HELI

CPD15/18/20/25 /30/35/38

A3H4-M A5H4-S/M A5XH4-S



1.5-3.8 t

H4 Series Battery Powered
Counterbalance Forklift truck

ANHUI HELI CO., LTD.

FL(H4)001 EN
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* Our products are subject to improvements and changes without notice.

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

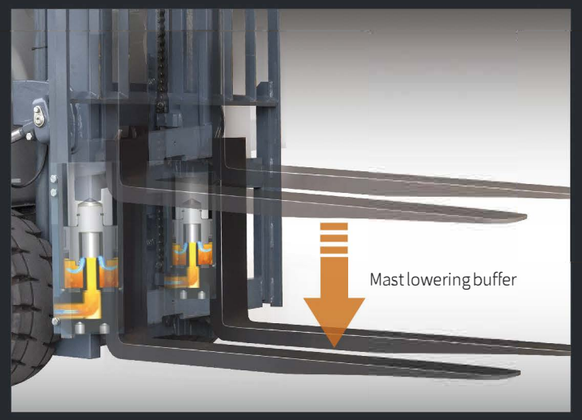
Reversing horn handle (s optional, M standard)

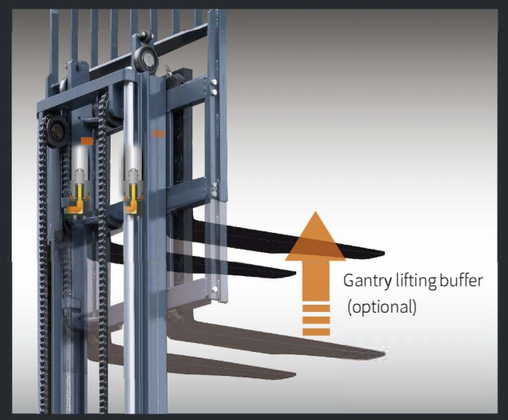


Semi enclosed shock-absorbing seat offers high comfort.



Electric special pattern tyre has low driving damping.





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



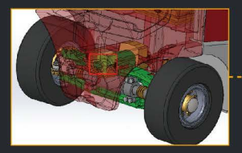
Mast:
Borrowing the main components of mature mast of internal combustion forklift truck

Sheet metal stamping side cover

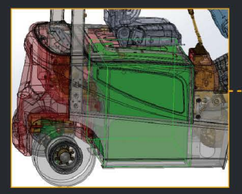
All metal anti-skid pedal



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



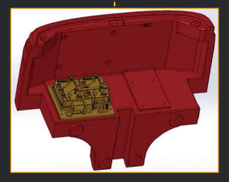
High rotation point steering axle



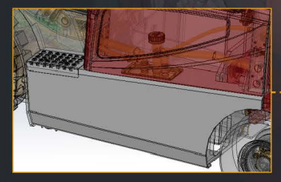
Middle and sink layout of the battery



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 ℃ 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.



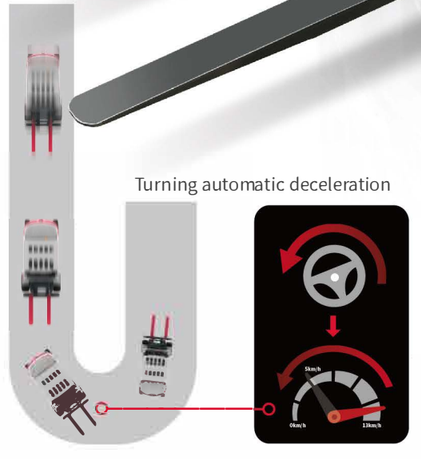
Reliability endurance test
800 hour strengthening of the whole truck (including climbing, rain, bumpy road, etc.).

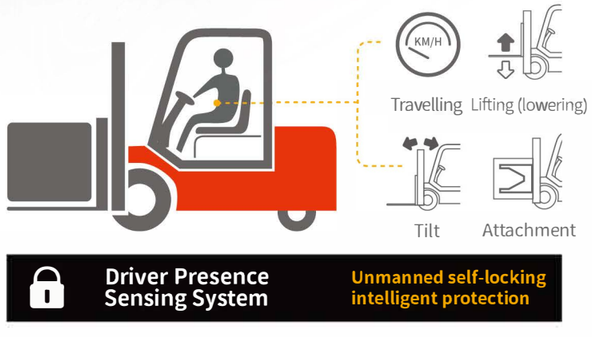
Intelligent security

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)







Driver Presence Sensing System — **Unmanned self-locking intelligent protection**

- 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

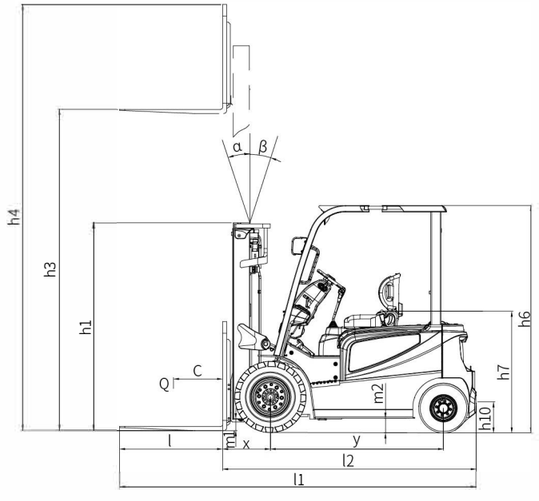


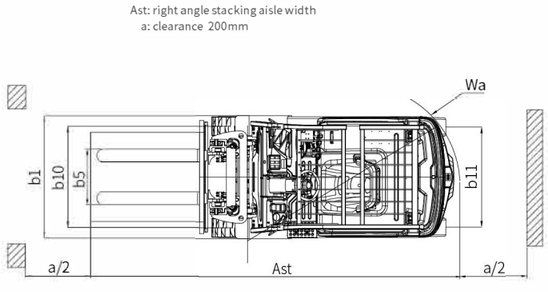
Convenient maintenance

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	CPD18	CPD20
1.03	Configuration number			A3H4-M/ A5H4-M	A3H4-M/ A5H4-M	A5H4-S	A5H4-S	A5XH4-S
1.04	Rated capacity	Q	kg	1500	1800	1500	1800	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	3100/2400	3300/2595
2.02	Axle load (laden,front/rear)		kg	3963/662	4431/544	3934/616	4402/498	4776/524
2.03	Axle load (unladen,front/rear)		kg	1547/1578	1540/1635	1518/1532	1511/1589	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	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	0.270/0.400	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	10200/9800	11000/10700
5.05	Max.gradeability (laden/unladen)		%	17/27	15/26	15/23	15/22	15/25
5.06	Acceleration time(10 m)(laden/unladen)		s	5.5/5.2	5.6/5.3	6.0/5.7	6.1/5.8	5.6/5.2
	Battery							
6.01	Battery,according to DIN			43536A				
6.02	Battery voltage/Capacity(K5)		V/Ah	48/480	48/480	48/400	48/400	48/420
6.03	Battery weight		kg	760	760	700	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				

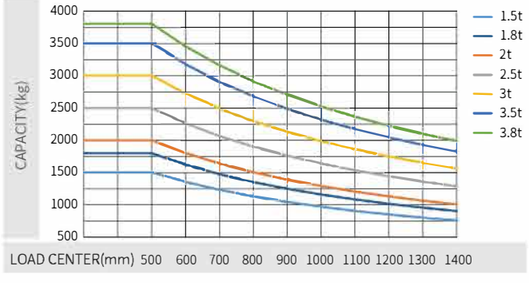




Manufacturer and Technical Data(Table 2)

	Characteristics						
1.01	Manufacturer			HELI			
1.02	Model			CPD20	CPD25	CPD20	CPD25
1.03	Configuration number			A3H4-M/ A5H4-M	A3H4-M/ A5H4-M	A5H4-S	A5H4-S
1.04	Rated capacity	Q	kg	2000	2500	2000	2500
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 forkarms, Max./Min.	b5	mm	1030/250			
4.15	Distance across forkarms, 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			43536A			
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

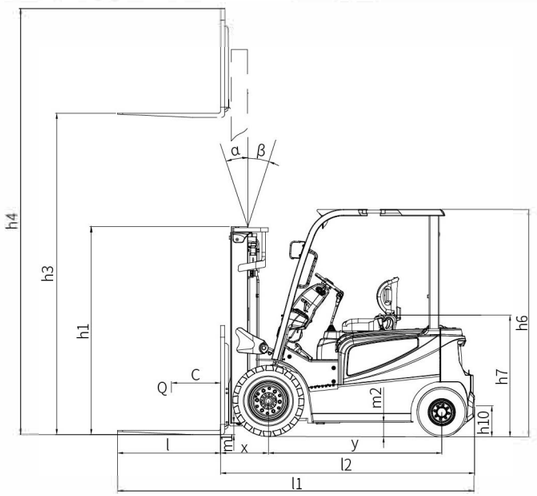


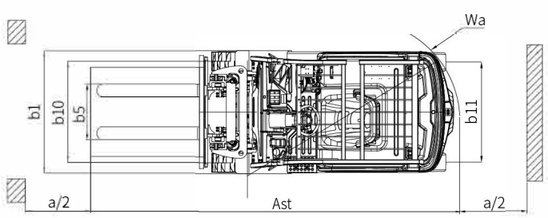
Note:

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.

Manufacturer and Technical Data(Table 3)

	Characteristics							
1.01	Manufacturer			HELI				
1.02	Model			CPD30	CPD35	CPD30	CPD35	CPD38
1.03	Configuration number			A3H4-M/ A5H4-M	A3H4-M/ A5H4-M	A5H4-S	A5H4-S	A5H4-S
1.04	Rated capacity	Q	kg	3000	3500	3000	3500	3800
1.05	Load center distance	c	mm	500				
1.06	Power mode			Battery				
1.07	Driving mode			Seated				
1.08	Front overhang	x	mm	477	482	477	482	482
1.09	Wheelbase	y	mm	1750				1780
	Weight							
2.01	Total weight (with/without battery)		kg	4995/3685	5310/4000	4900/3700	5110/3910	5610/4300
2.02	Axle load (laden,front/rear)		kg	7095/900	7915/895	7075/825	7860/750	8475/935
2.03	Axle load (unladen,front/rear)		kg	2455/2540	2465/2845	2390/2510	2385/2725	2565/3045
	Tyres							
3.01	Tyre type			Pneumatic tyre(front tyre)/Solid tyre(rear tyre)				
3.02	Tyre size,front			28×9-15-14PR				28×12.5-15-24PR
3.03	Tyre size,rear			18×7-8				200/50-10
3.04	Wheels,number front/rear (x=driven wheels)			2/2				
3.05	Tread, front	b10	mm	1000				1080
3.06	Tread, rear	b11	mm	970				970
	Dimensions							
4.01	Mast tilt angle (forward/backward)	α/β	°	6/10				
4.02	Height (mast lowered)	h1	mm	2070	2120	2070	2120	2180
4.03	Free lifting height	h2	mm	155				160
4.04	Lifting height (standard)	h3	mm	3000				
4.05	Max. height,extended (with backrest)	h4	mm	4217				
4.06	Height of overhead guard	h6	mm	2180				2185
4.07	Seat height relating to SIP (to ground)	h7	mm	1164				
4.08	Towing coupling height	h10	mm	310				
4.09	Overall length (with fork)	l1	mm	3637	3642	3637	3642	3682
4.10	Overall length (without fork)	l2	mm	2567	2572	2567	2572	2612
4.11	Overall width	b1	mm	1260				1392
4.12	Fork carriage,according to ISO2328	s/e/l	mm	3A				
4.13	Fork size:thickness x width x length			45×125×1070	50×125×1070	45×125×1070	50×125×1070	50×125×1070
4.14	Distance across forkarms, Max./Min.	b5	mm	1060/250				
4.15	Distance across forkarms, Max./Min.	m1	mm	110				125
4.16	Ground clearance (center of wheelbase)	m2	mm	135				140
4.17	Right angle stacking aisle width for pallet 1000 x1200mm (the side of 1200mm is placed across the forks.)	Ast	mm	3912	3917	3912	3917	3952
4.18	Right angle stacking aisle width for pallet 800 x1200mm (the side of 1200mm is placed along the forks.)	Ast	mm	4115	4117	4115	4117	4152
4.19	Min. outside turning radius	Wa	mm	2235	2235	2235	2235	2270
	Performance Data							
5.01	Travel speed (laden/unladen)		km/h	14.5/15	14.5/15	12/13	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	0.270/0.400	0.280/0.430
5.03	Lowering speed (laden/unladen)		m/s	0.400/0.400				
5.04	Max.drawbar pull (laden/unladen)		N	16300/15800	17000/16600	16300/16000	16900/15900	16800/16200
5.05	Max.gradeability (laden/unladen)		%	17/26	15/23	15/25	15/22	15/20
5.06	Acceleration time(10 m)(laden/unladen)		s	5.7/5.1	6.1/5.2	5.8/5.3	6.3/5.4	6.2/5.2
	Battery							
6.01	Battery,according to DIN			43536A				
6.02	Battery voltage/Capacity (K5)		V/Ah	80/480	80/480	80/400	80/400	80/480
6.03	Battery weight		kg	1310	1310	1200	1200	1310
	Motor and controller							
7.01	Driving motor powering (S2-60min)		kW	15				
7.02	Lifting motor powering (S3-15%)		kW	16				
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				





1.5t/1.8t/2t(E) Mast parameters

Mast type	Mast model	Max.lifting height (mm)	Load capacity (kg)			Height (mm)		Free lift height (with backrest) (mm)		Service weight (kg)					Mast tilt angle α/β (°)	
			1.5t	1.8t	2t(E)	1.5-1.8t	2t(E)	1.5-1.8t	2t(E)	1.5t-S	1.5t-M	1.8t-S	1.8t-M	2t(E)	1.5-1.8t	2t(E)
2-stage standard Mast	M200	2000	1500	1800	2000	1495	1495	155	155	2986	3061	3036	3111	3236	6/8	6/8
	M250	2500	1500	1800	2000	1745	1745	155	155	3018	3093	3068	3143	3268	6/8	6/8
	M300	3000	1500	1800	2000	1995	1995	155	155	3050	3125	3100	3175	3300	6/8	6/8
	M330	3300	1500	1800	2000	2145	2145	155	155	3069	3144	3119	3194	3319	6/8	6/8
	M350	3500	1500	1800	2000	2245	2245	155	155	3082	3157	3132	3207	3332	6/8	6/6
	M370	3700	1500	1800	2000	2345	2345	155	155	3095	3170	3145	3220	3345	6/6	6/6
	M400	4000	1500	1800	2000	2545	2545	155	155	3143	3218	3193	3268	3393	6/6	6/6
	M425	4250	1500	1800	1950	2670	2670	155	155	3160	3235	3210	3285	3410	6/6	6/6
	M450	4500	1450	1650 *1750	1750	2795	2795	155	155	3176	3251	3226	3301	3426	6/6 *6/8	6/6
	M500	5000	1200 *1300	1400 *1500	1500	3045	3045	155	155	3208	3283	3258	3333	3458	6/6 *6/6	6/6
	M550	5500	1000 *1250	1100 *1550	1300	3345	3345	155	155	3270	3345	3320	3395	3520	3/6 *3/6	3/6
	M600	6000	800 *1200	900 *1450	900	3595	3595	155	155	3302	3377	3352	3427	3552	3/6 *3/6	3/6
2-stage full free mast	ZM200	2000	1500	1800	2000	1495	1495	485	485	3035	3110	3085	3160	3285	6/8	6/8
	ZM250	2500	1500	1800	2000	1745	1745	735	735	3067	3142	3117	3192	3317	6/8	6/8
	ZM300	3000	1500	1800	2000	1995	1995	985	985	3101	3176	3151	3226	3351	6/8	6/8
	ZM330	3300	1500	1800	2000	2145	2145	1135	1135	3123	3198	3173	3248	3373	6/8	6/8
	ZM350	3500	1500	1800	2000	2245	2245	1235	1235	3138	3213	3188	3263	3388	6/8	6/8
	ZM370	3700	1500	1800	2000	2345	2345	1335	1335	3150	3225	3200	3275	3400	6/6	6/6
	ZM400	4000	1500	1800	2000	2545	2545	1535	1535	3198	3273	3248	3323	3448	6/6	6/6
	ZM425	4250	1500	1800	—	2670	—	1660	—	3217	3292	3267	3342	—	6/6	—
	ZM450	4500	1450	1650 *1750	—	2795	—	1785	—	3236	3311	3286	3361	—	6/6 *6/8	—
	ZM500	5000	1200 *1300	1400 *1500	—	3045	—	2035	—	3270	3345	3320	3395	—	6/6 *6/6	—
	ZM550	5500	1000 *1250	1100 *1550	—	3345	—	2335	—	3331	3406	3381	3456	—	3/6 *3/6	—
	ZM600	6000	800 *1200	900 *1450	—	3595	—	2585	—	3365	3440	3415	3490	—	3/6 *3/6	—
3-stage full free mast	ZSM360	3600	1500	1800	2000	1790	1790	785	785	3149	3224	3199	3274	3399	6/6	6/6
	ZSM400	4000	1500	1800	2000	1925	1925	920	920	3173	3248	3223	3298	3423	6/6	6/6
	ZSM435	4350	1450 *1500	1700 *1800	1850	2040	2040	1035	1035	3198	3273	3248	3323	3448	6/6 *6/6	6/6
	ZSM450	4500	1450 *1500	1650 *1750	1750	2090	2090	1085	1085	3209	3284	3259	3334	3459	6/6 *6/6	6/6
	ZSM470	4700	1400 *1450	1600 *1650	1650	2160	2160	1155	1155	3225	3300	3275	3350	3475	6/6 *6/6	6/6
	ZSM480	4800	1350 *1400	1550 *1650	1650	2190	2190	1185	1185	3232	3307	3282	3357	3482	6/6 *6/6	6/6
	ZSM500	5000	1200 *1300	1400 *1600	1500	2290	2290	1285	1285	3253	3328	3303	3378	3503	6/6 *6/6	6/6
	ZSM540	5400	1000 *1250	1100 *1550	1300	2415	2415	1410	1410	3279	3354	3329	3404	3529	3/6 *3/6	3/6
	ZSM600	6000	800 *1200	900 *1450	900	2640	2640	1635	1635	3351	3125	3401	3476	3601	3/6 *3/6	3/6
	ZSM650	6500	*1100	*1250	—	2840	—	1835	—	3389	3464	3439	3514	—	3/3 *3/3	—
	ZSM700	7000	*900	*950	—	3025	—	2025	—	3427	3502	3477	3552	—	3/3 *3/3	—

Note: *Indicates the rated load capacity of the front wheel with twin tyres; 2t (E) indicates that the truck type is CPD20-A5XH4-S; When the front wheels of 1.5-1.8t are twin tyres (pneumatic tyres) and twin tyres (solid tyres), the service weight is increased by 58kg and 104kg respectively according to the table data.
2-stage full free mast:1.5-2t(E):When there is no backrest, the free lifting height increases by 379mm.
3-stage full free mast:1.5-2t(E):When there is no backrest, the free lifting height increases by 484mm.

2t/2.5t Mast parameters

Mast type	Mast model	Max.lifting height (mm)	Load capacity (kg)		Height (mm)	Free lift height (with backrest) (mm)	Service weight (kg)				Mast tilt angle α/β (°)
			2t	2.5t	2-2.5t	2-2.5t	2.0t-S	2.0t-M	2.5t-S	2.5t-M	2-2.5t
2-stage standard Mast	M200	2000	2000	2500	1500	150	3860	3950	4020	4110	6/10
	M250	2500	2000	2500	1750	150	3908	3998	4068	4158	6/10
	M300	3000	2000	2500	2000	150	3940	4030	4100	4190	6/10
	M330	3300	2000	2500	2150	150	3980	4070	4140	4230	6/10
	M350	3500	2000	2500	2250	150	3999	4089	4159	4249	6/10
	M370	3700	2000	2500	2350	150	4015	4105	4175	4265	6/6
	M400	4000	2000	2500	2550	150	4087	4177	4247	4337	6/6
	M425	4250	1950 *2000	2450 *2500	2675	150	4111	4201	4271	4361	6/6 *6/10
	M450	4500	1900 *1950	2300 *2400	2800	150	4133	4223	4293	4383	6/6 *6/10
	M500	5000	1800 *1850	2100 *2200	3050	150	4177	4267	4337	4427	6/6 *6/6
	M550	5500	1450 *1700	1500 *2150	3350	150	4268	4358	4428	4518	3/6 *3/6
	M600	6000	1050 *1600	1150 *1800	3600	150	4313	4403	4473	4563	3/6 *3/6
2-stage full free mast	ZM200	2000	2000	2500	1500	496	4127	4217	4287	4377	6/10
	ZM250	2500	2000	2500	1750	746	4193	4283	4353	4443	6/10
	ZM300	3000	2000	2500	2000	996	4260	4350	4420	4510	6/10
	ZM330	3300	2000	2500	2150	1146	4300	4390	4460	4550	6/10
	ZM350	3500	2000	2500	2250	1246	4327	4417	4487	4577	6/10
	ZM370	3700	2000	2500	2350	1346	4353	4443	4513	4603	6/6
	ZM400	4000	2000	2500	2550	1546	4444	4534	4604	4694	6/6
	ZM425	4250	1950 *2000	2450 *2500	2675	1671	4477	4567	4637	4727	6/6 *6/10
	ZM450	4500	1900 *1950	2300 *2400	2800	1796	4510	4600	4670	4760	6/6 *6/10
	ZM500	5000	1800 *1850	2100 *2200	3050	2046	4577	4667	4737	4827	6/6 *6/6
	ZM550	5500	1450 *1700	1500 *2150	3350	2346	4694	4784	4854	4944	3/6 *3/6
	ZM600	6000	1050 *1600	1150 *1800	3600	2596	4761	4851	4921	5011	3/6 *3/6
3-stage full free mast	ZSM360	3600	2000	2500	1800	796	4345	4435	4505	4595	6/6
	ZSM400	4000	2000	2500	1950	946	4378	4468	4538	4628	6/6
	ZSM435	4350	1900 *2000	2400 *2500	2050	1046	4412	4502	4572	4662	6/6 *6/6
	ZSM450	4500	1850 *1900	2300 *2350	2100	1096	4425	4515	4585	4675	6/6 *6/6
	ZSM470	4700	1800 *1850	2200 *2250	2165	1161	4442	4532	4602	4692	6/6 *6/6
	ZSM480	4800	1800 *1850	2200 *2250	2210	1206	4452	4542	4612	4702	6/6 *6/6
	ZSM500	5000	1700 *1800	2100 *2200	2300	1296	4478	4568	4638	4728	6/6 *6/6
	ZSM540	5400	1450 *1700	1500 *2150	2400	1396	4512	4602	4672	4762	3/6 *3/6
	ZSM600	6000	1000 *1600	1100 *1800	2600	1596	4609	4699	4769	4859	3/6 *3/6
	ZSM650	6500	*1450	*1650	2800	1796	4660	4750	4820	4910	3/3 *3/3
	ZSM700	7000	*1150	*1300	2975	1971	4732	4822	4892	4982	3/3 *3/3

Note: *Indicates the rated load capacity of the front wheel with twin tyres; When the front wheels of 2-2.5t are twin tyres (pneumatic tyres) and twin tyres (solid tyres), the service weight is increased by 95kg and 155kg respectively according to the table data.
2-stage full free mast:2-2.5t:When there is no backrest, the free lifting height increases by 376mm.
3-stage full free mast:2-2.5t:When there is no backrest, the free lifting height increases by 356mm.

3t/3.5t/3.8t Mast parameters

Mast type	Mast model	Max.lifting height (mm)	Load capacity (kg)					Height (mm)			Free lift height (with backrest) (mm)			Service weight (kg)					Mast tilt angle α/β (°)
			3t-M	3t-S	3.5t-M	3.5t-S	3.8t	3t	3.5t	3.8t	3t	3.5t	3.8t	3.0t-S	3.0t-M	3.5t-S	3.5t-M	3.8t-S	3-3.8t
2-stage standard Mast	M200	2000	3000	3000	3500	3500	3800	1570	1620	1680	155	160	160	4899	4804	5204	5004	5504	6/10
	M250	2500	3000	3000	3500	3500	3800	1820	1870	1930	155	160	160	4947	4852	5257	5057	5557	6/10
	M300	3000	3000	3000	3500	3500	3800	2070	2120	2180	155	160	160	4995	4900	5310	5110	5610	6/10
	M330	3300	3000	3000	3500	3500	3800	2220	2270	2330	155	160	160	5024	4929	5342	5142	5642	6/10
	M350	3500	3000	3000	3500	3500	3800	2320	2370	2430	155	160	160	5043	4948	5363	5163	5663	6/10
	M370	3700	3000	3000	3500	3300	3800	2420	2470	2530	155	160	160	5062	4967	5384	5184	5684	6/6
	M400	4000	3000	2850	3500	3150	3700	2620	2670	2730	155	160	160	5142	5047	5468	5268	5768	6/6
	M425	4250	*2850 *2900	*2750 *2800	*3300 *3400	*3050 *3150	*3550 *3650	2745	2795	2855	155	160	160	5166	5071	5494	5294	5794	*6
	M450	4500	*2750 *2850	*2600 *2700	*3150 *3350	*2800 *3000	*3400 *3600	2870	2920	2980	155	160	160	5190	5095	5521	5321	5821	*6/6 *6/10
	M500	5000	*2400 *2800	*2200 *2350	*2850 *2900	*2450 *2500	*3000 *3200	3120	3170	3230	155	160	160	5238	5143	5574	5374	5874	*6/6 *6/6
	M550	5500	*2250 *2650	*1950 *2150	*2350 *2700	*2300 *2350	*2700 *3000	3420	3470	3530	155	160	160	5336	5241	5678	5478	5978	*3/6 *3/6
	M600	6000	*1500 *2200	*1300 *1900	*1650 *2400	*1450 *2100	*2200 *2600	3670	3720	3780	155	160	160	5384	5289	5731	5531	6031	*3/6 *3/6
2-stage full free mast	ZM200	2000	3000	3000	3500	3500	3800	1570	1620	1680	340	443	503	4927	4832	5228	5028	5528	6/10
	ZM250	2500	3000	3000	3500	3500	3800	1820	1870	1930	590	693	753	4977	4882	5281	5081	5581	6/10
	ZM300	3000	3000	3000	3500	3500	3800	2070	2120	2180	840	943	1003	5027	4932	5335	5135	5635	6/10
	ZM330	3300	3000	3000	3500	3500	3800	2220	2270	2330	990	1093	1153	5059	4964	5368	5168	5668	6/10
	ZM350	3500	3000	3000	3500	3500	3800	2320	2370	2430	1090	1193	1253	5079	4984	5389	5189	5689	6/10
	ZM370	3700	3000	3000	3500	3200	3800	2420	2470	2530	1190	1293	1353	5099	5004	5410	5210	5710	6/6
	ZM400	4000	3000	2850	3500	3200	3700	2620	2670	2730	1390	1493	1553	5177	5082	5490	5290	5790	6/6
	ZM425	4250	*2850 *2900	*2650 *2700	*3300 *3400	*3050 *3150	—	2745	2795	2855	1515	1618	—	5203	5108	5517	5317	—	6/6 *6/10
	ZM450	4500	*2750 *2850	*2500 *2600	*3150 *3350	*2850 *3050	—	2870	2920	2980	1640	1743	—	5231	5136	5546	5346	—	6/6 *6/10
	ZM500	5000	*2400 *2800	*2100 *2600	*2850 *2900	*2350 *2750	—	3120	3170	3230	1890	1993	—	5285	5190	5602	5402	—	*6/6 *6/6
	ZM550	5500	*2250 *2650	*1950 *2400	*2350 *2700	*2200 *2550	—	3420	3470	3530	2190	2293	—	5384	5289	5705	5505	—	*3/6 *3/6
	ZM600	6000	*1500 *2200	*1300 *2000	*1650 *2400	*1350 *2200	—	3670	3720	3780	2440	2543	—	5437	5342	5761	5561	—	*3/6 *3/6
3-stage full free mast	ZSM360	3600	3000	2850	3500	3250	3800	1870	1870	1930	640	640	693	5138	5043	5421	5221	5724	6/6
	ZSM400	4000	3000	2750	3500	3100	3700	2020	2020	2055	790	790	843	5179	5084	5462	5262	5765	6/6
	ZSM435	4350	*2850 *2900	*2550 *2600	*3200 *3450	*2950 *3100	*3500 *3600	2120	2120	2180	890	890	943	5208	5113	5491	5291	5794	*6/6 *6/6
	ZSM450	4500	*2700 *2850	*2450 *2600	*3250 *3200	*2850 *3000	*3400 *3600	2170	2170	2230	940	940	993	5223	5128	5506	5306	5809	*6/6 *6/6
	ZSM470	4700	*2650 *2800	*2400 *2550	*2900 *2950	*2650 *2700	*3100 *3200	2230	2230	2295	1000	1000	1053	5241	5146	5524	5324	5827	*6/6 *6/6
	ZSM480	4800	*2600 *2750	*2350 *2550	*2900 *2850	*2550 *2600	*3100 *3200	2270	2270	2330	1040	1040	1093	5251	5156	5534	5334	5837	*6/6 *6/6
	ZSM500	5000	*2450 *2750	*2100 *2550	*2800 *2900	*2350 *2450	*3000 *3150	2370	2370	2430	1140	1140	1193	5278	5183	5561	5361	5864	*6/6 *6/6
	ZSM540	5400	*2250 *2650	*1950 *2350	*2350 *2700	*2200 *2400	*2700 *3000	2470	2470	2555	1240	1240	1293	5308	5213	5591	5391	5894	*3/6 *3/6
	ZSM600	6000	*1400 *2200	*1250 *2200	*1650 *2400	*1300 *2400	*2200 *2600	2670	2670	2780	1440	1440	1493	5412	5317	5603	5403	5998	*3/6 *3/6
	ZSM650	6500	*1250 *2000	*950 *1900	*1500 *2200	*1000 *2200	—	2870	2870	—	1640	1640	—	5467	5372	5750	5550	—	*3/3 *3/3
	ZSM700	7000	*1800	*1800	*2000	*2000	—	3045	3045	—	1815	1815	—	5517	5422	5800	5600	—	*3/3 *3/3

Note: *Indicates the rated load capacity of the front wheel with twin tyres; When the front wheels of 3-3.5t are twin tyres (pneumatic tyres) and twin tyres (solid tyres), the service weight is increased by 140kg and 208kg respectively according to the table data; When the front wheels of 3.8t are twin tyres (pneumatic tyres) and twin tyres (solid tyres), the service weight is increased by 103kg and 251kg respectively according to the table data

2-stage full free mast：3t：When there is no backrest, the free lifting height increases by 477mm; 3.5t：When there is no backrest, the free lifting height increases by 407mm; 3.8t：When there is no backrest, the free lifting height increases by 407mm;

3-stage full free mast：3t：When there is no backrest, the free lifting height increases by 427mm; 3.5-3.8t：When there is no backrest, the free lifting height increases by 407mm.

Optional item

	Model	S	M
Basic items	Pneumatic tyre*	●	●
	Solid yre	○	○
	Single tyre (front wheel)	●	●
	Twin tyre (front wheel)**	○	○
	Two piece valve	●	●
	Three or four piece valve	○	○
	Basic type: 3M lifting height mast	●	●
	Other type and other height seriesmast***	○	○
	Standard series fork	●	●
	Non standard series forks and attachments	○	○
	Standard exterior color (blue grey + Heli red)	●	●
	Other exterior colors (customized)	○	○
Safety items	Turning speed limit	○	○
	Reversing armrest with horn switch	○	●
	Overspeed 5km / h alarm	○	○
	Overspeed 8km / h alarm	○	○
	Overspeed 10km / h alarm	○	○
	Travelling + lifting + tilting + equipped with OPS function (without lowering)	●	●
	Full set of OPS functions	○	○
	Seat belt switch	○	○
	Multi way valve overload	●	●
	Dry powder fire extinguisher (0.5kg)	○	○
	Dry powder fire extinguisher (2kg)	○	○
	Carbon dioxide fire extinguisher (2kg)	○	○
	Reversing buzzer	●	●
	Reversing Chinese speaker	○	○
	No universal key	●	●
	With universal key	○	○
	Electronic lifting upper buffer	○	○
	Central wide-angle rearview mirror	●	●
	Both side rear-view mirrors + center wide-angle rear-view mirror	○	○
	Reversing radar (4 probes)	○	○
	Reversing image (1 Camera + 4 radar probes)	○	○
Comfort items	Semi enclosed seat	●	●
	Fully suspended seat	○	○
	Instrument panel with 1 USB interface (5V / 1A)	○	●
	Steering wheel starts steering	○	○
	Synchronous steering	○	○
	Steering wheel with handle ball	●	●
	Steering wheel without handle ball	○	○
	electric fan	○	○
Cab / Windshield / Air conditioner / Heater	panel mounted cab (including fan + wiper)	○	○
	Heater	○	○
	Single cooling air conditioner	○	○
	Single cooling air conditioner + heater	○	○
	Front windshield (including wiper)	○	○
	Rear windshield	○	○
	Top windshield (excluding fan)	○	○
Non standard overhead guard	50mm increased of overhead guard height	○	○
	Overhead guard (with protective net)	○	○
Lights	LED rear work light (1)	○	○
	Rear LED red / Blue spotlight (1)	○	○
	Rear and lateral red / blue bar lights	○	○
	Fixed LED flashing warning light	○	●
	Fixed LED rotary warning lamp	○	○
	Fixed LED rotary buzzer warning light	○	○
Others	Metric thread	●	●
	Tilt cylinder jacket	○	○
	Steering cylinder jacket	○	○
	REMA power connector	●	●
	Domestic battery	●	●
	GS battery	○	○
	HOPPECKE battery	○	○
	FAAM battery	○	○
	(battery) with automatic water replenishment	○	○
	FICS standard type (for China)	○	○

Note:
"●"Standard ; "○"Optional ;
Some non-standard options need to be customized. Please consult local sales personnel or product development technicians before purchasing.
*3-3.8t rear wheel is equipped with solid tyre as standard.
**The small 2t truck is not equipped with twin tyres.
***There are restrictions on the type and height of small 2t and 3.8t mast. See the table of mast parameters for details.

Forklift

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Каталог HELI H4 1,5-3,8 т: свинцово-кислотные исполнения

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