HELI

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Design&Print:Forklift Printing 20211112

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HELI

CPD 30/35/38

K2B11LI-H
K2C11LI-S

LI ION **3-3.8 t**

K2 Series Lithium Battery Forklift Truck

20%
Maximum gradeability with load

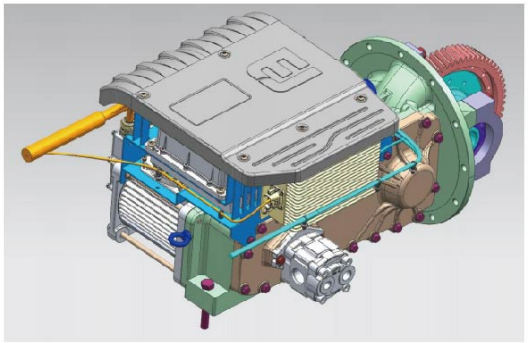
20km/h
Driving speed

430mm/s
Lifting speed with load

550mm/s
Lifting speed without load

Integrated Solution, Powerful And Efficient

- The voltage is increased from 80V of traditional lithium battery powered truck to 153.6V. The overall energy efficiency is significantly improved by increasing of the motor power and reducing of the current of motor and controller.
- Permanent magnet synchronous motor for electric vehicle which has lighter mass compared with the same energy three-phase asynchronous motor is adopted and the comprehensive efficiency is significantly improved by 20%.
- Superior comprehensive performance and significantly improved operation efficiency, which is superior to fuel truck.



Parameters on power	Heli K2 series lithium battery	Competitor
Max. gradeability (loaded/unloaded)	22%/25%	15%-20%
Travelling speed (loaded/unloaded)	20/20km/h	15-20km/h
Lifting speed (loaded/unloaded)	430/550mm/s	430/470mm/s

Note: the displayed data is for CPD35-k2b11LI-H model, and other data are shown in the technical parameter table.

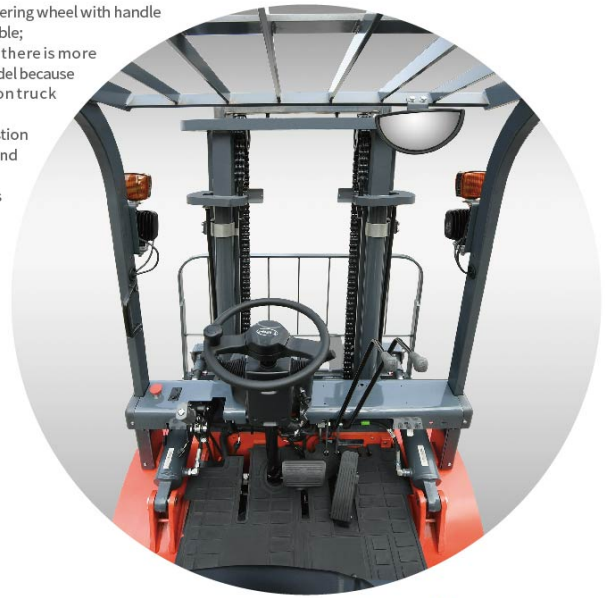
Integrated water cooling and heat dissipation system makes it more suitable for high-intensity working conditions.

- Integrated fan and water tank makes truck high efficiency and energy saving;
- The electric control of the motor is cooled in real time to minimize the shutdown caused by overheating of controller and motor;
- Hydraulic oil heat dissipation is equipped as standard to ensure the service life of hydraulic components and seals.

CPD 30/35/38
K2B11LI-H K2C11LI-S

The design in designs is more humanized and safer.

- Standard configuration of small diameter steering wheel with handle ball makes steering operation more comfortable;
- The seat is spacious and comfortable and there is more spacious leg space as internal combustion model because of the adoption of the internal combustion truck platform;
- Wide view mast taking from internal combustion models offers wider working field of vision and safer operation;
- USB power setting of instrument panel makes mobile phone charging more convenient;
- MSD maintenance switch realizes power cut off by one key and makes truck safe and reliable;
- The national standard charging socket makes it more convenient to charge at any time.



MSD Maintenance Switch

Charging Socket

USB Power

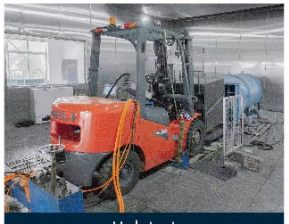
Note: page 3-4 is based on data and configuration of K2B11LI-H model. For more model details, please consult the sales person.

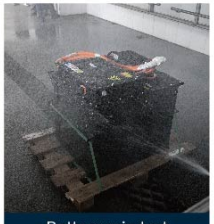
Full LCD digital high-definition instrument with more comprehensive functions.

- 4.3-inch high-definition LCD instrument makes the whole truck monitoring more convenient;
- The instrument interface comprehensively displays the basic information such as speed, electric quantity, service time and fault code, which is safe and efficient;
- The instrument is set with option button, and the auxiliary page can display the detailed information such as current, voltage, motor speed and motor electric control temperature. At the same time, the test options such as fan and electronic water pump are set to facilitate after-sales maintenance and inspection.

Reliable quality, safe and worry free

- Integrated casting drive axle and reinforced casting steering axle have been proven by the market and are mature and reliable;
- The mast and truck body of K2 series trucks have stronger bearing capacity, higher stability and safety;
- The test of main parts shall be fully verified to ensure reliability and safety.


Hub test

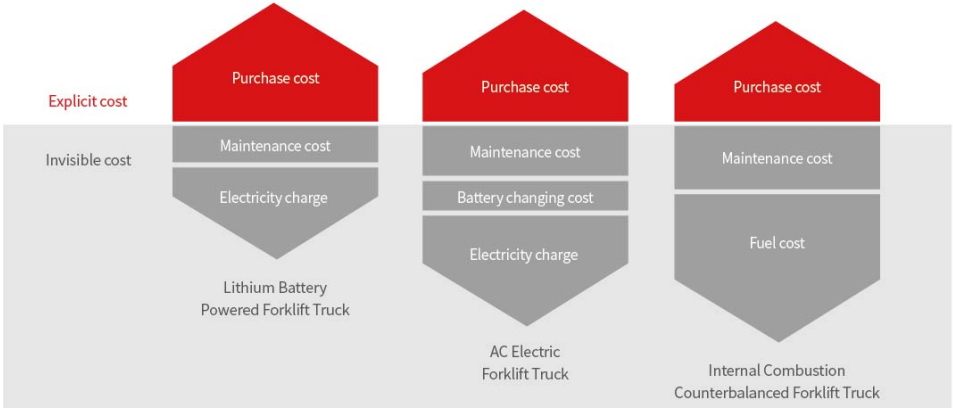

Battery rain test


Cold storage test

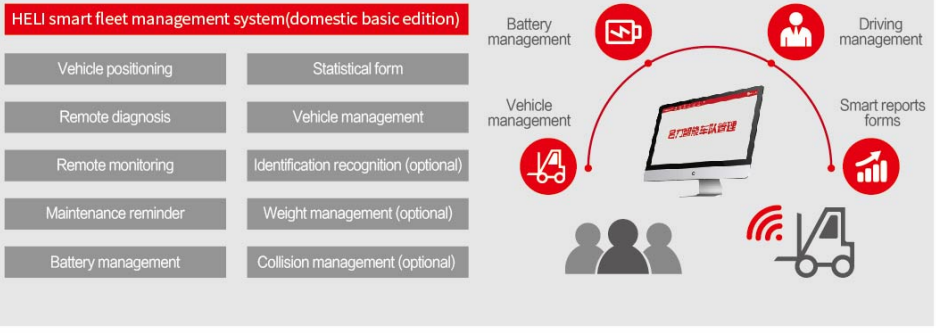

Wading test

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.

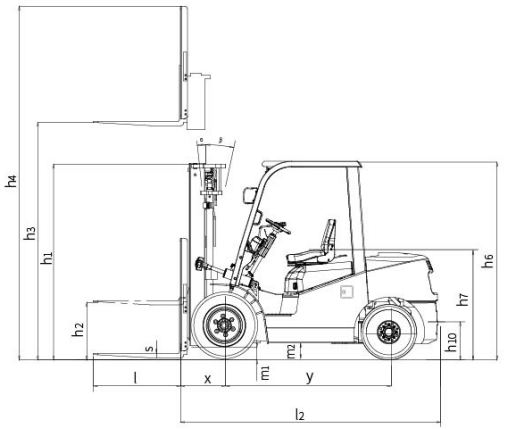


Smart fleet management system

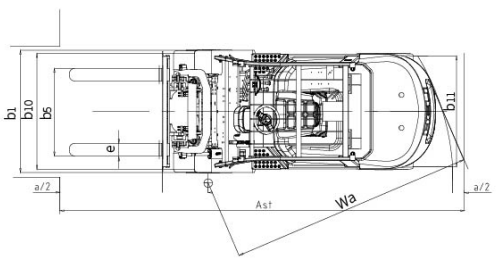


Manufacturer and Technical Data

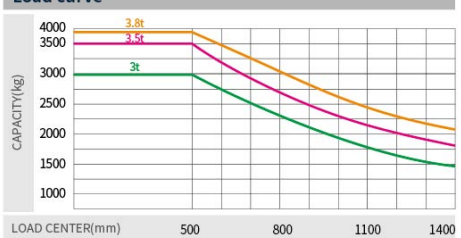
	Characteristics							
1.01	**Manufacturer**			HELI				
1.02	**Model**			CPD30	CPD35	CPD38	CPD30	CPD35
1.03	**Configuration number**			K2B11LI-H			K2C11LI-S	
1.04	**Rated capacity**	Q	kg	3000	3500	3800	3000	3500
1.05	**Load center distance**	c	mm	500			500	
1.06	**Power mode**			Lithium battery			Lithium battery	
1.07	**Driving mode**			Sit-on type			Sit-on type	
1.08	**Front overhang**	x	mm	478	484	484	478	484
1.09	**Wheelbase**	y	mm	1750			1750	
	Weight							
2.01	**Total weight**		kg	4340	4700	4870	4190	4550
2.02	**Axle load (laden,front/rear)**		kg	6545/830	7405/872	7755/890	6335/798	7195/840
2.03	**Axle load (unladen,front/rear)**		kg	1795/2560	1835/2880	1820/3060	1720/2480	1760/2800
	Tyres							
3.01	**Tyre type**			Pneumatic tyre			Pneumatic tyre	
3.02	**Tyre size,front**			28x9-15-14PR			28×9-15-14PR	
3.03	**Tyre size,rear**			6.5-10-10PR			6.5-10-10PR	
3.04	**Wheels,number front/rear (x=driven wheels)**			2X/2			2X/2	
3.05	**Tread, front**	b10	mm	1000			1000	
3.06	**Tread, rear**	b11	mm	970			970	
	Dimensions							
4.01	**Mast tilt angle (forward/backward)**	α/β	°	6/12			6/12	
4.02	**Height (mast lowered)**	h1	mm	2070	2120	2180	2070	2120
4.03	**Free lifting height**	h2	mm	155	160	160	155	160
4.04	**Lifting height (standard)**	h3	mm	3000			3000	
4.05	**Max. height,extended (with backrest)**	h4	mm	4217			4217	
4.06	**Height of overhead guard**	h6	mm	2140			2140	
4.07	**Seat height relating to SIP (to ground)**	h7	mm	1256			1256	
4.08	**Towing coupling height**	h10	mm	310			310	
4.09	**Overall length (with fork)**	l1	mm	3814	3820	3870	3814	3820
4.10	**Overall length (without fork)**	l2	mm	2744	2750	2800	2744	2750
4.11	**Overall width**	b1	mm	1225			1225	
4.12	**Fork size:thickness x width x length**	s/e/l	mm	45x125x1070			45x125x1070	
4.13	**Fork carriage,according to ISO2328**			2A			2A	
4.14	**Distance across fork-arms, Max./Min.**	b5	mm	1060/250			1060/250	
4.15	**Ground clearance (laden,between mast)**	m1	mm	135			135	
4.16	**Ground clearance (center of wheelbase)**	m2	mm	155			155	
4.17	**Right angle stacking aisle width for pallet 1000 x1200mm crossways**	Ast	mm	4078	4084	4094	4078	4084
4.18	**Right angle stacking aisle width for pallet 800 x1200mm lengthways**	Ast	mm	4278	4284	4294	4278	4284
4.19	**Min. outside turning radius**	Wa	mm	2400	2400	2410	2400	2400
	Performance Data							
5.01	**Travel speed (laden/unladen)**		km/h	20/20	20/20	20/20	13/13	13/13
5.02	**Lift speed (laden/unladen)**		mm/s	500/600	430/550	430/550	320/420	270/390
5.03	**Lowering speed (laden/unladen)**		mm/s	400/500	450/450	450/450	450/450	450/450
5.04	**Max.drawbar pull (laden/unladen)**		N	20300/13300	20500/13550	21300/13950	15500/13300	15530/13690
5.05	**Max.gradeability (laden/unladen)**		%	22/25	22/25	20/25	15/18	15/18
5.06	**Acceleration time (10m) (laden/unladen)**		s	5.4/5.0	5.6/5.1	5.7/5.2	6.1/5.4	6.3/5.6
	Battery							
6.01	**Voltage/capacity (K5)**		V/Ah	153.6/165(Optioal 153.6/230) (Orders of 153.6V/230Ah is available.)			115.2/125(Optional 115.2/165,115.2/230)	
6.02	**Mass (Min./Max.)**		kg	255/304			150/230	
	Motor and controller							
7.01	**Power of driving motor (S2-60min)**		kW	20			15	
7.02	**Power of lifting motor (S3-15%)**		kW	20			15	
7.03	**Control mode of driving motor**			MOS tube / AC			MOS tube / AC	
7.04	**Control mode of lifting motor**			MOS tube / AC			MOS tube / AC	
	Addition data							
8.01	**Service brake/Parking brake**			Hydraulic-pedal type/mechanical-manual type			Hydraulic-pedal type/mechanical-manual type	
8.02	**Operating pressure for attachments**		Mpa	14-16			14-16	



Ast: Right angle stacking aisle width
a: Clearance
l : Load Length



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 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.

Chargers

Charger model	APSP-150V100A-S1	APSP-150V200A-S1	D115V-50A-LI-428	D115V-100A-LI-428
Rated input voltage	Three phase four-wire system ac380v±15%	Three phase four-wire system AC380V±15%	Three phase four-wire system AC380V	Three phase four-wire system AC380V
Rated frequency	50/60HZ	50/60HZ	50/60HZ	50/60HZ
Input power	⩽20KVA	⩽40KVA	⩽7KW	⩽14KW
Protection degree	IP20	IP20	IP20	IP20
Rated output voltage	150V	150V	115V	115V
Rated output current	100A	200A	50A	100A
Rated output power	15KW	30KW	6KW	12KW
Cooling way	Forced cooling	Forced cooling	Forced cooling	Forced cooling
Working temperature	-20℃-50℃	-20℃-50℃	-20℃-50℃	-20℃-50℃
Plugs and sockets	International charging gun	International charging gun	REMA plugs	REMA plugs
Models	K2B11LI-H		K2C11LI-S	