

CPD40/45/50

A7LIK2-S A7LIK2-M
A7LIK2-06S A7LIK2-06M



HELI



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FL(H4)004-EN
Design&Print:Fokell Printing 20241217

LIION 4-5 t
K2 series Lithium-ion Battery Powered
Counterbalanced Forklift Truck



LIION 4-5 t

K2 series Lithium-ion Battery Powered
Counterbalanced Forklift Truck

INTELLIGENT SAFETY

ENSURE DRIVER SAFETY

- P, E and S three modes switch as standard to meet different driving demand

P — Power
E — Economy
S — Energy-saving

Multiple performance modes satisfy the needs of various working conditions

- Lithium-ion battery with automatic heating function.
- OPS protection.
- Hydraulic pipe burst protection, mast forward tilting self-locking protection.
- Electrical multiple protection: Shortcircuit protection, overheat protection, low power protection, sequence protection.
- Parking safety warning.
- Slow slope warning.



Operating Cost Comparison:

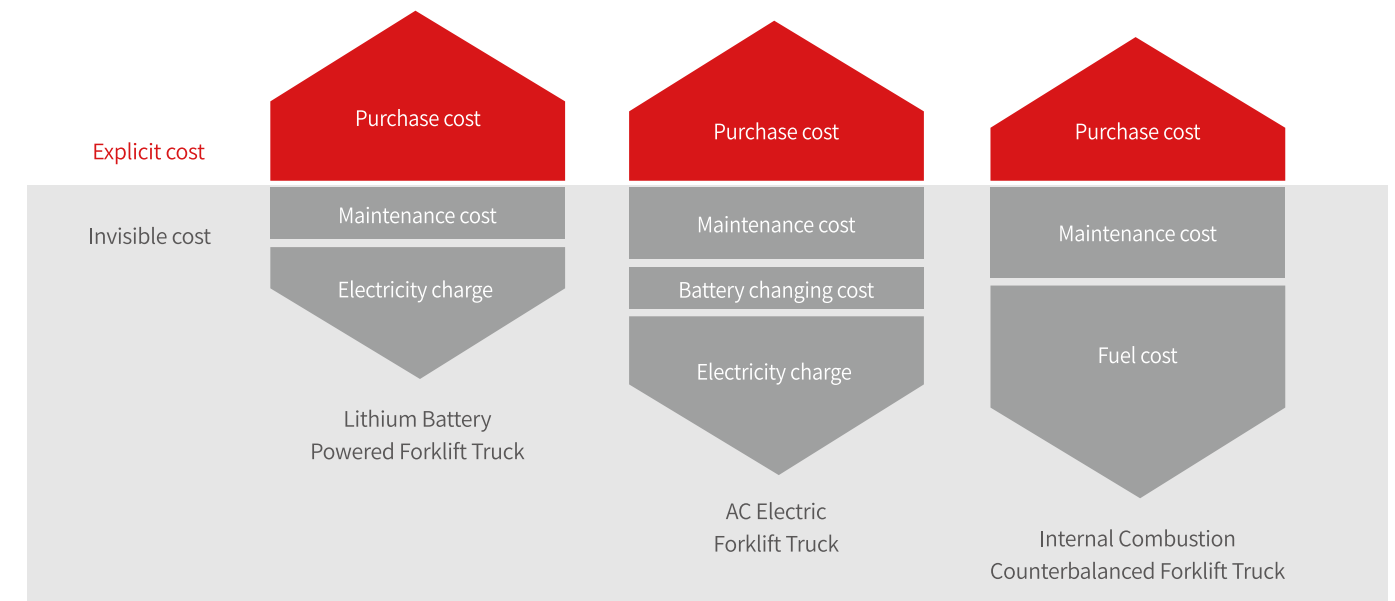
Lithium battery forklift **vs.** Lead-acid battery forklift **vs.** IC forklift

The advantages of HELI lithium battery forklift trucks are more prominent in the life cycle cost.

Compared with internal combustion forklift truck, lithium battery forklift truck has the advantages of no noise, no pollution, small vibration and simple operation.

Compared with the lead-acid battery forklift truck, lithium battery forklift has the characteristics of fast charging and charging at any time, which is more suitable for multi shift operation.

Besides, HELI lithium battery forklift is maintenance free, high power conversion efficiency, and economical overall operation cost.



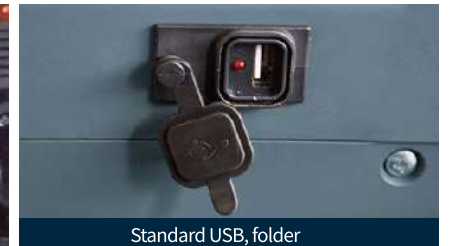
The upper beam adopts a frame type structure, with more reasonable force distribution, enhances stiffness and strength



Hydraulic power assisted brake valve with large displacement, light braking, safe and reliable



Optional steering and tilting cylinder protection sleeve to meet the requirements of harsh working conditions



Standard USB, folder



All LED light, better brightness, longer life and energy saving

COMFORT AND ENERGY SAVING

IMPROVE DRIVING COMFORT

Standard central wide-angle rearview mirror

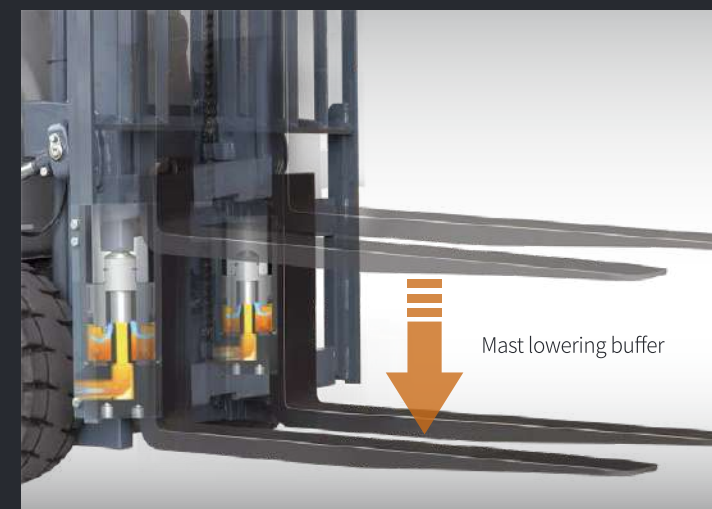
Wide view mast provides a wider working view for safer operation

Load sensitive multi-way valve, more energy saving, better micro control

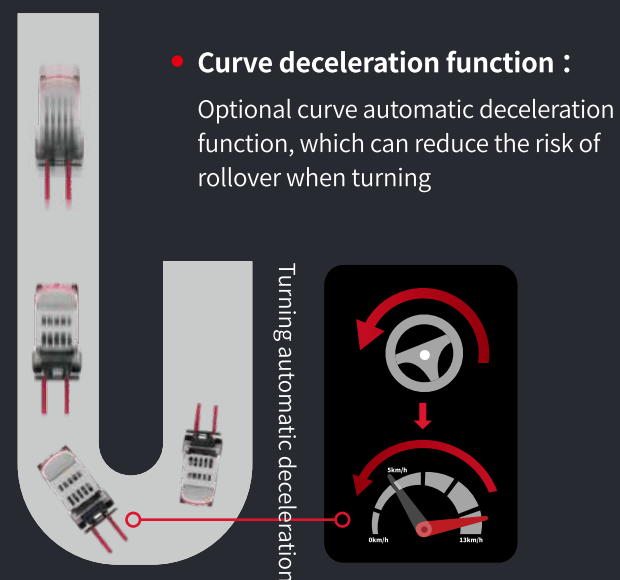
Standard USB interface, phone & tea cup holder, making phone charging more convenient



Half enclosed seat as standard to improve driver comfort



Standard mast lowering buffer and optional lifting buffer for easy lifting and placement



Ratchet hand brake



Integrated light handle switch



meeting the needs of the aftermarket without restructuring to switch from single-charge-plug battery to double-charge-plugs battery

Standard national standard charging dock

STABLE AND EFFICIENT

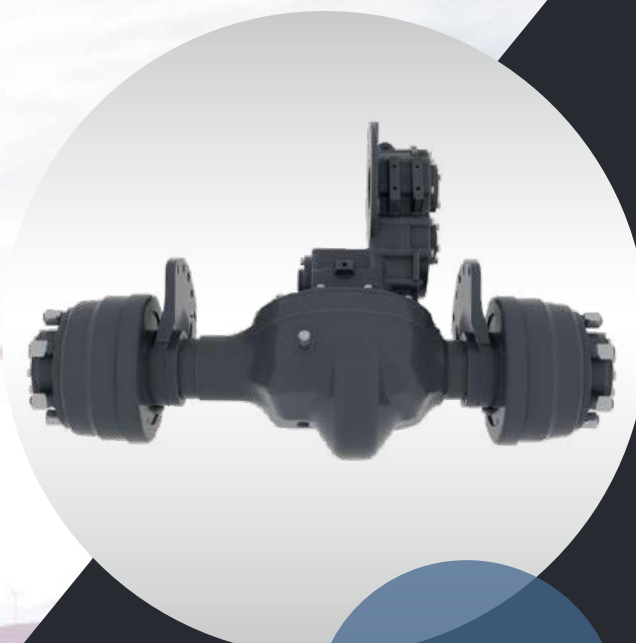
ENSURING THE HIGH EFFICIENCY AND RELIABILITY OF THE ENTIRE TRUCK



Small turning radius



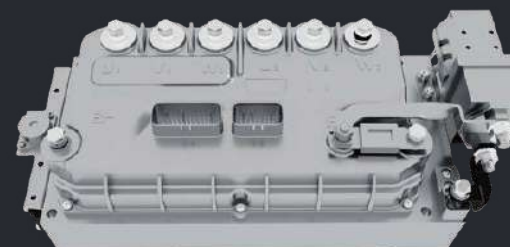
High definition color screen instrument, comprehensive display of truck information, timely reminders, easy operation



HELI's self-developed high speed ratio parallel drive bridge, passed 500,000 bench durability experiments, is safe and reliable



Large turning angle steering axle, reducing the turning radius of the forklift



The controller is equipped with Bluetooth flashing the system, which can upgrade the system without the need for a computer



The oil pump motor adopts a synchronous reluctance motor, which is efficient in lifting and turning at full speed

CONVENIENT MAINTENANCE

EASY FOR THE DRIVER TO OPERATE

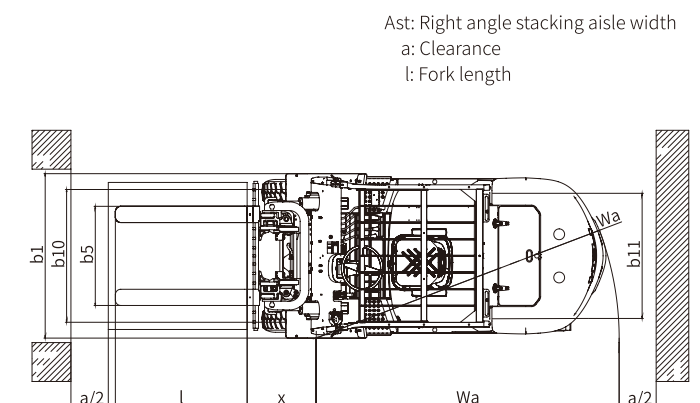
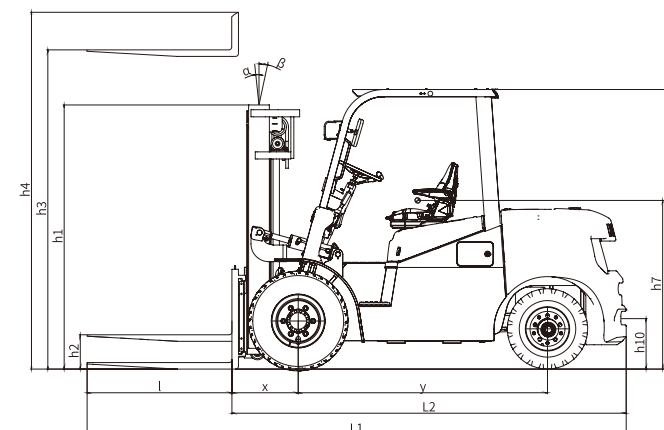
LARGE OPENING ANGLE SEAT BOX COVER



- After opening the seat box cover and counterbalance cover, the pump/pump motor, controller, DC-DC, integrated electrical box and other components are clearly visible, making maintenance and upkeep convenient

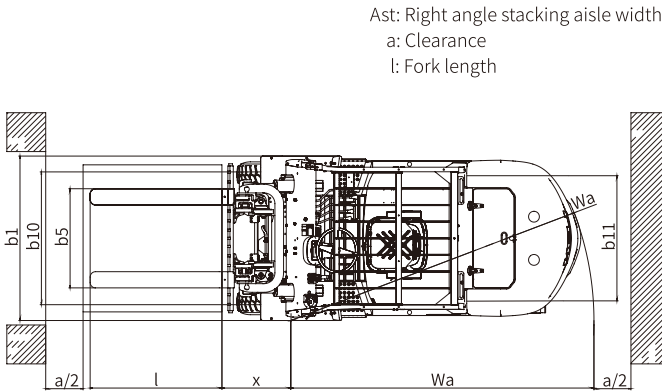
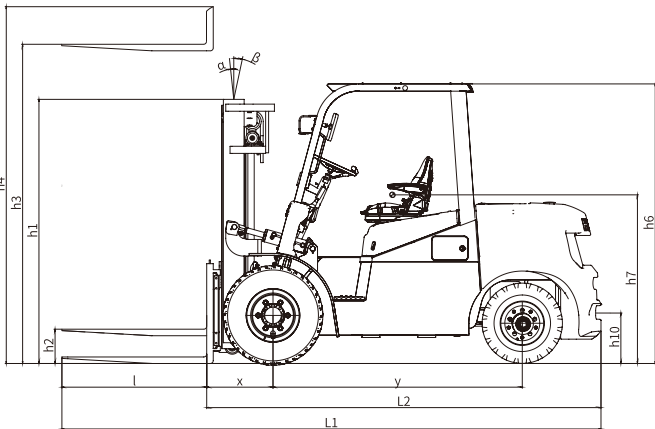
Manufacturer and Technical Data 1

Characteristics		HELI			
1.01	Manufacturer				
1.02	Model		CPD40	CPD45	CPD50
1.03	Configuration number		A7LIK2-S	A7LIK2-S	A7LIK2-S
1.04	Rated capacity	Q	kg	4000	4500
1.05	Load center distance	c	mm	500	500
1.06	Power mode				Lithium battery
1.07	Driving mode				Seated
1.08	Front overhang	x	mm		560
1.09	Wheelbase	y	mm		2100
Weight					
2.01	Total weight (with/without battery)		kg	6290/5875	6525/6110
2.02	Axle load (laden,front/rear)		kg	9025/1265	9685/1340
2.03	Axle load (unladen,front/rear)		kg	2990/3300	2915/3610
Tyres					
3.01	Tyre type				Pneumatic-tyre
3.02	Tyre size,front			8.25-15-14PR	300-15-18PR
3.03	Tyre size,rear				7.00-12-14PR
3.04	Wheels,number front/rear (x=driven wheels)				2×/2
3.05	Tread, front	b10	mm		1230
3.06	Tread, rear	b11	mm		1190
Dimensions					
4.01	Mast tilt angle (forward/backward)	α/β	°		6/12
4.02	Height (mast lowered)	h1	mm	2225	2275
4.03	Free lifting height	h2	mm		155
4.04	Lifting height (standard)	h3	mm		3000
4.05	Max. height,extended (with backrest)	h4	mm	4240	4390
4.06	Height of overhead guard	h6	mm		2350
4.07	Seat height relating to SIP (to ground)	h7	mm		1270
4.08	Towing coupling height	h10	mm		295
4.09	Overall length (with fork)	l1	mm	4320	4520
4.10	Overall length (without fork)	l2	mm	3250	3300
4.11	Overall width	b1	mm		1530
4.12	Fork size:thickness x width x length	s/e/l	mm	50×150×1070	55×150×1220
4.13	Fork carriage,according to ISO2328			3A	4A
4.14	Distance across fork-arms, Max./Min.	b5	mm		300-1374
4.15	Distance across fork-arms, Max./Min.	m1	mm		150
4.16	Ground clearance (center of wheelbase)	m2	mm		200
4.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm	4690	4730
4.18	Right angle stacking aisle width for pallet 800 x1200mm crossways	Ast	mm		
4.19	Min. outside turning radius	Wa	mm	2930	2970
Performance Data					
5.01	Travel speed (laden/unladen)		km/h		15/15
5.02	Lift speed (laden/unladen)		mm/s	300/400	280/400
5.03	Lowering speed (laden/unladen)		mm/s		500/450
5.04	Max.drawbar pull (laden)		N		20000
5.05	Max.gradeability (laden)		%	18	16
5.06	Acceleration time(10 m)(laden/unladen)		s		15
Battery					
6.01	Battery voltage/Capacity		V/Ah		80/404
6.02	Battery weight		kg		415
Motor and controller					
7.01	Driving motor powering (S2-60min)		kW		18
7.02	Lifting motor powering (S3-15%)		kW		26
7.03	Driving motor controlling mode				MOSFET/AC
7.04	Lifting motor controlling mode				MOSFET/AC
Addition data					
8.01	Service brake/Parking brake				Hydraulic power assisted braking/Ratchet mechanical handbrake
8.02	Relief pressure		Mpa		21.5



Ast: Right angle stacking aisle width
a: Clearance
l: Fork length

Manufacturer and Technical Data 2									
Characteristics									
1.01	Manufacturer			HELI					
1.02	Model			CPD40	CPD45	CPD50	CPD50		
1.03	Configuration number			A7LIK2-M	A7LIK2-M	A7LIK2-M	A7LIK2-06M		
1.04	Rated capacity	Q	kg	4000	4500	5000	5000		
1.05	Load center distance	c	mm	500	500	500	600		
1.06	Power mode			Lithium battery					
1.07	Driving mode			Seated					
1.08	Front overhang	x	mm	560					
1.09	Wheelbase	y	mm	2100					
Weight									
2.01	Total weight (with/without battery)		kg	6355/5920	6590/6155	6885/6450	7300/6840		
2.02	Axle load (laden,front/rear)		kg	9065/1290	9735/1355	10485/1400	10720/1580		
2.03	Axle load (unladen,front/rear)		kg	3010/3345	2955/3635	2930/3955	2920/4380		
Tyres									
3.01	Tyre type			Pneumatic-tyre					
3.02	Tyre size,front			8.25-15-14PR	300-15-18PR				
3.03	Tyre size,rear			7.00-12-14PR					
3.04	Wheels,number front/rear (x=driven wheels)			2×/2					
3.05	Tread, front	b10	mm	1230					
3.06	Tread, rear	b11	mm	1190					
Dimensions									
4.01	Mast tilt angle (forward/backward)	α/β	°	6/12					
4.02	Height (mast lowered)	h1	mm	2225			2275		
4.03	Free lifting height	h2	mm	155					
4.04	Lifting height (standard)	h3	mm	3000					
4.05	Max. height,extended (with backrest)	h4	mm	4240			4390		
4.06	Height of overhead guard	h6	mm	2350					
4.07	Seat height relating to SIP (to ground)	h7	mm	1270					
4.08	Towing coupling height	h10	mm	295					
4.09	Overall length (with fork)	l1	mm	4320			4520		
4.10	Overall length (without fork)	l2	mm	3250			3300		
4.11	Overall width	b1	mm	1530					
4.12	Fork size:thickness x width x length	s/e/l	mm	50×150×1070			55×150×1220		
4.13	Fork carriage,according to ISO2328			3A			4A		
4.14	Distance across fork-arms, Max./Min.	b5	mm	300-1374					
4.15	Distance across fork-arms, Max./Min.	m1	mm	150					
4.16	Ground clearance (center of wheelbase)	m2	mm	200					
4.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm	4690			4730		
4.18	Right angle stacking aisle width for pallet 800 x1200mm crossways	Ast	mm						
4.19	Min. outside turning radius	Wa	mm	2930			2970		
Performance Data									
5.01	Travel speed (laden/unladen)		km/h	18/18					
5.02	Lift speed (laden/unladen)		mm/s	370/430	350/430	330/430	330/430		
5.03	Lowering speed (laden/unladen)		mm/s	500/450					
5.04	Max.drawbar pull (laden)		N	22000					
5.05	Max.gradeability (laden)		%	20	19	18	18		
5.06	Acceleration time(10 m)(laden/unladen)		s						
Battery									
6.01	Battery voltage/Capacity		V/Ah	80/460			80/500		
6.02	Battery weight		kg	415					
Motor and controller									
7.01	Driving motor powering (S2-60min)		kW	20					
7.02	Lifting motor powering (S3-15%)		kW	30					
7.03	Driving motor controlling mode			MOSFET/AC					
7.04	Lifting motor controlling mode			MOSFET/AC					
Addition data									
8.01	Service brake/Parking brake			Hydraulic power assisted braking/Ratchet mechanical handbrake					
8.02	Relief pressure		Mpa	21.5					

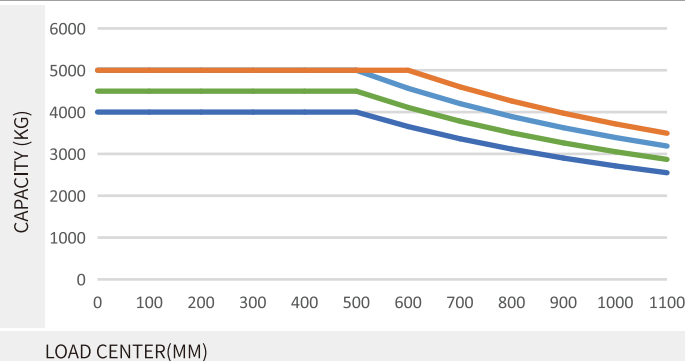


4-5t 门架参数表															
Mast type	Mast Model	Max. lifting height (mm)	Load capacity(kg)				Height (mast lowered)(mm)		Free lift (with backrest) (mm)		Service weight (kg)				Mast tilt angle α/β (°)
			4t@500	4.5t@500	5t@500	5t@600	4/4.5/5t@500	5t@600	4/4.5/5t@500	5t@600	4t@500	4.5t@500	5t@500	5t@600	
Wide View Standard Mast	M250	2500	4000	4500	5000	5000	1975	2025	150	155	6215	6450	6745	7180	6°/12°
	M275	2750	4000	4500	5000	5000	2115	2165	150	155	6265	6500	6795	7215	6°/12°
	M300	3000	4000	4500	5000	5000	2225	2275	150	155	6290	6525	6820	7245	6°/12°
	M330	3300	4000	4500	5000	5000	2375	2425	150	155	6325	6560	6855	7285	6°/12°
	M350	3500	4000	4500	5000	5000	2475	2525	150	155	6350	6585	6880	7310	6°/12°
	M370	3700	4000	4500	5000	5000	2575	2625	150	155	6370	6605	6900	7335	6°/12°
	M400	4000	4000	4500	5000	5000	2825	2825	150	155	6495	6730	7025	7450	6°/6°
	M425	4250	4000	4500	5000	5000	2950	2950	150	155	6525	6760	7055	7485	6°/6°
	M450	4500	3800 *4000	4300 *4500	4700 *5000	4700 *5000	3075	3075	150	155	6550	6785	7080	7515	6°/6°
	M475	4750	3700 *4000	4200 *4500	4500 *5000	4500 *5000	3200	3200	150	155	6580	6815	7110	7550	6°/6°
	M500	5000	3500 *3700	4000 *4200	4250 *4600	4000 *4500	3325	3325	150	155	6610	6845	7140	7580	6°/6°
	M550	5500	3200 *3400	3600 *4000	4000 *4200	3800 *4000	3625	3625	150	155	6680	6915	7210	7655	6°/6°
	M600	6000	*3200	*3600	*3800	*3500	3875	3875	150	155	6735	6970	7265	7720	6°/6°
Wide View Full Free 2-Stage Mast	ZM250	2500	4000	4500	5000	5000	1990	1990	780	630	6305	6540	6835	7300	6°/12°
	ZM275	2750	4000	4500	5000	5000	2130	2130	920	770	6350	6585	6880	7340	6°/12°
	ZM300	3000	4000	4500	5000	5000	2240	2240	1030	880	6375	6610	6905	7375	6°/12°
	ZM330	3300	4000	4500	5000	5000	2390	2390	1180	1030	6420	6655	6950	7420	6°/12°
	ZM350	3500	4000	4500	5000	5000	2490	2490	1280	1130	6445	6680	6975	7450	6°/12°
	ZM370	3700	4000	4500	5000	5000	2590	2590	1380	1230	6475	6710	7005	7480	6°/12°
	ZM400	4000	4000	4500	5000	5000	2790	2790	1580	1430	6595	6830	7125	7605	6°/6°
Wide View Full Free 3-Stage Mast	ZSM360	3600	3800 *4000	4350 *4500	4800 *5000	4800 *5000	1940	1990	730	630	6625	6860	7155	7645	6°/6°
	ZSM400	4000	3800 *4000	4350 *4500	4800 *5000	4800 *5000	2080	2130	870	770	6680	6915	7210	7700	6°/6°
	ZSM435	4350	3800 *4000	4350 *4500	4800 *5000	4800 *5000	2190	2240	980	880	6720	6955	7250	7745	6°/6°
	ZSM450	4500	3800 *4000	4350 *4500	4800 *5000	4800 *5000	2240	2290	1030	930	6745	6980	7275	7770	6°/6°
	ZSM470	4700	3500 *3800	4000 *4200	4500 *4800	4500 *4700	2305	2355	1095	995	6785	7020	7315	7795	6°/6°
	ZSM500	5000	3350 *3500	3800 *4000	4200 *4500	4000 *4300	2440	2490	1230	1130	6825	7060	7355	7850	6°/6°
	ZSM540	5400	3250 *3400	3400 *3700	3800 *4200	3700 *4000	2590	2640	1380	1280	6885	7120	7415	7910	6°/6°
	ZSM600	6000	*3200	*3400	*3800	*3500	2790	2840	1580	1480	7030	7265	7560	8060	6°/6°
	ZSM650	6500	*2500	*2800	*3200	*3000	2990	3040	1780	1680	7105	7340	7635	8135	3°/3°
	ZSM700	7000	*1800	*2000	*2500	*2300	3165	3215	1955	1855	7170	7405	7700	8200	3°/3°

Note: 1. The weight of the entire truck is based on the data of the standard model(-S/-06S);
2. *Indicates the rated load capacity of the front wheel with twin tyres;
3. 4-5t:When there is no backrest, the free lifting height increases by 425mm.

Lithium ion battery, Battery charger					
Model	Battery voltage/capacity				
	HELI 80V/404Ah	HELI 80V/460Ah	HELI 80V/500Ah	HELI 80V/560Ah	HELI 80V/690Ah
CPD40/45/50-A7LIK2-S	●	○	○	○	○
CPD50-A7LIK2-06S	—	●	○	○	○
CPD40/45/50-A7LIK2-M	—	●	○	○	○
CPD50-A7LIK2-06M	—	—	●	○	○
Standard configuration:Lithium-ion battery with automatic heating at low temperature;Plugs and sockets meeting national standard					
Charger(domestic)	D80V200ALI-123/423/523/623 (Single-charge-plug) ; D80V400A-424/D80V-400A-LI-124 (Double-charge-plugs)				
Charger(abroad)	D80V200ALI-123/423/523E38C (Single-charge-plug) ; D80V-400A-LI-124EN (Double-charge-plugs)				
Charging time	Full charging time=battery capacity/charging current. For example: the battery capacity is 80V/404Ah, the charger is 200A, thus the full charging time is 404/200≈2.04h				
Note: “●” standard ; “○” optional ; “—” non-configurable.					

LOAD CURVE



— CPD40-A7LIK2-S/M — CPD45-A7LIK2-S/M
— CPD50-A7LIK2-S/M — CPD50-A7LIK2-06S/06M

Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

HELI smart fleet management system (optional)

Vehicle positioning	Statistical form
Remote diagnosis	Vehicle management
Remote monitoring	Identification recognition
Maintenance reminder	Weight management (optional)
Battery management	Collision management (optional)



Configurations

Package type	HELI packing	●	Cab/ windshield glass	Front windshield (including wiper)	○
	Neutral packing	○		Front heat-resistant windshield (with wiper)	○
Energy saving and environmental protection	Load sense steering	●		Rear windshield(without wiper)	○
	Hydraulic power assisted brake valve with large displacement	●		Glass ceiling	○
Intelligent Security	Tilting cylinder with self-locking valve	●		PC endurance board ceiling	●
	Reversing buzzer	●		Panel mounted cab	○
	Reversing voice horn(Chinese language)	○		CE cab	○
	Reverse radar and camera	○		Air conditioner	○
	Speed limit (5/10/15km/h)	○		Heater	○
	Steering speed automatic limitation	○	Mast	Basic wide view mast with 3m	●
	Overspeed alarm (5/10/15km/h)	○		The other lifting heights of basic wide view mast	○
	Full set OPS	○		Two stages full free wide view mast	○
	HELI FICS system(domestic)	○		Three stages full free wide view mast	○
	Emergency stop button	●		Non standard fork and attachment	○
Comfortable and convenient	Fire extinguisher	○	Light class	LED lamps for whole truck	●
	Mast lifting buffer	○		LED rear work lights	○
	Mast lowering buffer	●		Front/rear LED blue spotlight	○
	Steering wheel with knob (HELI packing)	●		Lateral or/and rear blue bar lights	○
	Steering wheel without knob (HELI packing)	○		Lateral or/and rear red bar lights	○
	Full hydraulic power steering	●		LED flashingwarninglight (assembly type)	●
	Speed limiting valve for lifting oil circuit	●	Tyre	LED rotary warning light (assembly type)	○
	Man-machine interactive liquid crystal instrument	●		LED rotary buzzerlight (assembly type)	○
	Electric fan	○		Pneumatic tyre	●
	Bottle holder	●	Other	Solid tyre	○
Overhead guard	USB interface (5V / 1A)	●		Trackless solid tyre	○
	Rear view mirrors at both sides	○		Metric thread	●
	Central wide-angle rearview mirror	●		Counterweight with protective net	○
	Get on handle	●		Counterweight and mast sling	○
	Half enclosed seat	●		Reinforced rollers	○
	HEAN semi/full suspension seat	○		Steering cylinder sleeve	○
	Grammer semi/full suspension seat	○		Tilting cylinder sleeve	○
	Rear toolbox	○		With non-universal key	●
	Standard overhead guard	●		With universal key(4 pieces)	○
	Low height overhead guard2230mm (120mm lower)	○		Traction device	●
				Driver's tool kits	●
				Customized color	○

Note: “●” standard ; “○” optional ; “—” non-configurable.

Note: “●” standard ; “○” optional ; “—” non-configurable.