



HANGCHA FORKLIFT CANADA INC.

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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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X SERIES

CUSHION TIRE ELECTRIC FORKLIFT
WITH LITHIUM POWER

With capacity of 13,500 to 15,500lbs

X SERIES CUSHION TIRE ELECTRIC FORKLIFT WITH LITHIUM POWER

Hangcha 4W cushion tire electric forklifts (13,500-15,500 lb) have achieved remarkable success in design and technological innovation. The products not only incorporate the advantages of 4W cushion tire lithium battery special forklifts and IC cushion tire forklifts but also form a technical advantage over the existing lead-acid battery products in the market by building a dedicated lithium battery platform. These products have surpassed market competitors in terms of overall truck appearance, technical parameters, and ergonomics, reaching a leading position in the market.



APPEARANCE

- Inheriting the appearance of the XC series, it forms a family design for the 4W cushion tire electric forklift;
- The body lines are strong, simple, and smooth, with a sporty yet stable overall appearance.

SAFE AND RELIABLE

- Using electrical technology and high-protection performance parts, it can adapt to various applications;
- OPS system and cornering speed reduction functions to ensure driving safety;



The specialized lithium battery platform has a lower center of gravity, with better longitudinal and lateral stability;

Using the mast of IC cushion tire truck, it is safe and reliable with better generality; It has a large rear view ;

EFFICIENT AND ENERGY-SAVING

- Smaller overall shape for flexible operation in narrow areas;
- Faster operation and lifting speed than similar products, stronger climbing ability, and longer endurance;

 **18.5** km/h
Travel speed (laden)

 **16** %
Gradeability (laden)



Lighter weight, with standard load-sensitive multi-way valves and internal gear pumps, ensuring precise and stable operation while reducing work energy consumption.



Higher ground clearance, smaller turning radius, and wider applications;

Better energy efficiency management, larger capacity batteries, and dual-gun fast charging for long-lasting endurance and continuous work;



Added heat dissipation channels, equipped with electronic control fans, directly connected to the heat dissipation channels, meeting the needs of various working conditions; For harsh working conditions, a hydraulic independent oil dispersion can be optionally equipped.



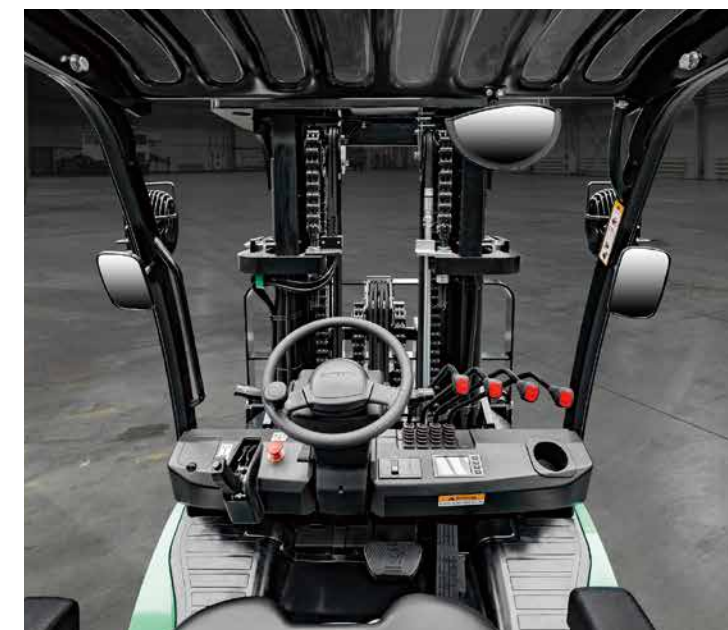
POWERFUL
EFFICIENT
RELIABLE



DESIGNED AROUND YOU

COMFORTABLE DRIVING

- A fully enclosed instrument cover, standard low-noise gear pump, further reducing the noise;
- A large opening angle hood, front and rear detachable double floorboard, making maintenance more convenient.



A raised hollow protective overhead guard, with more head and leg space, providing a better driving experience;



Equipped with a high-position shock-absorbing steering axle, fully suspended seat, and a more comfortable overall truck;

Multi-functional color screen intelligent instrument, with a graphical interface design, simple and intuitive;



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

**6 YEARS
WARRANTY**

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.



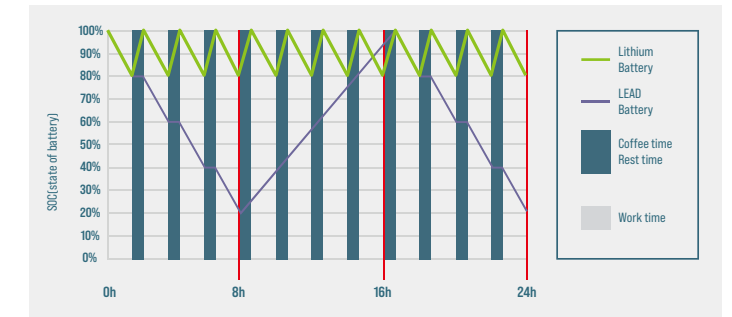
Opportunity charging

Full performance during several shifts thanks to effective interim charging.

FEATURES & BENEFITS THE HANGCHA DIFFERENCE

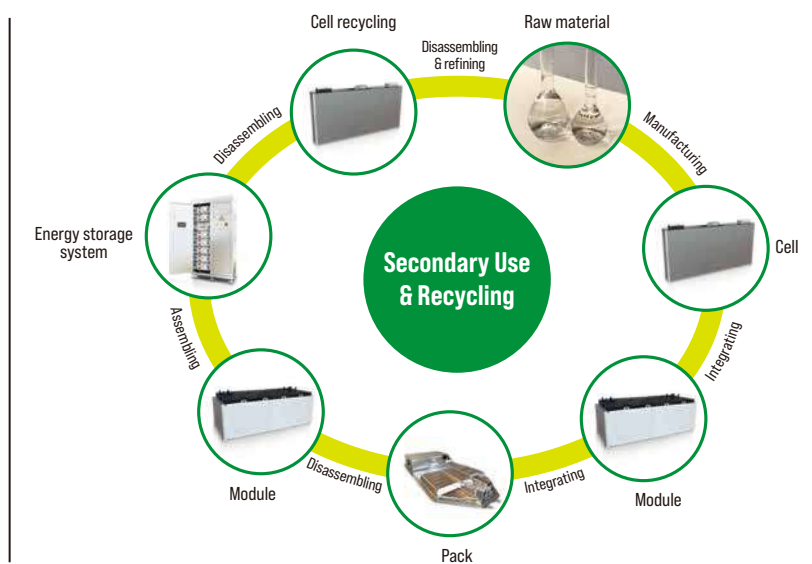
Efficiency

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

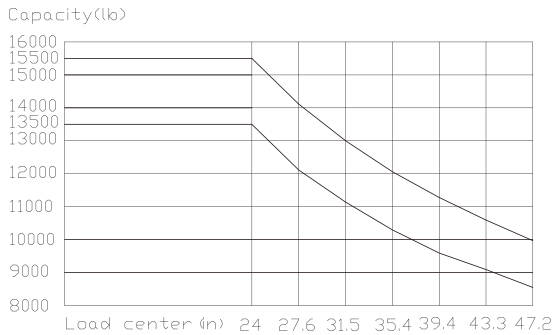
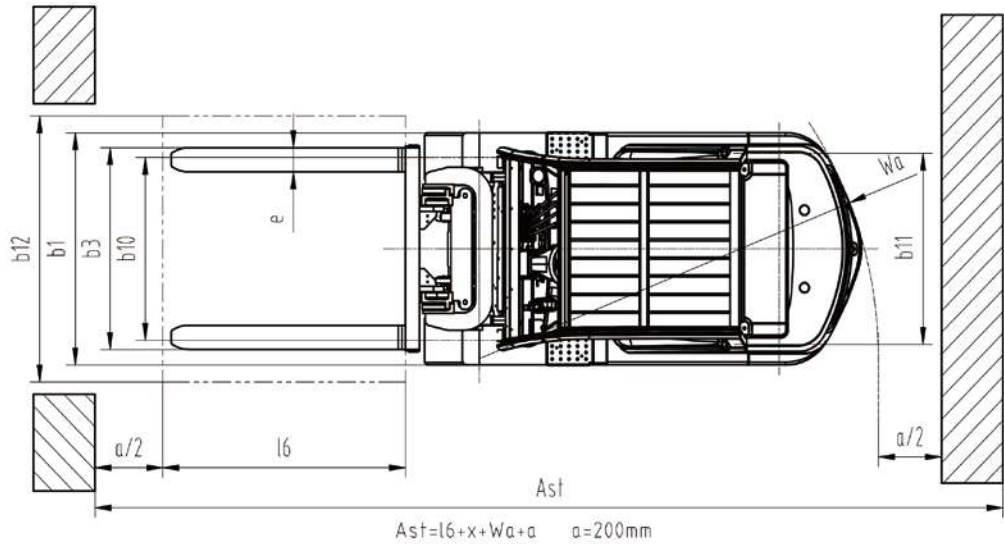
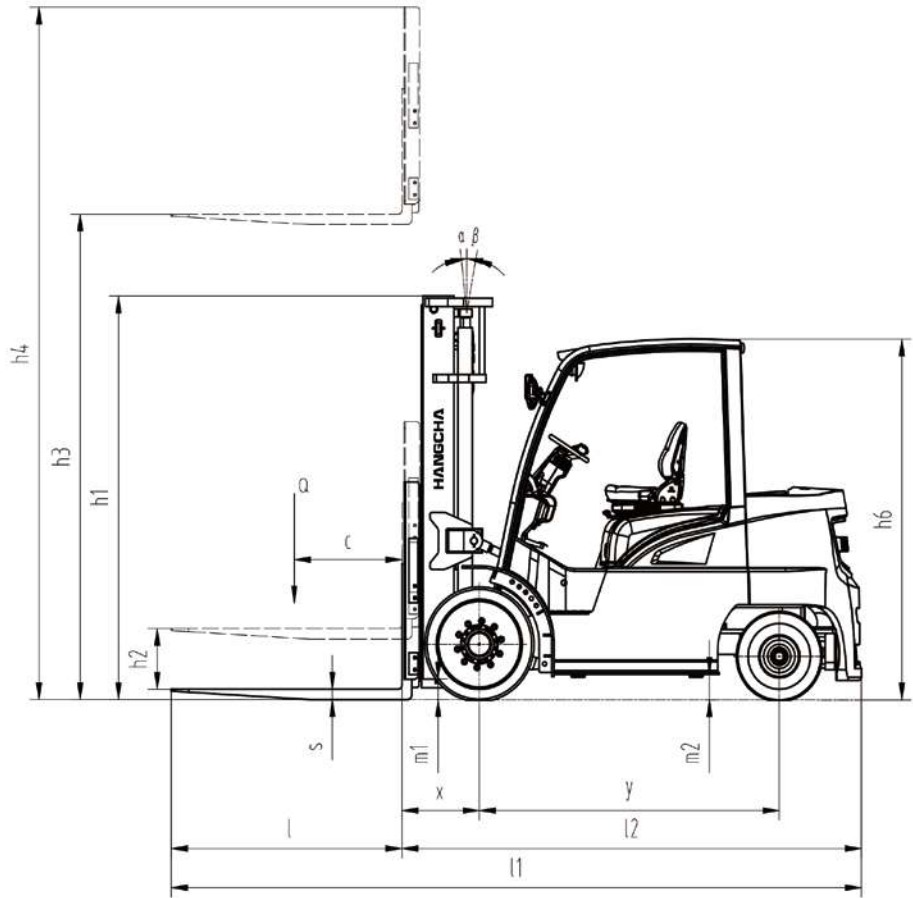


Other Features:

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

Technical Data

Distinguishing mark	1.1	Manufacturer			HANGCHA GROUP CO.,LTD.	
	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)
Weight	1.6	Load centre	c	in(mm)	24(600)	24(600)
	1.8	Load distance, centre of drive axle to fork	x	in(mm)	19.6(498)	19.8(503)
	1.9	Wheelbase	y	in(mm)	76.8(1950)	76.8(1950)
Tyres, chassis	2.1	Service weight		lb(kg)	20283/9200	21517/9760
	2.2	Axle loading, laden front/rear		lb(kg)	29917/3593(13570/1630)	32981/3968(14960/1800)
	2.3	Axle loading, unladen front/rear		lb(kg)	8025/12258(3640/5560)	8510/13007(3860/5900)
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane			solid rubber	solid rubber
	3.2	Tyre size, front			28x12x22	28x12x22
Dimensions	3.3	Tyre size, rear			22x10x16	22x10x16
	3.5	Wheels, number front / rear (x= driven wheels)			2x/2	2x/2
	3.6	Track width, front	b10	in(mm)	44.6(1133)	44.6(1133)
	3.7	Track width, rear	b11	in(mm)	46.6(1184)	46.6(1184)
	4.1	Tilt of mast/fork carriage forward/backward	a/b	°	6/10	6/10
	4.2	Height, mast lowered	h1	in(mm)	98.4(2500)	98.4(2500)
	4.3	Free lift	h2	in(mm)	6.7(170)	6.9(175)
	4.4	Lift	h3	in(mm)	118.1(3000)	118.1(3000)
	4.5	Height, mast extended	h4	in(mm)	171.5(4357)	171.5(4357)
	4.7	Height of overhead guard	h6	in(mm)	90.2(2340)	90.2(2340)
	4.19	Length to fork face	l1	in(mm)	165.6(4205)	165.7(4210)
	4.20	Length to face of forks	l2	in(mm)	117.5(2985)	117.7(2990)
	4.21	Overall width	b1	in(mm)	56.6(1438)	56.6(1438)
	4.22	Fork dimensions	s / e / l	in(mm)	2.4x6x48(60x150x1220)	2.6x6x48(65x150x1220)
	4.23	Fork carriage DIN 15 173---ISO 2328, class/ type A,B			IVA	IVA
	4.24	Fork-carriage width	b3	in(mm)	49.2(1250)	49.2(1250)
	4.31	Ground clearance, laden, below mast	m1	in(mm)	4.3(110)	4.3(110)
	4.32	Ground clearance, centre of wheelbase	m2	in(mm)	6.2(157)	6.2(157)
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast	in(mm)	168.4(4278)	168.4(4278)
	4.34.2	Aisle width for pallets 800 x 1200 lengthways		in(mm)	176.3(4478)	176.3(4478)
Performance data	4.35	Turning radius	Wa	in(mm)	101.6(2580)	101.6(2580)
	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-engine		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)
	6.6	Battery weight, minimum		lb(kg)	1466(665)	1466(665)
Addition data	10.1	Operating pressure for attachments		psi(MPa)	3132.8(21.6)	3132.8(21.6)
	10.2	Oil volume for attachments		l/min	32	32



13,500lbs(6.0t) 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						
											in[mm]
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]	

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

15,500lbs(7.0t) 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							
											15500lb (7t)	
in[mm]	in[mm]	in[mm]	in[mm]	in[mm]	in[mm]	deg	deg	lb[kg]				
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.

Features

Truck	Standard	Options
Stamped Iron hood	●	
Stamped Stainless Steel Boarding Step	●	
Dual port charger	●	
Low Noise Gear Pump	●	
Load-Sensing Multiway Valve	●	
Automatic Deceleration while Turning Function	●	
Dual Hydraulic Multiway Valves	●	
Tow Pin	●	
Smooth Cushion Tires	●	
Hollowed-out OHG	●	
Panoramic Rear View Mirror	●	
Cushion Smooth N.M. Tire		○
Cushion Traction Black Tire		○
Cushion Traction N.M. Tire		○
Triple Hydraulic Multiway Valves		○
Quadruple Hydraulic Multiway Valves		○
Quintuple Hydraulic Multiway Valves		○
Full-Free Triplex Mast		○
Left & Right Rearview Mirrors		○
Cab		○
Toolbox		○
Higer/Lower OHG		○
Different length of fork		○
12V cigarette lighter		○
USB port		○
PVC ceiling	●	
Independent hydraulic oil radiator		○
Integral SideShifter		○
Various Optional Attachments		○

Controls and instruments

SPE Power Selection	●	
Operator Presence System (OPS)	●	
Multi-Function Instrument Cluster	●	

Safety

Stamped Hood with Gas Shocks	●	
Mechanical Parking Handbrake	●	
Reverse Alarm	●	
Emergency Cut-Off Switch	●	
Fire Extinguisher		○
Rear Reverse Grip with Horn Button		○

Lights

LED Combination Headlights & Taillights	●	
Warning light	●	
Front/Rear Blue Lights		○
Left & Right LED Work light		○
Three-Sided, One-Line Projection Light		○