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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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X Series Electric Forklift Truck

with capacities of 1,000 to 3,800kg

The World of Hangcha



X Series Electric Forklift Truck

The X series 1.0- to 3.8-ton forklift trucks are new-generation products by independent research and development based on former products of HANGCHA, with an overall upgrade in appearance molding, performance efficiency, comfort, safety and maintainability.

**Agile/
Efficient/
Flexible**



Appearance

- / Appearance design methods of new concepts, streamlined surface modeling, flexible and smooth lines, elegant and decent.
- / Compact truck shape, simplified appearance, vigorous and powerful.
- / Optimum energy efficiency.

Stability

- / The traction motors are arranged in parallel, the batteries are fixed at the bottom of the truck frame, and the shaft distance and real-wheel distance have been lengthened, aiming to enhance the swing point of steering axle and shorten front overhang distance for excellent stability.

Efficiency

- / The inner and outer turning angle of steering wheels are enlarged with small turning radius, which can operate in narrow paths.
- / Multi-speed models for selection to adapt various working conditions.
- / A high-power traction motor and high-speed-ratio gearbox have been adopted. The maximum travelling speed and climbing gradient under full load have been increased to 16.5km/h and 20% respectively.
- / High-power pump motor with quiet and large discharge capacity has been adopted to promote lifting speed. For instance, the maximum lifting speed with 1.5-ton full load can reach 420mm/s.
- / Thanks to the stability technologies, such as new mast with shorter load distance, making a great promotion of loading capability and high lifting mast.
- / Compact design, the width of 2- to 2.5-ton truck is only 1180mm.
- / Light weight and low energy consumption. Brake energy regeneration system effectively saves energy and prolongs operation hours for one charge.

Comfort

- / Designed based on ergonomics, the longer wheelbase provides larger space for legs. The diameter of steering wheel has been decreased to 300mm. Seats can be adjusted forward and backward for operators to choose the best driving position.
- / Humanized design. Storing space, USB interface and others have been added.



New designed mast and the large open steel roof provide super visibility, it also can reduce risk of accidents



Fully closed operation plate space, tilting cylinder and flat bottom plate, providing more comfortable and safe operation



Side roll out the battery can provides the fast, simple and safe solution for the operator



Multi-function instrument with color screen, clear human-computer interaction interface for visualized reading



Standard specification

- / 3M duplex mast
- / Soft landing system
- / OHG
- / Storage compartment
- / Emergency power-off switch
- / USB interface
- / Full AC motor and controller
- / Multi-function color screen combination instrument
- / 2nd valve
- / Dynamic load sensing hydraulic steering gear
- / Panoramic rearview mirror
- / Integrated combination switch
- / DC-DC converter
- / LED front light, turning indicator light, LED rear combination tricolor light
- / Traction pin
- / Back-up beeper

Safety

- / LED front lights and combined lights provide better view to operators under any circumstance.
- / The panoramic rearview mirror provides broader rearview for safer driving.
- / Soft landing system: When forks are 100-60mm above the ground, the descending speed decreases automatically, keeping the goods and pallet from hitting the ground and protecting both goods and the ground effectively.
- / Overload protection device for electronics and hydraulics, conforming to safety specifications.

Maintenance

- / The bottom plate under feet can be disassembled without tools, which is convenient to check and repair all walking motors and systems.
- / Brake fluid can be added when the shield cover and oiler cover are opened.
- / Fully opening covers are quite convenient for the maintenance motors and controllers.

Advancement

- / High frequency MOSFET controller provides accurate control of travelling, lifting, and better adjustable performance, and better matches the motor. Regenerative braking, reverse current braking and anti-slide on slope function guarantee the operation safety.
- / AC controllers realize computer control in travelling, turning, lifting, inclining and other movements.
- / Regenerative braking is more energy saving and efficiency during truck's deceleration, direction changing, and driving on downwards slope.



Options

- / 2.0-5.0m duplex mast
- / 2.5-4.0m full free duplex mast
- / 4.3-7.0m full free triplex mast
- / Other length forks
- / Wide fork carriage
- / Wide or higher load backrest
- / Built-in side shifter
- / Accessories of other specifications
- / Front dual tire
- / Super-elastic solid tire
- / Non-marking tyre
- / Suspension seat with armrests
- / Suspension seat with higher OHG
- / Reversing hand grip with horn button
- / Left-right rearview mirror
- / Rear working light
- / Alarm light
- / Battery side removed by forks
- / Battery side roll out by roller
- / High-capacity domestic battery
- / High-performance imported battery
- / Maintenance-free battery
- / Lithium battery
- / Charger
- / OPS system
- / Fingertip system
- / 3T brake for 2-2.5t truck
- / Electric Parking Brake
- / KDS Motor

Lead-acid specification

Battery	Capacity (Ah/5h)	1.0t	1.5-1.75t	mini2t	2.0t	2.5t	2.5Lt	3.0-3.8t
Lead-acid	360	●					●	
	420		●					
	450			●				
	480	○	○				○	●
	525				●			
	560	○	○	○	○		○	○
	600			○	○	●	○	○
700				○	○			

Note: ● Battery Std. ○ Battery Opt. 2.5Lt:80V

Lithium specification (-J2)

Battery	Capacity (Ah/5h)	1.0-mini2t	2.0-2.5t	2.5Lt	3.0-3.8t
Lithium	202			●	
	271	●		○	●
	346		●		
	404	○		○	○
	500	○	○		
	542		○		○

Note: ● Battery Std. ○ Battery Opt. 2.5Lt:80V

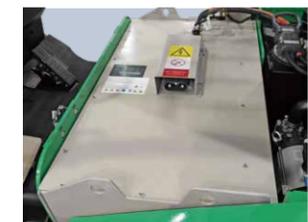
Lithium specification (-J4, C4, D2)

Battery	Capacity (Ah/5h)	1.0t	1.5-mini2t	2.0-2.5t	2.5Lt	3.0-3.8t
Lithium	271	●	○		●	○
	346			○		
	404	○	●		○	●
	500	○	○	●		
	542			○	○	○

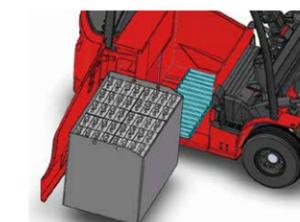
Note: ● Battery Std. ○ Battery Opt. 2.5Lt:80V



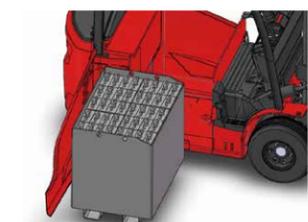
Fingertip system (Opt.)



Lithium battery (Opt.)



Battery side roll out by roller (Opt.)



Battery side removed by forks (Opt.)

X Series Lithium Battery Forklift Truck Specification

		HANGCHA GROUP CO.,LTD.																					
Distinguishing mark	1.1	Manufacturer																					
	1.2	Manufacturer's type designation	CPD10-XJ4-I CPD10-XJ2-I	CPD15-XJ4-I CPD15-XJ2-I	CPD18-XJ4-I CPD18-XJ2-I	CPD20-XXJ4-I CPD20-XXJ2-I	CPD20-XJ4-I CPD20-XJ2-I	CPD25-XJ4-I CPD25-XJ2-I	CPD25-XLJ4-I CPD25-XLJ2-I	CPD30-XJ4-I CPD30-XJ2-I	CPD35-XJ4-I CPD35-XJ2-I	CPD38-XJ4-I CPD38-XJ2-I	CPD10-XC4-I CPD10-XD2-I	CPD15-XC4-I CPD15-XD2-I	CPD18-XC4-I CPD18-XD2-I	CPD20-XXC4-I CPD20-XXD2-I	CPD20-XC4-I CPD20-XD2-I	CPD25-XC4-I CPD25-XD2-I	CPD25-XLC4-I CPD25-XLD2-I	CPD30-XC4-I CPD30-XD2-I	CPD35-XC4-I CPD35-XD2-I	CPD38-XC4-I CPD38-XD2-I	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Lithium																				
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated																				
	1.5	Rated capacity/rated load	Q (kg)	1000	1500	1750	2000	2000	2500	2500	3000	3500	3800	1000	1500	1750	2000	2000	2500	2500	3000	3500	3800
	1.6	Load centre distance	c (mm)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	391	391	396	406	427	427	427	451	406	427	427	391	391	396	406	427	427	427	451	479
	1.9	Wheelbase	y (mm)	1410	1410	1410	1410	1520	1520	1660	1660	1660	1810	1410	1410	1410	1410	1520	1520	1660	1660	1660	1810
	2.1	Service Weight	kg	2380	2750	2970	3180	3430	3720	3850	4370	4970	5000	2380	2750	2970	3180	3430	3720	3850	4370	4970	5000
2.2	Axle loading, laden front/rear	kg	2690/690	3720/530	4260/510	4580/600	4750/680	5450/770	5630/720	6555/815	7540/930	7840/960	2690/690	3720/530	4260/510	4580/600	4750/680	5450/770	5630/720	6555/815	7540/930	7840/960	
2.3	Axle loading, unladen front/rear	kg	980/1400	1330/1420	1340/1630	1300/1880	1530/1900	1470/2250	1720/2130	1855/2515	1920/3050	1900/3100	980/1400	1330/1420	1340/1630	1300/1880	1530/1900	1470/2250	1720/2130	1855/2515	1920/3050	1900/3100	
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic																				
	3.2	Tyre size, front	6.00-9-10PR	6.00-9-10PR	21*8-9-16PR	21*8-9-16PR	23*9-10-18PR	23*9-10-18PR	23*9-10-18PR	23*9-10-18PR	23*10-12	23*10-12	6.00-9-10PR	6.00-9-10PR	21*8-9-16PR	21*8-9-16PR	23*9-10-18PR	23*9-10-18PR	23*9-10-18PR	23*9-10-18PR	23*9-10-18PR	23*10-12	23*10-12
	3.3	Tyre size, rear	5.00-8-10PR	5.00-8-10PR	5.00-8-10PR	5.00-8-10PR	18*7-8-14PR	18*7-8-14PR	18*7-8-14PR	18*7-8-14PR	200/50-10	200/50-10	5.00-8-10PR	5.00-8-10PR	5.00-8-10PR	5.00-8-10PR	18*7-8-14PR	18*7-8-14PR	18*7-8-14PR	18*7-8-14PR	18*7-8-14PR	200/50-10	200/50-10
	3.5	Wheels, number front / rear (x = driven wheels)	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2	2x2
	3.6	Tread, front	b10(mm)	885	885	925	925	960/1010#	960/1010#	1010	1010	1012	1012	885	885	925	925	960/1010#	960/1010#	1010	1010	1012	1012
	3.7	Tread, rear	b11 (mm)	905.5	905.5	905.5	905.5	980	980	980	980	980	980	905.5	905.5	905.5	905.5	980	980	980	980	980	980
	3.8	Turning radius	Wa (mm)	1845	1845	1888	1888	1990	2055	2195	2230	2270	1845	1845	1888	1888	1990	2055	2195	2230	2270	1845	1845
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10	
	4.2	Height, mast lowered	h1 (mm)	1992	1992	1992	1992	2001	1992	2001	2007	2157	1992	1992	1992	1992	1992	2001	2001	2001	2001	2007	2157
	4.3	Free lift	h2 (mm)	155	155	155	135	140	140	140	135	140	140	155	155	155	135	140	140	140	135	140	140
	4.4	Lift	h3 (mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h4 (mm)	3955	3955	3955	3955	4046	4046	4046	4145	4145	3955	3955	3955	3955	4046	4046	4046	4046	4145	4145	4145
	4.6	Height of overhead guard	h6 (mm)	2070	2070	2070	2070	2160	2160	2160	2160	2160	2070	2070	2070	2070	2160	2160	2160	2160	2160	2160	2160
	4.7	Height of overhead guard (cabin)	h6 (mm)	2150	2150	2150	2150	2240	2240	2240	2240	2240	2240	2150	2150	2150	2150	2240	2240	2240	2240	2240	2240
	4.8	Seat height/stand height	h7 (mm)	1010	1010	1010	1010	1070	1070	1070	1070	1070	1070	1010	1010	1010	1070	1070	1070	1070	1070	1070	1070
	4.12	Coupling height	h10 (mm)	289	289	289	289	311	311	311	311	311	289	289	289	289	311	311	311	311	311	311	311
	4.19	Overall length	l1 (mm)	3000	3000	3064	3074	3365	3390	3627	3650	3677	3000	3000	3064	3074	3365	3390	3627	3650	3677	3627	3650
	4.20	Length to face of forks	l2 (mm)	2080	2080	2144	2154	2295	2320	2460	2558	2607	2080	2080	2144	2154	2295	2320	2460	2558	2607	2757	2757
	4.21	Overall width	b1 (mm)	1060	1060	1125	1125	1185/1235#	1185/1235#	1235	1235	1260	1260	1060	1060	1125	1125	1185/1235#	1185/1235#	1235	1235	1260	1260
	4.22	Fork dimensions	s/e/l (mm)	920*100*35	920*100*35	920*100*35	920*100*40	1070*122*40	1070*122*40	1070*122*40	1070*122*45	1070*122*50	1070*122*50	920*100*35	920*100*35	920*100*35	920*100*40	1070*122*40	1070*122*40	1070*122*40	1070*122*45	1070*122*50	1070*122*50
	4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B		ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	ISO 2328 2A	
	4.24	Fork-carriage width	b3 (mm)	1000	1000	1000	1000	1038	1038	1038	1100	1100	1000	1000	1000	1000	1038	1038	1038	1038	1100	1100	1100
	4.25	Distance between fork-arms	b5 (mm)	200-1000	200-1000	200-1000	200-1000	244-1038	244-1038	244-1038	244-1100	244-1100	200-1000	200-1000	200-1000	200-1000	244-1038	244-1038	244-1038	244-1038	244-1100	244-1100	244-1100
	4.31	Ground clearance, laden, below mast	m1 (mm)	100	100	100	100	110	110	110	106	106	100	100	100	110	110	110	110	110	106	106	106
4.32	Ground clearance, centre of wheelbase	m2 (mm)	85	85	85	85	120	120	120	125	125	85	85	85	120	120	120	120	120	125	125	125	
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	3436	3436	3484	3494	3617	3682	3822	3881	3949	3436	3436	3484	3494	3617	3682	3822	3881	3949	4109	4109	
4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	3636	3636	3684	3694	3817	3882	4022	4081	4149	3636	3636	3684	3694	3817	3882	4022	4081	4149	4309	4309	
4.35	Turning radius	Wa (mm)	1845	1845	1888	1888	1990	2055	2195	2230	2270	1845	1845	1888	1888	1990	2055	2195	2230	2270	1845	1845	
Performance data	5.1	Travel speed, laden/unladen	km/h	17/17.5(14/15)	16.5/17(14/15)	16.5/17(14/15)	14.5/16(14/15)	17/17.5(14/15)	17/17.5(14/15)	17/17.5(14/15)	17/17.5(14/15)	15/16(14/15)	14.5/15.5(13.5/14.5)	17/17.5	16.5/17	16.5/17	14.5/16	17/17.5	17/17.5	17/17.5	17/17.5	17/17.5	15/16
	5.2	Lift speed, laden/unladen	m/s	450/650(420/550)	420/500(400/550)	370/650(360/550)	360/630(340/500)	380/600(380/500)	350/600(350/500)	370/550(370/500)	350/550(350/500)	330/500(330/500)	310/520(310/470)	450/650	420/650	370/650	360/630	380/600	350/600	370/550	350/550	330/550	310/520
	5.3	Lowering speed, laden/unladen	m/s	450/500	420/500	450/500	450/500	450/500	450/500	450/500	470/470	470/470	450/450	450/500	420/500	450/500	450/500	450/500	450/500	450/500	450/500	470/470	470/470
	5.6	Max. Drawbar pull	N	11600/8600	11600/8600	11600/8580	11600/9000	14600/10600	14600/11530	20800/16500	20800/17400	20800/18400	11600/8600	11600/8600	11600/8580	11600/9000	14600/10600	14600/11530	20800/16500	20800/17400	20800/18400	20800/18400	20800/18400
	5.8	Max. gradeability, laden/unladen	%	20/20	20/20	19/20	17/19	20/20	19/20	20/20	20/20	17/19	15/19	20/20	20/20	19/20	17/19	20/20	20/20	20/20	20/20	17/19	15/19
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
		Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
	6.1	Drive motor rating S2 60 min	kW	11.3	11.3	11.3	11.3	18	18	18	18	18	11.3	11.3	11.3	11.3	18	18	18	18	18	18	18
	6.2	Lift motor rating at S3 15%	kW	13.8	13.8	13.8	13.8	21	21	21	21	21	13.8	13.8	13.8	13.8	21	21	21	21	21	21	21
	6.3	Battery acc. to DIN 43531/35/36 A,B,C, no		no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
6.4	Battery voltage, nominal capacity K5	V/Ah	48/271	48/404(48/271)	48/404(48/271)	48/404(48/271)	48/500(48/346)	48/500(48/346)	80/271(80/202)	80/404(80/271)	80/404(80/271)	48/271</											

