

XE
SERIES



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HANGCHA trucks conform
to the European Safety
Requirements.



XE SERIES

ELECTRIC FORKLIFT TRUCK WITH
LITHIUM POWER

With capacity of 6,000 to 10,000kg

XE SERIES ELECTRIC FORKLIFT TRUCK WITH LITHIUM POWER

While inheriting the family design of electric forklifts, some key parts are universal with internal combustion trucks. The whole truck has been optimized in terms of performance, ergonomics, reliability, maintenance, outdoor working ability, and load capacity to meet the needs of customers for internal combustion forklift usage scenarios.



The XE series of 6-10 ton lithium battery forklifts are developed based on the advantages of Hangcha's "lithium battery special structure" and "permanent magnet synchronous technology".

ENVIRONMENTALLY FRIENDLY

- The hydraulic lifting system uses dual-pump confluence technology, combined with a powerful system, resulting in an overall improvement in performance.
- The leading "permanent magnet synchronous system" effectively reduces energy consumption and enhances endurance.



ENERGY EFFICIENT

- The charging port features a door-within-door design, with standard quick-change batteries, making both charging and battery changing convenient.
- Lithium batteries come standard with dual-gun fast charging ports, paired with dual-gun chargers for efficient energy replenishment.



SAFE AND RELIABLE

- Equipped with two independent cooling air ducts to ensure long-lasting, efficient performance.
- Standard features include turning deceleration, which reduces the turning radius for greater maneuverability and stability during operation.



Utilizes internal combustion truck structures, including the frame and front/rear axles, paired with large tires for increased ground clearance, making it more suitable for outdoor operations.



Designed for high load capacity, minimizing the risk of rear tipping and ensuring more stable operation.



The truck features IPX4 protection rating, and the lithium battery is equipped with electric heating module to ensure normal operation in cold or rainy weather.



COMFORTABLE EXPERIENCE

XE SERIES

Standard features include a load-sensitive multi-way valve and lift potentiometer, providing good energy-saving effects and reducing operating force by **20%**, with improved micro-motion performance.



HANGCHA provides Li-ion battery (LiFePO4) with 6 years or 12000 hours warranty.

6 YEARS WARRANTY

EXCELLENT VISION

Inherits the advantages of the lithium battery special structure, resulting in a more compact body, better visibility, ample operating space, and excellent ergonomics.

Equipped with a panoramic rearview mirror and a reverse assist horn for more comfortable reversing operations.



Comes standard with a USB charging port and storage box for added convenience in daily use.



The color display smart instrument includes functions for viewing and adjusting key parameters, facilitating maintenance and fine-tuning.



EASY MAINTENANCE

The counterweight cover can be removed without tools, paired with a large-angle hood for clear visibility of maintenance components.



Optional battery list

	Capacity(Ah)	6.0-7.0t	8.0-10t
EVE	560	●	/
	690	○	●
	920	○	○
	1216	/	○
CATL	536	○	/
	684	○	○
	906	○	○
	1208	/	○

Note: ● Battery; ○ Battery Opt; / Not available



LITHIUM POWERED

EMPOWER YOURSELF
WITH THE BEST



Li
Lithium

POWER THE POSSIBILITIES
RELIABLE LITHIUM-ION TECHNOLOGY

LITHIUM BATTERY ADVANTAGES



Long service life

4000 full charging cycles with at least 75% residual capacity.



Return on investment

Add flexibility to your operation, cost-saving in the long term, increased efficiencies.



Maintenance free

No topping up of water or checking acid levels.



High energy density

The high energy density of the Li-Ion battery ensures long working times and increases the high availability.



Cold area application

Li-Ion batteries maintain high performance at temperatures below freezing.



High safety and reliability

Intelligent battery management monitoring every important function, no emission of battery gasses.



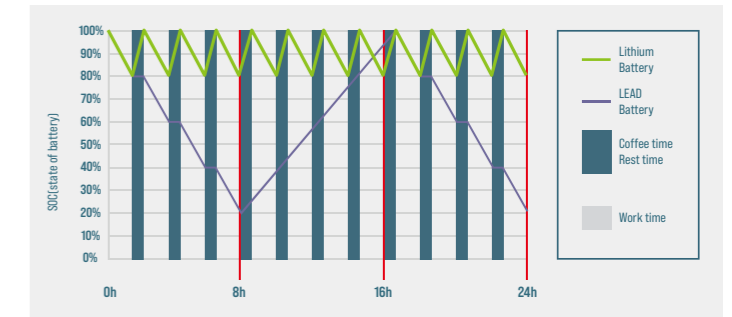
Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

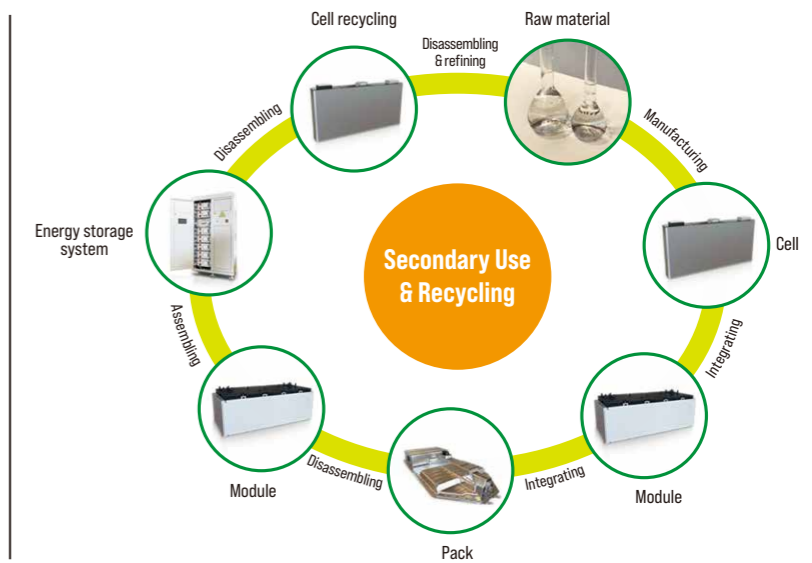
Efficiency

By quick opportunity charging any downtime, such as a lunch break, can be efficiently used and the battery is recharged in a very short period of time. Interim charging does not affect the battery service life.



Safety

- / Intelligent battery management monitoring every important function.
- / Higher user safety, thanks to acid-free use.
- / User friendly due to avoided battery change.
- / No emission of battery gasses.



QUESTION 1

Q: What are the characteristics of lithium batteries, especially when used in high and low temperature environments?

Charging temperature: -30 C - 65 C
Discharge temperature: -30 C - 65 C
Storage environment temperature: -30 C - 65 C

After the truck key switch is closed, the instrument battery condition needs to be checked:

1. Confirm that there is no battery system alarm message on the instrument panel.
2. Please check the remaining power before use. It is recommended to use the SOC between 50% and 100%.
3. If the SOC is lower than 20%, it is not recommended to continue using it. Please charge it as soon as possible.

QUESTION 2

Q: What is the charging time and usage time calculation of forklift lithium battery?

1. Available power of lithium battery (kWh) = rated voltage * rated power * 90% (To avoid over-discharge damaging the battery, the forklift is equipped with low power protection [less than 10%]).
 2. Charging time (h) = rated capacity of lithium battery (Ah) * 90% * charger output current (A).
 3. The power consumed for charging (kWh) = the available power of the lithium battery * 93% (the charging efficiency of the charger is calculated as 93%).
 4. Usage time (h) = available power of lithium battery * energy consumption data.
- For specific energy consumption values, please refer to the technical table on the sharing platform.

QUESTION 3

Q: How does Hangcha BMS work to ensure the safety of the lithium battery?

HANGCHA BMS (battery management system) can monitors the cells at all time. As a result, hangcha lithium power is the reliable solution.



Battery Safety Management:

- Overcharge/over discharge protection
- Overcurrent/over-temperature/low-temperature protection
- Multi-level fault diagnosis protection
- Double fault monitoring



Battery Parameter Detection:

- Battery voltage detection and analysis
- Battery current detection and analysis
- Battery temperature detection and analysis



Equilibrium Management:

- Equalization based on voltage mode
- Equalization based on time mode
- Equalization based on battery cell SOC
- Active/passive equalization optional

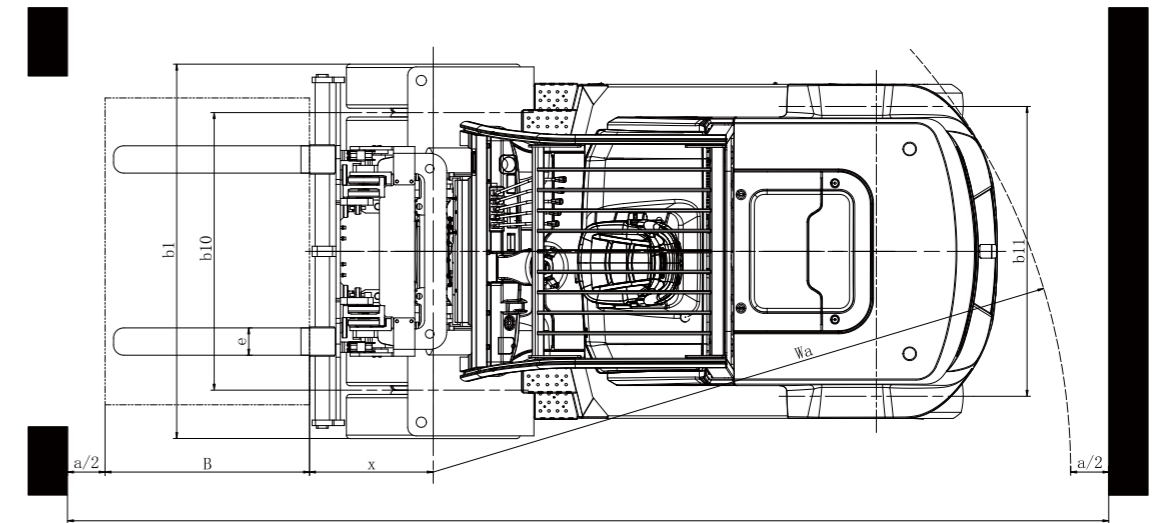
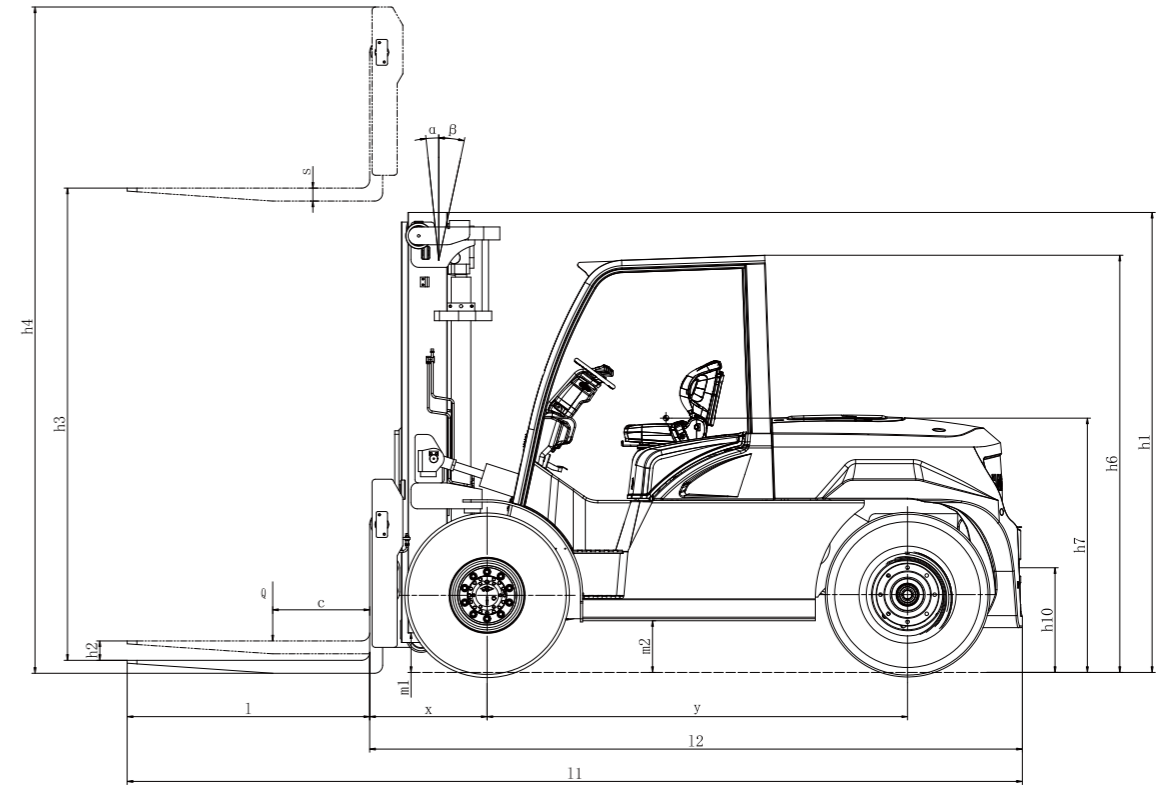


Other Features:

- Low cost, low power consumption
- Historical data record
- Flexible cascade expansion
- CRC data validation

Technical Data

Distinguishing mark	HANGCHA GROUP CO.,LTD.						
	1.1	Manufacturer	CPD60-XEY2-SI	CPD70-XEY2-SI	CPD80-XEY2-SI	CPD90-XEY2-SI	CPD100-XEY2-SI
1.2	Manufacturer's type designation		CPD60-XEY2-SI	CPD70-XEY2-SI	CPD80-XEY2-SI	CPD90-XEY2-SI	CPD100-XEY2-SI
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric	Electric	Electric	Electric
1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated
1.5	Rated capacity/rated load	kg	6000	7000	8000	9000	10000
1.6	Load centre distance	c (mm)	600	600	600	600	600
1.8	Load distance, centre of drive axle to fork	x (mm)	603.5	608.5	713.8	725.8	725.8
1.9	Wheelbase	y (mm)	2350	2350	2600	2600	2600
2.1	Service Weight	kg	9600	10200	11900	13200	13800
2.2	Axle loading, laden front/rear	kg	13790/1810	15180/2020	17650/2250	197700/2430	21280/2520
2.3	Axle loading, unladen front/rear	kg	4710/4890	4580/5620	5600/6300	6180/7020	6190/7610
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		pneumatic	pneumatic	pneumatic	pneumatic	pneumatic
3.2	Tyre size, front		8.25-15-14PR	8.25-15-14PR	9.00-20-14PR	9.00-20-14PR	9.00-20-14PR
3.3	Tyre size, rear		8.25-15-14PR	8.25-15-14PR	9.00-20-14PR	9.00-20-14PR	9.00-20-14PR
3.5	Wheels, number front / rear (x = driven wheels)		4x/2	4x/2	4x/2	4x/2	4x/2
3.6	Tread, front	b10 (mm)	1489	1489	1628	1628	1628
3.7	Tread, rear	b11 (mm)	1700	1700	1700	1700	1700
4.1	Tilt of mast/fork carriage forward/backward	a/b (°)	6/12	6/12	6/12	6/12	6/12
4.2	Height, mast lowered	h1 (mm)	2500	2500	2700	2850	2850
4.3	Free lift	h2 (mm)	170	175	200	200	200
4.4	Lift	h3 (mm)	3000	3000	3000	3000	3000
4.5	Height, mast extended	h4 (mm)	4407	4407	4210	4555	4555
4.7	Height of overhead guard (Cabin)	h6 (mm)	2470[2440]	2470[2440]	2580[2550]	2580[2550]	2580[2550]
4.8	Seat height/stand height	h7 (mm)	1463	1463	1573	1573	1573
4.12	Coupling height	h10 (mm)	600	600	640	640	640
4.19	Overall length	l1 (mm)	4804	4809	5523	5535	5535
4.20	Length to face of forks	l2 (mm)	3604	3609	4023	4035	4035
4.21	Overall width	b1/b2 (mm)	1994	1994	2197	2197	2197
4.22	Fork dimensions	s/e/l (mm)	60/150/1220	65/150/1220	75/160/1520	80/160/1520	80/160/1520
4.23	Fork carriage ISO 2328, class/type A,B		4A	4A	4A	5A	5A
4.24	Fork-carriage width	b3 (mm)	1976	1976	2153	2153	2153
4.31	Ground clearance, laden, below mast	m1 (mm)	200	200	250	250	250
4.32	Ground clearance, centre of wheelbase	m2 (mm)	235	235	320	320	320
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	5163.5	5168.5	5653.8	5665.8	5665.8
4.34.2	Aisle width for pallets 800 x 1200 lengthways		5363.5	5368.5	5853.8	5865.8	5865.8
4.35	Turning radius	Wa (mm)	3360	3360	3740	3740	3740
4.36	Internal turning radius	b13 (mm)	/	/	/	/	/
5.1	Travel speed, laden/unladen	km/h	19/20	19/20	16/16	16/16	16/16
5.2	Lift speed, laden/unladen	mm/s	410/500	360/440	340/430	280/350	280/350
5.3	Lowering speed, laden/unladen	mm/s	480/420	480/420	460/400	460/400	460/400
5.6	Max. Drawbar pull, laden/unladen	N	35000	35000	35000	35000	35000
5.8	Max. gradeability, laden/unladen	%	20/30	19/30	19/25	16/22	15/21
5.9	Acceleration time, laden/unladen (0-10m)	s	/	/	/	/	/
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
5.11	Parking brake		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
6.1	Drive motor rating S2 60 min	kW	40AC	40AC	40AC	40AC	40AC
6.2	Lift motor rating at S3 15%	kW	30.2AC	30.2AC	30.2AC	30.2AC	30.2AC
6.3	Battery acc. to DIN 43531/35/36 A,B,C, no		/	/	/	/	/
6.4	Battery voltage, nominal capacity	[V]/[Ah] or kWh	96/560	96/560	96/690	96/690	96/690
6.5	Battery weight	kg	660	660	770	770	770
10.1	Operating pressure for attachments	MPa	10	10	10	10	10
10.2	Oil volume for attachments	ℓ/min	75	75	90	90	90



$AST = Wa + x + B + a$ $a = 200 \text{ mm safety clearance}$

