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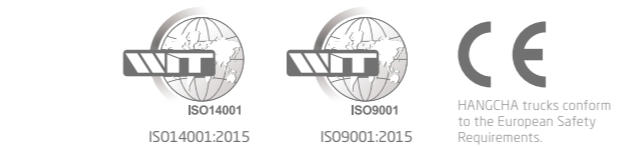
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# XC Series 3-Wheel Electric Forklift Truck With Lithium Power

with capacities of 1,300 to 2,000kg

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# 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-sliding 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

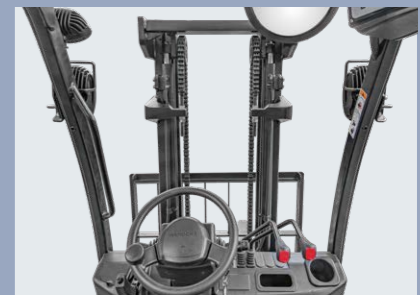
- / Owing to the low center of gravity and good stability, the driver feels comfortable during turning.
- / The intelligent sensing enables buffered descending. When the fork is 100 - 60mm away from the ground, the descending will automatically slow down, so that the goods and pallet will not hit the 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 lift her/his head, and the function buttons 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 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. The high fulcrum of the tilt cylinder enables better force bearing and more stable operation of the mast



The ergonomically designed tilt-adjustable small-diameter steering wheel makes 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, contactor, 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



Large-capacity CATL battery packs		
Tonnage	Std.	Opt.
1.3-1.8t	80V/228Ah	80V/302Ah
2.0t	80V/302Ah	80V/375Ah

## 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 MSG531 suspended seat
- / Dedicated lithium battery charger (Titan or Schneider)
- / Integrated fingertip control system including ergonomic armrests
- / Toolbox, folder



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

		HANGCHA GROUP CO.,LTD.				
		CPDS13-XCD8G-SI CPDS13-XCC2G-SI	CPDS15-XCD8G-SI CPDS15-XCC2G-SI	CPDS16-XCD8G-SI CPDS16-XCC2G-SI	CPDS18-XCD8G-SI CPDS18-XCC2G-SI	CPDS20-XCD8G-SI CPDS20-XCC2G-SI
Distinguishing mark	1.1	Manufacturer (abbreviation)				
	1.2	Manufacturers type designation				
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas				
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker				
	1.5	Load capacity/rated load				
Weight	1.6	Load capacity/rated load				
	1.7	Load centre distance				
	1.8	Load distance, centre of drive axle to fork				
	1.9	Wheelbase				
	2.1	Service Weight				
Tyres, chassis	2.2	Axle loading, laden front/rear				
	2.3	Axle loading, unladen front/rear				
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane				
	3.2	Tyre size, front				
	3.3	Tyre size, rear				
Dimensions	3.4	Wheels, number front rear (x = driven wheels)				
	3.5	Tread, front				
	3.6	Tread, rear				
	3.7	Tilt of mast/fork carriage forward/backward				
	4.1	Height, mast lowered				
	4.2	Free lift				
	4.3	Lift				
	4.4	Height, mast extended				
	4.5	Height of overhead guard STD.				
	4.6	Seat height/stand height				
Performance data	4.7	Coupling height				
	4.8	Overall length				
	4.9	Length to face of forks				
	4.10	Overall width				
	4.11	Fork dimensions				
	4.12	Fork carriage DIN 15 173 --- ISO 2328, class/type AB				
	4.13	Fork-carriage width				
	4.14	Distance between fork-arms				
	4.15	Ground clearance, laden, below mast				
	4.16	Ground clearance, centre of wheelbase				
Electric engine	4.17	Aisle width for pallets 1000 x 1200 crossways				
	4.18	Aisle width for pallets 800 x 1200 crossways				
	4.19	Turning radius				
	5.1	Travel speed, laden/unladen				
	5.2	Lift speed, laden/unladen				
	5.3	Lowering speed, laden/unladen				
	5.4	Drawbar pull, laden/unladen				
	5.5	Max. Drawbar pull, laden/unladen				
	5.6	Gradeability, laden/unladen				
	5.7	Max. gradeability, laden/unladen				
Addition data	5.8	Acceleration time, laden/unladen (0-10m)				
	5.9	Service brake				
	6.1	Parking brake				
	6.2	Drive motor rating S2 60 min				
	6.3	Lift motor rating at S3 15%				
	6.4	Battery acc. to DIN 43 531/35/36 A,B,C, no				
	6.5	Battery voltage, nominal capacity K5				
	6.6	Min. battery weight				
	6.7	Max. battery weight				
	8.1	Type of drive control				
8.2	Manufacturer					
8.3	Operating pressure for attachments					
8.4	Oil volume for attachments					
8.5	Sound level at the driver's ear according to EN / DIN 12 053					
9.1	Towing coupling, type DIN					
	9.1	Hydraulic Tank - capacity (drain & refill)				

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

Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilt range		Capacity				
				With backrest	Without backrest	With backrest	Without backrest	F	R	Load center@500mm				
		mm		mm		mm		°		1.3t	1.5t	1.6t	1.8t	2.0t
2-stage wide view mast	M250	2500	1738	3445	3060	140	140	7	6	1300	1500	1600	1800	2000
	M270	2700	1838	3645	3260	140	140	7	6	1300	1500	1600	1800	2000
	M300	3000	1988	3945	3560	140	140	7	6	1300	1500	1600	1800	2000
	M330	3300	2138	4245	3860	140	140	7	6	1300	1500	1600	1800	2000
	M350	3500	2238	4445	4060	140	140	7	6	1300	1500	1600	1800	2000
	M360	3600	2338	4545	4160	140	140	7	6	1300	1500	1600	1800	2000
	M400	4000	2588	4945	4560	140	140	7	6	1300	1500	1600	1800	2000
	M430	4300	2738	5245	4860	140	140	7	6	1200	1400	1500	1700	1900
2-stage full-free lifting mast	M450	4500	2838	5445	5060	140	140	7	6	1100	1300	1400	1600	1800
	U250	2500	1738	3445	3060.5	793	1090	7	6	1300	1500	1600	1800	2000
	U270	2700	1838	3645	3260.5	893	1190	7	6	1300	1500	1600	1800	2000
	U300	3000	1988	3945	3560.5	1043	1340	7	6	1300	1500	1600	1800	2000
	U330	3300	2138	4245	3860.5	1193	1490	7	6	1300	1500	1600	1800	2000
	U350	3500	2238	4445	4060.5	1293	1590	7	6	1300	1500	1600	1800	2000
	U360	3600	2288	4545	4160.5	1343	1640	7	6	1300	1500	1600	1800	2000
	U400	4000	2538	4945	4560.5	1593	1940	7	6	1300	1500	1600	1800	2000
3-stage full-free lifting mast	N400	4000	1888	4955	4552	943	1292	3.5	5	1300	1500	1600	1800	2000
	N430	4300	1988	5255	4852	1043	1392	3.5	5	1200	1400	1500	1700	1900
	N450	4500	2038	5455	5052	1093	1492	3.5	5	1100	1300	1400	1600	1800
	N470	4700	2113	5655	5252	1168	1492	3.5	5	1000	1200	1300	1500	1700
	N480	4800	2138	5755	5352	1193	1492	3.5	5	1000	1200	1300	1500	1700
	N500	5000	2213	5955	5552	1268	1592	3.5	5	900	1100	1200	1400	1600
	N550	5500	2388	6455	6052	1443	1792	3.5	5	800	1000	1100	1250	1500
	N600	6000	2588	6955	6552	1643	1992	3.5	5	700	900	1000	1100	1300
N650	6500	2788	7455	7052	1843	2192	3.5	5	530	730	800	950	1100	

