HANGCHA

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Hangcha Official Website

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ISO45001
ISO45001:2018

ISO14001
ISO14001:2015

ISO9001
ISO9001:2015

HANGCHA trucks conform to the European Safety Requirements.

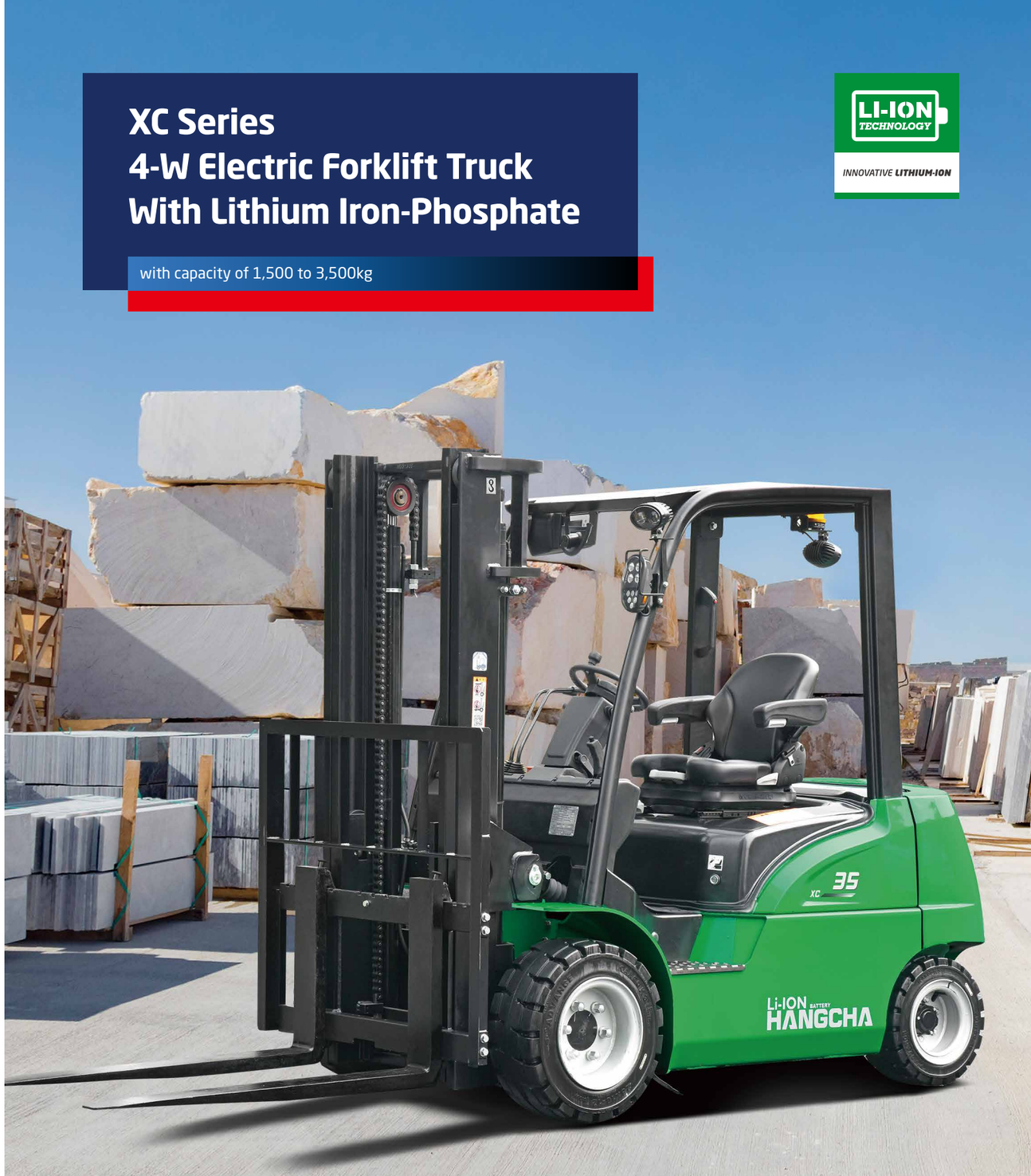
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XC Series
4-W Electric Forklift Truck
With Lithium Iron-Phosphate

with capacity of 1,500 to 3,500kg

LI-ION TECHNOLOGY
INNOVATIVE LITHIUM-ION



The World of Hangcha
SINCE 1956

HANGCHA

INNOVATIVE SOLUTIONS
NEW POWER NOW

LI-ION TECHNOLOGY

The XC series new energy electric forklifts, covering range from 1.5t to 3.5t, is a series of products with new chassis launched by HANGCHA.

HANGCHA's lithium battery with Innovative, reliable lithium-ion technology provide better experience, higher efficiency and more energy-saving. Rapid charging and opportunity charging ensure continuous availability of trucks. Lightweight design, flexible, high level of energy efficiency, maintenance-free, long service life.

EVE battery packs

		Battery capacity (kW·h)
Pack1	1.5 - 1.8t	76.8V*230Ah, 17.66kWh
Pack2	1.5 - 1.8t	76.8V*304Ah, 23.34kWh
Pack3	2.0 - 2.5t	76.8V*230Ah, 17.66kWh
Pack4	2.0 - 2.5t	76.8V*304Ah, 23.34kWh
Pack5	2.0 - 2.5t	76.8V*460Ah, 35.32kWh
Pack6	3.0 - 3.5t	76.8V*304Ah, 23.34kWh
Pack7	3.0 - 3.5t	76.8V*460Ah, 35.32kWh
Pack8	3.0 - 3.5t	76.8V*560Ah, 43.00kWh
Pack9	3.0 - 3.5t	76.8V*608Ah, 46.69kWh



6 YEARS WARRANTY

HANGCHA provides Li-ion battery (LiFeP04) with 6 years or 12000 hours warranty.

CATL battery packs (Optional)

		Battery capacity (kW·h)
Pack1	1.5 - 1.8t	80V*228Ah, 18.24kWh
Pack2	1.5 - 1.8t	80V*302Ah, 24.16kWh
Pack3	2.0 - 2.5t	80V*302Ah, 24.16kWh
Pack4	2.0 - 2.5t	80V*456Ah, 36.48kWh
Pack5	3.0 - 3.5t	80V*456Ah, 36.48kWh
Pack6	3.0 - 3.5t	80V*604Ah, 48.32kWh

Excellent Ergonomic Design

/ The truck has a large operating space more than **50%** larger than the traditional electric truck.
/ The dashboard in the driver's cab is placed overhead and can be seen when the driver lifts her/his head, and the function buttons can be pressed easily.
/ For the optional integrated fingertip control system, the combined operating armrest integrates the emergency cut-off, horn and quadruple thumb switches, etc., is electrically controlled through the CAN bus and is highly reliable.
/ The enlarged brake pedal and appropriate regenerative braking function can effectively reduce the driver's fatigue.







Advantages



The rear axle is provided with a flexible suspension system (for standard configuration and automatic deceleration at turns improve the driver's comfort.

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 traction motor has a bridge structure.

An ultra-high power AC pump motor is used. The system has high efficiency, complete protection functions, built-in speed and temperature sensors, and greatly improved reliability and life.

RELIABLE TRUCKS

Easy operations and maintenance

Internal Components Protected with Fully-sealed Hood, controllers, motors electrical components, etc. are sealed from dust and water.



The hood can be opened at a large angle facilitating the maintenance.





IPX4 water resistance rating, suitable for outdoor operation



FIMS
FLEET INTELLIGENT MANAGEMENT SYSTEM

MOBILE SOLUTION PROVIDING A MOBILE APPLICATION

KEEP AN EYE ON EVERYTHING

Hangcha FIMS is a system that provides you with real-time information about forklift truck and driver. Whether you have dozens or hundreds of forklift trucks across multiple sites, you can get access to collecting, monitoring and evaluating all the fleet data at anytime and anywhere.

» *Features*

- *Access Control*
- *GPS Tracking*
- *Remote Monitoring*
- *Maintenance Reminder*
- *Vehicle Management*
- *Vibration Monitoring*
- *Pre-shift Check (Optional)*
- *Shift Management (Optional)*
- *OpenAPI (Optional)*



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.

Safety

The optional OPS system can disable the lowering when the driver leaves the seat and enable high safety.

The standard configuration provides soft landing system. In addition, an optional lift buffering system 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.



IP67 Protection Rating



Quick charge < 2.0h

Comfort

Owing to the low center of gravity and good stability, the driver feels comfortable during turning.

The ergonomically designed adjustable steering wheel makes the driver feel good. The seat can be adjusted back and forth by 210mm. The operator can choose the best driving position.

New designed mast increases the wide view by 15% .

With friendly human-computer interfaces, the 4.33" True Color Screen instruments have good visibility and clear readings.

Silence, no pollution, energy saving and other advantages meet the environmental protection requirements.



Grammer fingertip (Optional)



Main Accessories

The main electrical components such as the controller, contactor, power plug, emergency cut-off switch, dashboard, accelerator, are all products of well-known world brands.

The emergency cut-off switch equipped for the standard configuration complies with EU regulations.

The truck has passed the CE certification.



Options

- / Lithium packs that can be replaced quickly
- / Pin code or card
- / Super elastic tyre
- / Marked solid tyre
- / Left and right rear view mirrors
- / Backup camera
- / Front/rear blue lights
- / Rear working lights
- / Charger
- / Reverse armrest
- / Hood with a key lock
- / OPS system
- / Lift buffering system
- / Multi way valves
- / Integrated fingertip control system
- / Widened / heightened load backrest
- / Widened fork carriage
- / Other length forks
- / Full free duplex mast
- / Full free triplex mast
- / Sideshifter
- / Other attachments
- / Grammer MSG531 suspension seat
- / FIMS(Fleet intelligent management system)

Standard specification

- / Battery pack side roll out
- / Lithium packs with low temperature electric heating systems
- / High-power AC drive motor
- / High-power AC pump motor
- / Low noise gear pump
- / Multi-function color screen instrument cluster
- / Large integral rubber pedal pad
- / LED combination headlights, LED rear combination taillights
- / Stamped iron hood
- / Automatic deceleration at turns
- / Soft landing system (Only for the wide view duplex mast)
- / SPE power selection
- / Charging muzzle meeting national standards
- / Electronic cooling fan
- / Emergency cut-off switch
- / Reversing buzzer
- / Traction pin
- / Folder
- / Load sensing steering system
- / Duplex mast
- / Tilt cylinder jacket

1.5t XC series mast specification

Type	Model	Lifting height	Overall height		Free lifting height		Tilting range		Load capacity	
			Lowered overall height	Extended height					Load center@500mm	
				Without backrest	With backrest	Without backrest	With backrest	FWD	BWD	Single Tire	Double Tire
										1.5t	1.5t
		mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg
Duplex wide view mast	XPD15M200	2000	1475	2538	2955	135	135	6	12	1500	1500
	XPD15M250	2500	1725	3038	3455	135	135	6	12	1500	1500
	XPD15M270	2700	1825	3238	3655	135	135	6	12	1500	1500
	XPD15M300	3000	1975	3538	3955	135	135	6	12	1500	1500
	XPD15M330	3300	2125	3838	4255	135	135	6	12	1500	1500
	XPD15M350	3500	2225	4038	4455	135	135	6	12	1500	1500
	XPD15M360	3600	2325	4138	4555	135	135	6	12	1500	1500
	XPD15M370	3700	2375	4238	4655	135	135	6	12	1500	1500
	XPD15M400	4000	2575	4538	4955	135	135	6	12	1500	1500
	XPD15M430	4300	2725	4838	5255	135	135	6	6	1500	1500
	XPD15M450	4500	2825	5038	5455	135	135	6	6	1500	1500
	XPD15M480	4800	2975	5338	5755	135	135	6	6	1400	1500
	XPD15M500	5000	3075	5538	5955	135	135	6	6	1350	1400
Duplex full-free mast	XPD15U200	2000	1490	2559	2945	931	545	6	6	1500	1500
	XPD15U250	2500	1740	3059	3445	1181	795	6	12	1500	1500
	XPD15U270	2700	1840	3259	3645	1281	895	6	12	1500	1500
	XPD15U300	3000	1990	3559	3945	1431	1045	6	12	1500	1500
	XPD15U330	3300	2140	3859	4245	1581	1195	6	12	1500	1500
	XPD15U350	3500	2240	4059	4445	1681	1295	6	12	1500	1500
	XPD15U360	3600	2290	4159	4545	1731	1345	6	12	1500	1500
	XPD15U370	3700	2340	4259	4645	1781	1395	6	12	1500	1500
	XPD15U400	4000	2540	4559	4945	1981	1595	6	12	1500	1500
Triplex full-free mast	XPD15N430	4300	2040	4869	5255	1481	1095	6	6	1500	1500
	XPD15N450	4500	2090	5069	5455	1531	1145	6	6	1500	1500
	XPD15N470	4700	2190	5269	5655	1631	1245	6	6	1400	1500
	XPD15N480	4800	2240	5369	5755	1681	1295	6	6	1400	1500
	XPD15N500	5000	2340	5569	5955	1781	1395	6	6	1400	1450
	XPD15N550	5500	2540	6069	6455	1981	1595	3	6	1250	1350
	XPD15N600	6000	2790	6600	6955	2200	1845	3	6	1100	1150

With sideshifter minus 200Kg,with integral sideshifter minus 150kg.

1.8t XC series mast specification

Type	Model	Lifting height	Overall height		Free lifting height		Tilting range		Load capacity	
			Lowered overall height	Extended height					Load center@500mm	
				Without backrest	With backrest	Without backrest	With backrest	FWD	BWD	Single Tire	Double Tire
										1.8t	1.8t
		mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg
Duplex wide view mast	XPD18M200	2000	1475	2648	2955	135	135	6	12	1800	1800
	XPD18M250	2500	1725	3148	3455	135	135	6	12	1800	1800
	XPD18M270	2700	1825	3348	3655	135	135	6	12	1800	1800
	XPD18M300	3000	1975	3648	3955	135	135	6	12	1800	1800
	XPD18M330	3300	2125	3948	4255	135	135	6	12	1800	1800
	XPD18M350	3500	2225	4148	4455	135	135	6	12	1800	1800
	XPD18M360	3600	2325	4248	4555	135	135	6	12	1800	1800
	XPD18M370	3700	2375	4348	4655	135	135	6	12	1800	1800
	XPD18M400	4000	2575	4648	4955	135	135	6	12	1800	1800
	XPD18M430	4300	2725	4948	5255	135	135	6	6	1700	1750
	XPD18M450	4500	2825	5148	5455	135	135	6	6	1650	1700
	XPD18M480	4800	2975	5448	5755	135	135	6	6	1600	1650
	XPD18M500	5000	3075	5648	5955	135	135	6	6	1550	1600
Duplex full-free mast	XPD18U200	2000	1490	2669	2945	821	545	6	6	1800	1800
	XPD18U250	2500	1740	3169	3445	1071	795	6	12	1800	1800
	XPD18U270	2700	1840	3369	3645	1171	895	6	12	1800	1800
	XPD18U300	3000	1990	3669	3945	1321	1045	6	12	1800	1800
	XPD18U330	3300	2140	3969	4245	1471	1195	6	12	1800	1800
	XPD18U350	3500	2240	4169	4445	1571	1295	6	12	1800	1800
	XPD18U360	3600	2290	4269	4545	1621	1345	6	12	1800	1800
	XPD18U370	3700	2340	4369	4645	1671	1395	6	12	1800	1800
	XPD18U400	4000	2540	4669	4945	1871	1595	6	12	1800	1800
Triplex full-free mast	XPD18N430	4300	2040	4979	5255	1371	1095	6	6	1650	1800
	XPD18N450	4500	2090	5179	5455	1421	1145	6	6	1650	1750
	XPD18N470	4700	2190	5379	5655	1521	1245	6	6	1600	1650
	XPD18N480	4800	2240	5479	5755	1571	1295	6	6	1600	1650
	XPD18N500	5000	2340	5679	5955	1671	1395	6	6	1550	1600
	XPD18N550	5500	2540	6179	6455	1871	1595	3	6	1500	1550
	XPD18N600	6000	2790	6679	6955	2121	1845	3	6	1300	1400

With sideshifter minus 200Kg,with integral sideshifter minus 150kg.

2.0~2.5t XC series mast specification

Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range		Capacity (Mast vertical to ground)			
										Load center@500mm			
				Without backrest	With backrest	Without backrest	With backrest	FWD	BWD	Single Tire		Double Tire	
										2.0t	2.5t	2.0t	2.5t
		mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg	kg	kg
Duplex wide view mast	XPD25M200	2000	1501	2626	3046	140	140	6	6	2000	2500	2000	2500
	XPD25M250	2500	1751	3126	3546	140	140	6	12	2000	2500	2000	2500
	XPD25M270	2700	1851	3326	3746	140	140	6	12	2000	2500	2000	2500
	XPD25M300	3000	2001	3626	4046	140	140	6	12	2000	2500	2000	2500
	XPD25M330	3300	2151	3926	4346	140	140	6	12	2000	2500	2000	2500
	XPD25M350	3500	2251	4126	4546	140	140	6	12	2000	2500	2000	2500
	XPD25M360	3600	2351	4226	4646	140	140	6	12	2000	2500	2000	2500
	XPD25M370	3700	2401	4326	4746	140	140	6	12	2000	2500	2000	2500
	XPD25M400	4000	2601	4626	5046	140	140	6	12	2000	2500	2000	2500
	XPD25M430	4300	2751	4926	5346	140	140	6	6	2000	2500	2000	2500
	XPD25M450	4500	2851	5126	5546	140	140	6	6	2000	2450	2000	2500
	XPD25M470	4700	2951	5326	5746	140	140	6	6	1950	2350	2000	2450
	XPD25M480	4800	3001	5426	5846	140	140	6	6	1950	2350	2000	2450
	XPD25M500	5000	3101	5626	6046	140	140	6	6	1850	2300	1950	2350
	XPD25M550	5500	3351	6126	6546	140	140	3	6	1750	2150	1900	2200
	XPD25M600	6000	3601	6626	7046	140	140	3	6	1550	1900	1800	2000
Duplex full-free mast	XPD25U200	2000	1516	2749	3046	842	470	6	6	2000	2500	2000	2500
	XPD25U250	2500	1766	3173.5	3546	1092	720	6	12	2000	2500	2000	2500
	XPD25U270	2700	1866	3373.5	3746	1192	820	6	12	2000	2500	2000	2500
	XPD25U300	3000	2016	3673.5	4046	1342	970	6	12	2000	2500	2000	2500
	XPD25U330	3300	2166	3973.5	4346	1492	1120	6	12	2000	2500	2000	2500
	XPD25U350	3500	2266	4173.5	4546	1592	1220	6	12	2000	2500	2000	2500
	XPD25U360	3600	2316	4273.5	4646	1642	1270	6	12	2000	2500	2000	2500
	XPD25U370	3700	2366	4373.5	4746	1692	1320	6	12	2000	2500	2000	2500
Triplex full-free mast	XPD25N400	4000	1966	4670.5	5046	1195	920	6	6	2000	2500	2000	2500
	XPD25N430	4300	2066	4970.5	5346	1295	1020	6	6	2000	2450	2000	2500
	XPD25N450	4500	2116	5170.5	5546	1345	1070	6	6	2000	2350	2000	2450
	XPD25N470	4700	2216	5370.5	5746	1445	1170	6	6	1950	2250	2000	2350
	XPD25N480	4800	2266	5470.5	5846	1495	1220	6	6	1950	2250	2000	2350
	XPD25N500	5000	2366	5670.5	6046	1595	1320	6	6	1850	2150	1950	2250
	XPD25N550	5500	2566	6170.5	6546	1795	1520	3	6	1750	2050	1900	2100
	XPD25N600	6000	2816	6670.5	7046	2045	1770	3	6	1550	1850	1800	1950
	XPD25N650	6500	3016	7170.5	7546	2245	1970	3	6	/	/	1550	1800
	XPD25N700	7000	3266	7766	8046	2695	2220	3	6	/	/	1150	1450

With sideshifter minus 200Kg,with integral sideshifter minus 150kg.

3.0~3.5t XC series mast specification

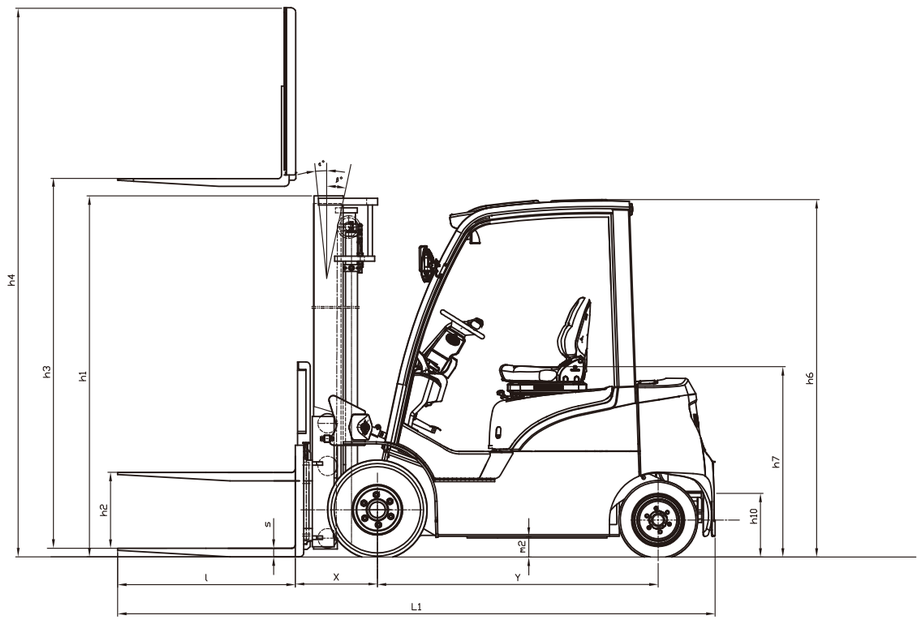
Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range		Capacity (Mast vertical to ground)			
										Load center@500mm			
				Without backrest	With backrest	Without backrest	With backrest	FWD	BWD	Single Tire		Double Tire	
										3.0t	3.5t	3.0t	3.5t
		mm	mm	mm	mm	mm	mm	(°)	(°)	kg	kg	kg	kg
Duplex wide view mast	XPD35M200	2000	1651	2784	3142	145/150	145/150	6	6	3000	3500	3000	3500
	XPD35M250	2500	1901	3284	3642	145/150	145/150	6	12	3000	3500	3000	3500
	XPD35M270	2700	2001	3484	3842	145/150	145/150	6	12	3000	3500	3000	3500
	XPD35M300	3000	2151	3784	4142	145/150	145/150	6	12	3000	3500	3000	3500
	XPD35M330	3300	2301	4084	4442	145/150	145/150	6	12	3000	3500	3000	3500
	XPD35M360	3600	2451	4384	4742	145/150	145/150	6	12	3000	3500	3000	3500
	XPD35M400	4000	2751	4784	5142	145/150	145/150	6	12	3000	3500	3000	3500
	XPD35M430	4300	2901	5084	5442	145/150	145/150	6	6	3000	3400	3000	3500
	XPD35M450	4500	3001	5284	5642	145/150	145/150	6	6	3000	3300	3000	3400
	XPD35M480	4800	3151	5584	5942	145/150	145/150	6	6	2950	3200	3000	3300
	XPD35M500	5000	3251	5784	6142	145/150	145/150	6	6	2850	3100	2900	3200
	XPD35M550	5500	3501	6284	6642	145/150	145/150	3	6	2670	3000	2750	3100
	XPD35M600	6000	3751	6784	7142	145/150	145/150	3	6	2350	2650	2500	2800
Duplex full-free mast	XPD35U250	2500	1916	3313	3642	1088	759	6	12	3000	3500	3000	3500
	XPD35U270	2700	2016	3513	3842	1188	859	6	12	3000	3500	3000	3500
	XPD35U300	3000	2166	3813	4142	1338	1009	6	12	3000	3500	3000	3500
	XPD35U330	3300	2316	4113	4442	1488	1159	6	12	3000	3500	3000	3500
	XPD35U360	3600	2466	4413	4742	1638	1309	6	12	3000	3500	3000	3500
	XPD35U400	4000	2716	4813	5142	1888	1559	6	12	3000	3500	3000	3500
Triplex full-free mast	XPD35N400	4000	2051	4827	5142	1224	906	6	6	3000	3400	3000	3500
	XPD35N430	4300	2151	5127	5442	1324	1006	6	6	3000	3300	3000	3400
	XPD35N450	4500	2201	5327	5642	1374	1056	6	6	3000	3200	3000	3300
	XPD35N470	4700	2301	5527	5842	1474	1156	6	6	2900	3100	2950	3200
	XPD35N480	4800	2351	5627	5942	1524	1206	6	6	2900	3100	2950	3200
	XPD35N500	5000	2451	5827	6142	1624	1306	6	6	2850	3050	2900	3150
	XPD35N550	5500	2651	6327	6642	1824	1506	3	6	2670	3000	2750	3100
	XPD35N600	6000	2901	6827	7142	2074	1756	3	6	2350	2650	2500	2800
	XPD35N650	6500	3151	7327	7642	2324	2006	3	6	/	/	2200	2400
	XPD35N700	7000	3401	7901	8142	2500	2256	3	6	/	/	1850	2050

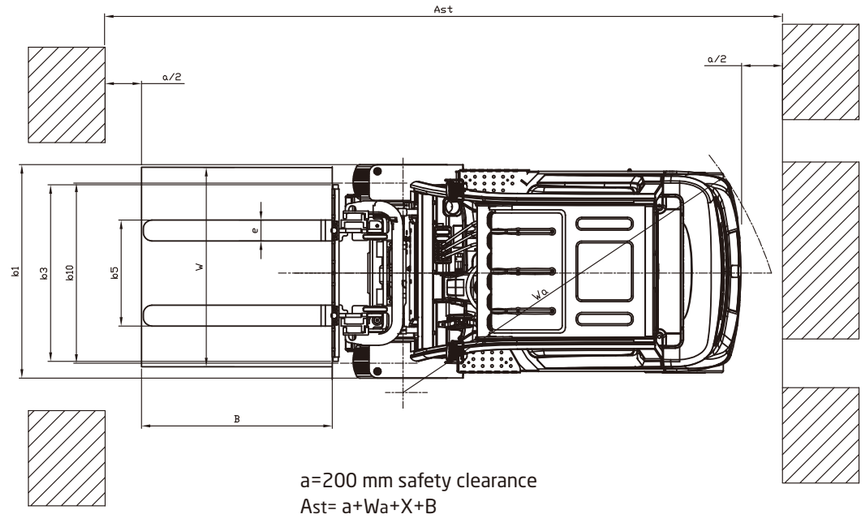
With sideshifter minus 200Kg,with integral sideshifter minus 150kg.

XC Series 1.5~3.5t Electric Forklift

				HANGCHA GROUP CO.,LTD.					
	1.2	Manufacturers type designation		CPD15-XD6-SI16*	CPD18-XD6-SI16*	CPD20-XD6-SI26*	CPD25-XD6-SI26* CPD25-XD6-SI26F2	CPD30-XD6-SI26*	CPD35-XD6-SI26*
Distinguishing mark	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric	Electric	Electric	Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Load capacity/rated load	Q (kg)	1500	1800	2000	2500	3000	3500
	1.6	Load centre distance	c (mm)	500	500	500	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	399	404	444	444	482	482
	1.9	Wheelbase	y (mm)	1380	1380	1520	1520	1650	1650
Weight	2.1	Service Weight	kg	2850	3080	3620	3920	4740	5080
	2.2	Axle loading, laden front/rear	kg	3760/590	4255/625	5040/680	5820/700	6745/1095	7800/880
	2.3	Axle loading, unladen front/rear	kg	1220/1630	1280/1800	1620/2000	1670/2250	2010/2730	2100/2980
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Super elastic
	3.2	Tyre size, front		6.00-9NHS-10PR	21×8-9NHS-16PR	23×9-10	23×9-10	23×9-10	23×10-12
	3.3	Tyre size, rear		5.00-8NHS-10PR	5.00-8NHS-10PR	18×7-8	18×7-8	18×7-8	200/50-10
	3.5	Wheels, number front rear (x = driven wheels)		2x/2	2x/2	2x/2	2x/2	2x/2	2x/2
	3.6	Tread, front	b_{10} (mm)	888	938	1068	1068	1068	1068
	3.7	Tread, rear	b_{11} (mm)	915.5	915.5	960	960	960	960
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/12	6/12	6/12	6/12	6/12	6/12
	4.2	Height, mast lowered	h_1 (mm)	1975	1975	2001	2001	2151	2151
	4.3	Free lift	h_2 (mm)	135	135	140	140	145	145
	4.4	Lift	h_3 (mm)	3000	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h_4 (mm)	3955	3955	4040	4040	4135	4135
	4.7	Height of overhead guard STD. (Cabin)	h_6 (mm)	2080(2160)	2080(2160)	2100(2180)	2100(2180)	2100(2180)	2100(2180)
	4.8	Seat height/stand height	h_7 (mm)	1100	1100	1120	1120	1120	1120
	4.12	Coupling height	h_{10} (mm)	420	420	430	430	430	430
	4.19	Overall length	l_1 (mm)	3056	3061	3370	3370	3550	3550
	4.20	Length to face of forks	l_2 (mm)	2136	2141	2300	2300	2480	2480
	4.21	Overall width	b_1 (mm)	1120	1138	1252	1252	1252	1298
	4.22	Fork dimensions	s/e/l (mm)	35/100/920	35/100/920	40/122/1070	40/122/1070	45/122/1070	50/122/1070
	4.23	Fork carriage DIN 15 173 --- ISO 2328, class/type A,B		ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 2A	ISO2328 3A	ISO2328 3A
	4.24	Fork-carriage width	b_3 (mm)	1000	1000	1038	1038	1100	1100
	4.25	Distance between fork-arms	b_5 (mm)	240/1000	240/1000	226/1038	226/1038	290/1100	290/1100
	4.31	Ground clearance, laden, below mast	m_1 (mm)	95	95	100	100	100	100
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	90	90	115	115	115	115
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	3555	3560	3734	3734	3955	3955
	4.34.2	Aisle width for pallets 800 x 1200 Lengthways	Ast (mm)	3755	3760	3934	3934	4155	4155
	4.35	Turning radius	Wa (mm)	1950	1950	2090	2090	2270	2270
	4.36	Internal turning radius	b_{13} (mm)	620	620	655	655	730	730
Performance Data	5.1	Travel speed, laden/unladen	km/h	16/17	16/17	18/19	18/19	18/19	18/19
	5.2	Lift speed, laden/unladen	m/s	0.430/0.460	0.420/0.460	0.450/0.560	0.430/0.560	0.390/0.540	0.370/0.540
	5.3	Lowering speed, laden/unladen	m/s	0.520/0.480	0.520/0.480	0.450/0.420	0.470/0.420	0.450/0.420	0.470/0.420
	5.5	Drawbar pull, laden/unladen	N	9000/10000	9500/11000	13000/14000	17000/18000	20000/21000	20500/21000
	5.6	Max. Drawbar pull, laden/unladen	N	11000	12000	15000	19000	22000	23000
	5.7	Gradeability, laden/unladen	%	20/20	20/20	20/20	20/20	20/20	20/20
	5.8	Max. gradeability, laden/unladen	%	20/20	20/20	20/20	20/20	20/20	20/20
	5.9	Acceleration time, laden/unladen (0-10m)	s	4.8/4.4	4.8/4.4	4.0/3.9	4.3/4.2	4.9/4.7	5.0/4.8
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	5.11	Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Electric-engine	6.1	Drive motor rating S2 60 min	kW	9AC	9AC	16.6AC	16.6AC	16.6AC	16.6AC
	6.2	Lift motor rating at S3 15%	kW	16AC	16AC	25.5AC	25.5 AC	25.5AC	25.5AC
	6.3	Battery voltage, Std.	V/Ah	80/230	80/230	80/304	80/304	80/460	80/460
	6.5	Min. battery weight	kg	160	160	220	220	320	320
		Max. battery weight	kg	215	215	280	280	380	380
	8.1	Type of drive control		MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC
	9.1	Manufacturer		INMOTION	INMOTION	INMOTION	INMOTION	INMOTION	INMOTION
Addition data	10.1	Operating pressure for attachments	bar	145	145	175	175	175	175
	10.2	Oil volume for attachments	l/min	65	65	65	65	65	65
	10.3	Hydraulic Tank - capacity (drain & refill)	liter	25	25	28	28	28	28
	10.7	Sound level at the driver´s ear according to EN / DIN 12 053	dB (A)	75	75	75	75	75	75
	10.8	Towing coupling, type DIN		Φ25 Pin	Φ25 Pin	Φ25 Pin	Φ25 Pin	Φ25 Pin	Φ25 Pin

★ CE model
❄ F2: Means the cold storage truck model F2 are suitable for use in cold storage environments down to -30 °C.





a=200 mm safety clearance
Ast= a+Wa+X+B

3M duplex mast

