



## X Series Electric Forklift Truck

with capacities of 6,000 to 10,000kg



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ISO14001:2015



ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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## 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.

## Stability

- / Small-diameter solid tires, front and rear battery sets and other technologies are used to enable excellent stability of the vehicle.



## Comfort

- / The inclination angle of the ergonomically designed hand wheel is adjustable and the seat can be adjusted 150mm forwards and backwards, so that the operator can choose the best driving position.
- / Two independent hydraulic systems for steering braking and hydraulic lifting respectively are used to ensure the steering braking performance and the combined operations to be carried out.
- / 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: overlarge storage bin, 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.

## Maintainability

- / The fully open front and rear battery lids easily facilitate battery maintenance.
- / The innovative two-door structure with one door, respectively, on the left and right sides of the forklift easily facilitates the maintenance of the motor, oil pump and electric control of the forklift and enables good resistance to dust and water.
- / 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.





## 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.

## High speed, high efficiency

- / With several speed gears, the vehicle is adapted to different operating environments.
- / With a high-power driving motor and a high speed ratio gearbox, an 8t vehicle, for example, can have its maximum full-load driving speed increased to 14.5km/h and maximum full-load upslope degree increased by up to 14%.
- / A high-power oil pump motor and a large-displacement silent pump are used to significantly improve the lifting speed. An 8t vehicle, for example, can have its maximum full-load lifting speed increased to 300mm/s.
- / 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.

## Battery Specification

Battery	Capacity (Ah/5h)	6t	7t	8t	big8t	9t	10t
Lead-acid	720	●					
	810	○	●				
	945	○	○	●	●		
	1035		○	○			
	1104				○	●	
	1260				○	○	●
Lithium	1380				○	○	○
	542	●	●	●			
	606	○	○	○	●	●	●
	813	○	○	○	○	○	○

Note: ● Battery Std; ○ Battery Opt;

## Options

- / 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
- / Forks of other lengths
- / Heightened or widened fork carriage
- / Other attachments
- / Double front wheels
- / Battery removed sideways

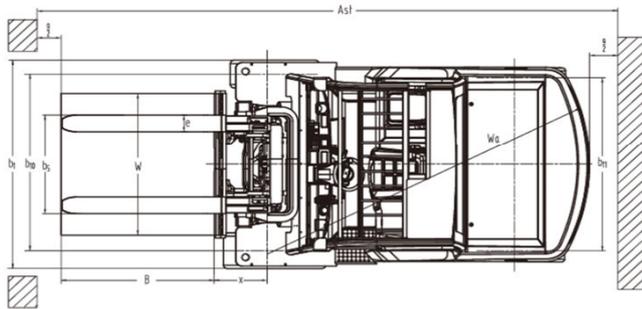
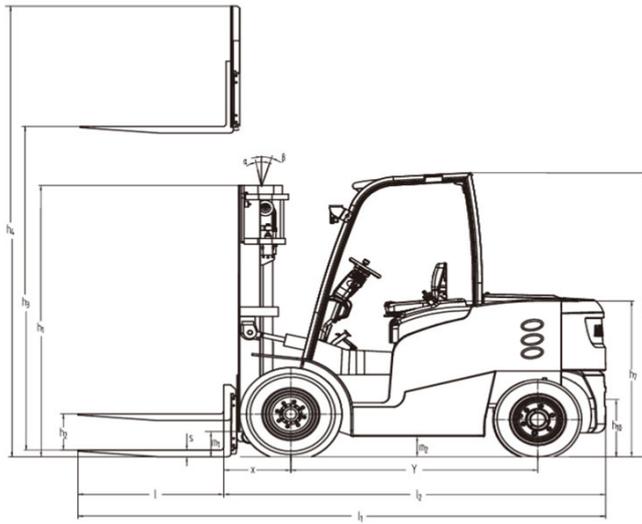
## Standard specification

- / AC electric control motor
- / Emergency power off switch
- / Multifunctional color-screen instruments
- / Super-elastic solid tire
- / 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
- / Large tool box, folder
- / Intelligent descending buffering device
- / Traction pin
- / Silent gear pump



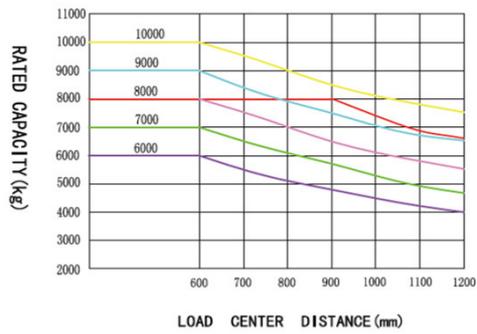






$As_1 = B + x + W + a$      $B$ : Length of load or forks which is longer     $a = 200\text{mm}$  safety clearance

**RATED CAPACITY AND LOAD DIAGRAM**



## 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	
			mm	mm	mm	mm	mm	mm	(°)	(°)
STD_Duplex	2500	2250	3907	3495/3667	160	160	5	10	6000	7000
	2700	2350	4107	3695/3867	160	160	5	10	6000	7000
	3000	2500	4407	3995/4167	160	160	5	10	6000	7000
	3300	2650	4707	4295/4467	160	160	5	10	6000	7000
	3600	2800	5007	4595/4767	160	160	5	10	6000	7000
	4000	3000	5407	4995/5167	160	160	5	10	6000	7000
	4300	3200	5707	5300/5467	160	160	5	8	5900	6900
	4500	3300	5907	5500/5667	160	160	5	8	5800	6700
	4800	3450	6207	5800/5967	160	160	5	8	5700	6500
	5000	3550	6407	6000/6167	160	160	5	8	5200	6200
Full Free Lift	2500	2185	3637	3455/3615	1048	1230/1070	5	8	6000	7000
	2700	2300	3837	3655/3815	1163	1345/1185	5	8	6000	7000
	3000	2450	4137	3955/4115	1313	1495/1335	5	8	6000	7000
	3300	2600	4437	4255/4415	1463	1645/1485	5	8	6000	7000
	3600	2750	4737	4555/4715	1613	1795/1635	5	8	6000	7000
	4000	2950	5137	4955/5115	1813	1995/1835	5	8	6000	7000
Triplex	4500	2725	5907	5735	1328	1500	5	8	5500	6400
	4800	2825	6207	6035	1428	1600	5	8	5500	6300
	5000	2875	6407	6213	1478	1672	5	8	5400	6300
	5500	3075	6907	6785	1678	1800	5	8	5200	6100
	6000	3225	7407	7235	1828	2000	5	8	5000	5700
	6500	3375	7907	7713	1978	2172	5	8	4500	5300

## 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		load capacity at 900mm
			mm	mm	mm	mm	mm	mm	(°)	(°)	9t kg
STD_Duplex	2500	2450	4030	3900	200	200	5	8	9000	10000	8000
	2700	2550	4230	4100	200	200	5	8	9000	10000	8000
	3000	2700	4530	4400	200	200	5	10	9000	10000	8000
	3300	2850	4830	4700	200	200	5	10	9000	10000	8000
	3600	3000	5130	5000	200	200	5	10	8900	9900	7900
	4000	3200	5530	5400	200	200	5	10	8700	9700	7700
	4300	3400	5830	5700	200	200	5	8	8500	9500	7500
	4500	3500	6030	5900	200	200	5	8	8500	9500	7500
	4800	3650	6330	6200	200	200	5	8	8200	9200	7200
	5000	3750	6530	6440	200	200	5	8	8200	9200	7200
Full Free Lift	3000	2700	4530	4400	1180	1310	5	8	9000	10000	8000
	3300	2850	4830	4700	1330	1460	5	8	9000	10000	8000
	3600	3000	5130	5000	1480	1610	5	8	8900	9900	7900
	4000	3200	5530	5400	1680	1810	5	8	8700	9700	7700
	4500	2850	6045	6045	1305	1305	5	8	7850	8850	6850
	4800	2950	6345	6345	1405	1405	5	8	7650	8650	6650
Triplex	5000	3050	6545	6545	1505	1505	5	8	7450	8450	6450
	5500	3200	7045	7045	1655	1655	5	8	7050	8050	6050
	6000	3350	7545	7545	1805	1805	5	8	6550	7550	5550

## 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	
			mm	mm	mm	mm	mm	mm	(°)	(°)
STD_Duplex	2500	2400	3907	3817	175	175	5	10	8000	
	2700	2500	4107	4017	175	175	5	10	8000	
	3000	2650	4407	4317	175	175	5	10	8000	
	3300	2800	4707	4617	175	175	5	10	7600	
	3600	3000	5007	4917	175	175	5	10	7500	
	4000	3200	5407	5317	175	175	5	10	7400	
	4300	3300	5707	5617	175	175	5	8	7300	
	4500	3450	5907	5817	175	175	5	8	7100	
	4800	3550	6207	6117	175	175	5	8	6900	
	5000	3850	6407	6317	175	175	5	8	6700	
Full Free Lift	3000	2600	4265	4265	1335	1335	5	8	8000	
	3300	2750	4565	4565	1485	1485	5	10	7600	
	3600	2900	4865	4865	1635	1635	5	10	7500	
	4000	3100	5265	5265	1835	1835	5	10	7400	
	4500	2725	5907	5862	1283	1328	5	8	6900	
	4800	2825	6207	6162	1383	1428	5	8	6700	
Triplex	5000	2875	6407	6362	1433	1478	5	8	6500	
	5500	3075	6907	6862	1633	1678	5	8	6200	
	6000	3225	7407	7362	1783	1828	5	8	5700	

Note:With load backrest:6-9t Height of standard load backrest is 1270 mm,10t Height of standard load backrest is 1420 mm.