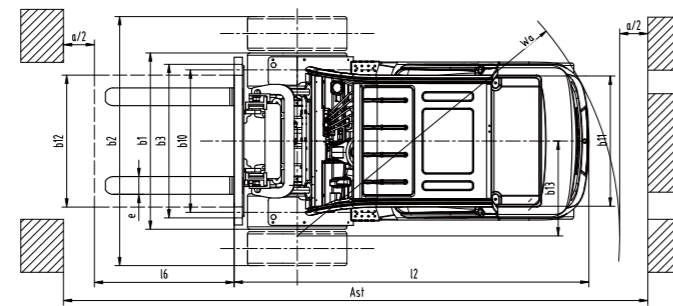
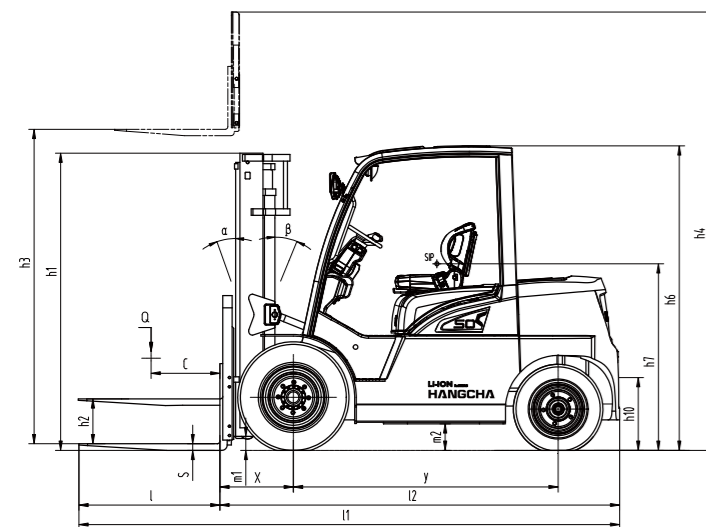
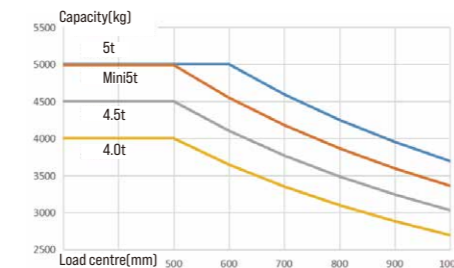


XH Series Heavy-duty High-voltage Lithium Battery Forklift Specification

Distinguishing mark	11	Manufacturer	HANGCHA GROUP CO.,LTD.			
			CPD40-XHY2G-W	CPD45-XHY2G-W	CPD50-XHY2G-W	CPD50-XHY2G-W
12	12	Manufacturer's type designation	Electric	Electric	Electric	Electric
13	13	Drive: electric (battery or mains), diesel, petrol, fuel gas	Seated	Seated	Seated	Seated
14	14	Operator type: hand, pedestrian, standing, seated, order-picker	kg	kg	kg	kg
15	15	Rated capacity/rated load	4000	4500	5000	5000
16	16	Load centre distance	500	500	500	600
17	17	Load distance, centre of drive axle to fork	x(mm)	550	555	585
18	18	Wheelbase	y(mm)	2100	2100	2100
19	19	Service Weight	kg	6050	6250	6650
20	20	Axle loading, laden front/rear	kg	8720/1330	9480/1270	10400/1250
21	21	Axle loading, unladen front/rear	kg	2750/3300	2750/3500	2900/3750
22	22	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic	Pneumatic	Pneumatic	Pneumatic
23	23	Tyre size, front	8.25-15-14PR	300-15-18PR	300-15-18PR	300-15-18PR
24	24	Tyre size, rear	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR
25	25	Wheels, number front / rear (x = driven wheels)	2x/2	2x/2	2x/2	2x/2
26	26	Tread, front	bf(mm)	1160	1190	1190
27	27	Tread, rear	bf(mm)	1130	1130	1130
28	28	Tilt of mast/fork carriage forward/backward	α/β(°)	6/12	6/12	6/12
29	29	Height, mast lowered	h(mm)	2245	2245	2495
30	30	Free lift	hf(mm)	160	160	170
31	31	Lift	hs(mm)	3000	3000	3000
32	32	Height, mast extended	h4(mm)	4170	4170	4400
33	33	Height of overhead guard (cabin)	he(mm)	2300	2300	2300
34	34	Seat height/stand height	h7(mm)	1390	1390	1390
35	35	Coupling height	hc(mm)	660	660	660
36	36	Overall length	l(mm)	4135	4135	4335
37	37	Length to face of forks	lz(mm)	3065	3065	3135
38	38	Overall width	b1/b2(mm)	1420/1925	1490/1925	1490/1925
39	39	Fork dimensions	s / e / l (mm)	50/150/1070	50/150/1070	55/150/1070
40	40	Fork carriage ISO 2328, class / type A,B	III A	III A	IV A	IV A
41	41	Fork-carriage width	bs(mm)	1250	1250	1250
42	42	Ground clearance, laden, below mast	m(mm)	170	170	170
43	43	Ground clearance, centre of wheelbase	ms(mm)	200	200	200
44	44	Aisle width for pallets 1000 x 1200 crossways	Ae(mm)	4480	4480	4525
45	45	Aisle width for pallets 800 x 1200 lengthways		4680	4680	4725
46	46	Turning radius	Wa(mm)	2730	2730	2770
47	47	Internal turning radius	bs(mm)	749	749	749
48	48	Travel speed, laden/unladen	km/h	24/25	24/25	24/25
49	49	Lift speed, laden/unladen	m/s	480/560	480/560	460/520
50	50	Lowering speed, laden/unladen	m/s	410/420	410/420	410/420
51	51	Max. Drawbar pull, laden/unladen	N	30000/	31000/	33000/
52	52	Max. gradeability, laden/unladen	%	30/25	28/25	26/24
53	53	Acceleration time, laden/unladen (0-10m)	s	4.5/4.4	4.5/4.4	4.5/4.4
54	54	Service brake	Hydraulic	Hydraulic	Hydraulic	Hydraulic
55	55	Parking brake	Mechanical	Mechanical	Mechanical	Mechanical
56	56	Drive motor rating S2 60 min	kW	30AC	30AC	30AC
57	57	Lift motor rating at S3 15%	kW	35AC	35AC	35AC
58	58	Battery voltage, nominal capacity K5	(V)/(Ah)	348/173	348/173	348/173
59	59	Battery weight	kg	540	540	540
60	60	Operating pressure for attachments	MPa	18.5	18.5	18.5
61	61	Oil volume for attachments	l/min	60	60	60



AST=l6+x+Wa+a L6: load length a=200 mm safety clearance



HANGCHA

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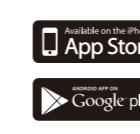
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Folgen Sie uns auf YouTube



"Hangcha Forklift" App herunterladen



ISO14001



ISO9001

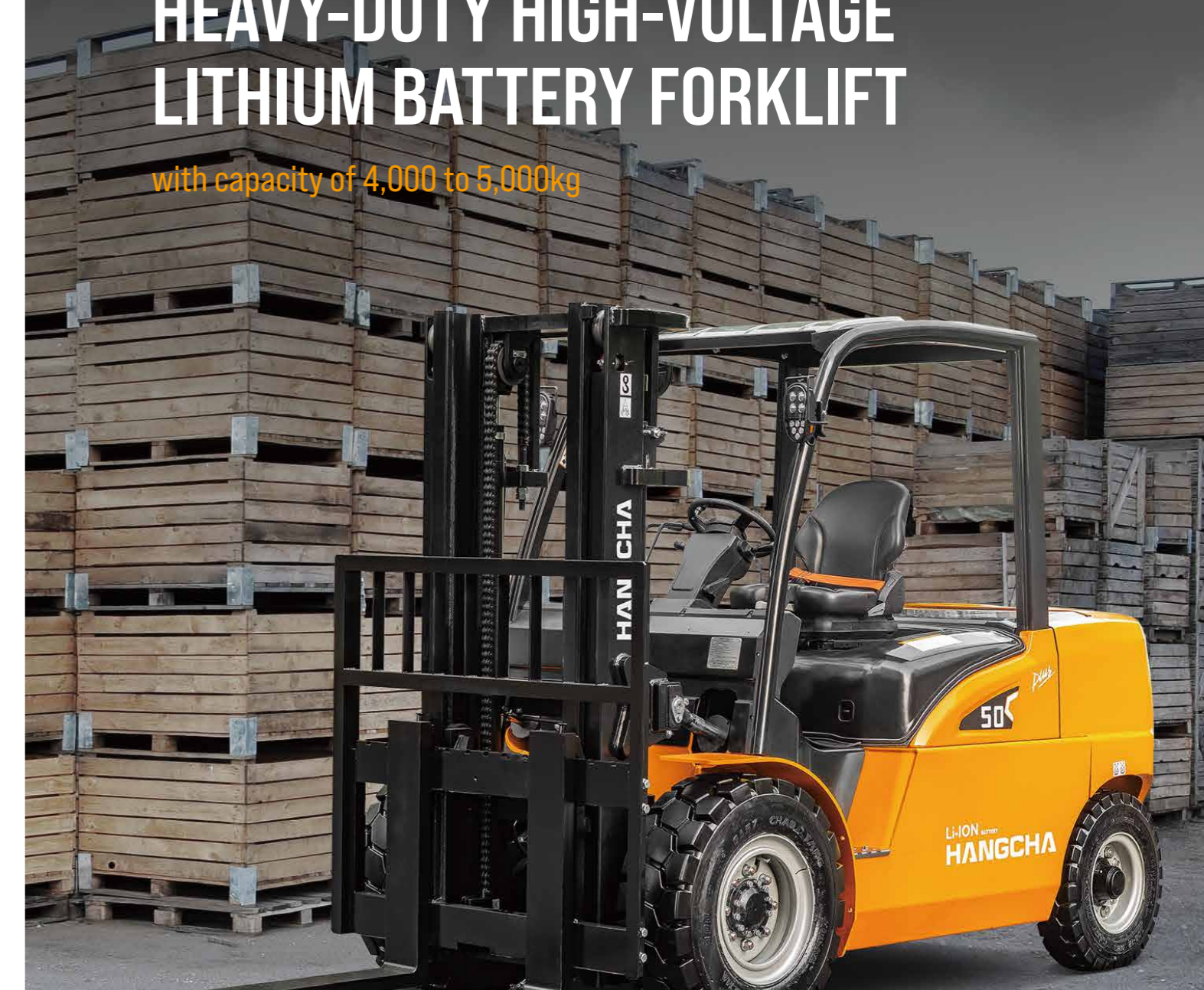


HANGCHA trucks safety conform to the European Safety Requirements.

HANGCHA Group Co., LTD behält sich das Recht vor, Änderungen bezgl. Farbe, Spezifikationen, Ausstattung und sonstige Details, dieser Broschüre ohne Vorankündigung vorzunehmen. Fahrzeugfarben können von den Farben in dieser Broschüre abweichen.

XH SERIES HEAVY-DUTY HIGH-VOLTAGE LITHIUM BATTERY FORKLIFT

with capacity of 4,000 to 5,000kg



The World of Hangcha



INNOVATIVE LITHIUM-ION



2023 VERSION 1.1 COPYRIGHT 2023/05

XH SERIES HEAVY-DUTY HIGH-VOLTAGE LITHIUM BATTERY FORKLIFT

The XH series heavy-duty high-voltage lithium battery special forklift inherits the advantages of the XH heavy-duty series and adopts the CATL standard box. This tonnage industry is the one that uses a dual-water cooling system for the motor and battery. It has super heat dissipation performance and can meet 24h non-stop operation. It is very suitable for various high-temperature environments such as ship cabins and other airtight and high-temperature environments (even the operating environment temperature can reach 50°C), heavy attachments such as paper roll clamps, and operations in front of smelting furnaces.

VOLTAGE

348 V

SPEED MODELS

3

100% CHARGE FOR

1 Hour

PROTECTION RATE

IP67

WATER RESISTANCE

IPX4

Stylish appearance

/ With the inherited classic exterior design of the dedicated XC lithium battery forklift and a smooth and sturdy profile, the whole vehicle is compact, elegant, stylish and sturdy.

THE *Plus*
FOR YOUR
BUSINESS



FASTER & MORE EFFICIENCY.

Compared with low-voltage lithium battery forklifts, high-voltage lithium battery technology can save about 40% of the overall cost during the service cycle.

40%

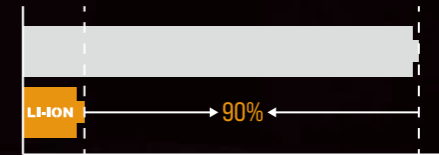
Low Voltage Lithium Battery Forklift
Hangcha High Voltage Lithium Electric Forklift



Compared with fuel forklifts, high-voltage lithium battery technology can save about 90% of the overall cost during the service cycle.

90%

Fuel Forklift
Lithium Electric Forklift



4000

CYCLES OF CHARGING



Under normal charging and discharging conditions, the lithium battery of Hangcha products has a capacity retention rate of more than 80% and a life span of up to 10 years after 4000 cycles of charging and discharging.

Through disruptive battery and fast charging technology, the charging time is greatly shortened.

Get the battery fully charge:



Hangcha High Voltage Electric Forklift



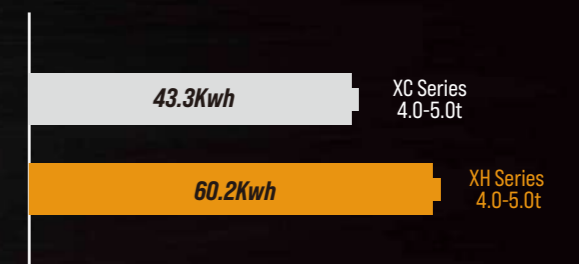
Electric Forklift

POWER PERFORMANCE COMPARISON

	High Voltage Lithium Electric Forklift	Fuel Forklift
Travel speed, laden/unladen	24/25km/h	23/25km/h
Lift speed, laden/unladen	460/520mm/s	380/410mm/s
Max. gradeability, S2=5min, laden/unladen	25/23%	15%-25%

Fast charging makes it possible for the whole vehicle to work continuously, shortening the waiting time and greatly improving efficiency.

Battery capacity



STRONG ADAPTABILITY



Both the drive and operating systems are vehicle-grade permanent magnet synchronization systems. Equipped with a high speed ratio gearbox, the driving speed, lifting speed, upslope degree and acceleration performance surpass that of internal combustion vehicles.



The drive axle, steering axle and tires of internal combustion forklifts can meet the demand of high-intensity operating conditions of internal combustion forklifts.



It meets all-weather operating conditions and is usable under severe operating conditions such as cold storage, heavy rains and waterlogged roads.



EFFICIENT AND DURABLE

Ultra-long battery life

- / With a 348V high-voltage platform and vehicle-grade permanent magnet synchronization system, the vehicle boasts of a smaller current, very low heat loss and more energy-efficient;
- / The vehicle uses an overall controller to control the traction motor controller assembly to form a highly independent, user-friendly and intelligent drive system.
- / Standard large-capacity lithium battery, 40% larger than that of ordinary low-voltage 80V/542Ah lithium battery, meets long battery life requirements;

Super charging



The standard IC super-fast charging technology allows the water cooling system to work during charging and high current charging, thus only 1h is required for fully charging;



Optional 0.5C charger (fully charged in 2h), economical and convenient.

SAFE AND RELIABLE

The cover of the vehicle is designed to be sealed to the water resistance level of IPX4 for the body. All the motor, electronic controls and high-voltage components reach the dust and water resistance level of IP67, a high protection level adequate to withstand harsh operating environments and ensure safety and reliability.



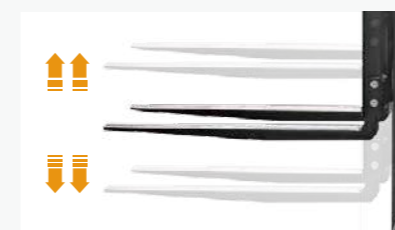
The electrical system is equipped with high-voltage interlocks, insulation detection, offering vehicle-grade safety measures. The MSD maintenance switch enables one-click power-down and safer maintenance;



All CATL lithium batteries are equipped with standard automatic battery fire extinguishing devices, allowing higher safety in use.

The steering axle with standard configuration of turning and deceleration functions reduces the overturning risk effectively.

The standard configuration provides a fork descending buffering function. In addition, an optional control function for buffering the fork's ascending is provided to protect the goods and guarantee safety when working;



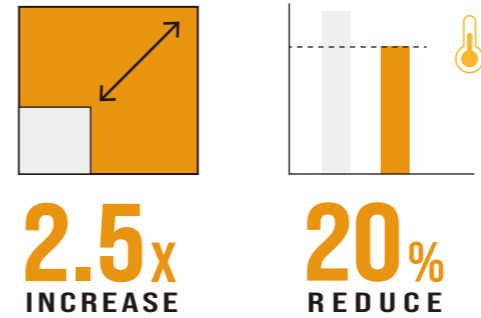
DUAL WATER COOLING SYSTEMS



It is the first time that the motor-battery dual water cooling systems and full suspension damping system are used on new energy forklifts, which can be fully applicable to various severe operating conditions such as high temperature and strong load.

The most integrated large volume hydraulic oil tank boasts of good hydraulic heat dissipation and low oil temperature, further ensuring long-term and reliable operation of hydraulic parts and prolonging service life.

The volume of the hydraulic oil tank and the heat dissipation area are 2.5 times that of ordinary high-voltage electric truck. The hydraulic oil temperature is lowered by more than 20% compared with ordinary high-voltage electric truck.



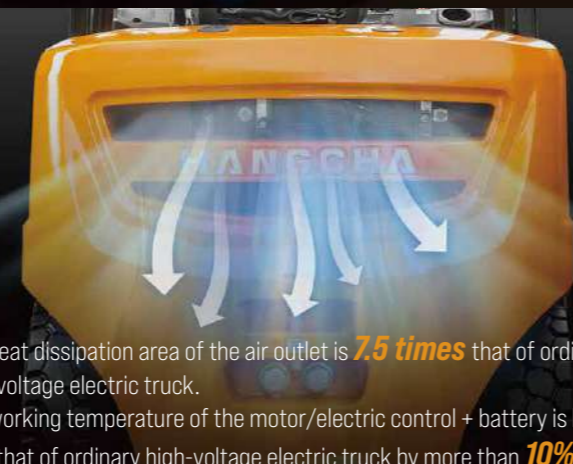
With the standard configuration of CATL standard box (batch use for passenger cars), the water cooling system keeps the battery working for 8 years or 4000 cycles at the optimum temperature of 30°C-40°C, realizing a capacity attenuation of no more than 20%;

8 BATTERY WORKING YEAR | **4000 BATTERY CYCLES**

The water cooling system keeps the battery at the best working temperature of about **30°C**, with high efficiency, slow decay and long life.



The **large ventilation opening** designed for internal combustion forklifts allows better heat dissipation of the battery and the motor.



The heat dissipation area of the air outlet is **7.5 times** that of ordinary high-voltage electric truck. The working temperature of the motor/electric control + battery is lower than that of ordinary high-voltage electric truck by more than **10%**.

CONVENIENT MAINTENANCE

- / The vehicle with ergonomic design, a wide view and a large operating space makes it easier for drivers to operate;
- / The multi-functional color screen instrument is designed to have graphic interfaces; three SPE speed gears are selectable to adapt to different operating conditions; interfaces can be switched between English and Chinese to meet the demands of customers at home and abroad;
- / Reasonable arrangement of battery and motor radiator allows more convenient liquid replenishment and maintenance;
- / The water tank cover and the left and right side plates of the hood can be dismantled without a tool, so that the operable surface is large during cleaning and maintenance, convenient and fast.



Large-capacity lithium battery, long battery life on one charge



Multi-functional color screen instrument

Standard Specification

- / Multi-function color-screen combination instrument
- / Standard duplex mast, fork, fork carriage and load backrest
- / Stamped iron hood, stamped iron side plates
- / Stamped stainless steel boarding step
- / The gas spring of the hood with a touch-proof mechanism
- / Handbrake with a touch-proof mechanism
- / Integrated fuse box
- / Charging muzzle meeting national standards
- / Reverse buzzer
- / Maintenance-free 12V lead acid battery
- / Two-in-one permanent magnet AC traction motor controller
- / Two-in-one permanent magnet AC oil pump motor controller
- / Power DC-DC two-in-one
- / VCU controller
- / MSD maintenance switch
- / Emergency power off switch
- / Mileage display, operating time display
- / Load sensing steering system
- / Turning deceleration function
- / Fork descending buffering
- / SPE power selection
- / Electronic water pump
- / Electronic fan
- / Heat dissipater
- / Expansion tank
- / Load-sensitive multiway valve
- / Silent gear pump
- / Traction pin
- / Hangcha cloud intelligent management system
- / Standard box of lithium battery
- / Standard box of lithium battery with low temperature electric heating systems
- / Standard box of lithium battery with battery heat management systems
- / LED combination headlights, LED rear combination three-color taillights



Options

- / Coloring solid environmentally friendly seamless tire
- / Solid tire
- / Left and right rear view mirrors
- / Reversing video
- / Front/Rear blue light
- / Rear LED operation light
- / Dedicated lithium battery charger
- / Cold storage vehicle
- / Right rear armrest with horn button
- / OPS seat sensing function
- / Triple multi-way valve
- / Quadruple multi-way valve
- / Quintuple multi-way valve
- / Heightened load backrest
- / Widened fork carriage
- / Forks of other lengths
- / Free duplex mast
- / Free triplex mast
- / Built-in side mast
- / Accessories for other specifications
- / Fully-suspended seat
- / Seat heating function
- / Start with a PIN code or by swiping a card
- / Double front wheels
- / Cab
- / Lockable hood
- / Fire extinguisher
- / High and low overhead guards
- / Alarm light
- / Integrated multifunctional fingertip control system including ergonomic armrests
- / Toolbox, folder

4.0t Mast Specification

Type	Model	Max. Fork Height	Lowered	Overall height		Free lift		Front Overhang	Tilt range	Capacity	
				Without backrest	With backrest	Without backrest	With backrest			load capacity at 500mm	
										Single tire	Double tire
		mm	mm	mm	mm	mm	mm	mm	(°)	kg	kg
STD Duplex	XHP45M270	2700	2095	3530	3870	160	160	550	6/12	4000	4000
	XHP45M300	3000	2245	3830	4170	160	160	550	6/12	4000	4000
	XHP45M330	3300	2395	4130	4470	160	160	550	6/12	4000	4000
	XHP45M350	3500	2495	4330	4670	160	160	550	6/12	4000	4000
	XHP45M370	3700	2595	4530	4870	160	160	550	6/12	4000	4000
	XHP45M400	4000	2795	4830	5170	160	160	550	6/12	4000	4000
	XHP45M450	4500	3070	5330	5670	160	160	550	6/6	4000	4000
	XHP45M480	4800	3235	5630	5970	160	160	550	6/6	4000	4000
	XHP45M500	5000	3345	5830	6170	160	160	550	6/6	4000	4000
	XHP45M550	5500	3620	6330	6670	160	160	550	3/6	3700	4000
	XHP45M600	6000	3895	6830	7170	160	160	550	3/6	3600	3700
	XHP45U250	2500	1976	3365	3670	1114	809	557	6/12	4000	4000
Full Free Lift	XHP45U300	3000	2226	3865	4170	1364	1055	557	6/12	4000	4000
	XHP45U330	3300	2376	4165	4470	1514	1205	557	6/12	4000	4000
	XHP45U350	3500	2476	4365	4670	1614	1309	557	6/12	4000	4000
	XHP45U370	3700	2576	4565	4870	1714	1409	557	6/12	4000	4000
	XHP45N400	4000	2080	4850	5170	1229	912	602	6/6	4000	4000
Triplex	XHP45N430	4300	2180	5155	5470	1329	1012	602	6/6	4000	4000
	XHP45N450	4500	2248	5365	5685	1395	1080	602	6/6	4000	4000
	XHP45N470	4700	2310	5550	5870	1459	1142	602	6/6	4000	4000
	XHP45N480	4800	2340	5650	5970	1489	1172	602	6/6	4000	4000
	XHP45N500	5000	2410	5855	6170	1559	1242	602	6/6	3800	4000
	XHP45N550	5500	2575	6355	6670	1724	1408	602	3/6	3700	4000
	XHP45N600	6000	2790	6865	7180	1939	1622	602	3/6	3600	3700
	XHP45N650	6500	2980	7365	7680	2129	1812	602	3/6	3400	3600
	XHP45N700	7000	3155	7860	8175	2304	1988	602	3/6	3000	3400

SUBTRACT 100kg WITH INTEGRAL SIDESHIFTER, SUBTRACT 200kg WITH EXTERNAL SIDESHIFTER.

4.5t Mast Specification

Type	Model	Max. Fork Height	Lowered	Overall height		Free lift		Front Overhang	Tilt range	Capacity	
				Without backrest	With backrest	Without backrest	With backrest			load capacity at 500mm	
										Single tire	Double tire
		mm	mm	mm	mm	mm	mm	mm	(°)	kg	kg
STD Duplex	XHP45M270	2700	2095	3530	3870	160	160	550	6/12	4500	4500
	XHP45M300	3000	2245	3830	4170	160	160	550	6/12	4500	4500
	XHP45M330	3300	2395	4130	4470	160	160	550	6/12	4500	4500
	XHP45M350	3500	2495	4330	4670	160	160	550	6/12	4500	4500
	XHP45M370	3700	2595	4530	4870	160	160	550	6/12	4500	4500
	XHP45M400	4000	2795	4830	5170	160	160	550	6/12	4500	4500
	XHP45M450	4500	3070	5330	5670	160	160	550	6/6	4500	4500
	XHP45M480	4800	3235	5630	5970	160	160	550	6/6	4450	4500
	XHP45M500	5000	3345	5830	6170	160	160	550	6/6	4400	4500
	XHP45M550	5500	3620	6330	6670	160	160	550	3/6	4000	4200
	XHP45M600	6000	3895	6830	7170	160	160	550	3/6	3600	3800
	XHP45U250	2500	1976	3365	3670	1114	809	557	6/12	4500	4500
Full Free Lift	XHP45U300	3000	2226	3865	4170	1364	1055	557	6/12	4500	4500
	XHP45U330	3300	2376	4165	4470	1514	1205	557	6/12	4500	4500
	XHP45U350	3500	2476	4365	4670	1614	1309	557	6/12	4500	4500
	XHP45U370	3700	2576	4565	4870	1714	1409	557	6/12	4500	4500
	XHP45N400	4000	2080	4850	5170	1229	912	602	6/6	4500	4500
Triplex	XHP45N430	4300	2180	5155	5470	1329	1012	602	6/6	4500	4500
	XHP45N450	4500	2248	5365	5685	1395	1080	602	6/6	4400	4500
	XHP45N470	4700	2310	5550	5870	1459	1142	602	6/6	4300	4400
	XHP45N480	4800	2340	5650	5970	1489	1172	602	6/6	4300	4400
	XHP45N500	5000	2410	5855	6170	1559	1242	602	6/6	4250	4300
	XHP45N550	5500	2575	6355	6670	1724	1408	602	3/6	4200	4250
	XHP45N600	6000	2790	6865	7180	1939	1622	602	3/6	3800	4000
	XHP45N650	6500	2980	7365	7680	2129	1812	602	3/6	3600	3800
	XHP45N700	7000	3155	7860	8175	2304	1988	602	3/6	3200	3400

SUBTRACT 100kg WITH INTEGRAL SIDESHIFTER, SUBTRACT 200kg WITH EXTERNAL SIDESHIFTER.

Mini 5.0t Mast Specification

Type	Model	Max. Fork Height	Lowered	Overall height		Free lift		Front Overhang	Tilt range	Capacity	
				Without backrest	With backrest	Without backrest	With backrest			load capacity at 500mm	
										Single tire	Double tire
		mm	mm	mm	mm	mm	mm	mm	(°)	kg	kg
STD Duplex	XHP50M270	2700	2095	3530	4070	160	160	555	6/12	5000	5000
	XHP50M300	3000	2245	3830	4370	160	160	555	6/12	5000	5000
	XHP50M330	3300	2395	4130	4670	160	160	555	6/12	5000	5000
	XHP50M350	3500	2495	4330	4870	160	160	555	6/12	5000	5000
	XHP50M370	3700	2595	4530	5070	160	160	555	6/12	5000	5000
	XHP50M400	4000	2795	4830	5370	160	160	555	6/12	5000	5000
	XHP50M450	4500	3070	5330	5870	160	160	555	6/6	5000	5000
	XHP50M480	4800	3235	5630	6170	160	160	555	6/6	5000	5000
	XHP50M500	5000	3345	5830	6370	160	160	555	6/6	4700	5000
	XHP50M550	5500	3620	6330	6670	160	160	555	3/6	4400	4700
	XHP50M600	6000	3895	6830	7370	160	160	555	3/6	4000	4200
	XHP50U250	2500	1976	3365	3665	1114	610	570	6/12	5000	5000
Full Free Lift	XHP50U300	3000	2226	3865	4365	1364	860	570	6/12	5000	5000
	XHP50U330	3300	2376	4165	4665	1514	1010	570	6/12	5000	5000
	XHP50U350	3500	2476	4365	4865	1614	1110	570	6/12	5000	5000
	XHP50U370	3700	2576	4565	5065	1714	1210	570	6/12	5000	5000
	XHP50N400	4000	2080	4860	5365	1222	715	615	6/6	5000	5000
Triplex	XHP50N430	4300	2180	5160	5665	1322	815	615	6/6	5000	5000
	XHP50N450	4500	2248	5370	5880	1390	883	615	6/6	4800	5000
	XHP50N470	4700	2310	5560	6070	1452	945	615	6/6	4700	4800
	XHP50N480	4800	2340	5660	6170	1482	975	615	6/6	4700	4800
	XHP50N500	5000	2410	5860	6370	1552	1045	615	6/6	4500	4700
	XHP50N550	5500	2575	6360	6870	1718	1210	615	3/6	4400	4500
	XHP50N600	6000	2790	6870	7380	1932	1425	615	3/6	4100	4400
	XHP50N650	6500	2980	7370	7880	2123	1615	615	3/6	3900	4100
	XHP50N700	7000	3155	7865	8375	2298	1790	615	3/6	3500	3800

SUBTRACT 100kg WITH INTEGRAL SIDESHIFTER, SUBTRACT 200kg WITH EXTERNAL SIDESHIFTER.

5.0t Mast Specification

Type	Model	Max. Fork Height	Lowered	Overall height		Free lift		Front Overhang	Tilt range	Capacity	
				Without backrest	With backrest	Without backrest	With backrest			load capacity at 600mm	
										Single tire	Double tire
		mm	mm	mm	mm	mm	mm	mm	(°)	kg	kg
STD Duplex	XHP55M270	2700	2345	3780	4100	170	170	585	6/12	5000	5000
	XHP55M300	3000	2495	4080	4400	170	170	585	6/12	5000	5000
	XHP55M330	3300	2645	4380	4700	170	170	585	6/12	5000	5000
	XHP55M350	3500	2745								