

4,000-5,000lb Mast:

Table with 15 columns: Type, Model, Lifting Height, Overall Height (Lowered, Extended), Free Lifting Height, Front Overhang, Tilting Range, Capacity (4000lb, 5000lb, 5000lb Lw).

With hang on sideshifter minus 400lb(200kg)with integral sideshifter minus 200lb(1,00kg).



6,000-6,500lb Mast:

Table with 15 columns: Type, Model, Lifting Height, Overall Height (Lowered, Extended), Free Lifting Height, Tilting Range, Capacity (6000lb, 6500lb).

With hang on sideshifter minus 400lb(200kg)with integral sideshifter minus 200lb(1,00kg).



HANGCHA

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ISO9001:2015



ISO14001:2015

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X Series Four-Wheel Electric Cushion Tire Forklift with Lithium-ion Technology

with capacities of 4,000 to 6,500lbs

Making Material Handling Easier SINCE 1956



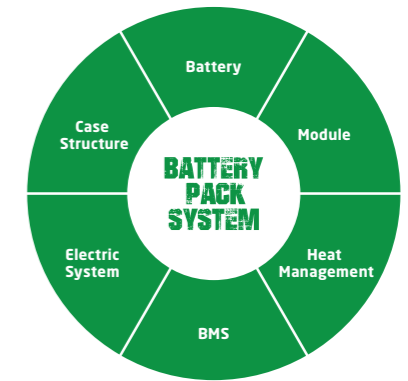
LET THE LI-ION POWER BE FREED



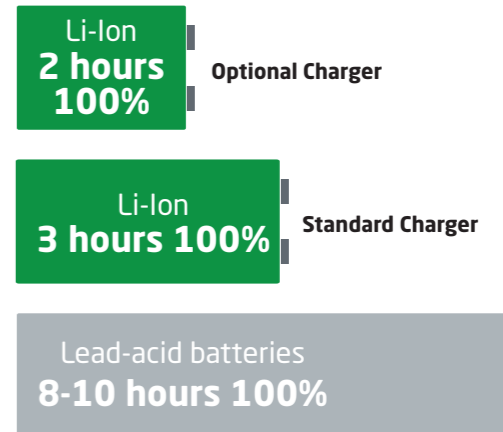
INNOVATIVE SOLUTIONS NEW POWER NOW

Lithium-ion technology (Lithium Iron-Phosphate), was developed jointly by HANGCHA and CATL for use in material handling equipment applications. These innovative and reliable battery cells and modules are manufactured to the highest standard by CATL exclusively for HANGCHA's forklift line.

- / **Battery Technology:** We use square lithium iron phosphate batteries. These are the same type of batteries used in new electric vehicles.
- / **Design:** The module uses a sturdy and lightweight aluminum alloy frame. It is also designed to provide excellent heat dissipation.
- / **Safe and Effective:** Charging efficiency as high as 98% and the thermal runaway temperature is at 600 °C and above.
- / **Adapted to Low Temperatures:** Comes standard with an electrical heating feature, ensuring normal operation in low temperatures.
- / **Quick Charging:** Fully charges in 2 hours.
- / **Efficient:** Can use opportunity charging to allow for continuous use in multi-shift operations.
- / **Long-Lasting:** 4000 charging cycles with a capacity retention greater than 80%.
- / **Maintenance-Free:** Lithium-ion batteries do not require manual maintenance such as watering.
- / **Green and clean:** The batteries are pollution-free, release zero emissions, and are recyclable.



RAPID CHARGING



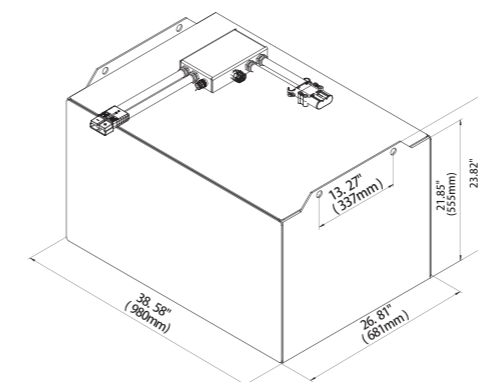
CATL Lithium Iron Phosphate Battery Pack

Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation. HANGCHA provides these Lithium Iron Phosphate (LiFePO4) battery packs with up to a 10 year or 20,000 hour warranty. See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.

Battery Capacity	Standard	Optional
Battery Capacity (V/Ah)	48V/606Ah	48V/808Ah
(kW-h)	29.09kW-h	38.78kW-h

Rapid and opportunity charging ensure continuous availability of material handling equipment

The chargers allow for fast full charging or boost charging (100 % charge in 2 hours). The lithium-ion batteries are maintenance free and do not require a battery change when used in multi-shift operations. Instead, the batteries can be charged during user breaks and shift changes which allows the forklift to continuously run during multi-shift operations.



Standard Charger (48V/200Ah)



HANGCHA PROVIDES UP TO A **10 YEAR OR 20000 HOUR** GUARANTEE ON THE LITHIUM-ION BATTERY PACKS.



X SERIES 4-WHEEL ELECTRIC CUSHION

APPEARANCE

The X Series Electric Cushion Forklift with Lithium-ion Technology is designed to be small and flexible while still maintaining a lifting capacity of up to 6,500lbs. This design allows it to be used in narrow aisle applications. The exterior of this forklift is powder coated in a durable, easy to see, green finish that designates it as lithium-ion powered.

HIGH EFFICIENCY

- / The regenerative braking system saves electric energy effectively and increases the operating time between charging.
- / The high-power oil pump motor and large displacement gear pump are applied to increase lifting and lowering speed, and improve working efficiency.
- / Several speed modes are provided to accommodate different working conditions.

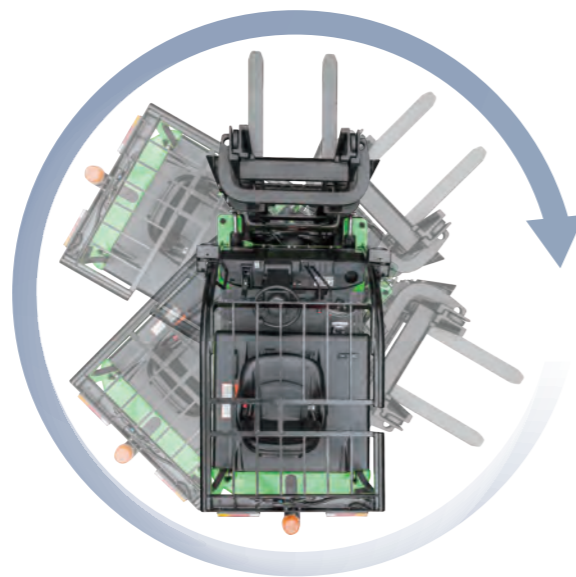
Easy Access Charging Port

Efficiently charge the forklift with the redesigned, easy access charging port.



Tight Turning Radius

Designed with a small turning radius, the forklift can be operated in narrow aisle environments.





EASY MAINTENANCE

- / Tool-free removal of baseplate enables easy service and maintenance of various systems.
- / Brake fluid can easily be added by opening a cover on the dashboard and then opening the brake fluid reservoir.



Easy Battery Replacement

The battery compartment is equipped with a side battery removal assembly for easy removal and replacement.



Easy Access

The innovative dual-door structure enables easy access to the hydraulic pump motor, pump. These doors are also designed to be both waterproof and dustproof.



COMFORT

- / The low-vibration, comfortable seat can be adjusted back and forth by 5.9". This combined with the adjustable dip angle steering wheel allows the operator to be able to find their optimal driving position.
- / The rubber & plastic pedal pad allows the operator to keep their footing when safely getting on or off the truck.
- / Power steering provides smooth, responsive operation while isolating vibration and shock.
- / The LCD color monitor instrument display allows the operator to easily and efficiently control the machine. The monitor provides information about speed level, steer angle, travel direction, battery discharge indicator, hour meter, and working mode. The operator can select various performance modes from this display to meet all working conditions.



Advanced LCD Display



ADVANCEMENT

- / The MOSFET integrated control system provides accurate control of traveling, fork movement, and adjustment of the performance of the motors. The forklift will also not roll back on a ramp thanks to the controller. The controller, connectors, battery plug, and emergency switch are all parts from industry known suppliers to ensure reliability, performance, and ease of service.



Easy Access Brake Fluid Reservoir



SAFETY



When turning, the controller automatically reduces speed to keep the load and forklift stable.



Optional rear grip with horn button offers an additional safety feature when the operator is reversing the forklift.



Optional Operator Presence Sensing (OPS) System will cut off all actions of the mast and running actions of the truck to increase safety when the operator leaves the seat.

Fork Safety Features

- / When the forks are being lowered, a control valve maintains the lowering speed. The lowering safety valve prevents forks from dropping down in case of sudden damage to the hydraulic line.
- / The fork features both electronic and hydraulic overload protection sensors.



Strong Overhead Guard

Exceeding ANSI and ITSDF regulations, the overhead guard offers great protection and excellent all-around visibility.



Excellent Visibility for Safe Operation

The limited free lift 2 stage mast provides the operator with optimal forward visibility. The panoramic rear view mirror allows the operator to have wider rear visibility when operating the forklift.



LED Safety Lamps

LED headlamps and rear combination tail lamps offer better visibility to the operators and workers around the forklift under various conditions.



STANDARD SPECIFICATION

- / 4 Pre-Set Performance Modes (Super, Power, Economy, SPE)
- / LED Headlamp, Direction Indication Lamp, & LED Rear Combination Lights
- / DC-DC Converter
- / Backup Alarm
- / Dual-Spool Multi-Way Valve
- / Load Sensing, On-Demand, AC Controlled Hydraulic Power Steering
- / Smooth Cushion Tires
- / Panoramic Rearview Mirror
- / 30.5" Battery Compartment (4000 - 5000 lb)
- / 34.3" Battery Compartment (5000 - 6500 lb)
- / Limited Free Lift 2 Stage Mast
- / AC Traction Motor
- / AC Pump Motor
- / Strobe Light

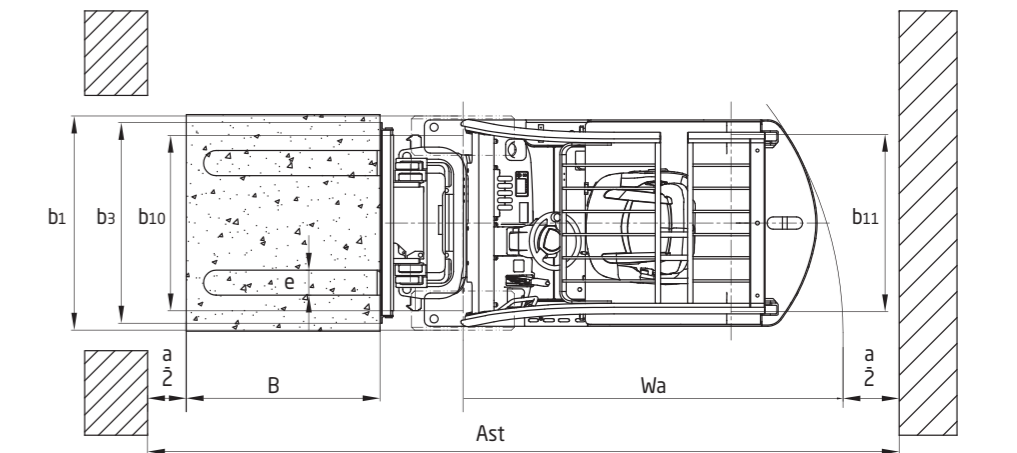
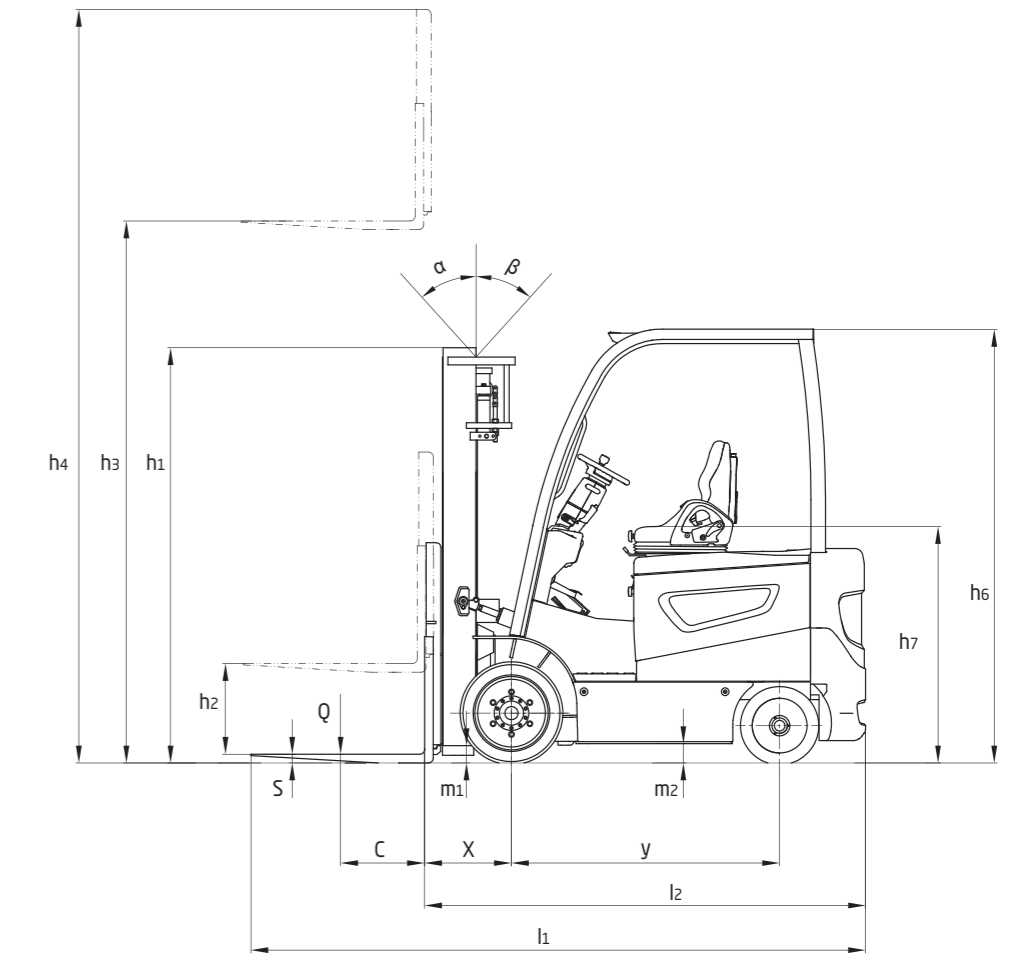
OPTIONS

- / Cold Storage
- / Blue Light
- / Battery Charger
- / Fire Extinguisher
- / Finger Tip Controls
- / 12 Volt Power Supply
- / Battery Side Extraction
- / Traction Tires
- / Non-Marking Tires
- / Full Free Lift 3 Stage Mast
- / Full Free Lift 3 Stage Mast
- / Other Lengths of Forks
- / Sideshifter
- / Other Accessories
- / Drive In Rack Overhead Guard
- / Full Suspension Seat
- / Operator Presence Sensing System
- / Rear Grip with Horn Button

4,000-6,500lb X Series 4-Wheel Electric Cushion Tire Forklift with Lithium-ion Technology Specification

				HANGCHA GROUP CO.,LTD.				
Distinguishing Marks	1.1	Manufacturer		FB20CLi	FB25CLi	FB30CLi	FB32CLi	
		HCFA Model		CPD20-XD2-CL	CPD25-XD2-CL	CPD30-XD2-CL	CPD32-XD2-CL	
	1.2	Model		CPD20-XD2-CL	CPD25-XD2-CL	CPD30-XD2-CL	CPD32-XD2-CL	
	1.3	Power Type: Electric, Gas, Diesel, LPG		Electric	Electric	Electric	Electric	
	1.4	Operation Type		Sit Down	Sit Down	Sit Down	Sit Down	
	1.5	Load Capacity/Rated Load	Q	lb(kg)	4000(1810)	5000(2270)	6000(2720)	6500(2950)
	1.6	Load Centre Distance	c	in(mm)	24(600)	24(600)	24(600)	24(600)
	1.7	Load Distance, centre of drive axle to fork	x	in(mm)	6.8(427)	16.8(427)	17.7(450)	17.7(450)
1.8	Wheelbase	y	in(mm)	51(1295)	51(1295)	54.7(1390)	54.7(1390)	
Weight	2.1	Service Weight		lb(kg)	8466(3840)	9226(4185)	10141(4600)	10648(4830)
Tires	3.1	Tires Type		Cushion	Cushion	Cushion	Cushion	
	3.2	Tire Size, front		21x7x15	21x7x15	21x8x15	21x8x15	
	3.3	Tire Size, rear		16x5x10-1/2	16x5x10-1/2	16x6x10-1/2	16x6x10-1/2	
	3.4	Number of Wheels, front / rear(x=driven)		2x/2	2x/2	2x/2	2x/2	
	3.5	Track Width, front	b ₁₀	in(mm)	35(890)	35(890)	35.8(910)	35.8(910)
	3.6	Track Width, rear	b ₁₁	in(mm)	36.2(920)	36.2(920)	36.2(920)	36.2(920)
Dimensions	4.1	Tilt of Mast/Fork Carriage Forward/Backward	α/β	(°)	6/8	6/8	6/8	6/8
	4.2	Height, mast lowered	h ₁	in(mm)	77.6(1970)	77.6(1970)	77.6(1970)	77.6(1970)
	4.3	Height, mast extended	h ₄	in(mm)	159.3(4045)	159.3(4045)	163.2(4145)	163.2(4145)
	4.4	Free Lift	h ₂	in(mm)	5.5(140)	5.5(140)	5.3(135)	5.3(135)
	4.5	Lift	h ₃	in(mm)	118.1(3000)	118.1(3000)	118.1(3000)	118.1(3000)
	4.6	Overhead Guard Height	h ₅	in(mm)	88.6(2250)	88.6(2250)	88.6(2250)	88.6(2250)
	4.7	Overall Length	l ₁	in(mm)	127.5(3238)	127.5(3238)	133.3(3386)	133.3(3386)
	4.8	Length to Fork Face	l ₂	in(mm)	85.4(2168)	85.4(2168)	91.2(2316)	91.2(2316)
	4.9	Overall Width	b ₁	in(mm)	42.1(1070)	42.1(1070)	43.8(1113)	43.8(1113)
	4.10	Fork Dimensions	s×e×l	in(mm)	1.6×5×42(40/125/1070)	1.6×5×42(40/125/1070)	1.8×5×42(45/125/1070)	1.8×5×42(45/125/1070)
	4.11	Fork Carriage DIN 15 173, class/type A/B			IIA	IIA	IIA	IIA
	4.12	Fork-Carriage Width	b ₃	in(mm)	40.9(1038)	40.9(1038)	43.3(1100)	43.3(1100)
	4.13	Ground Clearance, with load, below mast	m ₁	in(mm)	3.5(90)	3.5(90)	3.5(90)	3.5(90)
	4.14	Ground Clearance, center of wheelbase	m ₂	in(mm)	3.9(100)	3.9(100)	3.9(100)	3.9(100)
	4.15	Aisle Width for Pallets 39" x 47" Crossways	Ast	in(mm)	137.6(3490)	137.6(3490)	142.5(3650)	143.3(3650)
	4.16	Aisle width for pallets 31.5" x 47" Lengthway	Ast	in(mm)	145.5(3690)	145.5(3690)	150.4(3850)	151.2(3850)
	4.17	Turning Radius, outside	Wa	in(mm)	73.3(1863)	73.3(1863)	78.7(2000)	78.7(2000)
Performance Data	5.1	Travel Speed, with/without load		mph (km/h)	11.5 (18.5)/11.5(18.5)	11.5 (18.5)/11.5(18.5)	11.2(18)/11.5(18.5)	11.2(18)/11.5(18.5)
	5.2	Lift Speed, with/without load		fpm (mm/s)	88.6(450)/129.9(660)	78.7(400)/129.9(660)	69(350)/116.1(590)	65(330)/116.1(590)
	5.3	Lowering Speed, with/without load		fpm (mm/s)	98.4(500)/98.4(500)	98.4(500)/98.4(500)	98.4(500)/98.4(500)	98.4(500)/98.4(500)
	5.4	Max. Drawbar Pull, with/without load		lbf(N)	3316(14750)/2142(9530)	3290(14640)/2010(8950)	3160(14070)/2350(10440)	3160(14070)/2270(10100)
	5.5	Max. Gradeability, with/without load		%	23/25	19/21	17/20	17/19
	5.6	Service Brake, operation / control			Pedal / Hydraulic	Pedal / Hydraulic	Pedal / Hydraulic	Pedal / Hydraulic
	5.7	Parking Brake, operation / control			Hand / Mechanical	Hand / Mechanical	Hand / Mechanical	Hand / Mechanical
	5.8	Steering, type			Hydraulic	Hydraulic	Hydraulic	Hydraulic
Drive	6.1	Drive Motor, 60 minute rating		HP (kW)	24.1(18)	24.1(18)	24.1(18)	24.1(18)
	6.2	Pump Motor, 15 minute rating		HP (kW)	24.1(18)	24.1(18)	24.1(18)	24.1(18)
	6.3	Battery Voltage		volts	48	48	48	48
	6.4	Battery Capacity		Ah/6 hr. rate	606	606	606	606
	6.6	Battery Weight		lb(kg)	849(385)	849(385)	849(385)	849(385)
Other	7.1	Drive Motor Control			MOSFET AC	MOSFET AC	MOSFET AC	MOSFET AC
	7.2	Working Pressure for Attachments		psi (bar)	2698(181)	2698(181)	2698(181)	2698(181)

NOTE: Most values shown in this publication are rounded. Therefore, direct conversion between metric and English or Imperial may be slightly different from those shown. The performance of machines is affected by the condition of the vehicle and how it is equipped as well as the nature and condition of the operating area. If these specifications are critical or if your needs exceed the specifications shown here, discuss the proposed application with your authorized dealer.



$$Ast = B + Wa + x + a$$

B: Load Length a: Clearance (7.9inch)

