%	kW	50×2	50×2	50×2	
gine	6.4	Battery voltage, nominal capacity K5	V/Ah	541/228	541/228	541/228	
Electric-engine	6.5	Battery weight	kg	1100	1100	1100	
Elect		Battery dimensions	l/b/h(mm)	1884/715/629	1884/715/629	1884/715/629	
		Max. battery weight	kg	1100	1100	1100	
		Min. battery weight	kg	1500	1500	1500	
	8.1	Type of drive unit		IGBT/AC	IGBT/AC	IGBT/AC	
- E -		1					
Addition data	10.1	Operating pressure for attachments	bar	140	140	140	

12-16t Mast Specification

Туре	Model	Lifting height	Overall height				Tilt range	Capacity		
			Lowered		Extended		F/R	Load center@600mm		
			12t	14/16t	12t	14/16t	1711	12t	14t	16t
		mm	mm	mm	mm	mm	(°)	kg	kg	kg
e view	GXRX120/160M300	3000	3180	3290	4695	4790	6/12	12000	12000	16000
	GXRX120/160M330	3300	3330	3440	4995	5090	6/12	12000	12000	16000
	GXRX120/160M360	3600	3480	3590	5295	5390	6/12	12000	12000	16000
	GXRX120/160M400	4000	3680	3790	5695	5790	6/12	12000	12000	16000
	GXRX120/160M430	4300	3880	3990	6030	6140	6/12	12000	12000	16000
ge wide mast	GXRX120/160M450	4500	3980	4090	6230	6340	6/12	12000	12000	16000
2-stage	GXRX120/160M480	4800	4130	4240	6530	6640	6/6	12000	12000	16000
	GXRX120/160M500	5000	4230	4340	6730	6840	6/6	12000	12000	16000
	GXRX120/160M550	5500	4530	4640	7280	7390	3/6	10500	10500	14500
	GXRX120/160M600	6000	4780	4890	7780	7890	3/6	9000	9000	13000
	GXRX120/160M650	6500	5080	5190	8330	8440	3/6	7500	7500	11500





Ast=I6+Wa+x+a L6: load length a: Clearance (200mm)

