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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-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 smalldiameter steering wheel makes the driver feel good



The seat can be adjusted back and forth by 210mr
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
- / 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**

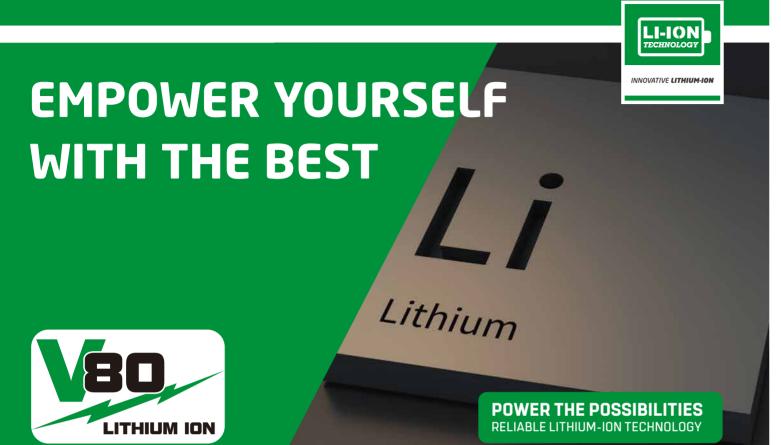
- / The optional descending lock function can disable the descending function when the driver leaves the seat, and enable high safety.
- / The standard configuration provides a fork descending buffering function. In addition, an optional electronic control function for buffering the fork's ascending 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 MSG531 suspended seat
- / Dedicated lithium battery charger
- / Integrated fingertip control system including ergonomic armrests
- / Toolbox, folder



# LITHIUM POWERED



# 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.



The high energy density of the Li-Ion battery ensures long



#### Cold area application

Li-lon 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



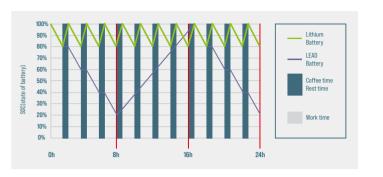
#### High energy density

working times and increases the high availability.



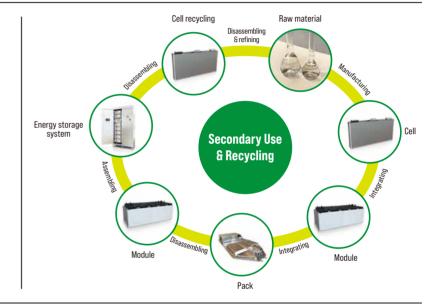
# **Efficiency**

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.





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

Charging temperature -30°C ~65°C -30°C ~65°C Discharge temperature: Storage environment temperature: -30 °C ~65 °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 50% 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.



#### 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.



#### 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 Overcurrent/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



#### **Equilibrium Management:**

Equalization based on voltage mode Equalization based on time mode Equalization based on battery cell SOC Active/passive equalization optional



#### Other Features:

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

## **Technical data**

	1.1	M6			1100	ICCUA CROUR CO	ITD	
	1.1	Manufacturer		CDDC13 VCC3C CI		CPDS16-XCC2G-SI	T	CPDS20-XCC2G-SI
po D	1.2	Manufacturers type designation		CPDS13-XCC2G -SI CPDS13-XCD8G-SI CPDS13-XCD8B1-SI	CPDS15-XCC2G-SI CPDS15-XCD8G-SI CPDS15-XCD8B1-SI	CPDS16-XCD8G-SI CPDS16-XCD8B1-SI CPDS16-XCD8G-SIF2	CPDS18-XCC2G-SI CPDS18-XCD8G-SI CPDS18-XCD8B1-SI	CPDS20-XCD8G-SI CPDS20-XCD8B1-SI CPDS20-XCD8G-SIFA
Distinguishing mark	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		electric	electric	electric	electric	electric
ngui	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		seated	seated	seated	seated	seated
Jisti	1.5	Load capacity/rated load	Q (kg)	1300	1500	1600	1800	2000
-	1.6	Load centre distance	c (mm)	500	500	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	360	360	360	360	365
	1.9	Wheelbase	y (mm)	1277	1277	1277	1347	1477
-	2.1	Service Weight	kg	2570	2930	3100	3350	3460
Weight	2.2	Axle loading, laden front/rear	kg	3420/450	3767/663	4011/689	4392/758	4596/864
3	2.3	Axle loading, unladen front/rear	kg	1185/1385	1258/1672	1335/1765	1447/1903	1533/1927
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		solid	solid	solid	solid	solid
is:	3.2	Tyre size, front		18x7 - 8	18x7 - 8	18x7 - 8	CZG-SI CPDS18-XCC2G-SI CPDS18-XCD8G-SI CPDS18-XCD8G-SI CPDS18-XCD8G-SI CPDS18-XCD8G-SI CPDS18-XCD8B1-SI (PDS18-XCD8B1-SI (PDS18-S) (PDS18-	200/50-10
Tyres, chassis	3.3	Tyre size, rear		15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	140/55-9	140/55-9
es, c	3.5	Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2	2x/2
_ ₹	3.6	Tread, front	b10 (mm)	914	914	914	914	932
	3.7	Tread, rear	b11 (mm)	178	178	178	212	212
	4.1	Tilt of mast/fork carriage forward/backward	Grad	7/6	7/6	7/6	7/6	7/6
	4.2	Height, mast lowered	h1 (mm)	1978	1978	1978	1978	1978
	4.3	Free lift	hz (mm)	145	145	145	145	145
	4.4	Lift	h₃ (mm)	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h4 (mm)	3945	3945	3945	3945	3945
	4.7	Height of overhead guard STD.(Cabin)	he (mm)	2100(2165)	2100(2165)	2100(2165)	2100(2165)	2100(2165)
	4.9	Seat height/stand height	h <sub>7</sub> (mm)	1000	1000	1000	1000	1000
	4.12	Coupling height	h10 (mm)	520	520	520	520	520
	4.19			2754	2754	2754	2824	3104
Dimensions	4.20	Length to face of forks	I <sub>2</sub> (mm)	1834	1834	1834	1904	2034
l len	4.21	Overall width	b1 (mm)	1080	1080	1080	1080	1149
ä	4.22	Fork dimensions	s/e/I (mm)	35/100/920	35/100/920	35/100/920		40/122/1070
	4.23	Fork carriage DIN 15 173 ISO 2328, class/type A,B		IS02328 2A	IS02328 2A	IS02328 2A	IS02328 2A	IS02328 2A
	4.24	Fork-carriage width	b₃ (mm)	1000	1000	1000	1000	1000
	4.25	Distance between fork-arms	bs (mm)	200/1000	200/1000	200/1000	200/1000	240/1000
	4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)	100	100	100	100	100
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	110	110	110		110
	4.33	Aisle width for pallets 1000 x 1200 crossways	A <sub>st</sub> (mm)	3158	3158	3158		3365
	4.34	Aisle width for pallets 800 x 1200 lengthways	A <sub>st</sub> (mm)	3280	3280	3280		3490
	4.35	Turning radius	W <sub>a</sub> (mm)	1470	1470	1470		1675
	5.1	Travel speed, laden/unladen	km/h	16/16	16/16	16/16	16/16	15/15
	5.2	Lift speed, laden/unladen	mm/s	450/600	450/600	450/600		400/550
, e	5.3	Lowering speed, laden/unladen	mm/s	460/440	460/440	460/440		470/420
dat	5.5	Drawbar pull, laden/unladen	N	3500 /4000	3400 /3950	3300/3900		3050/3700
ance	5.6	Max. Drawbar pull, laden/unladen	N N	12000/12000	12000/12000	11600/11500		11200/11000
Performance dat	5.7	Gradeability, laden/unladen	%	16/18	16/18	16/18		13/15
Perf	5.8	Max. gradeability, laden/unladen	%	20/20	20/20	20/20		15/18
	5.9	Acceleration time, laden/unladen (0-10m)	S	4.5/4.1	4.6/4.2	4.7/4.3		4.9/4.5
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic		Hydraulic
	5.11	Parking brake		Mechanical	Mechanical	Mechanical		Mechanical
	6.1	Drive motor rating S2 60 min	kW	5x2 AC	5x2 AC	5x2 AC		5x2 AC
يو ا	6.2	Lift motor rating at S3 15%	kW	15 AC	15 AC	15 AC		15 AC
l gir	6.3	Battery acc. to DIN 43 531/35/36 A,B,C, no	N.VV	no	U0	no no		U0
Electric-engine	6.4		V/Ah	80/230	80/230	80/230		80/280
lect.	6.8	Battery voltage, nominal capacity K5		195	195	195		280
		Min. battery weight	kg	230	230	230		350
-	6.9	Max. battery weight	kg		MOSFET/AC			
	8.1	Type of drive control		MOSFET/AC	·	MOSFET/AC		MOSFET/AC
<u> </u>		Manufacturer  Operating processes for attachments	h		1	I		
Addition data	8.2	Operating pressure for attachments	bar I/min	150	150	150		150
Ad ,	8.3	Oil volume for attachments	I/min	35	35	35		35 74
	8.4	Sound level at the driver's ear according to EN / DIN 12 053	dB (A)	72 4 24 Pin	72 024 Pin	73		
	8.5	Towing coupling, type DIN	liter	Φ24 Pin 33	Φ24 Pin 33	Φ24 Pin		Φ24 Pin
	9.1	Hydraulic Tank - capacity (drain & refill)	liter		٠,٠,٠	33	] 33	43

Note: # F2: Means the cold storage truck model F2 are suitable for use in cold storage environments down to -30 °C.

EVE Battery Capacity										
Capacity (Ah)	1.3-1.5t	1.6-1.8t	2.0t							
230	•	•	0							
280	/	1	•							
304	0	0	0							
460	/	1	0							

CATL Battery Capacity										
Capacity (Ah)	1.3-1.5t	1.6-1.8t	2.0t							
228	0	0	1							
302	0	0	0							
375	1	1	0							
5.5										

Note: • Standard battery capacity; O Optional battery capacity; / Not available

# **Technical data(Permanent magnet synchronous)**

	1.1	Manufacturer			HAN	NGCHA GROUP CO., L	.TD.	
bo.	1.2	Manufacturers type designation		CPDS13-XCY2G-SI CPDS13-XCY2B1-SI CPDS13-XCY2G-SIF2	CPDS15-XCY2G-SI CPDS15-XCY2B1-SI CPDS15-XCY2G-SIF2	CPDS16-XCY2G-SI CPDS16-XCY2B1-SI CPDS16-XCY2G-SIF2	CPDS18-XCY2G-SI CPDS18-XCY2B1-SI CPDS18-XCY2G-SIF2	CPDS20-XCY2G-S CPDS20-XCY2B1- CPDS20-XCY2G-SI
Distinguishing mark	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		electric	electric	electric	electric	electric
nark mark	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		seated	seated	seated	seated	seated
<u> </u>	1.5	Load capacity/rated load	Q (kg)	1300	1500	1600	1800	2000
	1.6	Load centre distance	c (mm)	500	500	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	360	360	360	360	365
	1.9	Wheelbase	y (mm)	1277	1277	1277	1347	1477
	2.1	Service Weight	kg	2570	2930	3100	3350	3460
Weight	2.2	Axle loading, laden front/rear	kg	3420/450	3767/663	4011/689	4392/758	4596/864
ž	2.3	Axle loading, unladen front/rear	kg	1185/1385	1258/1672	1335/1765	1447/1903	1533/1927
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		solid	solid	solid	solid	solid
S	3.2	Tyre size, front		18x7 - 8	18x7 - 8	18x7 - 8	200/50 - 10	
Tyres, chassis	3.3	Tyre size, rear		15x4.5 - 8	15x4.5 - 8	15x4.5 - 8	18x7 - 8 140/55-9	140/55-9
s, ct	3.5	Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2	2x/2
Syre	3.6	Tread, front	b10 (mm)	914	914	914	914	932
	3.7	Tread, rear	b11 (mm)	178	178	178	212	212
							7/6	7/6
	4.1	Tilt of mast/fork carriage forward/backward	Grad	7/6	7/6	7/6		
	4.2	Height, mast lowered	h1 (mm)	1978	1978	1978	1978	1978
	4.3	Free lift	hz (mm)	145	145	145	145	145
	4.4	Lift	h₃ (mm)	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h <sub>4</sub> (mm)	3945	3945	3945	3945	3945
	4.7	Height of overhead guard STD.(Cabin)	hs (mm)	2100(2165)	2100(2165)	2100(2165)	2100(2165)	2100(2165)
	4.9	Seat height/stand height	h <sub>7</sub> (mm)	1000	1000	1000	1000	1000
	4.12	Coupling height	h10 (mm)	520	520	520	520	520
SI	4.19	Overall length	lı (mm)	2754	2754	2754	2824	3104
Dimensions	4.20	Length to face of forks	Iz (mm)	1834	1834	1834	1904	2034
E.	4.21	Overall width	b1 (mm)	1080	1080	1080	1080	1149
ā	4.22	Fork dimensions	s/e/I (mm)	35/100/920	35/100/920	35/100/920	35/100/920	40/122/1070
	4.23	Fork carriage DIN 15 173 ISO 2328, class/type A,B		IS02328 2A	IS02328 2A	IS02328 2A	IS02328 2A	IS02328 2A
	4.24	Fork-carriage width	b₃ (mm)	1000	1000	1000	1000	1000
	4.25	Distance between fork-arms	bs (mm)	200/1000	200/1000	200/1000	200/1000	240/1000
	4.31	Ground clearance, laden, below mast	m1 (mm)	100	100	100	100	100
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	110	110	110	110	110
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	3158	3158	3158	3228	3365
	4.34	Aisle width for pallets 800 x 1200 crossways	Ast (mm)	3280	3280	3280	3350	3490
	4.35	Turning radius	W₃ (mm)	1470	1470	1470	1540	1675
	5.1	Travel speed, laden/unladen	km/h	16/16	16/16	16/16	16/16	15/15
	5.2	Lift speed, laden/unladen	mm/s	450/600	450/600	450/600	430/550	400/550
e.	5.3	Lowering speed, laden/unladen	mm/s	460/440	460/440	460/440	460/420	470/420
da1	5.5	Drawbar pull, laden/unladen	N	3500 /4000	3400 /3950	3300/3900	3200/3800	3050/3700
auce	5.6	Max. Drawbar pull, laden/unladen	N	12000/12000	12000/12000	11600/11500	11500/11400	11200/11000
Performance data	5.7	Gradeability, laden/unladen	%	16/18	16/18	16/18	15/17	13/15
Peri	5.8	Max. gradeability, laden/unladen	%	20/20	20/20	20/20	18/20	15/18
	5.9	Acceleration time, laden/unladen (0-10m)	S	4.5/4.1	4.6/4.2	4.7/4.3	4.8/4.4	4.9/4.5
		Service brake	3		Hydraulic	4.7/4.3 Hydraulic	Hydraulic	Hydraulic
	5.10			Hydraulic		,		-
	5.11	Parking brake	14.7	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
a	6.1	Drive motor rating S2 60 min	kW	5x2 AC	5x2 AC	5x2 AC	5x2 AC	5x2 AC
Electric-engine	6.2	Lift motor rating at S3 15%	kW	11AC	11AC	11AC	11AC	11AC
<u>ت</u>	6.3	Battery acc. to DIN 43 531/35/36 A,B,C, no		no	no	no	no	no
ectr	6.4	Battery voltage, nominal capacity K5	V/Ah	80/230	80/230	80/230	80/230	80/230
₩	6.8	Min. battery weight	kg	195	195	195	195	280
	6.9	Max. battery weight	kg	230	230	230	230	350
	8.1	Type of drive control		MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC
_		Manufacturer			Y2G/B:	1:means Enpower con	troller.	
itio at a	8.2	Operating pressure for attachments	bar	150	150	150	150	150
Addition data	8.3	Oil volume for attachments	I/min	35	35	35	35	35
	8.4	Sound level at the driver's ear according to EN / DIN 12 053	dB (A)	72	72	73	73	74
	8.5	Towing coupling, type DIN		Φ24 Pin	Φ24 Pin	Φ24 Pin	Φ24 Pin	Φ24 Pin

EVE Battery Capacity(Permanent magnet synchronous)									
Capacity (Ah) 1.3-1.5t 1.6-1.8t 2.0t									
•	•	•							
1	1	0							
0	0	0							
1	1	0							
	<u> </u>	<u> </u>							

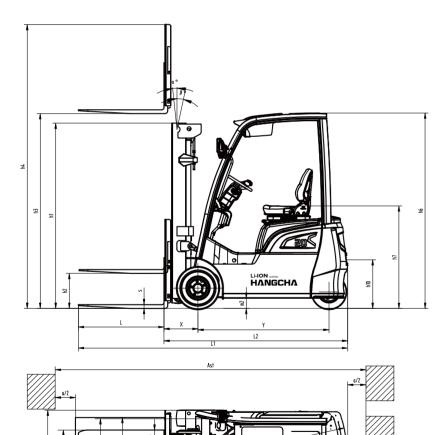
CATL Battery Capacity(Permanent magnet synchronous)											
Capacity (Ah)	1.3-1.5t	1.6-1.8t	2.0t								
228	0	0	1								
302	0	0	0								
375	1	1	0								
later a Standard baster, consider a Continual baster, consider / Material baster											

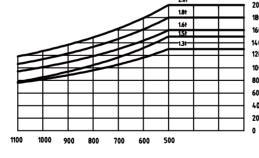
Note: • Standard battery capacity; O Optional battery capacity; / Not available

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

				Overal	l height	Free liftir	ng height	Tilt ra	ange			Capacity		
		Lifting height	Lowered overall	With	Without	With	Without				Lo	oad center@500m	m	
Туре	Model		height	backrest	backrest	backrest	backrest	F	R	1.3t	1.5t	1.6t	1.8t	2.0t
		mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg	kg	kg	kg
	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
e	M300	3000	1988	3945	3560	140	140	7	6	1300	1500	1600	1800	2000
wic	M330	3300	2138	4245	3860	140	140	7	6	1300	1500	1600	1800	2000
2-stage wide view mast	M350	3500	2238	4445	4060	140	140	7	6	1300	1500	1600	1800	2000
ie sta	M360	3600	2338	4545	4160	140	140	7	6	1300	1500	1600	1800	2000
, v	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
	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
e t	U270	2700	1838	3645	3260.5	893	1190	7	6	1300	1500	1600	1800	2000
2-stage full-free lifting mast	U300	3000	1988	3945	3560.5	1043	1340	7	6	1300	1500	1600	1800	2000
le fu	U330	3300	2138	4245	3860.5	1193	1490	7	6	1300	1500	1600	1800	2000
1 8 1 1 1	U350	3500	2238	4445	4060.5	1293	1590	7	6	1300	1500	1600	1800	2000
Z-s:	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
	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
ree t	N450	4500	2038	5455	5052	1093	1392	3.5	5	1100	1300	1400	1600	1800
l ≟ se	N470	4700	2113	5655	5252	1168	1492	3.5	5	1000	1200	1300	1500	1700
3-stage full-free lifting mast	N480	4800	2138	5755	5352	1193	1492	3.5	5	1000	1200	1300	1500	1700
f tage	N500	5000	2213	5955	5552	1268	1592	3.5	5	900	1100	1200	1400	1600
9-s :=	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

With sideshifter minus 200kg, with integrated sideshifer minus 200kg.





a=200mm

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

