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ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
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XC Series 3-W Electric Forklift Truck

with capacities of 1,300 to 2,000kg

The World of Hangcha
SINCE 1956



XC Series 3-W Electric Forklift Truck

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 C 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.

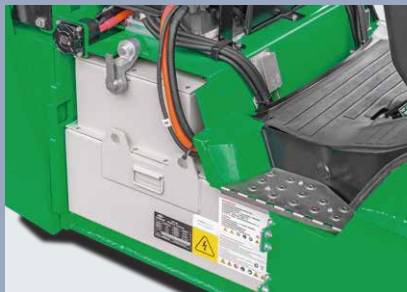


Excellent ergonomic design

- / 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.



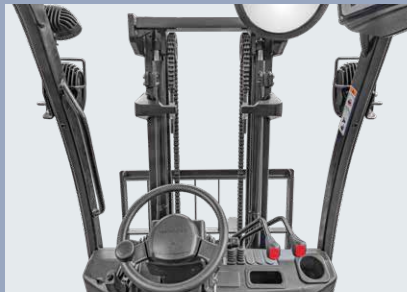
The dashboard in the driver's cab is placed overhead and can be seen when the driver lift her/his head, and the function buttons can be pressed easily



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

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.



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

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.



The ergonomically designed tilt-adjustable small-diameter steering wheel makes the driver feel good

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.



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

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.

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

Large-capacity CATL battery packs		
Tonnage	Std.	Opt.
1.3-1.8t	80V/202Ah	80V/271Ah
2.0t	80V/271Ah	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.

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
- / Charging muzzle meeting national standards
- / DC-DC converter
- / Electronic cooling fan
- / Doublet multiway valve
- / Emergency shut-off switch
- / Reversing buzzer
- / Traction pin
- / Toolbox, folder
- / 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



XC Series 3-W Electric Forklift Truck Specification

Distinguishing mark	1.1	Manufacturer (abbreviation)	HANGCHA GROUP CO.,LTD.									
	1.2	Manufacturers type designation	CPDS13-XCD4-SI	CPDS15-XCD4-SI	CPDS16-XCD4-SI	CPDS18-XCD4-SI	CPDS20-XCD4-SI	CPDS13-XCD6-SI	CPDS15-XCD6-SI	CPDS18-XCD6-SI	CPDS20-XCD6-SI	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	electric	electric	electric	electric	electric	electric	electric	electric	electric	electric
1.4	Operator type: hand, pedestrian, standing, seated, order-picker		seated	seated	seated	seated	seated	seated	seated	seated	seated	seated
	1.5	Load capacity/rated load	Q (kg)	1300	1500	1600	1800	2000	1300	1500	1600	2000
	1.6	Load centre distance	c (mm)	500	500	500	500	500	500	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	360	360	360	360	365	360	360	360	365
	1.9	Wheelbase	y (mm)	1270	1270	1270	1400	1270	1270	1270	1400	
Weight	2.1	Service Weight	kg	2570	2770	2940	3090	3200	2570	2770	2940	3200
	2.2	Axle loading, laden front/rear	kg	3420/450	3765/505	4010/530	4315/575	4580/620	3420/450	3765/505	4010/530	4315/575
	2.3	Axle loading, unladen front/rear	kg	1185/1385	1260/1510	1340/1600	1335/1755	1365/1835	1185/1385	1260/1510	1340/1600	1335/1755
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		solid	solid	solid	solid	solid	solid	solid	solid	solid
	3.2	Tyre size, front		18x7-8	18x7-8	18x7-8	18x7-8	200/50-10	18x7-8	18x7-8	18x7-8	200/50-10
	3.3	Tyre size, rear		15x4.5-8	15x4.5-8	15x4.5-8	15x4.5-8	15x4.5-8	15x4.5-8	15x4.5-8	15x4.5-8	15x4.5-8
	3.5	Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2
	3.6	Tread, front	b10 (mm)	914	914	914	914	932	914	914	914	932
	3.7	Tread, rear	b11 (mm)	178	178	178	178	178	178	178	178	178
	4.1	Tilt of mast/fork carriage forward/backward	Grad	7/6	7/6	7/6	7/6	7/6	7/6	7/6	7/6	7/6
Dimensions	4.2	Height, mast lowered	h1 (mm)	1978	1978	1978	1978	1978	1978	1978	1978	1978
	4.3	Free lift	h2 (mm)	140	140	140	140	140	140	140	140	140
	4.4	Lift	h3 (mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h4 (mm)	3945	3945	3945	3945	3945	3945	3945	3945	3945
	4.7	Height of overhead guard STD.	h6 (mm)	2100	2100	2100	2100	2040	2040	2040	2040	2040
	4.9	Seat height/stand height	h7 (mm)	1030	1030	1030	1030	1030	1000	1000	1000	1000
	4.12	Coupling height	h10 (mm)	520	520	520	520	520	520	520	520	520
	4.19	Overall length	l1 (mm)	2760	2760	2760	3040	2760	2760	2760	3040	3040
	4.20	Length to face of forks	l2 (mm)	1840	1840	1840	1840	1840	1840	1840	1840	1970
	4.21	Overall width	b1 (mm)	1086	1086	1086	1086	1120	1086	1086	1086	1120
	4.22	Fork dimensions	s/e/l (mm)	35/100/920	35/100/920	35/100/920	35/100/920	40/122/1070	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		ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A
	4.24	Fork-carriage width	b3 (mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
	4.25	Distance between fork-arms	b5 (mm)	220/1000	220/1000	220/1000	220/1000	220/1000	200/1000	200/1000	200/1000	240/1000
	4.31	Ground clearance, laden, below mast	m1 (mm)	100	100	100	100	100	100	100	100	100
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	110	110	110	110	110	110	110	110	110
	4.33	Aisle width for pallets 1000 x 1200 crossways	A11 (mm)	3252	3252	3252	3252	3382	3252	3252	3252	3382
	4.34	Aisle width for pallets 800 x 1200 crossways	A11 (mm)	3375	3375	3375	3375	3405	3375	3375	3375	3405
	4.35	Turning radius	W1 (mm)	1470	1470	1470	1470	1600	1470	1470	1470	1600
Performance data	5.1	Travel speed, laden/unladen	km/h	16/16	16/16	16/16	16/16	15/15	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	450/600	450/600	430/550	400/550
	5.3	Lowering speed, laden/unladen	mm/s	460/420	460/420	460/420	460/440	470/420	460/440	460/440	460/420	470/420
	5.5	Drawbar pull, laden/unladen	N	3200/3800	3200/3800	3200/3800	3200/3800	3050/3700	3500 /4000	3400 /3950	3300/3900	3200/3800
	5.6	Max. Drawbar pull, laden/unladen	N	11500/11400	11500/11400	11500/11400	11500/11400	11200/11000	12000/12000	12000/12000	11600/11500	11500/11400
	5.7	Gradeability, laden/unladen	%	15/17	15/17	15/17	15/17	13/15	16/18	16/18	15/17	13/15
	5.8	Max. gradeability, laden/unladen	%	18/20	18/20	18/20	18/20	15/18	20/20	20/20	18/20	15/18
	5.9	Acceleration time, laden/unladen (0-10m)	s	4.8/4.4	4.8/4.4	4.8/4.4	4.8/4.4	4.9/4.5	4.5/4.1	4.6/4.2	4.7/4.3	4.8/4.4
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	5.11	Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Combustion engine	6.1	Drive motor rating S2 60 min	kW	4.75x2 AC	4.75x2 AC	4.75x2 AC	4.75x2 AC	5x2 AC	5x2 AC	5x2 AC	5x2 AC	5x2 AC
	6.2	Lift motor rating at S3 15%	kW	15 AC	15 AC	15 AC	15 AC	15 AC	15 AC	15 AC	15 AC	15 AC
	6.3	Battery acc. to DIN 43 531/35/36 A,B,C, no		DIN43531 A	DIN43531 A	DIN43531 A	DIN43531 A	DIN43531 A	DIN43531 A	DIN43531 A	DIN43531 A	DIN43531 A
	6.4	Battery voltage, nominal capacity KS	V/Ah	80/202	80/202	80/202	80/202	80/271	80/202	80/202	80/202	80/271
	6.5	Battery weight	kg	220	220	220	220	300	220	220	220	300
	6.8	Min. battery weight	kg	200	200	200	200	280	200	200	200	280
	6.9	Max. battery weight	kg	300	300	300	300	350	300	300	300	350
Addition data	8.1	Type of drive control		MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC
		Manufacturer		Inmotion	Inmotion	Inmotion	Inmotion	Inmotion	Inmotion	Inmotion	Inmotion	Inmotion
		Type		(ACS80S-23P+ACS80S-35P)+ACS80M-35P					(ACS48S23P+ACS48S-35P)+ACS48S+-35P			
	8.2	Operating pressure for attachments	bar	150	150	150	150	150	150	150	150	150
	8.3	Oil volume for attachments	l/min	35	35	35	35	35	35	35	35	35
	8.4	Sound level at the driver's ear according to EN / DIN 12 053	dB (A)	74	74	74	74	72	72	73	73	74
	8.5	Towing coupling, type DIN		Φ24 Pin	Φ24 Pin	Φ24 Pin	Φ24 Pin	Φ24 Pin	Φ24 Pin	Φ24 Pin	Φ24 Pin	Φ24 Pin
	9.1	Hydraulic Tank - capacity (drain & refill)	liter	33	33	33	33	43	33	33	33	43

Note:XCD4: means INMOTION AC traveling system with AC Pump system, full-AC system, Okamura reducer and HEPU traveling motor
XCD6: means NMOTION AC traveling system with AC Pump system, full-AC system, ZF reducer and KDS traveling motor

XC Series 3-W Electric Forklift Truck 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					Load center@500mm mast max forward				
		mm	mm	mm	mm	mm	mm	(°)	(°)	1.3t	1.5t	1.6t	1.8t	2.0t	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	1027	1185	1264	1422	1580
	M270	2700	1838	3645	3260	140	140	7	6	1300	1500	1600	1800	2000	1009	1164	1242	1397	1553
	M300	3000	1988	3945	3560	140	140	7	6	1300	1500	1600	1800	2000	983	1134	1210	1361	1513
	M330	3300	2138	4245	3860	140	140	7	6	1300	1500	1600	1800	2000	959	1106	1180	1327	1475
	M350	3500	2238	4445	4060	140	140	7	6	1300	1500	1600	1800	2000	943	1088	1161	1306	1451
	M360	3600	2338	4545	4160	140	140	7	6	1300	1500	1600	1800	2000	936	1080	1152	1296	1440
	M400	4000	2588	4945	4560	140	140	7	6	1300	1500	1600	1800	2000	1017	1174	1252	1409	1565
2-stage full-free lifting mast	M430	4300	2738	5245	4860	140	140	7	6	1200	1400	1500	1700	1900	924	1078	1155	1309	1463
	M450	4500	2838	5445	5060	140	140	7	6	1100	1300	1400	1600	1800	837	989	1065	1218	1370
	U250	2500	1738	3445	3060.5	793	1090	7	6	1300	1500	1600	1800	2000	1027	1185	1264	1422	1580
	U270	2700	1838	3645	3260.5	893	1190	7	6	1300	1500	1600	1800	2000	1009	1164	1242	1397	1553
	U300	3000	1988	3945	3560.5	1043	1340	7	6	1300	1500	1600	1800	2000	983	1134	1210	1361	1513
	U330	3300	2138	4245	3860.5	1193	1490	7	6	1300	1500	1600	1800	2000	959	1106	1180	1327	1475
	U350	3500	2238	4445	4060.5	1293	1590	7	6	1300	1500	1600	1800	2000	943	1088	1161	1306	1451
3-stage full-free lifting mast	U360	3600	2288	4545	4160.5	1343	1640	7	6	1300	1500	1600	1800	2000	936	1080	1152	1296	1440
	U400	4000	2538	4945	4560.5	1593	1940	7	6	1300	1500	1600	1800	2000	1017	1174	1252	1409	1565
	N400	4000	1888	4955	4552	943	1292	3.5	5	1300	1500	1600	1800	2000	1017	1174	1252	1409	1565
	N430	4300	1988	5255	4852	1043	1392	3.5	5	1200	1400	1500	1700	1900	924	1078	1155	1309	1463
	N450	4500	2038	5455	5052	1093	1392	3.5	5	1100	1300	1400	1600	1800	837	989	1065	1218	1370
	N480	4800	2138	5755	5352	1193	1492	3.5	5	1000	1200	1300	1500	1700	749	899	974	1124	1273
	N500	5000	2213	5955	5552	1268	1592	3.5	5	900	1100	1200	1400	1600	667	815	889	1038	1186
	N550	5500	2388	6455	6052	1443	1792	3.5	5	800	1000	1100	1250	1500	577	722	794	902	1083
	N600	6000	2588	6955	6552	1643	1992	3.5	5	700	900	1000	1100	1300	492	633	704	774	915
	N650	6500	2788	7455	7052	1843	2192	3.5	5	530	730	800	950	1100	363	501	549	652	755