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X Series Cushion Tire Forklift Truck With Lithium Power

with capacities of 8,000 to 12,000lbs

The World of Hangcha
SINCE 1956



MORE MANEUVERABLE AND ADAPTABLE



Classic exterior

/ Inheriting the family exterior design of dedicated XC and XH series electric forklifts with lithium-ion technology, the vehicle has a compact, smooth and sturdy profile.

Comfortable

/ Generous foot and overhead space enable better driving experience.
/ A high-position shock-absorbing steering axle and a fully-suspended seat offer more comfort for the operator.

Safe and reliable

/ A dedicated lithium battery forklift platform enables a low center of gravity as well as longitudinal and lateral stability of the vehicle.
/ A newly developed wide-view mast and a low counterweight enable better driving vision.
/ OPS system and a turning deceleration function provided for the standard configuration ensure driving safety.
/ The mature battery, motor and electric control technologies and the parts with high protection performance are applicable to multiple operating conditions.

Easy maintenance

/ Movable left and right side panels, rear baseplate and wide-opened hood facilitate easy access to main parts to be maintained.
/ A laterally-removed roller-equipped battery compartment facilitates safe and easy operations.
/ A removable drive unit has a lower maintenance cost.



Steering axle



Larger leg and overhead accommodations



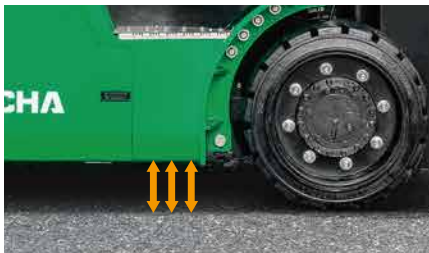
Wide-opened hood



A laterally-removed roller-equipped battery compartment

Energy-saving and efficient

- / A powerful high-speed and high-torque traction motor offers higher driving and lifting speeds.
- / A more compact vehicle enables flexible ground clearance a narrow space.
- / Better energy efficiency management, optional bigger capacity batteries and dual charging ports support a long battery life and continuous operation.
- / A load-sensing multiway valve, as well as an internal gear pump with two-stage pressure design and a slope-shaped operation curve, which enable less energy consumption and accurate and stable manipulation, are provided for the standard configuration.



Increased ground clearance enables a better passing ability and more application scenarios.



Standard Specification

- / High-power AC traction motor
- / High-power AC pump motor
- / INMOTION controller
- / Smooth cushion tire
- / Low-noise gear pump
- / Multifunctional interactive color-screen instruments
- / Integral rubber pedal pad
- / LED lighting system
- / Stamped iron hood and side panels
- / Stamped stainless steel boarding step
- / The gas spring of the hood with a touch-proof mechanism
- / Handbrake with a touch-proof mechanism
- / Turning deceleration function
- / OPS system
- / Soft landing
- / Multiple speed modes
- / DC converter
- / Tilt cylinder piston sleeve
- / Electronic cooling fan
- / 2nd valve
- / Emergency shut-off switch
- / Reversing buzzer
- / Traction pin
- / Load-sensing multiway valve
- / Duplex wide-view mast
- / Locking valve in the tilting fuel circuit
- / Small-diameter steering wheel
- / Hydraulic oil tank oil suction filter cartridge
- / Hydraulic oil tank oil recycling filter cartridge
- / Steering wheel adjuster
- / Central rearview mirror
- / Cup holder
- / Lithium battery pack with heating system

Options

- / Large-capacity lithium battery pack
- / Start with a PIN code or by a card
- / Permanent magnet traction motor
- / Permanent magnet pump motor
- / Enpower controller
- / Non-marking solid tire
- / Left and right rearview mirrors
- / Reversing video
- / Front and rear blue lights
- / Three-sided one-line projection light
- / Rear working light
- / Charger
- / Cold storage
- / Reversing armrest with a horn button
- / Hood with a key lock
- / Triple multiway valve
- / Quad multiway valve
- / Quintuple multiway valve
- / Fingertip controls
- / Grammer suspended seat
- / Large forced cooling fan
- / Auxiliary hydraulic valve group
- / Fork lifting buffering
- / Fire extinguisher

Optional mast parts

- / Duplex full free mast
- / Triplex mast
- / Widened / heightened load backrest
- / Widened fork carriage
- / Dedicated fork

Optional attachments

- / Paper roll clamp
- / Sideshifter
- / Rotating flat clamp
- / Rotating fork
- / Load stabilizer
- / Fork extension
- / Multi-drum clamp
- / Load release device
- / Bale clamp
- / Carton clamp
- / Oil barrel clamp
- / Push-pull device
- / Dumping clamp
- / Bucket
- / Crane arm
- / Lifting hook
- / String pole
- / Extended fork
- / Weighing system



8,000lbs Mast

Type	Model	Lifting height	Overall height				Free lifting height		Tilt range		Capacity	
			Lowered	Extended		With backrest	Without backrest	Forward	Backward	Load capacity at 24 in (600mm)	8000lb(3.5t)	
				With backrest	Without backrest							
Duplex mast		in(mm)	in(mm)	in(mm)	in(mm)	in(mm)	in(mm)	deg	deg	lb(kg)		
	XC35M250	98.4(2500)	78.7(2000)	146.7(3725)	131.7(3345)	4.3(110)	4.3(110)	5	6	8000(3500)		
	XC35M280	110.2(2800)	84.6(2150)	158.5(4025)	143.5(3645)	4.3(110)	4.3(110)	5	6	8000(3500)		
	XC35M300	118.1(3000)	88.6(2250)	166.3(4225)	151.4(3845)	4.3(110)	4.3(110)	5	6	8000(3500)		
	XC35M330	129.9(3300)	97.6(2480)	178.1(4525)	163.2(4145)	4.3(110)	4.3(110)	5	6	8000(3500)		
	XC35M340	133.9(3400)	99.6(2530)	182.1(4625)	167.1(4245)	4.3(110)	4.3(110)	5	6	8000(3500)		
	XC35M350	137.8(3500)	101.6(2580)	186.1(4725)	171.1(4345)	4.3(110)	4.3(110)	5	6	8000(3500)		
	XC35M370	145.7(3700)	105.5(2680)	193.9(4925)	178.9(4545)	4.3(110)	4.3(110)	5	6	8000(3500)		
Triplex mast	XC35M400	157.5(4000)	111.4(2830)	205.7(5225)	190.7(4845)	4.3(110)	4.3(110)	5	6	8000(3500)		
	XC35N400	157.5(4000)	82.1(2085)	205.7(5225)	192.1(4880)	33.9(860)	47.4(1205)	5	6	8000(3500)		
	XC35N430	169.3(4300)	86(2185)	217.5(5525)	203.9(5180)	37.8(960)	51.4(1305)	5	6	8000(3500)		
	XC35N450	177.2(4500)	88.6(2250)	225.4(5725)	211.8(5380)	40.4(1025)	53.9(1370)	5	6	8000(3500)		
	XC35N470	185(4700)	91.1(2315)	233.3(5925)	219.7(5580)	42.9(1090)	56.5(1435)	5	6	8000(3500)		
	XC35N480	189(4800)	93.1(2365)	237.2(6025)	223.6(5680)	44.9(1140)	58.5(1485)	5	6	8000(3500)		
	XC35N500	196.9(5000)	97.6(2480)	245.1(6225)	231.5(5880)	49.4(1255)	63(1600)	5	6	8000(3500)		
	XC35N530	208.7(5300)	101.6(2580)	256.9(6525)	243.3(6180)	53.3(1355)	66.9(1700)	5	6	8000(3500)		
	XC35N550	216.5(5500)	105.5(2680)	264.8(6725)	251.2(6380)	57.3(1455)	70.9(1800)	5	6	7480(3400)		
	XC35N600	236.2(6000)	115.6(2935)	284.4(7225)	273(6935)	67.3(1710)	80.9(2055)	5	6	6930(3150)		

With sideshifter minus 550lb(250kg),with integral sideshifter minus 330lb(150kg).

10,000lbs Mast

Type	Model	Lifting height	Overall height				Free lifting height		Tilt range		Capacity		
			Lowered	Extended		With backrest	Without backrest	With backrest	Without backrest	Forward	Backward	Load capacity at 24 in (600mm)	10000lb(4.5t)
				in(mm)	in(mm)								
Duplex mast	XC45M250	98.4(2500)	78.7(2000)	146.7(3725)	131.7(3345)	4.3(110)	4.3(110)	5	6		10000(4500)		
	XC45M280	110.2(2800)	84.6(2150)	158.5(4025)	143.5(3645)	4.3(110)	4.3(110)	5	6		10000(4500)		
	XC45M300	118.1(3000)	88.6(2250)	166.3(4225)	151.4(3845)	4.3(110)	4.3(110)	5	6		10000(4500)		
	XC45M330	129.9(3300)	97.6(2480)	178.1(4525)	163.2(4145)	4.3(110)	4.3(110)	5	6		10000(4500)		
	XC45M340	133.9(3400)	99.6(2530)	182.1(4625)	167.1(4245)	4.3(110)	4.3(110)	5	6		10000(4500)		
	XC45M350	137.8(3500)	101.6(2580)	186(4725)	171.1(4345)	4.3(110)	4.3(110)	5	6		10000(4500)		
	XC45M370	145.7(3700)	105.5(2680)	193.9(4925)	178.9(4545)	4.3(110)	4.3(110)	5	6		10000(4500)		
Triplex mast	XC45M400	157.5(4000)	111.4(2830)	205.7(5225)	190.7(4845)	4.3(110)	4.3(110)	5	6		10000(4500)		
	XC45N400	157.5(4000)	82.1(2085)	205.7(5225)	192.1(4880)	33.9(860)	47.4(1205)	5	6		10000(4500)		
	XC45N430	169.3(4300)	86(2185)	217.5(5525)	203.9(5180)	37.8(960)	51.4(1305)	5	6		10000(4500)		
	XC45N450	177.2(4500)	88.6(2250)	225.4(5725)	211.8(5380)	40.4(1025)	53.9(1370)	5	6		10000(4500)		
	XC45N470	185(4700)	91.1(2315)	233.3(5925)	219.7(5580)	42.9(1090)	56.5(1435)	5	6		10000(4500)		
	XC45N480	189(4800)	93.1(2365)	237.2(6025)	223.6(5680)	44.9(1140)	58.5(1485)	5	6		10000(4500)		
	XC45N500	196.9(5000)	97.6(2480)	245.1(6225)	231.5(5880)	49.4(1255)	63(1600)	5	6		9800(4450)		
	XC45N530	208.7(5300)	101.6(2580)	256.9(6525)	243.3(6180)	53.3(1355)	66.9(1700)	5	6		9600(4350)		
	XC45N550	216.5(5500)	105.5(2680)	264.8(6725)	251.2(6380)	57.3(1455)	70.9(1800)	5	6		9480(4300)		
	XC45N600	236.2(6000)	115.6(2935)	284.4(7225)	273(6935)	67.3(1710)	80.9(2055)	5	6		9020(4100)		

With sideshifter minus 770lb(350kg),with integral sideshifter minus 440lb(200kg).

12,000lbs Mast

Type	Model	Lifting height	Overall height				Free lifting height		Tilt range		Capacity	
			Lowered	Extended		With backrest	Without backrest	With backrest	Without backrest	Forward	Backward	Load capacity at 24 in (600mm) 12000lb(5.5t)
Duplex mast		in(mm)	in(mm)	in(mm)	in(mm)	in(mm)	in(mm)	deg	deg		lb(kg)	
	XC55M250	98.4(2500)	78.7(2000)	146.9(3730)	132.3(3360)	4.7(120)	4.7(120)	5	6	12000(5500)		
	XC55M280	110.2(2800)	84.6(2150)	158.7(4030)	144.1(3660)	4.7(120)	4.7(120)	5	6	12000(5500)		
	XC55M300	118.1(3000)	88.6(2250)	166.5(4230)	152(3860)	4.7(120)	4.7(120)	5	6	12000(5500)		
	XC55M330	129.9(3300)	97.6(2480)	178.3(4530)	163.8(4160)	4.7(120)	4.7(120)	5	6	12000(5500)		
	XC55M340	133.9(3400)	99.6(2530)	182.3(4630)	167.7(4260)	4.7(120)	4.7(120)	5	6	12000(5500)		
	XC55M350	137.8(3500)	101.6(2580)	186.2(4730)	171.7(4360)	4.7(120)	4.7(120)	5	6	12000(5500)		
Triplex mast	XC55M370	145.7(3700)	105.5(2680)	194.1(4930)	179.5(4560)	4.7(120)	4.7(120)	5	6	12000(5500)		
	XC55M400	157.5(4000)	111.4(2830)	205.9(5230)	191.3(4860)	4.7(120)	4.7(120)	5	6	12000(5500)		
	XC55N400	157.5(4000)	82.1(2085)	205.9(5230)	192.1(4880)	33.9(860)	47.4(1205)	5	6	12000(5500)		
	XC55N430	169.3(4300)	86(2185)	217.7(5530)	203.9(5180)	37.8(960)	51.4(1305)	5	6	12000(5500)		
	XC55N450	177.2(4500)	88.6(2250)	225.6(5730)	211.8(5380)	40.4(1025)	53.9(1370)	5	6	12000(5500)		
	XC55N470	185(4700)	91.1(2315)	233.5(5930)	219.7(5580)	42.9(1090)	56.5(1435)	5	6	12000(5500)		
	XC55N480	189(4800)	93.1(2365)	237.4(6030)	223.6(5680)	44.9(1140)	58.5(1485)	5	6	12000(5500)		
	XC55N500	196.9(5000)	97.6(2480)	245.3(6230)	231.5(5880)	49.4(1255)	63(1600)	5	6	11880(5400)		
	XC55N530	208.7(5300)	101.6(2580)	257.1(6530)	243.3(6180)	53.3(1355)	66.9(1700)	5	6	11550(5250)		
	XC55N550	216.5(5500)	105.5(2680)	265(6730)	251.2(6380)	57.3(1455)	70.9(1800)	5	6	11220(5100)		
XC55N600	236.2(6000)	115.6(2935)	284.6(7230)	273(6935)	67.3(1710)	80.9(2055)	5	6	10600(4820)			

With sideshifter minus 990lb(450kg),with integral sideshifter minus 550lb(250kg).

X Series Cushion Tire Forklift Truck With Lithium Power Specification

Characteristics	1.1	Manufacturer			HANGCHA GROUP CO.,LTD.		
	1.2	Model			CPD35-XD2-CSI	CPD45-XD2-CSI	CPD55-XD2-CSI
	1.3	Power Type: Electric, Gas, Diesel, LPG			Electric(80)	Electric	Electric
	1.4	Operation Type			Rider seated	Rider seated	Rider seated
	1.5	Load capacity/rated load	Q	lb(kg)	8000(3500)	10000(4500)	12000(5500)
	1.6	Load centre	c	in(mm)	24(600)	24(600)	24(600)
	1.7	Load distance, centre of drive axle to fork	x	in(mm)	18.5(470)	18.5(470)	18.8(478)
	1.8	Wheelbase	y	in(mm)	62.4(1585)	62.4(1585)	69.7(1770)
Weight	2.1	Service weight		lb(kg)	13200(6000)	15356(6980)	17710(8050)
	2.2	Axle load, with load,front		lb(kg)	18183(8265)	21872(9942)	24893(11315)
	2.3	Axle load, with load,rear		lb(kg)	2717(1235)	3384(1538)	4917(2235)
	2.4	Axle load, without load,front		lb(kg)	5284(2402)	5289(2404)	6193(2815)
	2.5	Axle load, without load,rear		lb(kg)	7916(3598)	10067(4576)	11517(5235)
Tyres	3.1	Tyres type			Cushion	Cushion	Cushion
	3.2	Tyre size, front			22x9-16	22x12-16	22x12-16
	3.3	Tyre size, rear			18x6-12.125	18x8-12.125	18x8-12.125
	3.4	Number of wheels, front / rear(x=driven)			2x/2	2x/2	2x/2
	3.5	Track width, front	b10	in(mm)	38.2(971)	41.1(1045)	41.1(1045)
	3.6	Track width, rear	b11	in(mm)	40.2(1022)	44.3(1125)	44.3(1125)
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	(°)	5/6	5/6	5/6
	4.2	Height, mast lowered	h1	in(mm)	88.6(2250)	88.6(2250)	88.6(2250)
	4.3	Height, mast extended	h4	in(mm)	166.3(4225)	166.3(4225)	166.3(4225)
	4.4	Free lift	h2	in(mm)	4.3(110)	4.3(110)	4.3(110)
	4.5	Lift	h3	in(mm)	118.1(3000)	118.1(3000)	118.1(3000)
	4.6	Height overhead guard	h6	in(mm)	88.2(2248)	88.2(2248)	88.2(2248)
	4.7	Overall lenght	l1	in(mm)	140.5(3570)	144.7(3675)	158.2(4018)
	4.8	Length to fork face	l2	in(mm)	98.5(2500)	102.6(2605)	110.2(2798)
	4.9	Overall width	b1	in(mm)	47.2(1200)	53.1(1350)	53.1(1350)
	4.10	Fork dimensions	s×e×l	in(mm)	2×4.8×42(50×122×1070)	2×6×42(50×150×1070)	2.4×6×48(60×150×1220)
	4.11	Fork carriage DIN 15 173, class/type A,B			IIIA	IIIA	IVA
	4.12	Fork-carriage width	b3	in(mm)	45.8(1164)	51.7(1314)	51.7(1314)
	4.13	Ground clearance, with load, below mast	m1	in(mm)	3.1(80)	3.1(80)	3.1(80)
	4.14	Ground clearance, center of wheelbase	m2	in(mm)	5.5(140)	5.5(140)	5.5(140)
	4.15	Aisle width for pallets 1000 x 1200 crossways	Aa1	in(mm)	142.4(3618)	145.3(3690)	153.5(3898)
	4.16	Aisle width for pallets 800 x 1200 lengthways	Aa1	in(mm)	150.3(3818)	153.1(3890)	161.3(4098)
	4.17	Turning radius, outside	Wa	in(mm)	84.3(2140)	87.4(2220)	95.3(2420)
Performance data	5.1	Travel speed, with/without load		mph(km/h)	11.2 (18)/11.5 (18.5)	11.2 (18)/11.5 (18.5)	10.9 (17.5)/11.2 (18)
	5.2	Lift speed, with/without load		fpm(mm/s)	72.8(370)/118.1(600)	57.1(290)/88.6(450)	57.1(290)/88.6(450)
	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)
	5.4	Max. Drawbar pull,with/without load		lbf(N)	4720(21000)/-	4720(21000)/-	4720(21000)/-
	5.5	Max. gradeability, with/without load		%	23/-	19/-	16/-
	5.6	Service brake, operation / control			Foot / Hydraulic	Foot / Hydraulic	Foot / Hydraulic
	5.7	Parking brake, operation / control			Hand / Mechanical	Hand / Mechanical	Hand / Mechanical
	5.8	Steering, type			Hydraulic	Hydraulic	Hydraulic
Drive	6.1	Drive motor, 60 minute rating		HP (kW)	30.8(23)	30.8(23)	30.8(23)
	6.2	Pump motor, 15 minute rating		HP (kW)	37.5(28)	37.5(28)	37.5(28)
	6.3	Battery voltage		volts	80	80	80
	6.4	Battery capacity, minimum		Ah/6 hr. rate	-	-	684
	6.5	Battery capacity, maximum		Ah/6 hr. rate	604	604	906
	6.6	Battery weight, minimum		lb(kg)	904(410)	904(410)	948(430)
	6.7	Battery weight, maximum		lb(kg)	931(423)	931(423)	1386(630)
Other	7.1	Drive motor control			MOSFET AC	MOSFET/AC	MOSFET/AC
	7.2	Manufacturer			INMOTION	INMOTION	INMOTION
	7.3	Working pressure for attachments		psi(bar)	2683(185)	2683(185)	2683(185)
	7.4	Hydraulic Tank - capacity(drain/refill)		gal(liter)	10.6(40)	13.7(52)	13.7(52)