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ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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X Series Three-point Electric Forklifts

with capacities of 800 to 1,000kg

The World of Hangcha
SINCE 1956



X Series Three-point Electric Forklifts

Hangcha's X series 0.8-1.0t three-point electric forklifts are a new series of high-efficiency, energy-saving small-tonnage electric counterweight forklifts with a new structure that represents a breakthrough over the traditional design concept. With a compact structure, small turning radius and light weight and high maneuverability, the vehicle is widely used in narrow operation places, e.g., used for handling between floors, to and from elevators or in warehouses, supermarkets, workshops, etc.

Profile

- / With a profile formed by a combination of straight lines and streamlined curved surfaces, the vehicle is compact and maneuverable and has simple and sturdy appearance.

Stability

- / With the battery and counterweight arranged and designed to have a low center of gravity, respectively, the vehicle has a low center of gravity and good stability.
- / With two rubber tires, the turn wheels provide support side by side for good turn stability.

Energy saving and high efficiency

- / Front-wheel drive, strong power, high driving speed, high lifting speed, strong climbing ability and high operating efficiency.
- / Front-wheel drive; standard rubber tread tires, which are not prone to skid on slippery grounds such as puddles, sandy, sloping or cold storage grounds, etc.
- / The steering system adopts electric power steering, and the motor only provides power during steering, so that energy consumption can be reduced significantly.
- / Efficient and convenient vehicle-mounted charger provided for the standard configuration.
- / The vehicle is equipped with energy-saving and durable LED lights.

Comfort

- / Excellent ergonomic design and large operation space provide the operator with more comfort, and satisfy the operator's needs for long-term and high-intensity operations.
- / The steering system is an electric power steering system, and a comfortable steering force can be adjusted with software, so that the steering is easier and the work intensity of the operator is reduced.
- / The angle of the hand wheel is adjustable and the seat can be adjusted backwards and forwards, so that the operator can choose the best driving position.
- / The multiway valve with light control force enables easy operations and less work intensity for the operator.



Safety

- / The optimized design of the wide-view mast and the low dashboard enable a wide front view and higher safety, and minimizes the blind view to the greatest extent.
- / The emergency shut-off switch equipped for the standard configuration complies with European safety standards.
- / The electronic and hydraulic overload protection devices comply with safety regulations.
- / An optional seat sensing system is provided to enable high safety by disabling the traction, lifting, descending and other functions when the driver leaves the seat.

Advancement

- / AC devices, precise speed control, maintenance-free motor, temperature monitoring.
- / The forklift is equipped with an AC controller to enable its driving, steering, lifting, tilting and other actions to be controlled by a computer.
- / The high-efficiency driving control system with a high-frequency integrated MOSFET controller ensures stable and accurate driving and lifting and superior speed regulation performance, and has the functions of regenerative braking, reverse braking and protection for preventing sliding down a ramp, etc. to enable safer and more effective and comfortable operations.
- / The LED battery meter of a leading domestic brand can accurately display information in harsh environments.



Standard configuration:

- / Tread solid tire
- / Anti-skid patterned step
- / Double multiway valve
- / Silent gear pump
- / 2.5m duplex wide-view mast
- / Standard 770mm long fork
- / Adjustable steering column
- / Rearview mirror
- / Emergency power off switch
- / Round color screen instrument
- / Front LED headlight
- / Rear combination LED tail light
- / Vehicle-mounted charger
- / Horn, reversing buzzer

Optional configuration:

- / Seamless solid tire
- / Triple multiway valve
- / 2-4.5m duplex wide-view mast
- / 2-4m free duplex mast
- / 3.5-4.5m free triplex mast
- / Widened fork carriage and load backrest
- / External side shift fork
- / Other attachments
- / Foldable forks of different lengths
- / Forks of other lengths
- / Cold storage vehicle
- / Left and right rear view mirrors
- / Rear LED operation light
- / Police light
- / Battery charger
- / Chair sensing system

Optional battery capacity		
Capacity (Ah/5h)	0.8t	1t
294	●	—
336	○	—
400	○	●

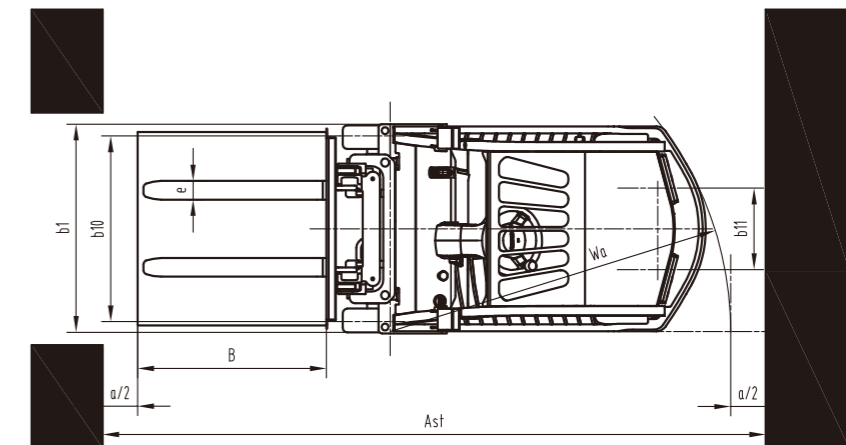
Note: ● Standard battery capacity; ○ Optional battery capacity; — Null

X Series Three-point Electric Forklifts

Distinguishing mark	HANGCHA GROUP CO.,LTD.						
	1.1	1.2	1.3	1.4	1.5	1.6	
1.1	Manufacturer (abbreviation)						
1.2	Manufacturers type designation	CPDS08-XD2	CPDS10-XD2	CPDS08-XD2-I	CPDS10-XD2-I		
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	electric	electric	electric	electric		
1.4	Operator type: hand, pedestrian, standing, seated, order-picker	seated	seated	seated	seated		
1.5	Load capacity/rated load	Q (kg)	800	1000	800	1000	
1.6	Load centre distance	c (mm)	400	400	400	400	
1.8	Load distance, centre of drive axle to fork	x (mm)	290	290	290	290	
1.9	Wheelbase	y (mm)	1150	1150	1150	1150	
Weight	2.1	Service Weight	kg	1550	1740	1550	1710
	2.2	Axle loading, laden front/rear	kg	/	/	/	/
	2.3	Axle loading, unladen front/rear	kg	/	/	/	/
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		solid rubber	solid rubber	solid rubber	solid rubber
	3.2	Tyre size, front		4.00-8	4.00-8	4.00-8	4.00-8
	3.3	Tyre size, rear		3.50-5	3.50-5	3.50-5	3.50-5
	3.5	Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2
	3.6	Tread, front	b10 (mm)	788	788	788	788
	3.7	Tread, rear	b11 (mm)	350	350	350	350
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	Grad	5/10	5/10	5/10	5/10
	4.2	Height, mast lowered	h1 (mm)	1755	1755	1755	1755
	4.3	Free lift	h2 (mm)	100	100	100	100
	4.4	Lift	h3 (mm)	2500	2500	2500	2500
	4.5	Height, mast extended	h4 (mm)	3300	3300	3300	3300
	4.7	Height of higher overhead guard(cabin) .	h6 (mm)	1930	1930	1930	1930
	4.8	Seat height relating to SIP/stand height	h7 (mm)	980	980	980	980
	4.12	Coupling height	h10 (mm)	/	/	/	/
	4.19	Overall length	l1 (mm)	2415	2415	2415	2415
	4.20	Length to face of forks	l2 (mm)	1645	1645	1645	1645
	4.21	Overall width	b1 (mm)	900	900	900	900
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	30/80/770	30/80/770	30/80/770	30/80/770
	4.23	Fork carriage ISO 2328, class/type A,B		ISO2328 1A	ISO2328 1A	ISO2328 1A	ISO2328 1A
	4.24	Fork-carriage width	b3 (mm)	860	860	860	860
			b5(mm)	160/780	160/780	160/780	160/780
	4.31	Ground clearance, laden, below mast	m1 (mm)	75	75	75	75
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	75	75	75	75
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2955	2955	2955	2955
	4.34	Aisle width for pallets 800 x 1200 crossways	Ast (mm)	3155	3155	3155	3155
	4.35	Turning radius	Wa (mm)	1465	1465	1465	1465
	4.36	Internal turning radius	b13 (mm)	/	/	/	/
Performance data	5.1	Travel speed, laden/unladen	km/h	10/12	10/12	10/12	10/12
	5.2	Lift speed, laden/unladen	mm/s	250/370	240/370	250/370	240/370
	5.3	Lowering speed, laden/unladen	mm/s	410	410	410	410
	5.5	Drawbar pull, laden/unladen	N	/	/	/	/
	5.6	Max. Drawbar pull, laden/unladen	N	4400/4600	4400/4600	4400/4600	4400/4600
	5.7	Gradeability, laden/unladen	%	/	/	/	/
	5.8	Max. gradeability, laden/unladen	%	12/13	12/13	12/13	12/13
	5.9	Acceleration time, laden/unladen (0-10m)	s	/	/	/	/
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
	5.11	Parking brake		Mechanical	Mechanical	Mechanical	Mechanical
	Electric-engine	6.1	Drive motor rating S2 60 min	kW	3	3	3
6.2		Lift motor rating at S3 15%	kW	4	4	4	4
6.3		Battery acc. to DIN 43 531/35/36 A,B,C, no		no	no	no	no
6.4		Battery voltage, nominal capacity K5	V/Ah	24/294	24/400	24/240	24/240
6.5		Battery weight	kg	270	340	95	95
6.6		Battery dimensions	l/b/h(mm)	/	/	/	/
6.7		Energy consumption acc. to VDI cycle	kWh/h	/	/	/	/
6.8		Min. battery weight	kg	270	340	/	/
6.9		Max. battery weight	kg	340	340	/	/
Addition data	8.1	Manufacturer of controler		INMOTION	INMOTION	INMOTION	INMOTION
	8.2	Operating pressure for attachments	bar	/	/	/	/
	8.3	Oil volume for attachments	l/min	/	/	/	/
	8.4	Sound level at the driver's ear according to EN / DIN 12 053	dB (A)	67	67	67	67
	8.5	Towing coupling, type DIN 15170		/	/	/	/

Mast Specification

Type	Model	Lift height	Lowered height	Extended height		Free lift height		Tilt range		Capacity (Mast vertical to ground)	
				With backrest	Without backrest	With backrest	Without backrest	Forward	Backward	Load center@400mm Single Tire	
				mm	mm	mm	mm	deg	deg	1.2t	1.0t
2-stage wide view mast	S09M200	2000	1505	2800	2475	100	100	5	10	800	800
	S09M250	2500	1755	3300	2975	100	100	5	10	800	800
	S09M270	2700	1855	3500	3175	100	100	5	10	800	800
	S09M300	3000	2005	3800	3475	100	100	5	10	800	800
	S09M330	3300	2155	4100	3775	100	100	5	10	800	800
	S09M350	3500	2255	4300	3975	100	100	5	10	800	800
	S09M370	3700	2355	4500	4175	100	100	4	8	750	750
	S09M400	4000	2605	4800	4570	100	100	4	8	700	700
	S09M430	4300	2785	5100	4900	100	100	4	8	650	650
	S09M450	4500	2905	5300	5120	100	100	4	8	600	600
2-stage full-free lifting mast	S09U200	2000	1505	2800	2495	705	1010	5	10	800	800
	S09U250	2500	1755	3300	2995	955	1260	5	10	800	800
	S09U270	2700	1855	3500	3195	1055	1360	5	10	800	800
	S09U300	3000	2005	3800	3495	1255	1510	5	10	800	800
	S09U330	3300	2155	4100	3795	1355	1660	5	10	800	800
	S09U350	3500	2255	4300	3995	1455	1760	5	10	750	750
	S09U370	3700	2355	4500	4195	1555	1860	4	8	700	700
	S09U400	4000	2605	4800	4545	1755	2010	4	8	600	600
	S09N350	3500	1675	4310	4015	875	1170	4	8	700	700
	S09N370	3700	1735	4500	4195	935	1240	4	8	650	650
3-stage full-free lifting mast	S09N400	4000	1835	4800	4495	1035	1340	4	8	600	600
	S09N430	4300	1935	5100	4795	1135	144	4	8	500	500
	S09N450	4500	2005	5310	5005	1205	1510	4	8	400	400



$$Ast = a + Wa + x + B \quad a: 200mm$$

