



X Series Electric Forklift Truck

with capacities of 4,000 to 5,000kg



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ISO45001
ISO45001:2018



ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform to the European Safety Requirements.

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The World of Hangcha





Exterior

- / A new exterior design method is used to form a stylish and elegant exterior with streamlined curved surfaces and smooth ethereal lines.
- / The vehicle is compact, simple and sturdy in appearance.
- / A fully enclosed console space.
- / Fully open side door.

Stability

- / The drive motor is arranged in parallel, the battery is placed at the bottom of the vehicle frame, the wheelbase and rear wheel pitch are increased, the swing point of the steering axle is raised, and the distance between the front of the fork and the front axle is reduced, to enable excellent stability.

Comfort

- / In accordance with the ergonomically design, the wheelbase is increased to enable enlarged leg space. The radius of the hand wheel is reduced to 300mm and the seat can be adjusted backwards and forwards, so that the operator can choose the best driving position.
- / The dashboard, tilt cylinder and flat bottom panel are designed to be fully enclosed to enable more comfortable and safer operations.
- / The multifunctional color-screen instruments have clear human-computer interfaces displaying clear readings.
- / Personalized design: increased storage space, USB port, etc.

Safety

- / The optimized design of the wide-view mast, wide-view overhead guard and low dashboard enables a broader view of the operator and higher safety.
- / The LED headlights and combination lights enable the operator to have a good view in various circumstances.
- / The all-round vision rearview mirror provides a broader rear view and higher driving safety.
- / 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.
- / The electronic and hydraulic overload protection devices comply with safety regulations.
- / An optional OPS safety system is provided.



High speed, high efficiency

- / With increased turning angle and small turning radii of the inner and outer steering wheels, the vehicle can operate in narrow aisles.
- / With several speed gears, the vehicle is adapted to different operating environments.
- / With a high-power driving motor and a high speed ratio gearbox, a large-tonnage 5t vehicle, for example, can have its maximum driving speed increased to 16.5km/h and maximum full-load upslope degree increased by up to 15%.
- / A high-power oil pump motor and a large-displacement silent pump are used to significantly improve the lifting speed. A large-tonnage 5t vehicle, for example, can have its maximum full-load lifting speed increased to 310mm/s.
- / With reduced distance between the front of the fork and the front axle and other new stability-enhancing technologies, the load capacity of the attachments and high-lift mast of the forklift is significantly improved.
- / A new compact design concept is adopted to reduce the width of the vehicle.
- / Light weight and low driving power consumption. The brake kinetic energy regeneration system effectively saves on electric power and improves the use time after a single charge.

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 branded multifunctional color-screen instruments have the functions of battery display, timer and fault diagnosis and can accurately display information under harsh environments.
- / The branded AC controller enables the forklift's driving, steering, lifting, tilting and other actions to be controlled by a computer.
- / Regenerative braking (when stopping, slowing down, reversing or driving down a ramp, etc., being energy-saving and efficient, the forklift can have its drive motor working as a power generator to charge the battery through the controller.)
- / The main electrical components such as the motor controller, contactor, power plug and emergency cut-off switch are all branded high-quality products.

Maintainability

- / The fully opened hood quite facilitates the maintenance of the battery, oil pump motor and electric control assembly.
- / The foot panel can be dismantled without a tool and facilitates the overhaul and maintenance of the driving motor and various systems.
- / The brake fluid can be added after the shroud cap and the oil tank cap are opened.
- / An optional laterally-dismounted battery is provided to enable quick replacement of the battery.

Battery Specification

Battery	Capacity (Ah/5h)	4t	4.5t	mini5t	5t
Lead-acid	600	●			
	700	○	●	●	●
	775	○	○	○	○
CATL Lithium	542	●	●	●	●
	604	○	○	○	○

Note: ● Battery Std; ○ Battery Opt;

Options

- / Super-elastic solid tire
- / Seamless solid tire
- / Triple and quadruple multiway valves
- / Alarm light
- / Rear LED operation light
- / Blue light
- / Rear reversing armrest horn button
- / Large-capacity battery
- / PVC ceiling
- / Battery charger
- / Chair sensing system
- / Electro-hydraulic proportional valve, thumb switch
- / Video monitoring system
- / Fully-suspended seat
- / Fully enclosed cab
- / Left and right rear view mirrors
- / Free duplex mast
- / Free triplex mast
- / Built-in side shift fork
- / Forks of other lengths
- / Widened fork carriage
- / Other attachments
- / Battery removed sideways
- / Tool box, folder

Standard specification

- / AC electric control motor
- / Emergency power off switch
- / Multifunctional color-screen instruments
- / Pneumatic tire
- / Mechanical handbrake
- / Two-way multi-way valve
- / Rubber pedal pads of all sizes
- / 3 m duplex wide-field-of-view mast
- / Vehicle LED lights
- / Panoramic rear view mirror
- / Fully hydraulic power steering
- / Angle-adjustable steering column
- / Horn, reversing buzzer
- / Silent gear pump
- / Intelligent descending buffering device
- / Traction pin



Mast Specification

Type	Max. fork height	Lowered	Overall height		Free lift		Tilt range		Capacity		
			With backrest	Without backrest	With backrest	Without backrest	F	R	load capacity at 600mm		
									Single tire		
	mm	mm	mm	mm	mm	mm	(°)	(°)	5t		
	mm	mm	mm	mm	mm	mm	(°)	(°)	kg		
STD Duplex	2700	2250	3930	3600	160	160	5	10	5000		
	3000	2350	4230	3873	160	160	5	10	5000		
	3300	2500	4530	4173	160	160	5	10	5000		
	3700	2825	4930	4675	160	160	5	10	5000		
	4000	2975	5230	4975	160	160	5	10	5000		
	4500	3300	5730	5550	160	160	5	6	5000		
	5000	3500	6230	6050	160	160	5	6	5000		
	5500	3800	6730	6550	160	160	5	6	4950		
	6000	4050	7230	7050	160	160	5	6	4600		
	7000	4500	8230	8050	160	160	5	6	3600		
Full Free Lift	2800	2250	4030	3648	1020	1402	5	10	5000		
	3000	2350	4230	3850	1120	1502	5	10	5000		
	3300	2500	4530	4150	1270	1652	5	10	5000		
	3700	2700	4930	4550	1470	1852	5	10	5000		
	4000	2925	5230	4925	1695	2077	5	10	5000		
Triplex	4050	2180	5280	4898	950	1332	5	6	5000		
	4300	2250	5530	5148	1020	1402	5	6	5000		
	4500	2315	5730	5348	1085	1467	5	6	5000		
	4700	2415	5930	5548	1185	1567	5	6	4970		
	5000	2500	6230	5848	1270	1652	5	6	4890		
	5500	2850	6730	6550	1620	2002	5	6	4750		
	6000	3125	7230	7125	1895	2277	5	6	4610		
	6500	3325	7730	7625	2095	2477	5	6	3850		
	7000	3450	8230	8230	2220	2602	3	6	3600		

Mast Specification

Type	Max. fork height	Lowered	Overall height		Free lift		Tilt range		Capacity		
			With backrest	Without backrest	With backrest	Without backrest	F	R	load capacity at 500mm		
									Single tire		
	mm	mm	mm	mm	mm	mm	(°)	(°)	4t	4.5t	5t
	mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg	kg
STD Duplex	2650	2075	3820	3443	150	150	5	10	4000	4500	4990
	3000	2250	4170	3793	150	150	5	10	4000	4500	4990
	3300	2400	4470	4093	150	150	5	10	4000	4500	4990
	3700	2600	4870	4493	150	150	5	10	4000	4500	4990
	4000	2825	5170	4825	150	150	5	10	4000	4500	4990
	4500	3075	5670	5325	150	150	5	6	4000	4500	4990
	5000	3400	6170	5900	150	150	5	6	4000	4500	4990
	5500	3650	6670	6400	150	150	5	6	3950	4450	4950
	6000	3900	7170	6900	150	150	5	6	3700	4200	4600
	7000	4500	8170	7774	2130	2526	3	6	2800	3000	3200
Full Free Lift	2650	2075	3820	3419	905	1306	5	10	4000	4500	4990
	3000	2250	4170	3769	1080	1481	5	10	4000	4500	4990
	3300	2400	4470	4069	1230	1631	5	10	4000	4500	4990
	3700	2600	4870	4469	1430	1831	5	10	4000	4500	4990
	4000	2825	5170	4825	1655	2056	5	10	4000	4500	4990
Triplex	4300	2180	5470	5074	1010	1406	5	6	4000	4500	4990
	4500	2250	5670	5274	1080	1476	5	6	4000	4500	4990
	4700	2315	5870	5615	1145	1541	5	6	4000	4500	4990
	5000	2450	6170	5950	1280	1676	5	6	4000	4470	4850
	5500	2600	6670	6300	1430	1826	5	6	3850	4340	4700
	6000	2825	7170	6825	1655	2051	5	6	3710	4210	4550
	6500	3075	7670	7274	1905	2301	5	6	3400	3650	3900
	7000	3300	8170	7774	2130	2526	3	6	2800	3000	3200

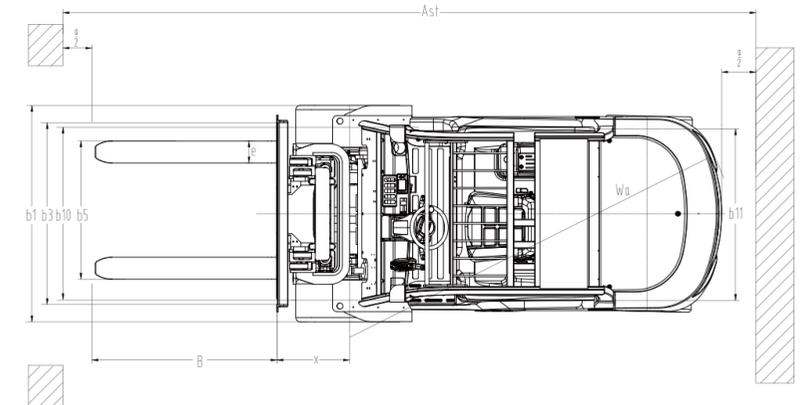
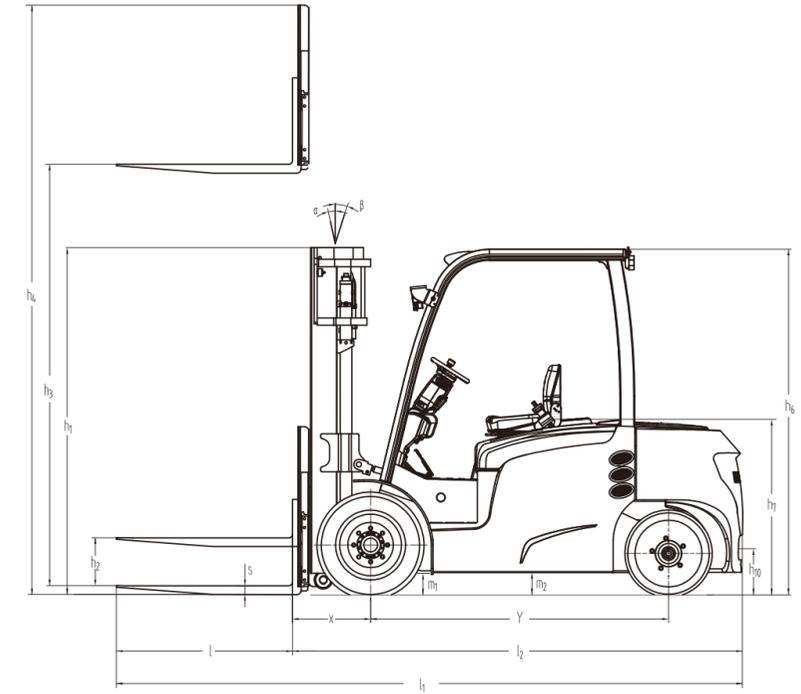
Note: With load backrest. Height of standard load backrest is 1092 mm.

Model	Pneumatic tyres and dimensions spec.				Solid tyres and dimensions spec.			
	Tyre size, front	Tyre size, rear	Tread, front(b10)	Overall width(b1)	Tyre size, front	Tyre size, rear	Tread, front(b10)	Overall width(b1)
CPD40-45	250-15-18PR(single tyre)	● 23×9-10-18PR	● 1150	1385	250-15(single tyre)	○ 23×9-10	○ 1150	1385
	7.00-15-14PR(dual tyre)	● 23×9-10-18PR	● 1304	1744	7.00-15(dual tyre)	○ 23×9-10	○ 1304	1732
CPD50X-50	28×12.5-15-24PR(single tyre)	● 23×9-10-18PR	● 1182	1494	28×12.5-15(single tyre)	○ 23×9-10	○ 1182	1494
	7.00-15-14PR(dual tyre)	○ 23×9-10-18PR	● 1343	1783	7.00-15(dual tyre)	○ 23×9-10	○ 1343	1771

Note: ● Std. ○ Opt.

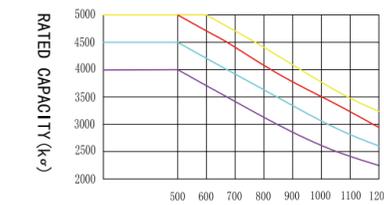
X Series 4.0-5.0t Electric Forklift Specification

Distinguishing mark	HANGCHA GROUP CO.,LTD.								
	CPD40-XC4 CPD40-XD2	CPD45-XC4 CPD45-XD2	CPD50-XXC4 CPD50-XD2	CPD50-XC4 CPD50-XD2	CPD40-XC4-I CPD40-XD2-I	CPD45-XC4-I CPD45-XD2-I	CPD50-XXC4-I CPD50-XD2-I	CPD50-XC4-I CPD50-XD2-I	CPD50-XXC4-I CPD50-XD2-I
1.1	Manufacturer								
1.2	Manufacturer's 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	Rated capacity/rated load								
1.6	Load centre distance								
1.8	Load distance, centre of drive axle to fork								
1.9	Wheelbase								
2.1	Service Weight								
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								
3.5	Wheels, number front / rear (x = driven wheels)								
3.6	Tread, front								
3.7	Tread, rear								
4.1	Tilt of mast/fork carriage forward/backward								
4.2	Height, mast lowered								
4.3	Free lift								
4.4	Lift								
4.5	Height, mast extended								
4.7	Height of overhead guard (cabin)								
4.8	Seat height/stand height								
4.12	Coupling height								
4.19	Overall length								
4.20	Length to face of forks								
4.21	Overall width								
4.22	Fork dimensions								
4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B								
4.24	Fork-carriage width								
4.25	Distance between fork-arms								
4.31	Ground clearance, laden, below mast								
4.32	Ground clearance, centre of wheelbase								
4.34.1	Aisle width for pallets 1000 x 1220 crossways								
4.34.2	Aisle width for pallets 1200*1000 lengthways								
4.35	Turning radius								
5.1	Travel speed, laden/unladen								
5.2	Lift speed, laden/unladen								
5.3	Lowering speed, laden/unladen								
5.6	Max. Drawbar pull								
5.8	Max. gradeability, laden/unladen								
5.10	Service brake								
	Parking brake								
6.1	Drive motor rating S2 60 min								
6.2	Lift motor rating at S3 15%								
6.3	Battery acc. to DIN 43531/35/36 A,B,C, no								
6.4	Battery voltage, nominal capacity K5								
6.5	Battery weight								
	Battery dimensions								
	Max. battery weight								
	Min. battery weight								
8.1	Type of drive unit								
9.1	Manufacturer/Type								
10.1	Operating pressure for attachments								
10.2	Oil volume for attachments								
10.3	Hydraulic Tank - capacity (drain & refill)								
10.7	Sound pressure level at the driver's seat								
10.8	Towing coupling, type DIN 15170								



As1=B+x+Wa+0 B: load length a: Clearance (200mm)

RATED CAPACITY AND LOAD DIAGRAM



LOAD CENTER DISTANCE (mm)