



Company Address:
1338 Hundred Oaks Drive, Suite DD
Charlotte, NC 28217

Toll Free: (888) 652-8395
Phone: (980) 888-8335
Fax: (980) 888-8336

america@hcforklift.com
www.hcforkliftamerica.com



2025 VERSION 4/COPYRIGHT 2025

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.

XC Series Electric Lithium-ion Cushion Forklift

with capacity of 13,500 to 15,500lbs



APPEARANCE

The 13,500-15,500lb XC Series Electric Lithium-ion Cushion Forklift is a brand new offering in Hangcha's growing line up of Lithium-ion Electric Forklifts. Designed to perform in the same harsh applications that similar I.C. cushion forklifts are found in while outperforming comparable lead-acid powered cushion forklifts, this new model finally gives end-users an integrated lithium-ion option for a 13,500-15,500lb cushion forklift. Thanks to its low profile, open counterweight design, it is able to comfortably navigate tight warehouse and manufacturing applications without sacrificing visibility. The exterior of this electric forklift is also powder coated in a durable, easy to see, green finish that designates it as lithium-ion powered.



COMFORTABLE OPERATION

In developing the XC Series Electric Lithium-ion Cushion Forklift, ergonomic design, comfort, and ease of operation were carefully considered. Optimized with the end user in mind, the XC Series Forklift helps reduce operator fatigue for longer run time.

Ergonomic Design

- / Designed as an integrated lithium-ion powered forklift, allows for the battery pack to sit lower in the chassis which increases the size of the operator compartment to create a more ergonomic and comfortable experience.
- / The large colored display allows operators to clearly see the status of the forklift. Operators can easily adjust settings and fine-tune each forklift thanks to the display's wide range of options.
- / The high positioned, shock-absorbing steer axle provides operators with a more comfortable operating experience.
- / The forklift's full suspension seat and high-positioned, shock-absorbing steer axle provide the operator with a more comfortable ride quality when operating the forklift.
- / The panoramic rear view mirror and reverse horn button on the rear handle allow more comfortable operation when using the forklift in reverse.



The ergonomically designed operator compartment allows the operator to have a wide field of vision.



The large color display allows for the forklift's parameters to easily be changed.

SAFE

Hangcha designed the XC Series Electric Lithium-ion Cushion Forklift to be safe. By using a dedicated chassis design, low profile counterweight, OPS System, automatic deceleration while turning feature,, operators are able to work in any environment safely and effectively.

- / The XC Series Electric Lithium-ion Cushion Forklift features a dedicated lithium-ion design. This means that the lithium-ion battery pack is placed lower in the chassis. By doing this, Hangcha is able to increase the longitudinal and lateral stability of the forklift and give it a lower center of gravity. This provides the operator with a stable and safe forklift.
- / The XC Series Electric Lithium-ion Cushion Forklift is designed with a low profile counterweight to improve operator visibility in all directions.
- / The forklift features a great ground clearance to ensure it works in more operational environments.
- / An IPX4 waterproof rating guarantees that the XC Series Electric Lithium-ion Cushion Forklift will operate normally in any weather condition.



The slip-resistant step and lengthened handrail allow easy in and out of the forklift.



ENERGY SAVING & EFFICIENT

Designed around an 96V system, the XC Series Electric Lithium-ion Cushion Forklift provides users with an energy saving and efficient alternative to similarly spec'd I.C powered forklifts.

- / The XC Series Electric Lithium-ion Cushion Forklift features an efficient high-torque electric motor to significantly improve the forklift's travel speed, gradeability, and lifting speed.
- / The 96V system manages energy more efficiently. Combined with the large lithium-ion battery and dual charging ports, operators can use the forklift for extended periods of time.
- / The standard load-sensitive multi-way valves and internal hydraulic pumps, ensure precise and stable operation while reducing energy consumption.
- / The open counterweight, radiator, and large electric fans increase the hydraulic system's efficiency to ensure optimal performance in harsh applications.



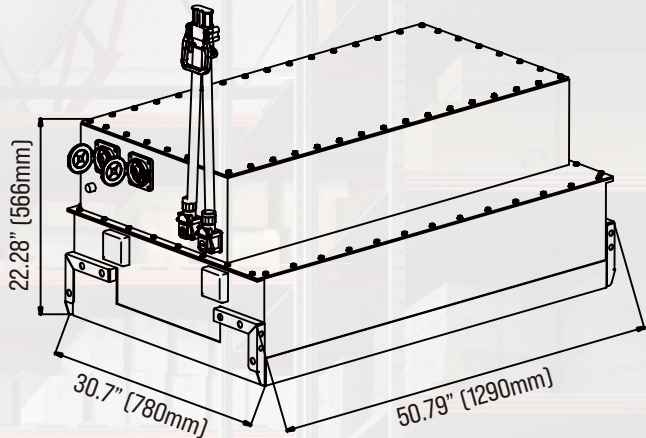
The open counterweight design provides ample airflow for the hydraulic cooling system.



LITHIUM-ION POWER

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 7 year or 15,000 hour warranty.
- / See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.



X Series Electric Lithium-ion Cushion Forklift Battery Capacity	
Load Capacity (lb)	Standard Battery Capacity (V/Ah) (kW-h)
13,500-15,500lb	96V/800Ah 76.80kW-h

X Series Electric Lithium-ion Cushion Forklift Battery Running Times	
Load Capacity (lb)	Standard Battery Running Time (hour)
13,500-15,500lb	8 hours

*Run time will be dependent on customer application and use.

Easy Access Dual Charging Ports

The newly designed forklift features easy access, dual charging ports on the right side of the forklift to provide operators with a convenient way to charge the forklift.



Maintenance-Free Battery Pack

The forklift features a Lithium Iron Phosphate (LiFePO₄) battery pack doesn't require any regular maintenance performed on the battery pack.



<2 Hour Charging Time

The XC Series Electric Lithium-ion Pneumatic Forklift is able to charge in less than 2 hours taking advantage of the forklift's dual charging features.



RELIABLE & EASY TO MAINTAIN

Hangcha designed the XC Series Electric Lithium-ion Cushion Forklift to be reliable and easy to maintain. By using key components, specific designs, and testing, Hangcha is able to build a reliable forklift that operators can count on.

- / Switches, connectors, instruments, and other key parts are sourced from industry known suppliers to ensure reliability, performance, and ease of service.
- / The XC Series Electric Lithium-ion Cushion Forklift features removable front and rear floor panels and a wide opened hood to facilitate easy access to main components.
- / The XC Series uses the same masts that are found on our similar I.C. powered cushion forklift to ensure better reliability, visibility, safety, and maintainability.

STANDARD CONFIGURATION

- / Integral Stamped Side Panel and Hood
- / Stamped Stainless Steel Boarding Step
- / Lithium-ion Battery Pack
- / Dual Charging Ports
- / Silent Gear Pump

- / Load Sensing Dual Hydraulic Multiway Valves
- / Automatic Deceleration while Turning Function
- / Tow Pin
- / Smooth Cushion Tires
- / Panoramic Rear View Mirror

- / SPE Power Selection
- / Operator Presence Sensing System (OPS)
- / Multi-Function Instrument Cluster
- / Mechanical Parking Brake
- / Emergency Cut-Off Switch

- / Reverse Alarm
- / Rear Reverse Grip with Horn Button
- / Strobe Light
- / LED Combination Headlights & Taillights

OPTIONS

- / Non-Marking Smooth Cushion Tire
- / Black Treaded Cushion Tire
- / Non-Marking Treaded Cushion Tire
- / Full Free Lift 3 Stage Mast
- / Integral Sideshifter

- / Hydraulic Triple Multiway Valve
- / Hydraulic Quadruple Multiway Valve
- / Hydraulic Quintuple Multiway Valve
- / Various Optional Attachments
- / Various Fork Lengths

- / Left & Right Rearview Mirrors
- / Cabin
- / Higher or Lower Overhead Guard Height
- / USB Port
- / 12V Cigarette Lighter

- / Independent Hydraulic Oil Radiator
- / Front/Rear Blue Lights
- / Left & Right LED Work Lights
- / Three-Sided, One-Line Projection Light



13,500lb Mast Specification

Type	Model	Lifting height	Overall height				Free lift height		Tilt range		Capacity
			Lowered	Extended			With backrest	Without backrest	FWD	RWD	Load Capacity at 24 in [600mm]
				With backrest	Without backrest						13500lb [6t]
2-stage wide view mast	XBC70M250	98.4[2500]	88.6[2250]	151.6[3857]	139.5[3543]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M270	106.3[2700]	92.5[2350]	159.7[4057]	147.4[3743]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M300	118.1[3000]	98.4[2500]	171.5[4357]	159.2[4043]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M330	129.9[3300]	104.3[2650]	183.3[4657]	171[4343]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M340	133.9[3400]	106.3[2700]	187.3[4757]	174.9[4443]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M350	137.8[3500]	108.3[2750]	191.2[4857]	178.9[4543]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M360	141.7[3600]	110.2[2800]	195.2[4957]	182.8[4643]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M400	157.5[4000]	119.7[3040]	210.9[5357]	198.6[5045]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M430	169.3[4300]	125.6[3190]	222.7[5657]	210.4[5345]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M440	173.2[4400]	127.6[3240]	226.7[5757]	214.4[5445]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M450	177.2[4500]	129.5[3290]	230.6[5857]	218.3[5545]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M480	189[4800]	135.4[3440]	242.4[6157]	230.1[5845]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M500	196.9[5000]	139.4[3540]	250.3[6357]	238[6045]		6.7[170]	6.7[170]	6	10	13500[6000]
	XBC70M540	212.6[5400]	147.2[3740]	266[6757]	253.7[6445]		6.7[170]	6.7[170]	6	10	13275[5900]
3-stage full-free lifting mast	XBC70N360	141.7[3600]	86.6[2200]	195.2[4957]	189.5[4813]	33.6[853]	39.3[997]	6	6		13500[6000]
	XBC70N400	157.5[4000]	92.5[2350]	210.9[5357]	205.2[5213]	39.5[1003]	45.2[1147]	6	6		13500[6000]
	XBC70N430	169.3[4300]	96.1[2440]	222.7[5657]	217[5513]	43[1093]	48.7[1237]	6	6		13500[6000]
	XBC70N450	177.2[4500]	98.4[2500]	230.6[5857]	224.9[5713]	45.4[1153]	51.1[1297]	6	6		13500[6000]
	XBC70N470	185[4700]	101.2[2570]	238.5[6057]	232.8[5913]	48.1[1223]	53.8[1367]	6	6		13500[6000]
	XBC70N480	189[4800]	102.2[2600]	242.4[6157]	236.7[6013]	49.3[1253]	55[1397]	6	6		13388[5950]
	XBC70N500	196.9[5000]	105.1[2670]	250.3[6357]	244.6[6213]	52.1[1323]	57.8[1467]	6	6		13163[5850]
	XBC70N550	216.5[5500]	111.8[2840]	270[6857]	264.3[6713]	58.8[1493]	64.4[1637]	6	6		12713[5650]
	XBC70N560	220.5[5600]	113[2870]	273.9[6957]	268.2[6813]	60[1523]	65.6[1667]	6	6		12600[5600]
	XBC70N600	236.2[6000]	118.1[3000]	289.6[7357]	284[7213]	65.1[1653]	70.7[1797]	6	6		12263[5450]
	XBC70N620	244.1[6200]	122.8[3120]	297.5[7557]	291.9[7413]	69.8[1773]	75.5[1917]	6	6		11925[5300]

SUBTRACT 400kg WITH INTEGRAL SIDESHIFTER,SUBTRACT 500kg WITH EXTERNAL SIDESHIFTER.

15,500lb Mast Specification

Type	Model	Lifting height	Lowered	Overall height			Free lift height		Tilt range		Capacity
				With backrest	Without backrest		With backrest	Without backrest	FWD	RWD	Load Capacity at 24 in [600mm]
					in[mm]						15500lb [7t]
2-stage wide view mast	XBC70M250	98.4[2500]	88.6[2250]	151.6[3857]	139.5[3543]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M270	106.3[2700]	92.5[2350]	159.7[4057]	147.4[3743]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M300	118.1[3000]	98.4[2500]	171.5[4357]	159.2[4043]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M330	129.9[3300]	104.3[2650]	183.3[4657]	171[4343]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M340	133.9[3400]	106.3[2700]	187.3[4757]	174.9[4443]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M350	137.8[3500]	108.3[2750]	191.2[4857]	178.9[4543]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M360	141.7[3600]	110.2[2800]	195.2[4957]	182.8[4643]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M400	157.5[4000]	119.7[3040]	210.9[5357]	198.6[5045]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M430	169.3[4300]	125.6[3190]	222.7[5657]	210.4[5345]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M440	173.2[4400]	127.6[3240]	226.7[5757]	214.4[5445]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M450	177.2[4500]	129.5[3290]	230.6[5857]	218.3[5545]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M480	189[4800]	135.4[3440]	242.4[6157]	230.1[5845]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M500	196.9[5000]	139.4[3540]	250.3[6357]	238[6045]		6.9[175]	6.9[175]	6	10	15500[7000]
	XBC70M540	212.6[5400]	147.2[3740]	266[6757]	253.7[6445]		6.9[175]	6.9[175]	6	10	15279[6900]
3-stage full-free lifting mast	XBC70N360	141.7[3600]	86.6[2200]	195.2[4957]	189.5[4813]	33.6[853]	39.3[997]	6	6		15500[7000]
	XBC70N400	157.5[4000]	92.5[2350]	210.9[5357]	205.2[5213]	39.5[1003]	45.2[1147]	6	6		15500[7000]
	XBC70N430	169.3[4300]	96.1[2440]	222.7[5657]	217[5513]	43[1093]	48.7[1237]	6	6		15500[7000]
	XBC70N450	177.2[4500]	98.4[2500]	230.6[5857]	224.9[5713]	45.4[1153]	51.1[1297]	6	6		15500[7000]
	XBC70N470	185[4700]	101.2[2570]	238.5[6057]	232.8[5913]	48.1[1223]	53.8[1367]	6	6		15500[7000]
	XBC70N480	189[4800]	102.2[2600]	242.4[6157]	236.7[6013]	49.3[1253]	55[1397]	6	6		15389[6950]
	XBC70N500	196.9[5000]	105.1[2670]	250.3[6357]	244.6[6213]	52.1[1323]	57.8[1467]	6	6		15168[6850]
	XBC70N550	216.5[5500]	111.8[2840]	270[6857]	264.3[6713]	58.8[1493]	64.4[1637]	6	6		14725[6650]
	XBC70N560	220.5[5600]	113[2870]	273.9[6957]	268.2[6813]	60[1523]	65.6[1667]	6	6		14614[6600]
	XBC70N600	236.2[6000]	118.1[3000]	289.6[7357]	284[7213]	65.1[1653]	70.7[1797]	6	6		14282[6450]
	XBC70N620	244.1[6200]	122.8[3120]	297.5[7557]	291.9[7413]	69.8[1773]	75.5[1917]	6	6		13950[6300]

SUBTRACT 400kg WITH INTEGRAL SIDESHIFTER,SUBTRACT 500kg WITH EXTERNAL SIDESHIFTER.

13,500-15,500lb XC Series Electric Lithium-ion Cushion Forklift

Distinguishing Marks		Manufacturer		HANGCHA GROUP CO., LTD.	
	1.1	HCFA Model Number		FB60CLi	FB70CLi
	1.2	Manufacturer's Type Designation		CPD60-XD2-CSI	CPD70-XD2-CSI
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric(96V)	Electric(96V)
	1.4	Operator Type: hand, pedestrian, standing, seated, order-picker		Seated	Seated
	1.5	Load Capacity/Rated Load	lb/kg	13500(6000)	15500(7000)
	1.6	Load Center	c	in(mm)	24(600)
Weight	1.8	Load Distance, centre of drive axle to fork	x	in(mm)	19.6(498)
	1.9	Wheelbase	y	in(mm)	76.8(1950)
	2.1	Service Weight		lb(kg)	20283/9200
Tires & Chassis	2.2	Axle Loading, laden front/rear		lb(kg)	29917/3593(13570/1630)
	2.3	Axle Loading, unladen front/rear		lb(kg)	8025/12258(3640/5560)
	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		solid rubber	solid rubber
	3.2	Tire Size, front		28x12x22	28x12x22
	3.3	Tire Size, rear		22x10x16	22x10x16
	3.5	Wheels, number front / rear (x= driven wheels)		2x/2	2x/2
Dimensions	3.6	Track Width, front	b10	in(mm)	44.6(1133)
	3.7	Track Width, rear	b11	in(mm)	46.6(1184)
	4.1	Tilt of Mast/Fork Carriage Forward/Backward	a/b	°	6/10
	4.2	Height, mast lowered	h1	in(mm)	98.4(2500)
	4.3	Free Lift	h2	in(mm)	6.7(170)
	4.4	Lift	h3	in(mm)	118.1(3000)
	4.5	Height, mast extended	h4	in(mm)	171.5(4357)
	4.7	Height of Overhead Guard (cabin)	h6	in(mm)	92.1(2340)
	4.19	Overall Length	l1	in(mm)	165.6(4205)
	4.20	Length to Face of Forks	l2	in(mm)	117.5(2985)
	4.21	Overall Width	b1	in(mm)	56.6(1438)
	4.22	Fork Dimensions	s / e / l	in(mm)	2.4x6x48(60x150x1220)
	4.23	Fork Carriage DIN 15 173---1S0 2328, Class/ Type A,B		IVA	IVA
	4.24	Fork-Carriage Width	b3	in(mm)	49.2(1250)
	4.31	Ground Clearance, laden, below mast	m1	in(mm)	4.3(110)
	4.32	Ground Clearance, centre of wheelbase	m2	in(mm)	6.2(157)
	4.34.1	Aisle Width for Pallets 40" x 48" Crossways	Ast	in(mm)	168.4(4278)
	4.34.2	Aisle Width for Pallets 32" x 48" Crossways		in(mm)	176.3(4478)
	4.35	Turning Radius	Wa	in(mm)	101.6(2580)
Performance Data	5.1	Travel Speed, laden/unladen	mph (km/h)	11.5/12.7(18.5/20.5)	11.5/12.7(18.5/20.5)
	5.2	Lift Speed, laden/unladen	fpm (m/s)	78.7/108.2(0.4/0.55)	78.7/108.2(0.4/0.55)
	5.3	Lowering Speed, laden/unladen	fpm (m/s)	94.5/72.8(0.48/0.37)	94.5/72.8(0.48/0.37)
	5.6	Max. Drawbar Pull, laden/unladen	lbf(N)	6969(31000)/-	6969(31000)/-
	5.8	Max. Gradeability, laden/unladen	%	16/-	16/-
	5.10	Service Brake		Hydraulic	Hydraulic
Electric Motor	5.11	Parking Brake		Mechanical	Mechanical
	6.1	Drive Motor Rating S2 60 min (front/rear)	HP (kW)	42.9(32)	42.9(32)
	6.2	Lift Motor Rating at S3 15%	HP (kW)	2x30.8(2x23)	2x30.8(2x23)
	6.4	Battery Voltage, nominal capacity K5	V/Ah	96/800	96/800
	6.5	Battery Weight, maximum	lb(kg)	1532(695)	1532(695)
Additional Data	6.6	Battery Weight, minimum	lb(kg)	1466(665)	1466(665)
	10.1	Operating Pressure for Attachments	psi(MPa)	3132.8(21.6)	3132.8(21.6)
	10.2	Oil Volume for Attachments	gal/min(l/min)	8.5(32)	8.5(32)

