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ISO 9001  
5045001:2015



ISO 14001  
15014001:2015



ISO 45001  
0509001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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**XC Series 3-Wheel Electric Forklift Truck**  
**With Lithium Power**  
 with capacities of 1,300 to 2,000kg

*The world of Hangcha*  
 SINCE 1956



## XC Series 3-Wheel Electric Forklift Truck With Lithium power

Covering models with a tonnage of 1.3t, 1.5t, 1.6t, 1.8t and 2.0t respectively, the new XC series three-point new energy electric forklifts are HANGCHA's dedicated-purpose battery forklifts subsequent to the XC series four-point dedicated-purpose battery forklifts.

Equipped with the dedicated lithium battery cells and modules for the XC series forklifts, which are developed jointly by HANGCHA and CATL, the truck has the features of high lifting speed, high driving speed, excellent ergonomic design, easy operation and high safety.



### Excellent ergonomic design

- / The truck has a large operation space more than 50% larger than that of the traditional three-point electric truck.
- / The enlarged brake pedal and appropriate regenerative braking function can effectively reduce the driver's fatigue.
- / 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.

### 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.
- / Vulnerable parts and key parts are arranged reasonably to facilitate maintenance and repair.
- / The hood (with a self-locking gas spring) can be opened at a large angle, facilitating the maintenance and replacement of the battery.

### Advancement

- / 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-slip on ramps, etc., and high safety and reliability.
- / The ultra-high power AC drive motor has a bridge structure.
- / An ultra-high power AC oil pump motor is used. The system has high efficiency, complete protection functions, built-in speed and temperature sensors, and greatly improved reliability and life.
- / The noise can be as low as 73dBA.

### Comfort

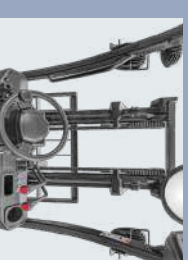
- / Owing to the low center of gravity and good stability, the driver feels comfortable during turning.
- / The intelligent sensing enables buffered descending. When the fork is 100 - 60mm away from the ground, the descending will automatically slow down, so that the goods and pallet will not hit the ground and the goods and ground can be protected effectively.
- / Silence, no pollution, energy saving and other advantages meet environmental protection requirements.
- / With friendly human-computer interfaces, the new large-screen LED instruments have good visibility and clear readings.



The dashboard in the driver's cab is placed overhead and can be seen when the driver turns his head, and the functions can be pressed easily.



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



The wide-view part 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. The high fulcrum of the tilt cylinder enables better force bearing and more stable operation of the mast.



The key switch is designed with adjustable small diameter steering wheel, making the driver feel good.



The seat can be adjusted back and forth by 210mm. The operator can choose the best driving position.



## Main Accessories

- / The main electrical components such as the motor controller, contractor, power plug, emergency cut-off switch, dashboard, accelerator, are all products of well-known foreign brands.
- / The emergency cut-off switch equipped for the standard configuration complies with European safety regulations.
- / Electronic and hydraulic overload protection devices.
- / The truck has passed the CE certification.

## Standard Specification

- / Dual AC drive motors
- / 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
- / Handbrake with a touch-proof mechanism
- / Turning deceleration function
- / Cloud smart module
- / Fork descending buffering
- / SPE power selection
- / Mileage display, operating time display
- / Integrated fuse box
- / DC-DC converter
- / 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
- / The gas spring of the hood with a touch-proof mechanism
- / LED combination headlights, LED combination three-color tail lights
- / Charging muzzle meeting national standards



## 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.
- / 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.

## Options

- / Lithium packs 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
- / Cold storage truck
- / Reverse armrest (containing a horn button)
- / Fully enclosed cab
- / 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
- / Full free duplex mast
- / Full free triplex mast
- / Integrated side shifter
- / Attachments of other specifications
- / Grammer M50531 suspended seat
- / Dedicated lithium battery charger
- / Integrated fingertip control system including ergonomic armrests
- / Toolbox folder



# LITHIUM POWERED

LI-ION<sup>+</sup>  
TECHNOLOGY

INNOVATIVE LITHIUM-ION

## EMPOWER YOURSELF WITH THE BEST



POWER THE POSSIBILITIES  
RELIABLE LITHIUM-ION TECHNOLOGY

## LITHIUM BATTERY ADVANTAGES



### Long service life

4000 full charging cycles with at least 75% residual capacity.



### Return on investment

Add flexibility to your operation, cost-saving in the long term, increased efficiencies.



### Maintenance free

No topping up of water or checking acid levels.



### High energy density

The high energy density of the Li-Ion battery ensures long working times and increases the high availability.



### Cold area application

Li-Ion batteries maintain high performance at temperatures below freezing.



### High safety and reliability

Intelligent battery management monitoring every important function, no emission of battery gasses.



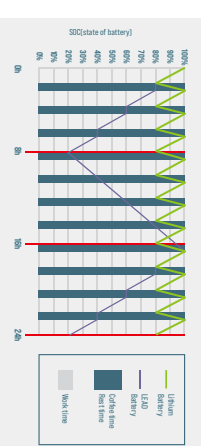
### Opportunity charging

Full performance during several shifts thanks to effective interim charging.

## FEATURES & BENEFITS THE HANGCHA DIFFERENCE

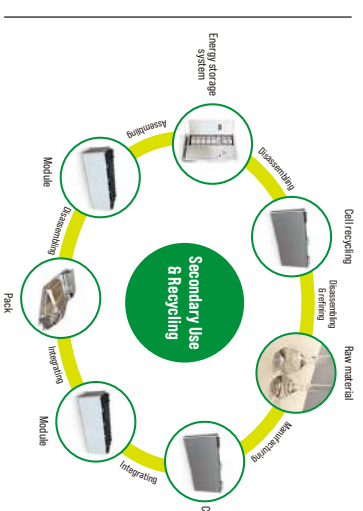
### Efficiency

By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.



### Safety

/ Intelligent battery management monitoring every important function.  
/ Higher user safety, thanks to acid-free use.  
/ User friendly due to avoided battery change.  
/ No emission of battery gasses.



**QUESTION 1**  
Q: What are the characteristics of lithium batteries, especially when used in high and low temperature environments?

- Charging temperature: -30°C~+55°C  
Discharge temperature: -30°C~+55°C  
Storage environment temperature: -30°C~+55°C
- After the truck key switch is closed, the instrument battery condition needs to be checked:
1. Confirm that there is no battery system alarm message on the instrument panel.
  2. Please check the remaining power before use. It is recommended to use the SOC between 20% and 100%.
  3. If the SOC is lower than 20%, it is not recommended to continue using it. Please charge it as soon as possible.

**QUESTION 3**  
Q: How does Hangcha BMS work to ensure the safety of the lithium battery?

HANGCHA BMS (battery management system) can monitor the cells at all times. As a result, Hangcha lithium power is the reliable solution.

#### Battery Safety Management:

- Overcharge/over-discharge protection
- Equalization/over-temperature/low-temperature protection
- Multi-level fault diagnosis protection
- Double fault monitoring

#### Battery Parameter Detection:

- Battery voltage detection and analysis
- Battery current detection and analysis
- Battery temperature detection and analysis

#### Equalization Management:

- Equalization based on voltage mode
- Equalization based on time mode
- Active/passive equalization optional

#### Other Features:

- Low cost/low power consumption
- Historical data record
- Flexible cascade expansion
- CRC data validation

**QUESTION 2**  
Q: What is the charging time and usage time calculation of forklift lithium battery?

1. Available power of lithium battery (kWh) = rated voltage \* rated power \* 90% (To avoid over-discharge damaging the battery, the forklift is equipped with low power protection (less than 10%).)
  2. Charging time (h) = rated capacity of lithium battery (Ah) \* 90% \* charger output current (A).
  3. The power consumed for charging (kWh) = the available power of the lithium battery \* 93% (the charging efficiency of the charger is calculated as 93%).
  4. Usage time (h) = available power of lithium battery \* energy consumption data.
- For specific energy consumption values, please refer to the technical table on the sharing platform.

## Technical data

HANCHA GROUP CO., LTD.									
11	Manufacturer								
12	Manufacturer's type designation	CP95.13.XC086-SI	CP95.15.XC086-SI	CP95.18.XC086-SI	CP95.18.XC086-SI	CP95.18.XC086-SI	CP95.18.XC086-SI	CP95.18.XC086-SI	CP95.20.XC086-SI
13	Drive electric (battery or manual), direct (parallel), four gears	electric	electric	electric	electric	electric	electric	electric	electric
14	Operator type, hand, pedestrian, standing, seated, order, pick-up	seated	seated	seated	seated	seated	seated	seated	seated
15	Load capacity/payload	Q (kg)	1300	1500	1600	1800	2000	2000	2000
16	Load capacity/payload	Q (kg)	500	500	500	500	500	500	500
17	Load centre distance	x (mm)	360	360	360	360	360	360	360
18	Load distance, centre of drive axle to fork wheelbase	y (mm)	1277	1277	1277	1277	1277	1407	1407
19	Wheelbase	kg	2570	2770	2940	3080	3200	3200	3200
21	Service weight	kg	3420/450	3765/505	4005/530	4215/575	4580/620	4580/620	4580/620
22	Max loading, when front/rear	kg	1189/1395	1260/1510	1340/1630	1359/1735	1380/1693	1380/1693	1380/1693
23	Max loading, when front/rear	kg	solid	solid	solid	solid	solid	solid	solid
31	Types, solid rubber, superelastic, pneumatic, polyurethane	18x7 - 8	18x7 - 8	18x7 - 8	18x7 - 8	18x7 - 8	200/50-10	200/50-10	200/50-10
32	Type size, front	15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	15x4.5 - 8
33	Type size, rear	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2
35	Types, number front/rear (x = driven wheels)	178	178	178	178	178	178	178	178
37	Tire, rear	7/6	7/6	7/6	7/6	7/6	7/6	7/6	7/6
41	Tire of mast fork carriage forward/backward	17/8	17/8	17/8	17/8	17/8	17/8	17/8	17/8
42	Height, mast lowered	h (mm)	1754	1754	1754	1754	1754	1754	1754
43	Free lift	h (mm)	145	145	145	145	145	145	145
44	Free lift	h (mm)	3000	3000	3000	3000	3000	3000	3000
45	Height, mast extended	h (mm)	3945	3945	3945	3945	3945	3945	3945
47	Height of overhead guard ST1 (Cabin)	h (mm)	2100(2.65)	2100(2.65)	2100(2.65)	2100(2.65)	2100(2.65)	2100(2.65)	2100(2.65)
49	Seat height/seat height	h (mm)	1000	1000	1000	1000	1000	1000	1000
412	Coopering height	h (mm)	520	520	520	520	520	520	520
419	Overall length	l (mm)	2754	2754	2754	2754	3034	3034	3034
420	Length to base of forks	l (mm)	1834	1834	1834	1834	1834	1834	1864
421	Overall width	b (mm)	1080	1080	1080	1080	1080	1080	1149
422	Fork dimensions	%/l (mm)	3510/100/920	3510/100/920	3510/100/920	3510/100/920	3510/100/920	4012/210/70	4012/210/70
423	Fork carriage DIN 15.73 - F3/2.308 class type AB	b (mm)	1502/238.2A	1502/238.2A	1502/238.2A	1502/238.2A	1502/238.2A	1502/238.2A	1502/238.2A
424	Fork carriage width	b (mm)	1000	1000	1000	1000	1000	1000	1000
425	Distance between fork arms	b (mm)	200/1000	200/1000	200/1000	200/1000	200/1000	200/1000	200/1000
431	Ground clearance, when fully mast	m (mm)	100	100	100	100	100	100	100
432	Ground clearance, when fully mast	m (mm)	110	110	110	110	110	110	110
433	Ground clearance, centre of wheelbase	m (mm)	3158	3158	3158	3158	3158	3158	3290
434	Aisle width for pallets 1000 x 1200 crossways	A (mm)	3280	3280	3280	3280	3280	3415	3415
434	Aisle width for pallets 800 x 1200 (lengthways)	W (mm)	1470	1470	1470	1470	1470	1505	1505
435	Turning radius	mm/s	1616	1616	1616	1616	1616	1616	1616
51	Turn speed, when underload	mm/s	460/600	460/600	460/600	460/550	400/550	400/550	400/550
52	Turn speed, when underload	mm/s	460/440	460/440	460/440	460/420	470/420	470/420	470/420
53	Overload speed, when underload	mm/s	3500/4000	3600/3900	3600/3900	3200/3800	3050/3900	3050/3900	3050/3900
55	Overload speed, when underload	N	12000/12000	12000/12000	11600/11500	11500/11400	11200/11000	11200/11000	11200/11000
56	Max. Drawbar pull, when underload	N	1618	1618	1618	1517	1315	1315	1315
57	Gradeability, when underload	%	20/20	20/20	20/20	19/20	15/18	15/18	15/18
58	Max. gradeability, when underload	%	20/20	20/20	20/20	19/20	15/18	15/18	15/18
59	Max. gradeability, when underload	%	20/20	20/20	20/20	19/20	15/18	15/18	15/18
59	Acceleration time, when underload (0-10m)	s	4.5/4.1	4.6/4.2	4.7/4.3	4.8/4.4	4.9/4.5	4.9/4.5	4.9/4.5
510	Service brake								
511	Parking brake								
61	Drive motor rating, S2, 60 min	kW	150	150	150	150	150	150	150
62	Turn motor rating, S2, 60 min	kW	15 AC	15 AC	15 AC	15 AC	15 AC	15 AC	15 AC
63	Turn motor rating, S2, 60 min	kW	15 AC	15 AC	15 AC	15 AC	15 AC	15 AC	15 AC
64	Battery AC, to DIN 43.51/3.976 A.B.C. no		no	no	no	no	no	no	no
64	Battery voltage, nominal capacity, AS	V/Ah	80/230	80/230	80/230	80/230	80/230	80/230	80/230
65	Max. battery weight	kg	230	230	230	230	230	350	350
69	Max. battery weight	kg	155	155	155	155	280	280	280
81	Type of drive control								
82	Operating pressure for attachments	bar	150	150	150	150	150	150	150
83	Oil volume for attachments	l/min	35	35	35	35	35	35	35
84	Sound level at the driver's ear according to EN 12.052	dB(A)	72	72	72	72	73	74	74
85	Working coupling, type DIN		Q24Pin	Q24Pin	Q24Pin	Q24Pin	Q24Pin	Q24Pin	Q24Pin
91	Hydraulic Tank - capacity (Clean & full)	liter	33	33	33	33	33	43	43

EVE Battery Capacity			
Capacity (Ah)	1.3-1.5t	1.6-1.8t	2.0t
230	●		○
290	/	/	●
304	○	○	○
460	/	/	○

Note: ● Standard battery capacity, ○ Optional battery capacity, / Not available

CATL Battery Capacity			
Capacity (Ah)	1.3-1.5t	1.6-1.8t	2.0t
228	○	○	/
302	○	○	○
375	/	/	○

Note: ● Standard battery capacity; ○ Optional battery capacity; / Not available

Note: ● Standard battery capacity; ○ Optional battery capacity; / Not available

### Technical data(Permanent magnet synchronous)

HANICHA GROUP CO., LTD.									
1.1		Manufacturer		CP0516-KC-V26-S1		CP0516-KC-V26-S1		CP0518-KC-V6-S1	
1.2		Manufactures type designation		electric		electric		electric	
1.3		Drive electric (battery or motor) (diesel, petrol, low loader)		scooter		scooter		scooter	
1.4		Operator type (hand, pedestrian, standing, seated, rear rider)		1300		1500		1800	
1.5		Load capacity (rated load)		500		500		500	
1.6		Load center distance		c (mm)		500		500	
1.8		Wheel distance, centre of drive axle to fork		x (mm)		360		360	
1.9		Wheelbase		y (mm)		1277		1407	
2.1		Service weight		kg		2570		3200	
2.2		Axle loading, laden front/rear		kg		3402/450		4496/620	
2.3		Axle loading, unladen front/rear		kg		1180/1385		1350/1535	
3.1		Tyres, solid rubber, superelastic, pneumatic, polyurethane		solid		solid		solid	
3.2		Tyre size, front		18x7 - 8		18x7 - 8		20x50 - 10	
3.3		Tyre size, rear		15x4.5 - 8		15x4.5 - 8		15x4.5 - 8	
3.5		Wheels, number front/rear (x = driven wheels)		2x/2		2x/2		2x/2	
3.6		Tread, front		bu (mm)		914		914	
3.7		Tread, rear		bu (mm)		178		178	
4.1		Tilt of mast fork carriage (forward/backward)		Grad		7/6		7/6	
4.2		Height, mast lowered		h1 (mm)		1978		1978	
4.3		Free lift		h2 (mm)		145		145	
4.4		Lift		h3 (mm)		3000		3000	
4.5		Height, mast extended		h4 (mm)		3945		3945	
4.7		Height of overhead guard ST1 (Cabin)		h5 (mm)		2100(2455)		2100(2455)	
4.9		Stair height (stair height)		h6 (mm)		1000		1000	
4.12		Coupling height		h7 (mm)		520		520	
4.19		Overall length		l1 (mm)		2754		3034	
4.20		Length to face of forks		l2 (mm)		1834		1864	
4.21		Overall width		s1 (mm)		1080		1080	
4.22		Fork dimensions		s2 (mm)		351.00/320		351.00/320	
4.23		Fork ratings (FM15171 - 10) Z320, class type A/B		1502x328 2A		850x232x 2A		650x232x 2A	
4.24		Fork carriage width		b1 (mm)		1080		1080	
4.25		Distance between fork arms		b2 (mm)		200/1000		200/1000	
4.31		Ground clearance, laden, below mast		m1 (mm)		110		110	
4.32		Ground clearance, centre of wheelbase		m2 (mm)		110		110	
4.33		Aisle width for pallets 1000 x 1200 crossways		A1 (mm)		3158		3158	
4.34		Aisle width for pallets 800 x 1200 crossways		A2 (mm)		3280		3280	
4.35		Turning radius		W1 (mm)		1470		1470	
5.1		Tire speed, laden/unladen		km/h		1616		1616	
5.2		Lift speed, laden/unladen		mm/s		450/650		450/550	
5.3		Lowering speed, laden/unladen		mm/s		460/440		470/420	
5.5		Downlift pull, laden/unladen		N		3300 /4600		3800/3900	
5.6		Max. Downlift pull, laden/unladen		N		12000/12000		11600/11500	
5.7		Gradeability, laden/unladen		%		16.018		16.018	
5.8		Max. gradeability, laden/unladen		%		20/20		20/20	
5.9		Acceleration time, laden/unladen (0-10m)		s		4.5/4.1		4.7/4.3	
5.10		Service brake				4.6/4.2		4.8/4.4	
6.11		Parking brake							
6.1		Drive motor rating 52.60 min		kW		5x2 AC		5x2 AC	
6.2		Lift motor rating at 53.15%		kW		11AC		11AC	
6.3		Battery acc. to DIN 43531/316, A.B.C. no				no		no	
6.4		Battery voltage, nominal capacity KS		V/Ah		80/230		80/230	
6.9		Max. battery weight		kg		195		195	
8.1		Type of drive control		MOSEF/LAC		MOSEF/LAC		MOSEF/LAC	
8.2		Operating pressure for attachments		bar		150		150	
8.3		Oil volume for attachments		l (ml)		35		35	
8.4		Sound level at the driver's ear according to EN / DIN 12052		dB (A)		72		73	
8.5		Hoisting coupling type DIN		liter		Q6379m		Q6247m	
						33		33	
						Q6247m		Q6247m	
						33		33	
						Q6247m		Q6247m	
						33		33	
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						Q6247m		Q6247m	
						33		33	
						Q6247m		Q6247m	
						33		33	
						Q6247m		Q6247m	
						33		33	
						Q6247m		Q6247m	
						33		33	
						Q6247m		Q6247m	
						33		33	
						Q6247m		Q6247m	

EVE Battery Capacity/Permanent magnet synchronous			
Capacity (Ah)	1.3-1.5t	1.6-1.8t	2.0t
230	●		●
280	/	/	○
304	○	○	○
460	/	/	○

Note: ● Standard battery capacity, ○ Optional battery capacity, / Not available

CtLI Battery Capacity (Permanent magnet synchronous)			
Capacity (Ah)	1.5-1.5t	1.6-1.8t	2.0t
228	○	○	/
302	○	○	○
375	/	/	○

Size: ● Standard battery capacity ○ Optional battery capacity / Not available

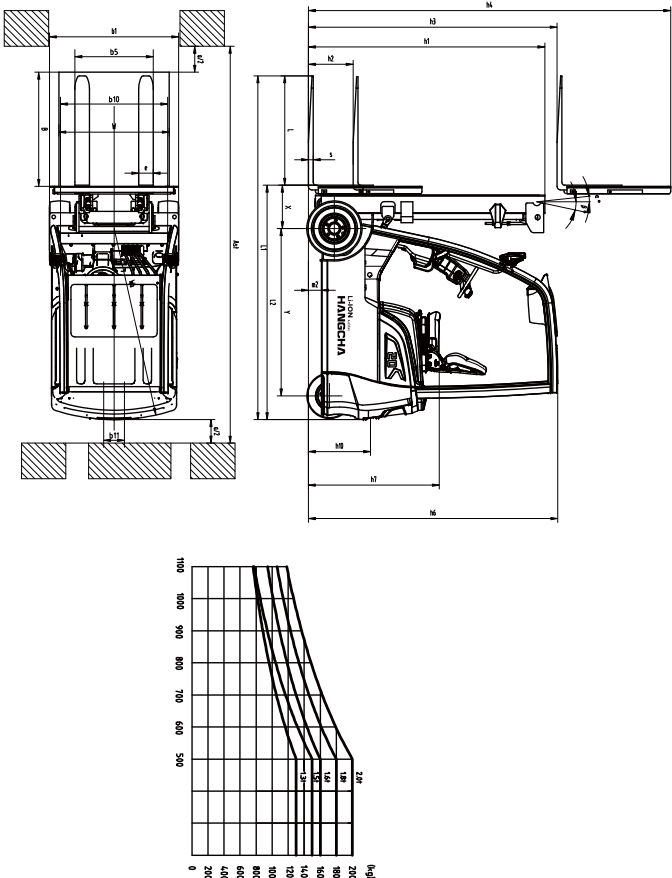
Note: ● Standard battery capacity; ○ Optional battery capacity; / Not available



XC Series 3-Wheel Electric Forklift Truck With Lithium Power Mast Specification

Type	Model	Lifting height mm	Lowered overall height mm	Overall height		Free lifting height		Tilt range		Capacity									
				With battery	Without battery	With battery	Without battery	F	R	1.3t	1.5t	1.6t	1.8t	2.0t	2.2t	2.4t	2.6t	2.8t	3.0t
2-stage wide view mast	M430	4300	2580	5245	4860	140	140	7	6	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
	M435	4350	2585	5245	4860	140	140	7	6	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
	M438	4380	2588	5248	4863	140	140	7	6	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
	M440	4400	2590	5250	4865	140	140	7	6	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
	M445	4450	2595	5255	4870	140	140	7	6	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
	M450	4500	2600	5260	4875	140	140	7	6	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
2-stage full-free lifting mast	U360	3600	2280	4445	4060.5	129.8	159.0	7	6	1300	1500	1600	1800	2000	2200	2400	2600	2800	3000
	U365	3650	2285	4450	4065.5	130.3	159.5	7	6	1300	1500	1600	1800	2000	2200	2400	2600	2800	3000
	U370	3700	2290	4455	4070.5	130.8	160.0	7	6	1300	1500	1600	1800	2000	2200	2400	2600	2800	3000
	U375	3750	2295	4460	4075.5	131.3	160.5	7	6	1300	1500	1600	1800	2000	2200	2400	2600	2800	3000
	U380	3800	2300	4465	4080.5	131.8	161.0	7	6	1300	1500	1600	1800	2000	2200	2400	2600	2800	3000
	U385	3850	2305	4470	4085.5	132.3	161.5	7	6	1300	1500	1600	1800	2000	2200	2400	2600	2800	3000
3-stage full-free lifting mast	M550	5500	2880	6455	6052	144.8	179.2	3.5	5	900	1100	1200	1400	1600	1800	2000	2200	2400	2600
	M555	5550	2885	6460	6057	145.3	179.7	3.5	5	900	1100	1200	1400	1600	1800	2000	2200	2400	2600
	M560	5600	2890	6465	6062	145.8	180.2	3.5	5	900	1100	1200	1400	1600	1800	2000	2200	2400	2600
	M565	5650	2895	6470	6067	146.3	180.7	3.5	5	900	1100	1200	1400	1600	1800	2000	2200	2400	2600
	M570	5700	2900	6475	6072	146.8	181.2	3.5	5	900	1100	1200	1400	1600	1800	2000	2200	2400	2600
	M575	5750	2905	6480	6077	147.3	181.7	3.5	5	900	1100	1200	1400	1600	1800	2000	2200	2400	2600

With sidestair minus 200kg, with integrated sidestair minus 200kg.



a=200mm

$$AST=a+Wd+\sqrt{(X+B)^2+(W/2)^2}$$

