

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

A2H4-M A3H4-M A3PH4-M
A5H4-M/S A5PH4-M/S A5XH4-S



HELI

H4 SERIES



1.5-3.8 t

H4 Series Battery Powered
Counterbalance Forklift truck



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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
E — Economics
S — Energy saving

Multi gear performance mode can be freely selected according to actual working conditions.

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

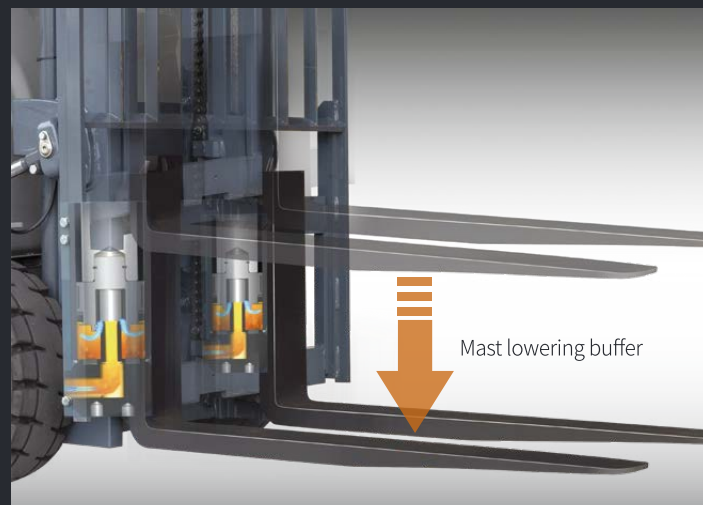
Reversing horn handle (s optional, M standard)



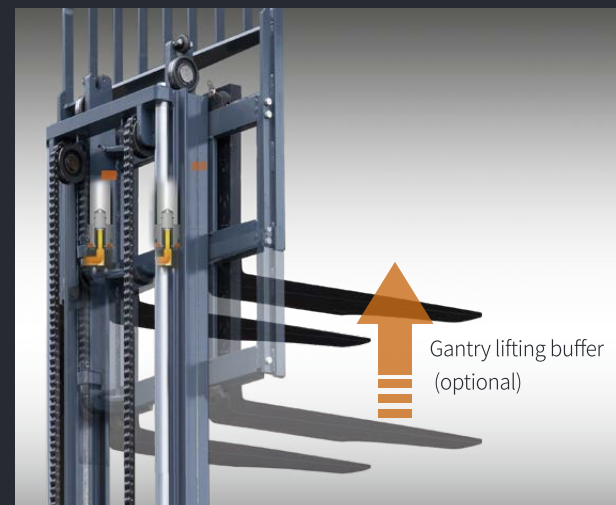
Semi enclosed shock-absorbing seat offers high comfort.



Electric special pattern tyre has low driving resistance.



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 / Friendly interface 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:

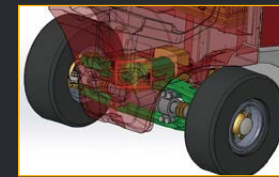
Borrowing the main components of mature mast of internal combustion forklift truck

Sheet metal stamping side cover

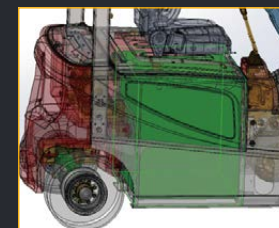
All metal anti-skid pedal



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



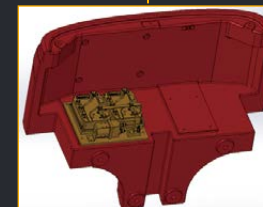
High rotation point steering axle



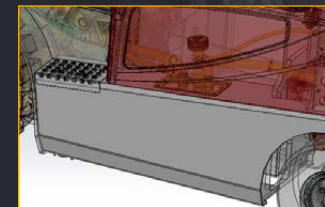
Middle and sink layout of the battery



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.



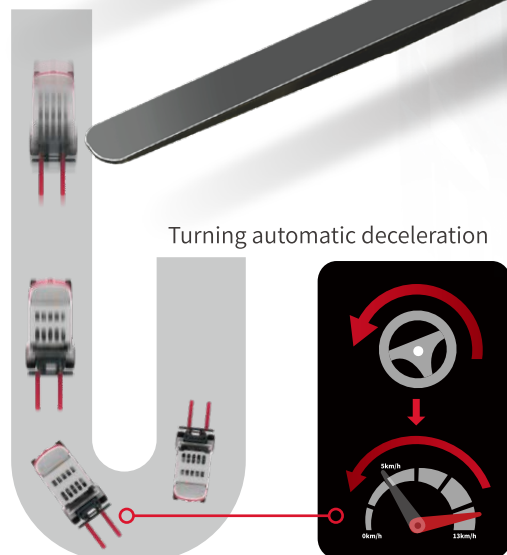
Reliability endurance test

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.
- Battery side pulling model can be chosen for more efficient replacement and maintenance.

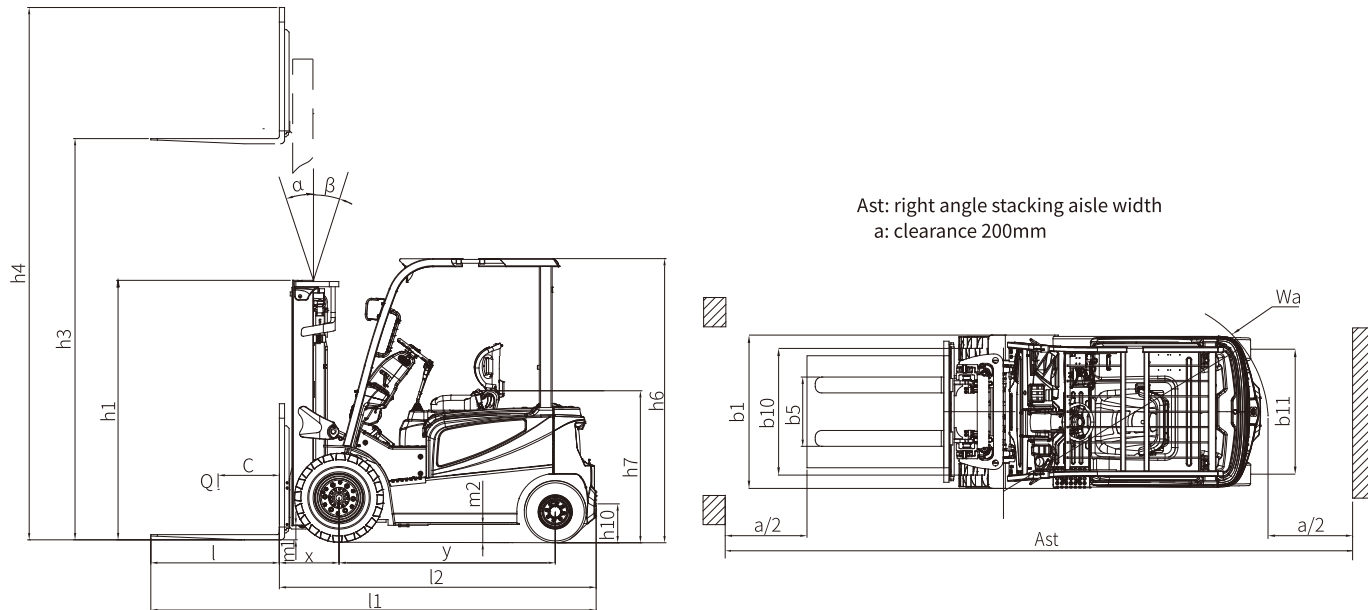


Convenient maintenance

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

Manufacturer and Technical Data(Table 1)

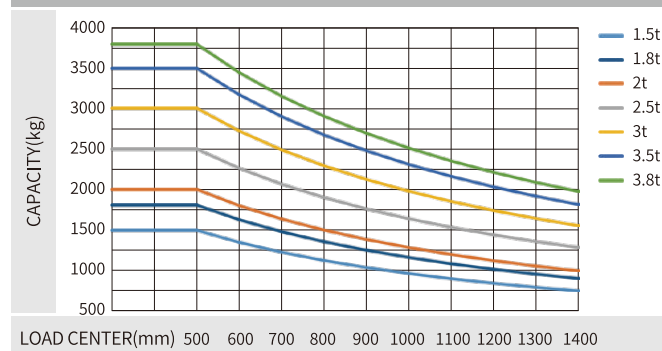
Characteristics			
1.01	Manufacturer		
1.02	Model		
1.03	Configuration number		
1.04	Rated capacity	Q	kg
1.05	Load center distance	c	mm
1.06	Power mode		
1.07	Driving mode		
1.08	Front overhang	x	mm
1.09	Wheelbase	y	mm
	Weight		
2.01	Total weight (with/without battery)		
2.02	Axle load (laden,front/rear)		
2.03	Axle load (unladen,front/rear)		
	Tyres		
3.01	Tyre type		
3.02	Tyre size,front		
3.03	Tyre size,rear		
3.04	Wheels,number front/rear (x=driven wheels)		
3.05	Tread, front	b10	mm
3.06	Tread, rear	b11	mm
	Dimensions		
4.01	Mast tilt angle (forward/backward)	α/β	°
4.02	Height (mast lowered)	h1	mm
4.03	Free lifting height	h2	mm
4.04	Lifting height (standard)	h3	mm
4.05	Max. height,extended (with backrest)	h4	mm
4.06	Height of overhead guard	h6	mm
4.07	Seat height relating to SIP (to ground)	h7	mm
4.08	Towing coupling height	h10	mm
4.09	Overall length (with fork)	l1	mm
4.10	Overall length (without fork)	l2	mm
4.11	Overall width	b1	mm
4.12	Fork carriage,according to ISO2328		
4.13	Fork size:thickness x width x length	s/e/l	mm
4.14	Fork ajustable range(external at the fork),Max./Min.	b5	mm
4.15	Ground clearance (at mast)	m1	mm
4.16	Ground clearance (center of wheelbase)	m2	mm
4.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm
4.18	Right angle stacking aisle width for pallet 800x1200mm lengthways	Ast	mm
4.19	Min. outside turning radius	Wa	mm
	Performance Data		
5.01	Travel speed (laden/unladen)		km/h
5.02	Lift speed (laden/unladen)		m/s
5.03	Lowering speed (laden/unladen)		m/s
5.04	Max.drawbar pull (laden/unladen)		N
5.05	Max.gradeability (laden/unladen)		%
5.06	Acceleration time(10 m)(laden/unladen)		s
	Battery		
6.01	Battery,according to DIN		
6.02	Battery voltage/Capacity (K5)		V/Ah
6.03	Battery weight		kg
	Motor and controller		
7.01	Driving motor powering (S2-60min)		kW
7.02	Lifting motor powering (S3-15%)		kW
7.03	Driving motor controlling mode		
7.04	Lifting motor controlling mode		
	Addition data		
8.01	Service brake/Parking brake		
8.02	Operating pressure for attachments		Mpa



Manufacturer and Technical Data(Table 2)

Characteristics				HELI					
1.01	Manufacturer			CPD20	CPD25	CPD20	CPD25	CPD20	CPD25
1.02	Model			CPD20	CPD25	CPD20	CPD25	CPD20	CPD25
1.03	Configuration number			A2H4-M / A3H4-M* / A5H4-M	A3PH4-M / A5PH4-M	A3PH4-M / A5PH4-M	A5H4-S	A5H4-S	A5H4-S
1.04	Rated capacity	Q	kg	2000	2500	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	4000/3070	4160/3230	4095/3165	4255/3325	3910/3070	4070/3230
2.02	Axle load (laden,front/rear)		kg	5270/730	5980/680	5330/765	6040/715	5190/720	5900/670
2.03	Axle load (unladen,front/rear)		kg	2035/1965	2025/2135	2095/2000	2085/2170	2005/1905	1985/2085
	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			4020			
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	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					2A			
4.13	Fork size:thickness x width x length	s/e/l	mm	40×122×920	40×122×1070	40×122×920	40×122×1070	40×122×920	40×122×1070
4.14	Fork adjustable range(external at the fork),Max./Min.	b5	mm			1030/250			
4.15	Ground clearance (at mast)	m1	mm			100			
4.16	Ground clearance (center of wheelbase)	m2	mm			125			
4.17	Right angle stacking aisle width for pallet 1000x1200mm crossways	Ast	mm			3753			
4.18	Right angle stacking aisle width for pallet 800x1200mm lengthways	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	
5.02	Lift speed (laden/unladen)		m/s	0.320/0.440	0.290/0.440	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	13600/13000	14000/13300
5.05	Max.gradeability (laden/unladen)		%	17/26	15/25	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	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	
6.03	Battery weight		kg	930		930		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

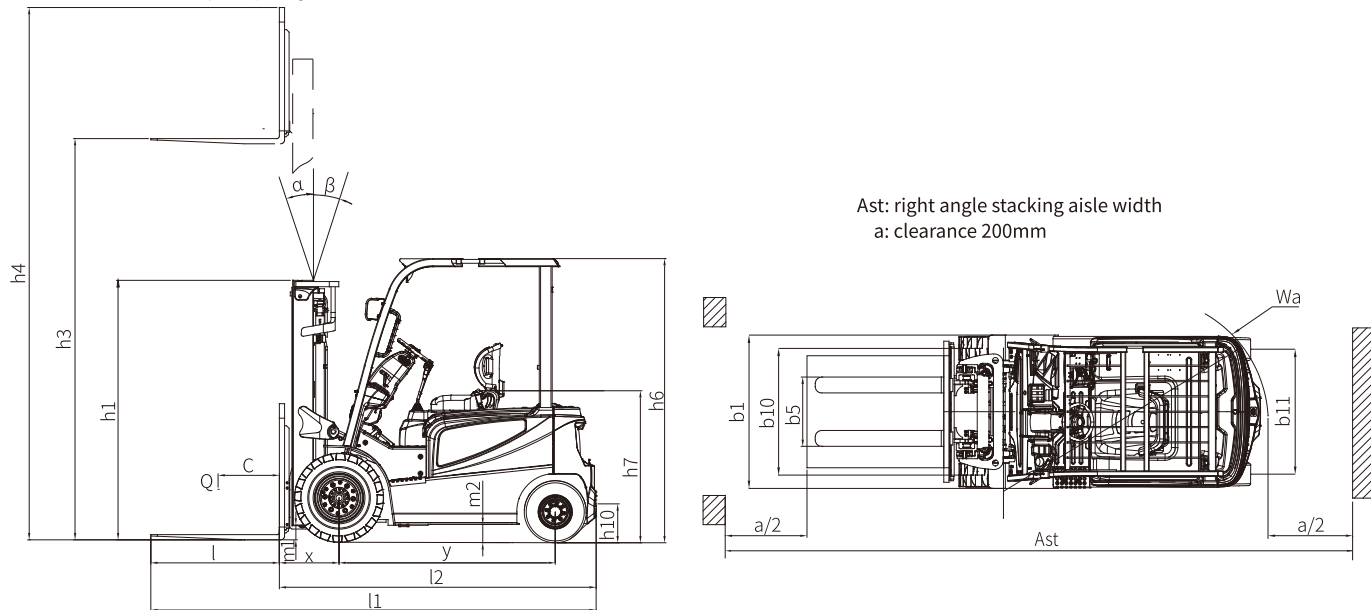
**Note:**

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									
1.02	Model			CPD30	CPD35	CPD30	CPD35	CPD30	CPD35	CPD38
1.03	Configuration number			A2H4-M / A3H4-M* / A5H4-M	A3PH4-M / A5PH4-M		A5H4-S		A5H4-S	A5PH4-S
1.04	Rated capacity	Q	kg	3000	3500	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	477	482	482
1.09	Wheelbase	y	mm				1750			1780
	Weight									
2.01	Total weight (with/without battery)		kg	5090/3720	5300/3930	5205/3835	5415/4045	4900/3700	5110/3910	5610/4300
2.02	Axle load (laden,front/rear)		kg	7160/930	7905/895	7215/990	7960/955	7075/825	7860/750	8475/935
2.03	Axle load (unladen,front/rear)		kg	2530/2560	2455/2845	2585/2620	2510/2905	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	3637	3642	3682
4.10	Overall length (without fork)	l2	mm	2567	2572	2567	2572	2567	2572	2612
4.11	Overall width	b1	mm			1260				1392
4.12	Fork carriage,according to ISO2328						3A			
4.13	Fork size:thickness x width x length	s/e/l	mm	45×125×1070	50×125×1070	45×125×1070	50×125×1070	45×125×1070	50×125×1070	50×125×1070
4.14	Fork adjustable range(external at the fork),Max./Min.	b5	mm				1060/250			
4.15	Ground clearance (at mast)	m1	mm			110				125
4.16	Ground clearance (center of wheelbase)	m2	mm			135				140
4.17	Right angle stacking aisle width for pallet 1000x1200mm crossways	Ast	mm	3912	3917	3912	3917	3912	3917	3952
4.18	Right angle stacking aisle width for pallet 800x1200mm lengthways	Ast	mm	4115	4117	4115	4117	4115	4117	4152
4.19	Min. outside turning radius	Wa	mm			2235				2270
	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	0.320/0.440	0.290/0.440	0.290/0.400	0.270/0.400	0.280/0.430
5.03	Lowering speed (laden/unladen)		m/s				0.400/0.440			
5.04	Max.drawbar pull (laden/unladen)		N	16300/15800	17000/16600	16300/15800	17000/16600	16300/16000	16900/15900	16800/16200
5.05	Max.gradeability (laden/unladen)		%	17/26	15/23	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	5.7/5.1	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	80/480
6.03	Battery weight		kg		1370		1370		1200	1370
	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			

Note: P refers to the battery side pulling.



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

Mast type	Mast model	Max.lifting height (mm)	Load capacity@500mm(kg)			Mast overall 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	2795	2795	155	155	3176	3251	3226	3301	3426	6/6	6/6
	M500	5000	1200	1400	1500	3045	3045	155	155	3208	3283	3258	3333	3458	6/6	6/6
2-stage full free mast	M550	5500	1000	1100	1300	3345	3345	155	155	3270	3345	3320	3395	3520	3/6	3/6
	M600	6000	800	900	900	3595	3595	155	155	3302	3377	3352	3427	3552	3/6	3/6
	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	—
3 stage full free mast	ZM450	4500	1450	1650	—	2795	—	1785	—	3236	3311	3286	3361	—	6/6	—
	ZM500	5000	1200	1600	—	3045	—	2035	—	3270	3345	3320	3395	—	6/6	—
	ZM550	5500	1000	1100	—	3345	—	2335	—	3331	3406	3381	3456	—	3/6	—
	ZM600	6000	800	900	—	3595	—	2585	—	3365	3440	3415	3490	—	3/6	—
	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	1700	1850	2040	2040	1035	1035	3198	3273	3248	3323	3448	6/6	6/6
	ZSM450	4500	1450	1650	1750	2090	2090	1085	1085	3209	3284	3259	3334	3459	6/6	6/6
	ZSM470	4700	1450	1600	1650	2160	2160	1155	1155	3225	3300	3275	3350	3475	6/6	6/6
	ZSM480	4800	1350	1550	1650	2190	2190	1185	1185	3232	3307	3282	3357	3482	6/6	6/6
3 stage full free mast	ZSM500	5000	1200	1400	1500	2290	2290	1285	1285	3253	3328	3303	3378	3503	6/6	6/6
	ZSM540	5400	1000	1100	1300	2415	2415	1410	1410	3279	3354	3329	3404	3529	3/6	3/6
	ZSM600	6000	800	900	900	2640	2640	1635	1635	3351	3426	3401	3476	3601	3/6	3/6
	ZSM650	6500	*1100	*1250	—	2840	—	1835	—	3389	3464	3439	3514	—	3/3	—
	ZSM700	7000	*900	*950	—	3025	—	2025	—	3427	3502	3477	3552	—	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@500mm(kg)		Mast overall height (mm)	Free lift height (with backrest) (mm)	Service weight (kg)						Mast tilt angle α/β (°)
			2t	2.5t			2.0t-S	2.0t-M	2t-M(P)	2.5t-S	2.5t-M	2.5t-M(P)	
2-stage standard Mast	M200	2000	2000	2500	1500	150	3820	3910	4005	3980	4070	4165	6/10
	M250	2500	2000	2500	1750	150	3865	3955	4050	4025	4115	4210	6/10
	M300	3000	2000	2500	2000	150	3910	4000	4095	4070	4160	4255	6/10
	M330	3300	2000	2500	2150	150	3937	4027	4122	4097	4187	4282	6/10
	M350	3500	2000	2500	2250	150	3955	4045	4140	4115	4205	4300	6/10
	M370	3700	2000	2500	2350	150	3973	4063	4158	4133	4223	4318	6/6
	M400	4000	2000	2500	2550	150	4050	4140	4235	4210	4300	4395	6/6
	M425	4250	1950 *2000	2450 *2500	2675	150	4073	4163	4258	4233	4323	4418	6/6 *6/10
	M450	4500	1900 *1950	2400 *2400	2800	150	4095	4185	4280	4255	4345	4440	6/6 *6/10
	M500	5000	1800 *1850	2300 *2300	3050	150	4140	4230	4325	4300	4390	4485	6/6 *6/10
2-stage full free mast	M550	5500	1450 *1700	1600 *2150	3350	150	4235	4325	4420	4395	4485	4580	6/6 *3/6
	M600	6000	1050 *1600	1150 *1800	3600	150	4280	4370	4465	4440	4530	4625	3/6 *3/6
	ZM200	2000	2000	2500	1500	496	3848	3938	4033	4008	4098	4193	6/10
	ZM250	2500	2000	2500	1750	746	3896	3986	4081	4056	4146	4241	6/10
	ZM300	3000	2000	2500	2000	996	3951	4041	4136	4111	4201	4296	6/10
	ZM330	3300	2000	2500	2150	1146	3981	4071	4166	4141	4231	4326	6/10
	ZM350	3500	2000	2500	2250	1246	3999	4089	4184	4159	4249	4344	6/10
	ZM370	3700	2000	2500	2350	1346	4019	4109	4204	4179	4269	4364	6/6
	ZM400	4000	2000	2500	2550	1546	4095	4185	4280	4255	4345	4440	6/6
	ZM425	4250	1950 *2000	2450 *2500	2675	1671	4119	4209	4304	4279	4369	4464	6/6 *6/10
3-stage full free mast	ZM450	4500	1900 *1950	2400 *2400	2800	1796	4145	4235	4330	4305	4395	4490	6/6 *6/10
	ZM500	5000	1800 *1850	2300 *2300	3050	2046	4196	4286	4381	4356	4446	4541	6/6 *3/6
	ZM550	5500	1450 *1700	1600 *2150	3350	2346	4293	4383	4478	4453	4543	4638	3/6 *3/6
	ZM600	6000	1050 *1600	1150 *1800	3600	2596	4343	4433	4528	4503	4593	4688	3/6 *3/6
	ZSM360	3600	2000	2500	1800	796	4075	4165	4260	4235	4325	4420	6/6
	ZSM400	4000	2000	2500	1950	946	4116	4206	4301	4276	4366	4461	6/6
	ZSM435	4350	1900 *2000	2400 *2500	2050	1046	4142	4232	4327	4302	4392	4487	6/6 *6/6
	ZSM450	4500	1850 *1900	2350 *2400	2100	1096	4155	4245	4340	4315	4405	4500	6/6 *6/6
	ZSM470	4700	1800 *1850	2300 *2300	2165	1161	4174	4264	4359	4334	4424	4519	6/6 *6/6
	ZSM480	4800	1800 *1850	2300 *2350	2210	1206	4187	4277	4372	4347	4437	4532	6/6 *6/6
ZSM500	5000	1700 *1800	2100 *2200	2300	1296	4210	4300	4395	4370	4460	4555	6/6 *3/6	
ZSM540	5400	1450 *1700	1600 *2150	2400	1396	4342	4432	4527	4502	4592	4687	3/6 *3/6	
ZSM600	6000	1000 *1600	1100 *1800	2600	1596	4345	4435	4530	4505	4595	4690	3/6 *3/6	
ZSM650	6500	*1450	*1650	2800	1796	4401	4491	4586	4561	4651	4746	3/3 *3/3	
ZSM700	7000	*1150	*1300	2975	1971	4451	4541	4636	4611	4701	4796	3/3 *3/3	

3t/3.5t/3.8t Mast parameters																						
Mast type	Mast model	Max.lifting height (mm)	Load capacity@500mm(kg)					Mast overall 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	3t-M(P)	3.5t-S	3.5t-M	3.5t-M(P)	3.8t-S	3.8t-S(P)	
2-stage standard Mast	M200	2000	3000	3000	3500	3500	3800	1570	1620	1680	155	160	160	4804	4994	5109	5004	5194	5309	5504	5619	6/10
	M250	2500	3000	3000	3500	3500	3800	1820	1870	1930	155	160	160	4852	5042	5157	5057	5247	5362	5557	5672	6/10
	M300	3000	3000	3000	3500	3500	3800	2070	2120	2180	155	160	160	4900	5090	5205	5110	5300	5415	5610	5725	6/10
	M330	3300	3000	3000	3500	3500	3800	2220	2270	2330	155	160	160	4929	5119	5234	5142	5332	5447	5642	5757	6/10
	M350	3500	3000	3000	3500	3500	3800	2320	2370	2430	155	160	160	4948	5138	5253	5163	5353	5468	5663	5778	6/10
	M370	3700	3000	3000	3500	3300	3800	2420	2470	2530	155	160	160	4967	5157	5272	5184	5374	5489	5684	5799	6/6
	M400	4000	3000	2850	3500	3150	3700	2620	2670	2730	155	160	160	5047	5237	5352	5268	5458	5573	5768	5883	6/6
	M425	4250	2850 *2900	2750 *2800	3300 *3400	3050 *3150	3550 *3650	2745	2795	2855	155	160	160	5071	5261	5376	5294	5484	5599	5794	5909	6/6 *6/10
	M450	4500	2850 *2900	2700 *2750	3350 *3400	3000 *3050	3500 *3600	2870	2920	2980	155	160	160	5095	5285	5400	5321	5511	5626	5821	5936	6/6 *6/10
	M500	5000	2400 *2800	2200 *2600	2850 *2900	2450 *2500	3000 *3200	3120	3170	3230	155	160	160	5143	5333	5448	5374	5564	5679	5874	5989	6/6 *3/6
M550	5500	2250 *2650	1950 *2150	2350 *2700	2300 *2350	2700 *3000	3420	3470	3530	155	160	160	5241	5431	5546	5478	5668	5783	5978	6093	3/6 *3/6	
M600	6000	1500 *2200	1300 *1900	1650 *2400	1450 *2100	2200 *2600	3670	3720	3780	155	160	160	5289	5479	5594	5531	5721	5836	6031	6146	3/6 *3/6	
2-stage full free mast	ZM200	2000	3000	3000	3500	3500	3800	1570	1620	1680	340	443	503	4832	5022	5137	5028	5218	5333	5528	5643	6/10
	ZM250	2500	3000	3000	3500	3500	3800	1820	1870	1930	590	693	753	4882	5072	5187	5081	5271	5386	5581	5696	6/10
	ZM300	3000	3000	3000	3500	3500	3800	2070	2120	2180	840	943	1003	4932	5122	5237	5135	5325	5440	5635	5750	6/10
	ZM330	3300	3000	3000	3500	3500	3800	2220	2270	2330	990	1093	1153	4964	5154	5269	5168	5358	5473	5668	5783	6/10
	ZM350	3500	3000	3000	3500	3500	3800	2320	2370	2430	1090	1193	1253	4984	5174	5289	5189	5379	5494	5689	5804	6/10
	ZM370	3700	3000	3000	3500	3200	3800	2420	2470	2530	1190	1293	1353	5004	5194	5309	5210	5400	5515	5710	5825	6/6
	ZM400	4000	3000	2850	3500	3200	3700	2620	2670	2730	1390	1493	1553	5082	5272	5387	5290	5480	5595	5790	5905	6/6
	ZM425	4250	2850 *2900	2650 *2700	3300 *3400	3050 *3150	—	2745	2795	2855	1515	1618	—	5108	5298	5413	5317	5507	5622	—	—	6/6 *6/10
	ZM450	4500	2750 *2850	2500 *2600	3150 *3350	2850 *3050	—	2870	2920	2980	1640	1743	—	5136	5326	5441	5346	5536	5651	—	—	6/6 *6/10
	ZM500	5000	2400 *2800	2100 *2600	2850 *2900	2350 *2750	—	3120	3170	3230	1890	1993	—	5190	5380	5495	5402	5592	5707	—	—	6/6 *3/6
3-stage full free mast	ZM550	5500	2250 *2650	2400 *2100	2700 *2350	2550 *2200	—	3420	3470	3530	2190	2293	—	5289	5479	5594	5505	5695	5810	—	—	3/6 *3/6
	ZM600	6000	1500 *2200	1300 *2000	1650 *2400	1450 *2200	—	3670	3720	3780	2440	2543	—	5342	5532	5647	5561	5751	5866	—	—	3/6 *3/6
	ZSM360	3600	3000	2850	3500	3250	3800	1870	1870	1930	640	640	693	5043	5233	5348	5221	5411	5526	5724	5839	6/6
	ZSM400	4000	3000	2750	3500	3100	3700	2020	2020	2055	790	790	843	5084	5274	5389	5262	5452	5567	5765	5880	6/6
	ZSM435	4350	2850 *2900	2550 *2600	3200 *3350	2950 *3100	3500 *3600	2120	2120	2180	890	890	943	5113	5303	5418	5291	5481	5596	5794	5909	6/6 *6/6
	ZSM450	4500	2700 *2850	2450 *2600	3050 *3200	2850 *3000	3400 *3600	2170	2170	2230	940	940	993	5128	5318	5433	5306	5496	5611	5809	5924	6/6 *6/6
	ZSM470	4700	2650 *2800	2400 *2550	2900 *2950	2650 *2700	3100 *3200	2230	2230	2295	1000	1000	1053	5146	5336	5451	5324	5514	5629	5827	5942	6/6 *6/6
	ZSM480	4800	2600 *2750	2350 *2550	2900 *2950	2650 *2600	3100 *3200	2270	2270	2330	1040	1040	1093	5156	5346	5461	5334	5524	5639	5837	5952	6/6 *6/6
	ZSM500	5000	2450 *2750	2100 *2550	2800 *2900	2350 *2450	3000 *3150	2370	2370	2430	1140	1140	1193	5183	5373	5488	5361	5551	5666	5864	5979	6/6 *6/6
	ZSM540	5400	2250 *2650	1950 *2350	2350 *2700	2200 *2400	2700 *3000	2470	2470	2555	1240	1240	1293	5213	5403	5518	5391	5581	5696	5894	6009	3/6 *3/6
ZSM600	6000	1400 *2200	1250 *2000	1650 *2400	1300 *2200	2200 *2600	2670	2670	2780	1440	1440	1493	5317	5507	5622	5403	5593	5708	5998	6113	3/6 *3/6	
ZSM650	6500	1200 *2000	950 *1900	1300 *2200	1000 *2200	—	2870	2870	—	1640	1640	—	5372	5562	5677	5550	5740	5855	—	—	3/3 *3/3	
ZSM700	7000	*1800	*1800	*2000	*2000	—	3045	3045	—	1815	1815	—	5422	5612	5727	5600	5790	5905	—	—	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-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 + attachment 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)	○	○
Comfort items	Reversing image (1 Camera + 4 radar probes)	○	○
	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	○	○
Cab / Windshield / Air conditioner / Heater	electric fan	○	○
	panel mounted cab (including fan + wiper)	○	○
	Heater	○	○
	Single cooling air conditioner	○	○
	Single cooling air conditioner + heater	○	○
	Front windshield (including wiper)	○	○
	Rear windshield	○	○
Non standard overhead guard	Top windshield (excluding fan)	○	○
	50mm increased of overhead guard height	○	○
Lights	Overhead guard (with protective net)	○	○
	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	○	○
	HELI FICS system	○	○

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.