HELI

Optional item

	Model	
Basic items	Solid tyre	●
	No-marking solid tyre	○
	Two piece valve	●
	Three piece valve	○
	Standard forks	●
	Non standard forks and attachments	○
Safety items	Full set of OPS functions	●
	Safety protecting function of multiway valve overload	●
	Dry powder fire extinguisher (0.5kg)	○
	Dry powder fire extinguisher (2kg)	○
	Reverse buzzer	●
	Reverse Chinese voice speaker	○
	Central wide-angle rearview mirror	●
	Rearview mirrors on two sides and central wide-angle rearview mirror	○
	Start with key, and card swiping	○
	Key start	●
Comfort items	He' an seat	●
	Grammer seat	○
	Mechanical operated valve	●
	Fan	○
Lights	LED rear work light	○
	Front LED red/blue spotlight	○
	Rear LED red/blue spotlight	○
	Lateral and rear red/blue strip lights	○
	Fixed LED flashing warning lights	○
	Fixed LED rotary warning light (K2C11LI-S is optional)	○
	Fixed LED rotating buzzer warning light	○
Others	HELI Lithium Battery	●
	CATL Lithium Battery	○
	EIKTO Lithium Battery	○
	HELI packaging	●
	Without HELI packaging	○
	Chinese plates	●
	English plates	○
	Customized special language plates	○

Note: "●" standard ; "○" optional ;

* Details of specifications and equipment are based on information available at time of printing and may change without notice.

HELI AMERICA INC

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CPD 08/10/12 SQ

A1H4/A5H4/A1LIH4/A5LIH4



1364-2646 lbs

H4 Series Three Wheel Battery Powered
Counterbalance Forklift Truck

Compact & Flexible
Durable & Excellent

Exquisite appearance excellent performance

The truck has small size and small turning radius which is suitable for working in narrow spaces;
The truck has a light weight and is more suitable for floor work.

Comfortable space and thoughtful operation

The truck has excellent driving space and easy access to operation controls.

Safe and reliable convenient maintenance

Reliable and stable performance makes maintenance easier.

H4 SERIES

People oriented design concept / inheritance family design concept
seek breakthrough in a appearance / showing dynamic charm in design details

Exquisite Appearance Excellent Performance

The truck has small size and small turning radius which is suitable for working in narrow spaces; The truck has a light weight and is more suitable for floor work.

The Truck Has Small Turning Radius And Good Passing Performance.

Foldable fork for elevator access is optional.



Front axle drive offers excellent performance.

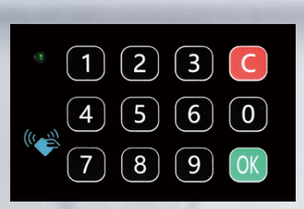


Comfortable Space And Thoughtful Operation

The truck has excellent driving space and easy access to operation controls.

Wide view mast design offers wide view.

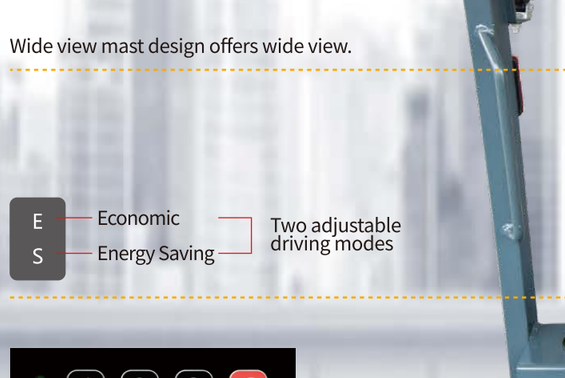
E Economic
S Energy Saving
Two adjustable driving modes



Card swiping starting is optional configuration for the truck.

The truck has large cab space with spacious legroom and headroom.

Ratchet type hand brake offers powerful operation.


Adjustable steering wheel angle is labor-saving and meets different needs.


Right mounted control valve stem offers easy operation.


No backlash gear pump is low noise.


Standard on-board charger offers charging anytime and anywhere.

Safe And Reliable, Convenient Maintenance

Reliable and stable performance makes maintenance easier.



Reliable Components

Lights
The entire truck is equipped with a standard LED lighting system, which has high brightness, long service life, and is more energy-efficient.

Mast
High-strength H-shaped channel steel is adopted.

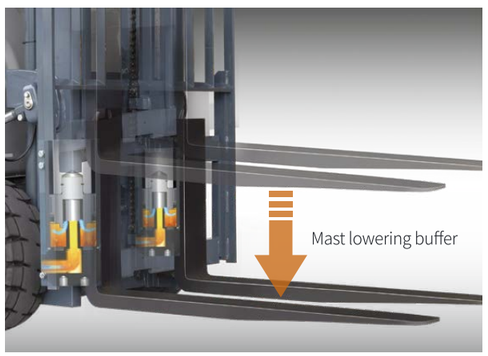
- Mast lowering buffer
- Hydraulic burst protection, forward tilting self-locking protection
- Electrical multiple protection：Short circuit protection, overheat protection, low power protection
- Parking safety reminder
- Slope sliding speed limit control
- Driver Presence Sensing System (Unmanned self-locking intelligent protection)、Operation sequence protection

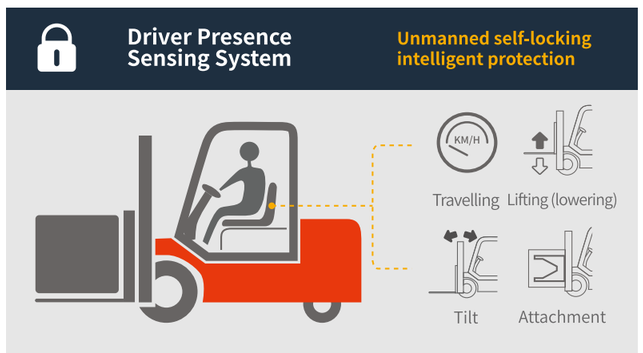
- Detachable framework offers easy maintenance of electrical components;
- Integrated steering axle is durable;
- The drive motor can be disassembled separately which offers convenient maintenance;
- Common platform for lithium battery trucks and lead acid battery truck which offers high degree of universality of components.

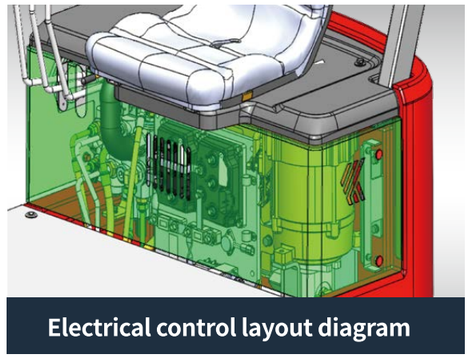
The three electrical systems are mature and reliable.
The truck is adopted with maintenance-free IP54 AC motor, well-known brand electronic control and battery.

Steering axle
High level transverse oil cylinder hydraulic steering axle is adopted.

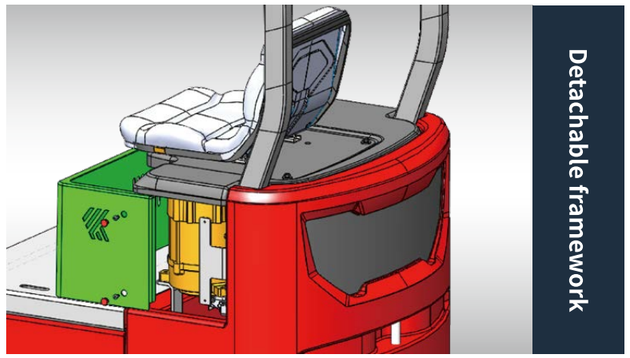








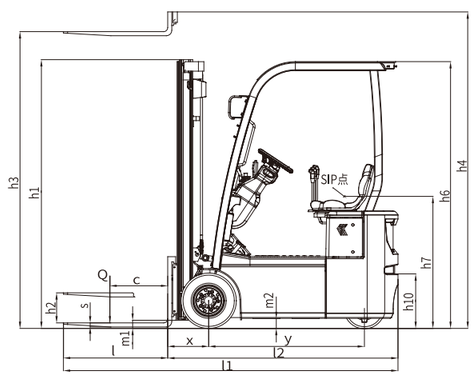
Electrical control layout diagram

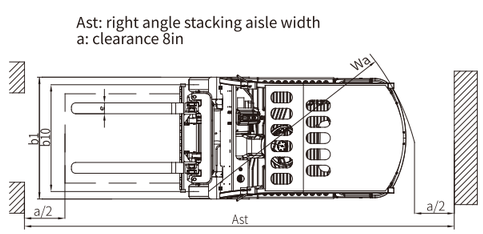


Detachable framework

Manufacturer and Technical Data

1.01	Manufacturer			HELI									
1.02	Model			CPD08SQ		CPD10SQ		CPD12SQ		CPD08SQ		CPD10SQ	CPD12SQ
1.03	Configuration number			A1H4	A5H4	A1H4	A5H4	A1H4	A5H4	A1LIH4	A5LIH4	A1LIH4 A5LIH4	A1LIH4 A5LIH4
1.04	Rated capacity	Q	lbs	1364		2245		2646		1364		2245	2646
1.05	Load center distance	c	in	24									
1.06	Power mode			Lead acid Battery						Lithium Battery			
1.07	Driving mode			Seated									
1.08	Front overhang	x	in	12									
1.09	Wheelbase	y	in	45.3									
2.01	Total weight (with/without battery)		lbs	3858.1/3432.6		4233/3648.7		4497.4/3836		3681.7/3428.2		4100.6/3847.1	4387.2/4122.6
2.02	Axle load (laden,front/rear)		lbs	4872.2/749.6		5533.6/904		6283.2/860		4651.8/794.7		5357.2/948	6062.7/970
2.03	Axle load (unladen,front/rear)		lbs	2006.2/1852		1929/2303.8		1962.1/2535.3		1763.7/1918		1763.7/2337	1785.7/2601.5
3.01	Tyre type			Solid tyre									
3.02	Tyre size,front			4.00-8									
3.03	Tyre size,rear			3.5-5									
3.04	Wheels,number front/rear (x=driven wheels)			2/2									
3.05	Tread, front	b10	in	31.5									
3.06	Tread, rear	b11	in	10.2									
4.01	Mast tilt angle (forward/backward)	α/β	°	5/7									
4.02	Height (mast lowered)	h1	in	77.8		77.8		77.8		77.8		77.8	77.8
4.03	Free lifting height	h2	in	2.4									
4.04	Lifting height (standard)	h3	in	118.1									
4.05	Max. height,extended (with backrest)	h4	in	149.6									
4.06	Height of overhead guard	h6	in	77.2									
4.07	Seat height relating to SIP (to ground)	h7	in	39.8									
4.08	Towing coupling height	h10	in	16.7									
4.09	Overall length (with fork)	l1	in	96.1		96.1		96.9		96.1		96.9	97.6
4.10	Overall length (without fork)	l2	in	65.7		65.7		66.5		65.7		66.5	67.3
4.11	Overall width	b1	in	35.4									
4.12	Fork size:thickness x width x length	s/e/l	in	1.2×3.1×30.3									
4.13	Fork carriage,according to ISO2328			2A									
4.14	Distance across fork-arms, Max./Min.	b5	in	31.5/7.1									
4.15	Ground clearance (at mast)	m1	in	2.6									
4.16	Ground clearance (center of wheelbase)	m2	in	2.6									
4.17	Right angle stacking aisle width for pallet 800 x800mm	Ast	in	97.6		97.6		98.1		97.6		98.1	98.7
4.18	Right angle stacking aisle width for pallet 1000 x1000mm	Ast	in	105.5		105.5		106		105.5		106	106.6
4.19	Min. outside turning radius	Wa	in	58.3		58.3		58.7		58.3		58.7	59.4
5.01	Travel speed (laden/unladen)		mph	6.2/7.5									
5.02	Lift speed (laden/unladen)		fpm	49.2/74.8		47.2/74.8		45.3/74.8		49.2/74.8		47.2/74.8	45.3/74.8
5.03	Lowering speed (laden/unladen)		fpm	78.7/65									
5.04	Max.drawbar pull (laden/unladen)		N	3300/3800									
5.05	Max.gradeability (laden/unladen)		%	13/15		12/15		10/15		13/15		12/15	10/15
5.06	Acceleration time(10 m)(laden/unladen)		S	6.7/6									
6.01	Battery voltage/Capacity (K5)		V/ Ah	24/240		24/360		24/420		24/250		24/250	24/280
7.01	Driving motor powering (S2-60min)		HP	3.02									
7.02	Lifting motor powering (S3-15%)		HP	6.03									
7.03	Driving motor controlling mode			MOSFET/AC									
7.04	Lifting motor controlling mode			MOSFET/AC									
8.01	Service brake/Parking brake			Hydraulic/Mechanical									
8.02	Operating pressure for attachments		Mpa	14.5									





Lead acid Battery、Charger

Voltage/Capacity(V/Ah)	24/240	24/300	24/360	24/420	24/480
CPD08SQ	●	○	-	-	-
CPD10SQ	-	-	●	○	○
CPD12SQ	-	-	-	●	○
On-board charger	E24V35A-13C22		E24V50A-13C22		

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

Lithium battery、Charger

Lithium Battery brand	HELI				EIKTO			CATL		
Voltage/Capacity(V/Ah)	24/250	24/280	24/300	24/404	24/270	24/300	24/350	24/228	24/302	24/346
CPD08SQ	●	○	○	-	○	○	-	○	○	-
CPD10SQ	●	○	○	-	○	○	-	○	○	-
CPD12SQ	○	●	○	○	○	○	○	○	○	○
Low temperature heating of lithium battery pack	●									
On-board charger	E24V50ALI-13C22									

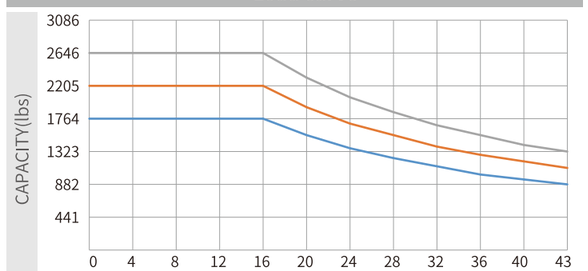
Note:"●"standard ;"○"optional ;"—" non-configurable.

Mast parameters

Mast type	Mast model	Max. lifting height (in)	Load capacity (lode center 24in)(lbs)			Height (mast lowered) (in)	Free lift (with backrest) (in)	Service weight (lbs)						Mast tilt angle α/β(°)
								1364lbs		2245lbs		2646lbs		
			1364lbs	2245lbs	2646lbs	1364-2646lbs	1364-2646lbs	Lithium	Lead acid	Lithium	Lead acid	Lithium	Lead acid	
Wide View Standard Mast	M200	78.7	1373.5	1717.4	2059.1	58.1	2.4	3564.9	3741.2	3983.8	4116.0	4270.4	4402.6	5°/7°
	M250	98.4	1373.5	1717.4	2059.1	67.9	2.4	3624.4	3800.8	4043.3	4175.6	4329.9	4462.2	5°/7°
	M270	106.3	1373.5	1717.4	2059.1	71.9	2.4	3646.4	3822.8	4065.3	4197.6	4351.9	4484.2	5°/7°
	M300	118.1	1373.5	1717.4	2059.1	77.8	2.4	3681.7	3858.1	4100.6	4232.9	4387.2	4519.5	5°/7°
	M330	130	1373.5	1717.4	2059.1	83.7	2.4	3717	3893.4	4135.9	4268.1	4422.5	4554.8	5°/7°
	M350	137.8	1373.5	1717.4	1973.1	87.6	2.4	3739	3915.4	4157.9	4290.2	4444.5	4576.8	5°/7°
	M370	145.7	1290	1545.4	1717.4	91.5	2.4	3763.3	3939.7	4182.2	4314.4	4468.8	4601	5°/7°
	M400	157.5	1201.5	1459.5	1545.4	99.4	2.4	3809.6	3986.0	4228.5	4360.7	4515.1	4647.3	5°/7°
	M425	167.3	1115.5	1373.5	1459.5	105.3	2.4	1744	4021.2	4263.7	4396	4515.1	4682.6	5°/7°
	M450	177.2	1029.6	1201.5	1287.5	111.2	2.4	3844.9	4054.3	4296.8	4429.1	4583.4	4715.7	5°/7°
Wide View Full Free 3-Stage Mast	ZSM360	141.7	1201.5	1373.4	1545.4	66.7	32.3	3785.3	3961.7	4204.2	4336.5	4490.8	4623.1	5°/7°
	ZSM370	145.7	1115.5	1287.5	1459.5	67.9	33.5	3796.4	3972.7	4215.2	4347.5	4501.8	4634.1	5°/7°
	ZSM400	157.5	1029.6	1115.5	1287.5	71.9	37.4	3838.2	4014.6	4257.1	4389.4	4543.7	4676	5°/7°
	ZSM435	171.3	857.6	1062.6	1115.5	77.0	42.5	3891.2	4067.5	4310	4442.3	4596.6	4728.9	5°/7°
	ZSM450	177.2	685.6	771.6	1062.6	78.9	44.5	3911	4087.4	4329.9	4462.2	4616.5	4748.8	5°/7°

Note: **Wide View Full Free 3-Stage Mast:** When there is no backrest, the free lifting height increases by 12.1in.

Load curve



CPD08 CPD10 CPD12

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 32in 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.