

Lead & Lithium Are Ready To Go.

H4 series 1.5-3.8 t battery powered counterbalance forklift truck emerge as the times require

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



Comfort and energy saving

01~02

The user experience is fully considered, and the superior operating space design provides high driving comfort.



Stable and Reliable

03~04

CAE analysis, component bench test and whole truck strengthening test are used to ensure reliability.



Intelligent security

05

Intelligent control and protection improve the safety of drivers.



Convenient maintenance

06

More convenient maintenance operation improves the maintenance efficiency of after-sale services.

Comfort and energy saving

The user experience is fully considered, and the superior operating space design provides high driving comfort.

Wide view mast design, wide front view

The big handle and the super spacious cab design are suitable for people of different heights.

Steering wheel start steering (optional)

P, E, S three speed regulation

P	Powerful	Multi gear performance mode can be freely selected according to actual working conditions.
E	Economics	
S	Energy saving	

The whole truck is equipped with LED lighting system as standard, with high brightness, long service life and more energy saving

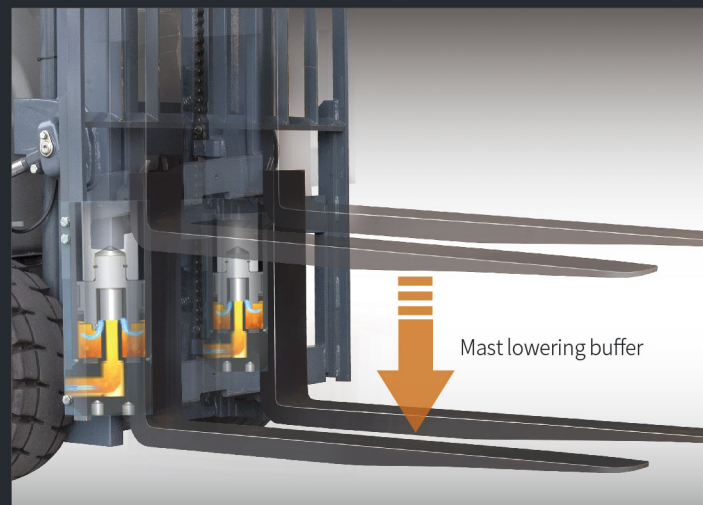
Reversing horn handle (s optional, M standard)



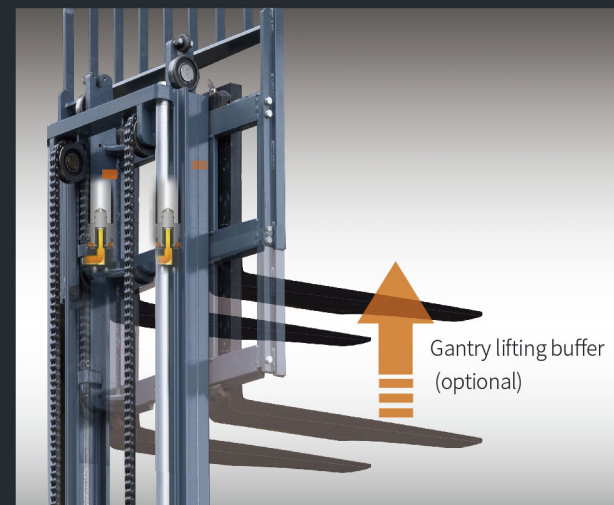
Semi enclosed shock-absorbing seat offers high comfort.



Electric special pattern tyre has low driving damping.



Mast lowering buffer



Gantry lifting buffer (optional)

Right set operating valve stem offers good operation comfort.

Intelligent color screen instrument offers more friendly human-computer interaction.



Graphical interface design / Chinese fault display / integrated handheld unit function / optional integrated vehicle networking function

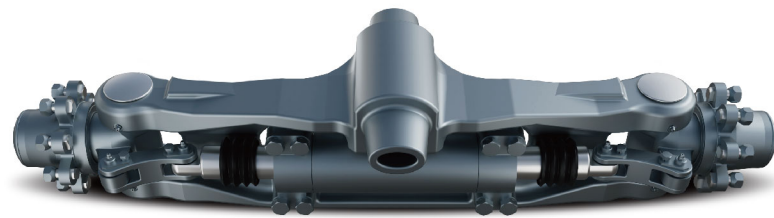


Full package design of instrument panel; Water cup holder, mobile phone storage space, USB interface (optional for S, standard for M)

Stable and Reliable

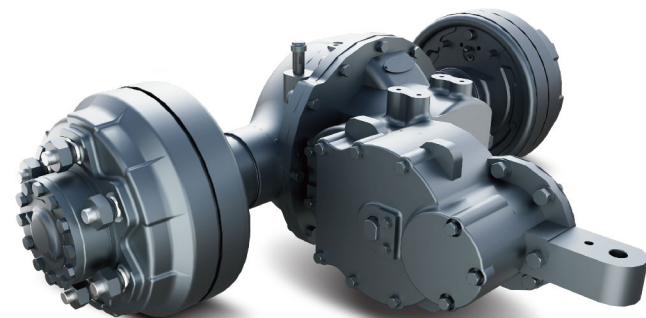
CAE analysis, component bench test and whole truck strengthening test are used to ensure reliability.

Reliable components



Steering axle:

Cast axle body, tapered roller bearing



Drive axle:

integral brake drum, integral cast axle housing, half shaft oil seal design, high-precision gear with large coincidence

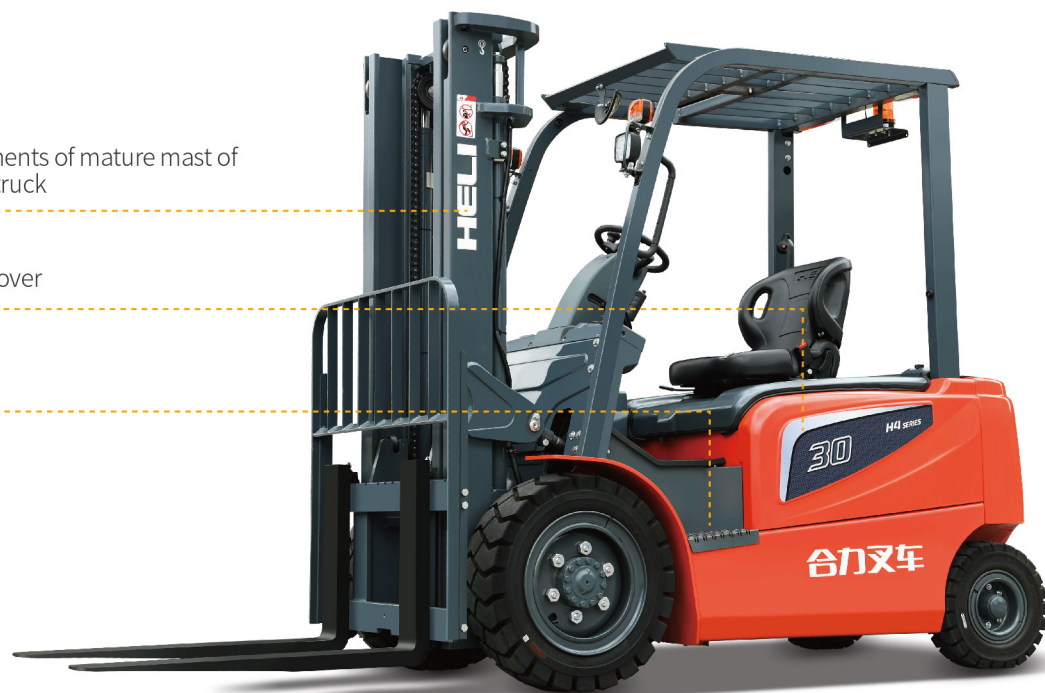


Mast:

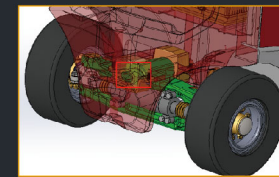
Borrowing the main components of mature mast of internal combustion forklift truck

Sheet metal stamping side cover

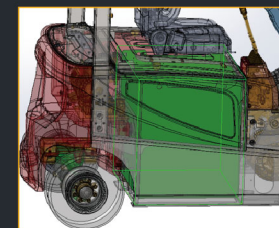
All metal anti-skid pedal



Good lateral stability of the whole truck and guaranteed safety during operation



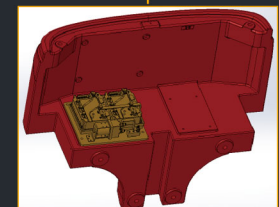
High rotation point steering axle



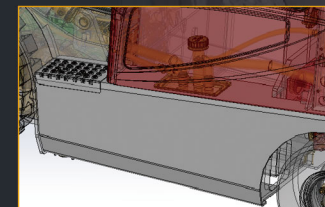
Middle and sink layout of the battery



Good heat dissipation



The electric control is placed on the counterweight



Side mounted welded oil tank

Test verification



Rain test

Simulate the operation under 15min rainstorm, reach IPx4 protection grade, and meet the needs of outdoor operation.



Cold storage test

The whole truck can run continuously after 6 hours of alternating operation in the -20 °C cold storage and 12 hours of parking in the cold storage.



Vehicle vibration test

The vibration frequency of the whole truck is tested to optimize and improve the operating comfort.



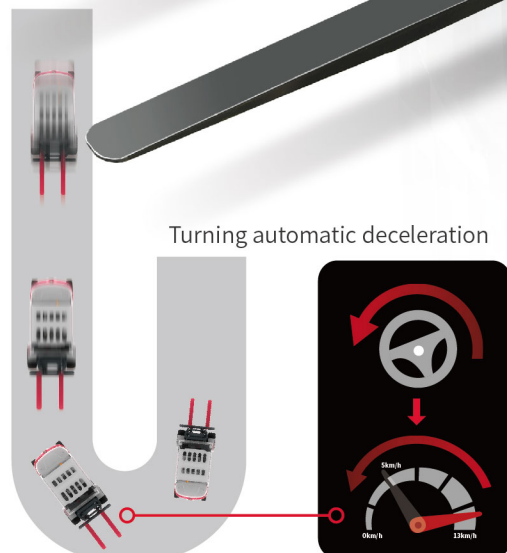
Reliability endurance test

800 hour strengthening of the whole truck (including climbing, rain, bumpy road, etc.).

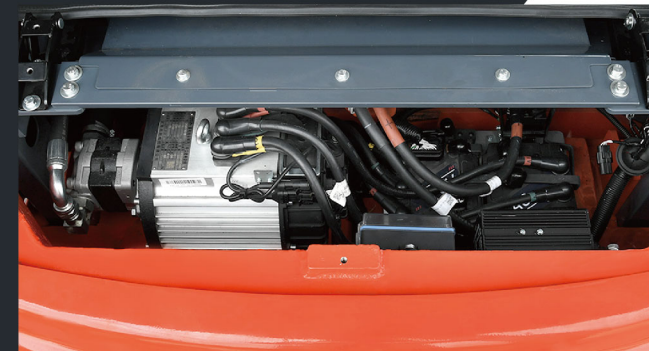
Intelligent security

Intelligent control and protection improve the safety of drivers.

- Dual core controller
- OPS protection
(standard driving OPS / optional hydraulic OPS)
- Hydraulic burst protection, forward tilting self-locking protection
- Electrical multiple protection
(short circuit protection, overheat protection, low power protection, sequence protection)
- Parking safety reminder
- Reminder through slow sliding on ramp
- Turning automatic deceleration (optional)



- Flexible battery charging mode (can be charged with the truck or replaced)
- Pump, pump motor, controller and other main electrical components are located on the counterweight, which is convenient for maintenance.
- Friendly interface



ADMIN

1.SW MONITOR	7.P.M.SET
2.OPERATE MONITOR	8.BDI SET
3.TEMP MONITOR	9.STEER SET
4.CUR MONITOR	10.T.M.CUR SET
5.USER.SET	11.T.S.CUR SET
6.T.M. SET	12.P.M.CUR SET

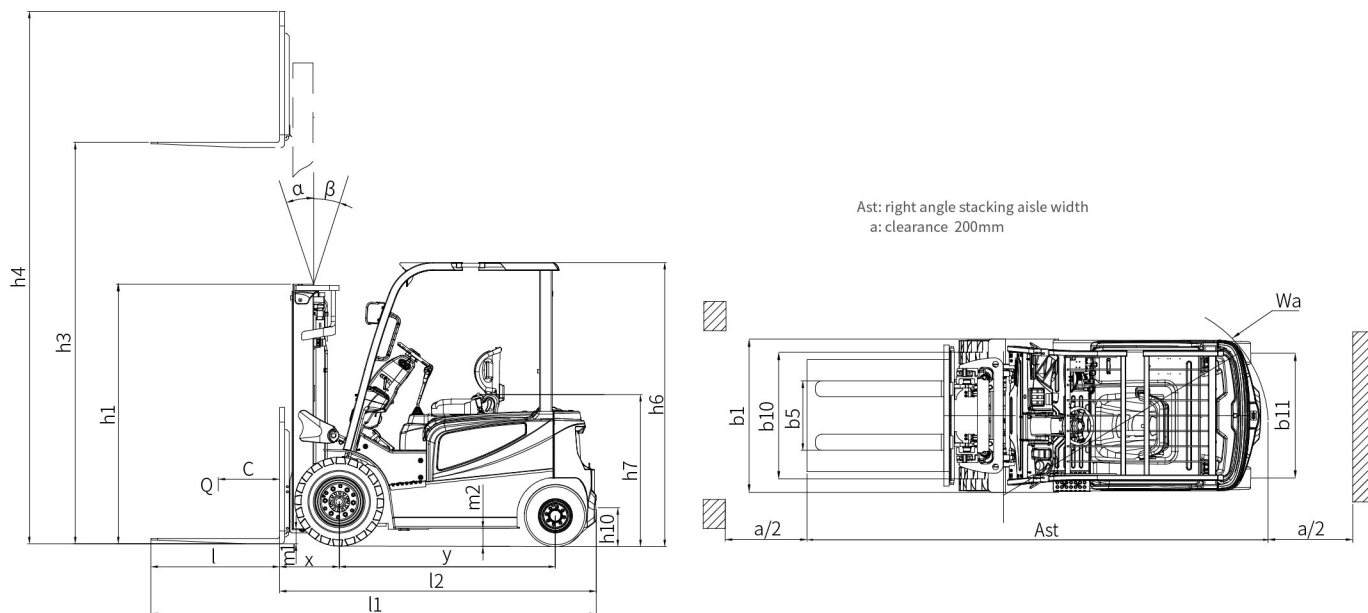


Convenient maintenance

More convenient maintenance operation improves the maintenance efficiency of after-sale services.

Manufacturer and Technical Data(Table 1)

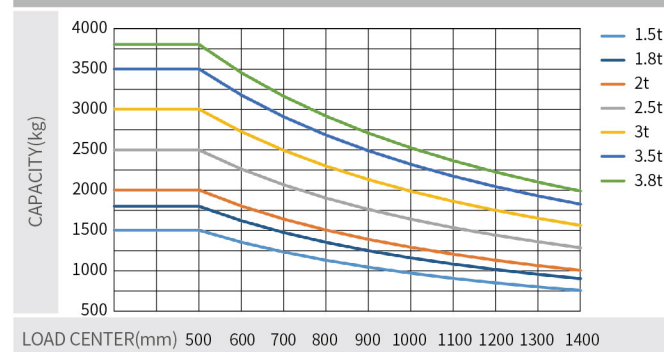
Characteristics							
1.01	Manufacturer			HELI			
1.02	Model			CPD15	CPD18	CPD15	CPD20
1.03	Configuration number			A3H4-M/ A5H4-M	A3H4-M/ A5H4-M	A5H4-S	A5XH4-S
1.04	Rated capacity	Q	kg	1500	1800	1500	2000
1.05	Load center distance	c	mm			500	
1.06	Power mode					Battery	
1.07	Driving mode					Seated	
1.08	Front overhang	x	mm		409		414
1.09	Wheelbase	y	mm			1475	
Weight							
2.01	Total weight (with/without battery)		kg	3125/2365	3175/2415	3050/2350	3300/2595
2.02	Axle load (laden,front/rear)		kg	3963/662	4431/544	3934/616	4776/524
2.03	Axle load (unladen,front/rear)		kg	1547/1578	1540/1635	1518/1532	1544/1756
Tyres							
3.01	Tyre type			Pneumatic tyre			
3.02	Tyre size,front			6.50-10-10PR			6.50-10-12PR
3.03	Tyre size,rear			16×6-8-10PR			
3.04	Wheels,number front/rear (x=driven wheels)			2/2			
3.05	Tread, front	b10	mm	934			
3.06	Tread, rear	b11	mm	920			
Dimensions							
4.01	Mast tilt angle (forward/backward)	α/β	°	6/8			
4.02	Height (mast lowered)	h1	mm	1995			
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	4014			
4.06	Height of overhead guard	h6	mm	2130			
4.07	Seat height relating to SIP (to ground)	h7	mm	1125			
4.08	Towing coupling height	h10	mm	250			
4.09	Overall length (with fork)	l1	mm	3120			3125
4.10	Overall length (without fork)	l2	mm	2200			2205
4.11	Overall width	b1	mm	1120			
4.12	Fork carriage,according to ISO2328	s/e/l	mm	2A			
4.13	Fork size:thickness x width x length			35×100×920			40×100×920
4.14	Distance across fork-arms, Max./Min.	b5	mm	960/200			
4.15	Distance across fork-arms, Max./Min.	m1	mm	100			
4.16	Ground clearance (center of wheelbase)	m2	mm	95			
4.17	Right angle stacking aisle width for pallet 1000 x1200mm (the side of 1200mm is placed across the forks.)	Ast	mm	3575			3580
4.18	Right angle stacking aisle width for pallet 800 x1200mm (the side of 1200mm is placed along the forks.)	Ast	mm	3770			3775
4.19	Min. outside turning radius	Wa	mm	1920			
Performance Data							
5.01	Travel speed (laden/unladen)		km/h	14.5/15	14.5/15	12/13	14.5/15
5.02	Lift speed (laden/unladen)		m/s	0.320/0.440	0.290/0.440	0.290/0.400	0.280/0.440
5.03	Lowering speed (laden/unladen)		m/s			0.400/0.400	
5.04	Max.drawbar pull (laden/unladen)		N	10200/9700	10200/9800	10200/9700	11000/10700
5.05	Max.gradeability (laden/unladen)		%	17/27	15/26	15/23	15/25
5.06	Acceleration time(10 m)(laden/unladen)		s	5.5/5.2	5.6/5.3	6.0/5.7	5.6/5.2
Battery							
6.01	Battery,according to DIN			43531A			
6.02	Battery voltage/Capacity (K5)		V/Ah	48/480	48/480	48/400	48/400
6.03	Battery weight		kg	760	760	700	705
Motor and controller							
7.01	Driving motor powering (S2-60min)		kW	8			
7.02	Lifting motor powering (S3-15%)		kW	10.6			
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/Mechanical			
8.02	Operating pressure for attachments		Mpa	16			



Manufacturer and Technical Data(Table 2)

Characteristics				HELI			
1.01	Manufacturer			CPD20	CPD25	CPD20	CPD25
1.02	Model			A3H4-M/ A5H4-M	A3H4-M/ A5H4-M	A5H4-S	A5H4-S
1.03	Configuration number			2000	2500	2000	2500
1.04	Rated capacity	Q	kg				
1.05	Load center distance	c	mm			500	
1.06	Power mode					Battery	
1.07	Driving mode					Seated	
1.08	Front overhang	x	mm			460	
1.09	Wheelbase	y	mm			1660	
Weight							
2.01	Total weight (with/without battery)		kg	4030/3100	4190/3260	3940/3100	4100/3260
2.02	Axle load (laden,front/rear)		kg	5300/730	6010/680	5220/720	5930/670
2.03	Axle load (unladen,front/rear)		kg	2050/1980	2140/2150	2030/1930	2000/2100
Tyres							
3.01	Tyre type					Pneumatic tyre	
3.02	Tyre size,front					7.00-12-14PR	
3.03	Tyre size,rear					18×7-8-14PR	
3.04	Wheels,number front/rear (x=driven wheels)					2/2	
3.05	Tread, front	b10	mm			970	
3.06	Tread, rear	b11	mm			960	
Dimensions							
4.01	Mast tilt angle (forward/backward)	α/β	°			6/10	
4.02	Height (mast lowered)	h1	mm			2000	
4.03	Free lifting height	h2	mm			165	
4.04	Lifting height (standard)	h3	mm			3000	
4.05	Max. height,extended (with backrest)	h4	mm			4320	
4.06	Height of overhead guard	h6	mm			2170	
4.07	Seat height relating to SIP (to ground)	h7	mm			1154	
4.08	Towing coupling height	h10	mm			300	
4.09	Overall length (with fork)	l1	mm	3354	3504	3354	3504
4.10	Overall length (without fork)	l2	mm			2434	
4.11	Overall width	b1	mm			1180	
4.12	Fork carriage,according to ISO2328	s/e/l	mm			2A	
4.13	Fork size:thickness x width x length			40×122×920	40×122×1070	40×122×920	40×122×1070
4.14	Distance across fork-arms, Max./Min.	b5	mm			1030/250	
4.15	Distance across fork-arms, Max./Min.	m1	mm			100	
4.16	Ground clearance (center of wheelbase)	m2	mm			125	
4.17	Right angle stacking aisle width for pallet 1000 x1200mm (the side of 1200mm is placed across the forks.)	Ast	mm			3753	
4.18	Right angle stacking aisle width for pallet 800 x1200mm (the side of 1200mm is placed along the forks.)	Ast	mm			3953	
4.19	Min. outside turning radius	Wa	mm			2140	
Performance Data							
5.01	Travel speed (laden/unladen)		km/h	14.5/15	14.5/15	12/13	12/13
5.02	Lift speed (laden/unladen)		m/s	0.320/0.440	0.290/0.440	0.290/0.400	0.270/0.400
5.03	Lowering speed (laden/unladen)		m/s			0.360/0.460	
5.04	Max.drawbar pull (laden/unladen)		N	13600/13000	14000/13300	13600/13000	14000/13300
5.05	Max.gradeability (laden/unladen)		%	17/26	15/25	15/25	15/25
5.06	Acceleration time(10 m)(laden/unladen)		s	5.9/5.0	6.1/5.0	6.0/5.3	6.2/5.3
Battery							
6.01	Battery,according to DIN					43531A	
6.02	Battery voltage/Capacity (K5)		V/Ah	48/600	48/600	48/500	48/500
6.03	Battery weight		kg	930	930	840	840
Motor and controller							
7.01	Driving motor powering (S2-60min)		kW			11	
7.02	Lifting motor powering (S3-15%)		kW			12	
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/Mechanical	
8.02	Operating pressure for attachments		Mpa			16	

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.