

## CPD 60/70/80/100 A6LIK2-X

EMPOWER THE WORLD



### 6-10 t

K2 Series Lithium-ion Battery Forklift Truck  
for Container inside Operation



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# 6-10 t

K2 Series Lithium-ion Battery Forklift Truck  
for Container inside Operation



 Intelligent Safety

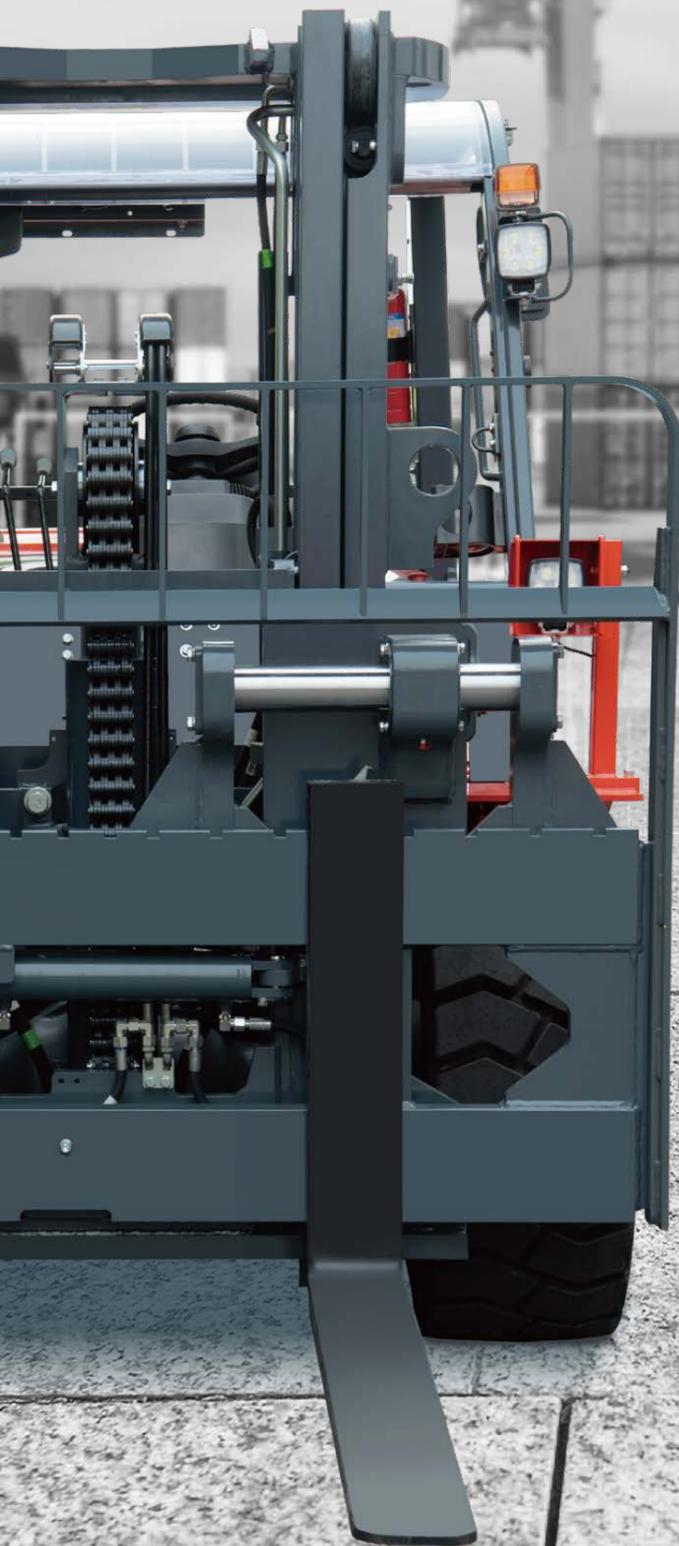
 Stable and Reliable

 Comfort and Convenient

 Convenient Maintenance

# Intelligent Safety

High and low voltage independent power distribution, safer and easier to maintain. Independent driving brake safe and reliable, energy-saving and efficient.



External service switch, easy to operate, effectively prevent electrified misoperation.



Dedicated high voltage orange cable meet the standards of new energy vehicles, multi-layer protection, wear-resistant, eye-catching



Standard mast lowering buffer, avoid extreme impact, intelligent safety

# Stable and Reliable



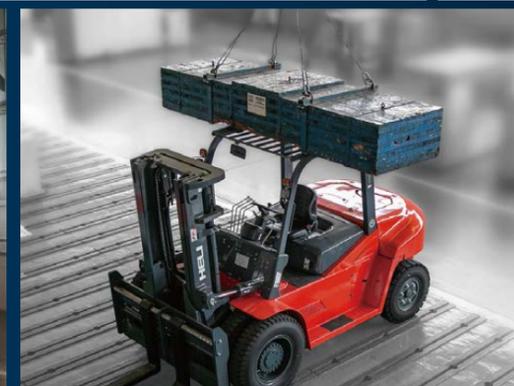
HELI's self-developed drive bridge is safe and reliable



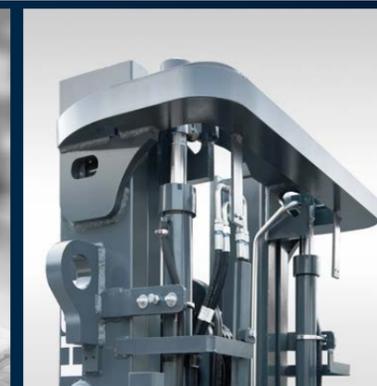
Standard steering cylinder sleeve, and casted steering wheel hub is more reliable in harsh working conditions



Rain test



Impact drop test of overhead guard



Reinforced crossbeam enhances stiffness and strength



Optional lateral or/and rear bar lights, rear work lights, blue spotlight, fire extinguisher, reverse radar and camera, etc. non-standard options for safer operation

# Comfort and Convenient



Hidden mast pipeline provides a wider view



Standard tea cup holder and USB interface(5V/1A)



Ratchet hand rake



LED front working lamp on fender makes it easier for container inside operation



Color screen instrument panel: Comprehensive display of vehicle information, timely reminders, and convenient operation



Integrated light handle switch

# Convenient Maintenance



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



Large opening angle hood

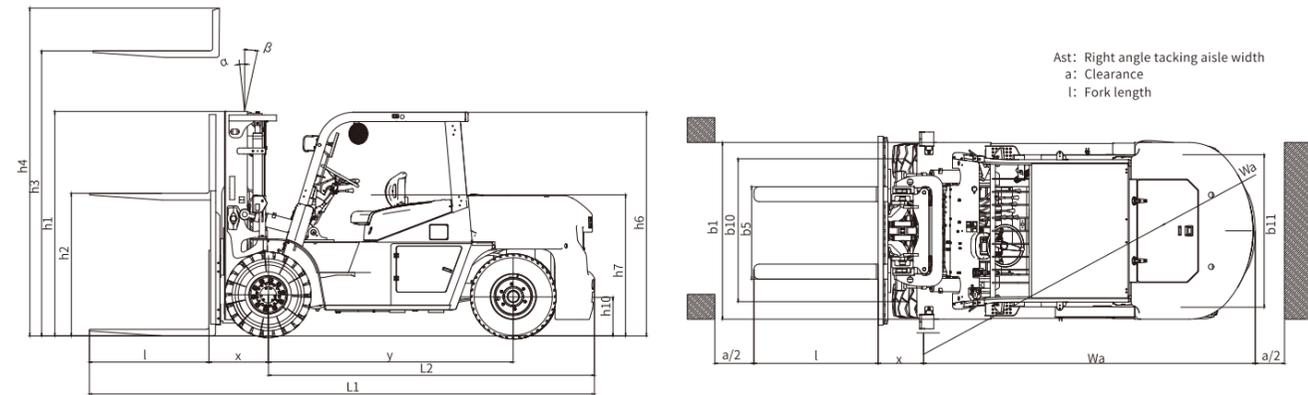


Integrated electrical cabinet, embedded instrument, easy to disassemble and maintain

Integrated hydraulic cabinet, easy maintenance of braking system



Standard folding seat frees headspace



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

## Manufacturer and Technical Data

			<b>HELI</b>				
			CPD60	CPD70	CPD80	CPD90	CPD100
1.01	Manufacturer						
1.02	Model		CPD60	CPD70	CPD80	CPD90	CPD100
1.03	Configuration number		A6LIK2-X	A6LIK2-X	A6LIK2-X	A6LIK2-09X	A6LIK2-X
1.04	Rated capacity	Q kg	6000	7000	8000	9000	10000
1.05	Load center distance	c mm	600				
1.06	Power mode		Lithium battery				
1.07	Driving mode		Seated				
1.08	Front overhang	x mm	580	585	590	700	700
1.09	Wheelbase	y mm	2400		2850		2850
Weight							
2.01	Total weight (with/without battery)	kg	8700/8080	9300/8680	10350/9640	12550/11840	12050/11340
2.02	Axle load (laden,front/rear)	kg	13100/1600	14500/1800	15900/2450	19610/1940	20250/1800
2.03	Axle load (unladen,front/rear)	kg	4000/4700	4050/5250	4050/6300	5555/6995	5600/6450
Tyres							
3.01	Tyre type		Pneumatic-tyre				
3.02	Tyre size,front		355/65-15-26PR			8.25-20-14PR	
3.03	Tyre size,rear		8.25-15-14PR			9.00-16-14PR	
3.04	Wheels,number front/rear (x=driven wheels)		2×/2			4×/2	
3.05	Tread, front	b10 mm	1386			1520	
3.06	Tread, rear	b11 mm	1500			1700	
Dimensions							
4.01	Mast tilt angle (forward/backward)	α/β °	6/12			10/12	
4.02	Height (mast lowered)	h1 mm	2210			2190	
4.03	Free lifting height	h2 mm	840			995	960
4.04	Lifting height (standard)	h3 mm	2500			1800	2100
4.05	Max. height,extended (with backrest)	h4 mm	3900			3150	3345
4.06	Height of overhead guard	h6 mm	2210			2230	
4.07	Seat height relating to SIP (to ground)	h7 mm	1300			1330	
4.08	Towing coupling height	h10 mm	390				
4.09	Overall length (with fork)	l1 mm	5450	5490	5620	6040	
4.10	Overall length (without fork)	l2 mm	3630	3670	3800	4220	
4.11	Overall width	b1 mm	1775			2050	
4.12	Fork size:thickness × width × length	s/e/l mm	70 × 150 × 1820	75 × 150 × 1820	75 × 150 × 1820	88 × 175 × 1820	
4.13	Fork carriage,according to ISO2328		4A				
4.14	Distance across fork-arms, Min./Max.	b5 mm	300-1690			470-1730	
4.15	Ground clearance(at mast)	m1 mm	130			165	
4.16	Ground clearance(center of wheelbase)	m2 mm	235				
4.17	Right angle stacking aisle width for pallet 1000×1200mm lengthways	Ast mm	5215	5265	5320	5840	
4.18	Right angle stacking aisle width for pallet 800×1200mm crossways	Ast mm	5415	5465	5520	6040	
4.19	Min. outside turning radius	Wa mm	3435	3480	3530	3940	
Performance Data							
5.01	Travel speed (laden/unladen)	km/h	23/23			19/19	
5.02	Lift speed (laden/unladen)	mm/s	350/450			330/450	300/400
5.03	Lowering speed (laden/unladen)	mm/s	Without load ≥ 300/with full load ≤ 600				
5.04	Max.drawbar pull (laden)	N	47000			55000	
5.05	Max.gradeability (laden)	%	25	25	20	20	
Battery							
6.01	Battery voltage/Capacity	V/Ah	326.4/150			326.4/202	
6.02	Battery weight	kg	620			710	
Motor and controller							
7.01	Driving motor powering (S2-60min)	kW	60				
7.02	Lifting motor powering (S3-15%)	kW	27.8×2				
7.03	Driving motor controlling mode		GBT/AC				
7.04	Lifting motor controlling mode		IGBT/AC				
Addition data							
8.01	Service brake/Parking brake		Hydraulic/mechanical				
8.02	Relief pressure	MPa	14				

## Battery and Chargers configuration

车型	电池容量		
	HELI 326.4V/150Ah	HELI 326.4V/202Ah	HELI 326.4V/230Ah
CPD60/70-A6LIK2-X	●	○	○
CPD80-A6LIK2-X			
CPD90-A6LIK2-09X	—	●	○
CPD100-A6LIK2-X			
Chargers	D336V100ALI-425/D336V150ALI-423		
Charging time	Full charging time=battery capacity/charging current. For example: the standard battery capacity of 6-7t forklift truck is 326.4V/150Ah, the charger is 100A, thus the full charging time is 150/100≈1.5h.		

## 6-8t Wide View Basic Mast

Mast model	Max. lifting height (mm)	Load capacity(load center 600mm)(Kg)			Height (mast lowered) (mm)	Free lift (with backrest) (mm)	Service weight(kg)			Mas tilt angle (°)α/β
		CPD60	CPD70	CPD80			CPD60/70/80	CPD60/70/80	CPD60	
M220	2200	6000	7000	8000	2080	160/165/170	8800	9400	10450	6/12

Note:with internal sideshifter, the load capacity is reduced by 200kg; with external sideshifter, the load capacity is reduced by 300kg.

## 6-8t Wide View Full Free 2-Stage Mast

Mast model	Max. lifting height (mm)	Load capacity(load center 600mm)(Kg)			Height (mast lowered) (mm)	Free lift (with backrest) (mm)	Service weight(kg)			Mas tilt angle (°)α/β
		CPD60	CPD70	CPD80			CPD60/70/80	CPD60/70/80	CPD60	
ZM220	2200	6000	7000	8000	2060	690/695/700	8674	9274	10324	6/12
ZM250	2500	6000	7000	8000	2210	840/845/850	8700	9300	10350	6/12

Note:(1)the free lift without backrest increases by 270mm.

(2)with internal sideshifter, the load capacity is reduced by 200kg; with external sideshifter, the load capacity is reduced by 300kg.

## 6-8t Wide View Full Free 3-Stage Mast

Mast model	Max. lifting height (mm)	Load capacity(load center 600mm)(Kg)			Height (mast lowered) (mm)	Free lift (with backrest) (mm)	Service weight(kg)			Mas tilt angle (°)α/β
		CPD60	CPD70	CPD80			CPD60/70	CPD60/70	CPD60	
ZSM320	3200	5600	6200	-	2210	840/845	9380	9980	-	6/6
ZSM360	3600	5600	6200	-	2210	840/845	9400	10000	-	6/6

Note:the free lift without backrest increases by 270mm.

## 9t Wide View Basic Mast

Mast model	Max. lifting height (mm)	Load capacity (load center 900mm) (Kg)	Height (mast lowered) (mm)	Free lift (with backrest) (mm)	Service weight(kg)	Mas tilt angle (°)α/β
M170	1700	9000	2190	218	12750	10/12

Note:with internal sideshifter, the load capacity is reduced by 200 kg.

## 9t Wide View Full Free 2-Stage Mast

Mast model	Max. lifting height (mm)	Load capacity (load center 900mm) (Kg)	Height (mast lowered) (mm)	Free lift (with backrest) (mm)	Service weight(kg)	Mas tilt angle (°)α/β
ZM180	1800	9000	2190	995	12550	10/12

Note:(1)9t:free lift without backrest,(2)with internal sideshifter, the load capacity is reduced by 200 kg.

## 10t Wide View Basic Mast

Mast model	Max. lifting height (mm)	Load capacity (load center 600mm) (Kg)	Height (mast lowered) (mm)	Free lift (with backrest) (mm)	Service weight(kg)	Mas tilt angle (°)α/β
M200	2000	10000	2190	200	12250	10/12

Note:with internal sideshifter, the load capacity is reduced by 200kg.

## 10t Wide View Full Free 2-Stage Mast

Mast model	Max. lifting height (mm)	Load capacity (load center 600mm) (Kg)	Height (mast lowered) (mm)	Free lift (with backrest) (mm)	Service weight(kg)	Mas tilt angle (°)α/β
ZM210	2100	10000	2190	960	12050	10/12

Note:(1)10t:free lift without backrest,(2)with internal sideshifter, the load capacity is reduced by 200kg.

## Chargers

Charger model	D336V100ALI-425	D336V150ALI-423
Rated input voltage	AC380V±15%	
Rated frequency	45HZ-60HZ	
Input power	≤40KVA	≤60KVA
Protection class	IP20	
Rated output voltage	200V-500V	
Rated output current	5A-100A	5A-150A
Rated output power	40KW	50.4KW
Forced cooling	Cooling type	
Operating temperature	-20°C-50°C	
Power plug	International universal charging plug	
Model	CPD60/70/80-A6LIK2-X;CPD90-A6LIK2-09X;CPD100-A6LIK2-X	

## Configuration(1)

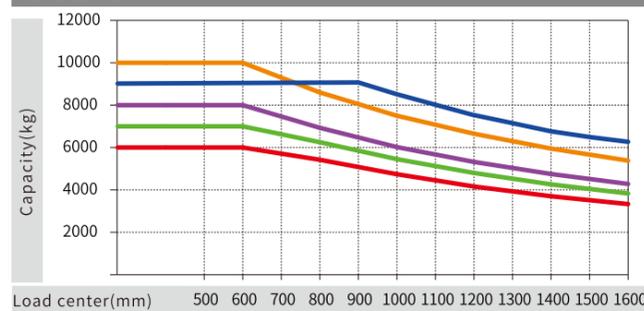
Package type	Option	
		Forklift truck for container inside operation
Intelligent Security	HELI packing	●
	Neutral packing	○
	Reversing voice horn(Chinese language)	●
	Reverse radar and camera	○
	Speed limit(5/10/15km/h)	○
	Overspeed alarm(5/10/15km/h)	○
	Full set OPS	●
	HELI FICS system(domestic)	○
	Emergency stop button	●
	Fire extinguisher	○
Comfortable and Convenient	Mast lowering buffer	●
	Steering wheel with knob(HELI packing)	●
	Steering wheel without knob(HELI packing)	○
	Full hydraulic power steering	●
	Speed limiting valve for lifting oil circuit	●
	Man-machine interactive liquid crystal instrument	●
	Electric fan	○
	Tea cup holder	●
	USB interface(5V/1A)	●
	Rear view mirrors at both sides	●
Windshield glass	Get on handle	●
	Folding seat	●
	Front windshield (including wiper)	○
	Rear windshield(without wiper)	○
	Windshield glass	○

## Configuration(2)

	Option	
		Forklift truck for container inside operation
Mast	Basic wide view mast	○
	2-stage wide view full free mast	●
	3-stage wide view full free mast(6/7t)	○
	Hook type of fork carriage(6/7/8t)	●
	Hydraulic fork Positioner(9/10t)	●
	Backrest(6/7/8t)	●
Lights	Non standard fork and attachment	○
	LED lamps for whole truck	●
	LED rear working lamp	○
	Rear LED blue spotlight	○
	Lateral blue bar lamps	○
	Lateral and rear blue bar lamps	○
	Lateral red bar lamps	○
	Lateral and rear red bar lamps	○
	Fixed type LED flicker warning lamp	●
	Fixed type LED rotating warning lamp	○
Fixed type LED rotating buzzer warning lamp	○	
Others	Metric thread	●
	Counterweight with protective net (without reverse radar and camera)	●
	Counterweight and mast sling	○
	Steering cylinder sleeve	○
	Tilting cylinder sleeve	○
	With non-universal key	●
	With universal key(4 pieces)	○
	Traction device	●
	Driver's tool kits	●
	Customized color	○

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

## Load Curve



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 1200mm 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.