

LITON 1.5-3.8 t

**H4 series Lithium-ion Battery
Forklift Truck**



MITRA TEKNINDO SEJATI

JAKARTA

Galeri Niaga Mediterania 1
Jl. Pantai Indah Utara II Blok. X3 No. G8A-8B
Pantai Indah Kapuk - Jakarta Utara
Telp : 021 52393819

TANGERANG

Kaawasan Industri Milenium Blok P2 No.3
Jl. Pemda Tigaraksa, Sukamulya,
Cikupa, Tangerang - Banten
Telp : 021 59645008

BANTAENG

Jl. Dusun Mawang, Desa Papanloe,
Pajukukang, Bantaeng Regency, Sulawesi
Selatan

SURABAYA

Jl. Raya Gilang 8, Gilang, Kec. Taman,
Sidoarjo - Jawa Timur.
Telp : 031 99794078

MAKASSAR

Jl. Perintis Kemerdekaan KM 16 Ruko
Insignia Residence Makassar - Sulawesi
Selatan 90243

SAMARINDA

Jl. Ampera Pergudangan Mangkupalas
Bisnis Center Blok D20 Simpang Pasir
Palaran, Samarinda - Kalimantan Timur

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:

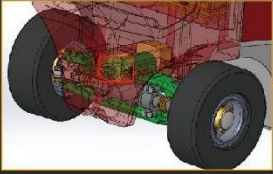
Borrowing the main components of mature mast of internal combustion forklift truck

Sheet metal stamping side cover

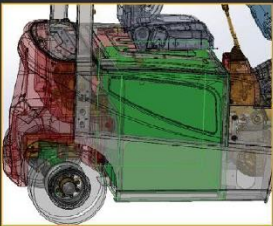
All metal anti-skid pedal



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

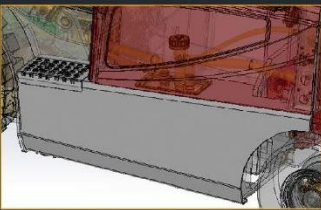


High rotation point steering axle



Middle and sink layout of the battery

Good heat dissipation



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.

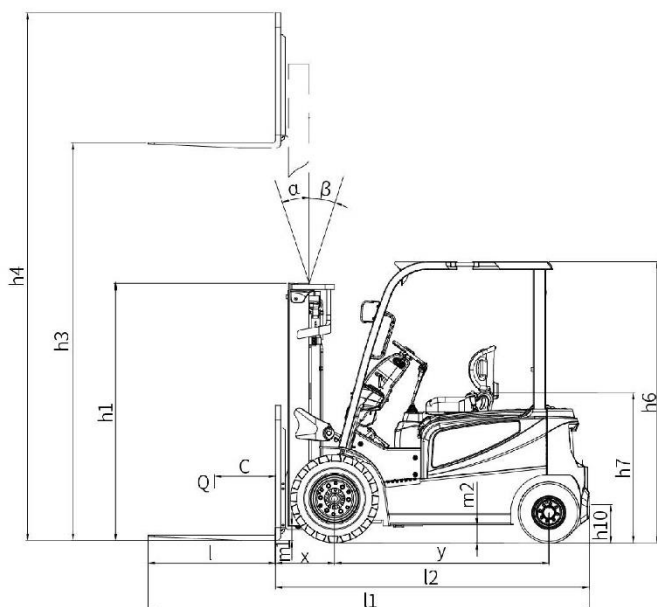


Reliability endurance test

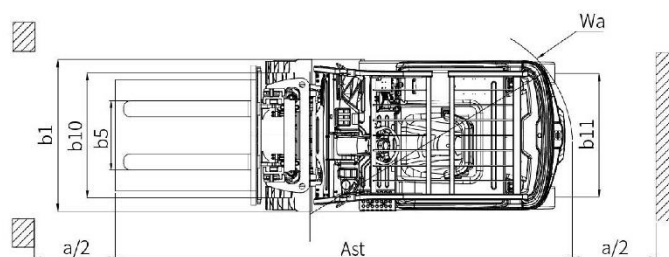
800 hour strengthening of the whole truck (including climbing, rain, bumpy road, etc.).

Manufacturer and Technical Data(Tabulation 1)

Characteristics				ANHUI HELI CO., LTD.				
1.01	Manufacturer			CPD15	CPD18	CPD15	CPD18	CPD20
1.02	Model			A3LIH4-M		A7LIH4-S		A7XLIH4-S
1.03	Configuration number			1500	1800	1500	1800	2000
1.04	Rated capacity	Q	kg	500				
1.05	Load center distance	c	mm	Lithium battery				
1.06	Power mode			Seated				
1.07	Driving mode							
1.08	Front overhang	x	mm	409		409		414
1.09	Wheelbase	y	mm	1475		1475		
Weight								
2.01	Total weight (with/without battery)		kg	2855/2675	2970/2790	2835/2672	2950/2787	3100/2920
2.02	Axle load (laden,front/rear)		kg	3719/636	4203/567	3711/624	4196/555	4547/553
2.03	Axle load (unladen,front/rear)		kg	1294/1561	1293/1677	1287/1548	1286/1664	1308/1792
Tyres								
3.01	Tyre type			Pneumatic tyre		Pneumatic tyre		
3.02	Tyre size,front			6.50-10-10PR		6.50-10-10PR		6.50-10-12PR
3.03	Tyre size,rear			16×6-8-10PR		16×6-8-10PR		
3.04	Wheels, number front/rear (x=driven wheels)			2/2		2/2		
3.05	Tread, front	b10	mm	934		934		
3.06	Tread, rear	b11	mm	920		920		
Dimensions								
4.01	Mast tilt angle (forward/backward)	α/β	°	6/8		6/8		
4.02	Height (mast lowered)	h1	mm	1995		1995		
4.03	Free lifting height	h2	mm	155		155		
4.04	Lifting height (standard)	h3	mm	3000		3000		
4.05	Max. height, extended (with backrest)	h4	mm	4014		4014		
4.06	Height of overhead guard	h6	mm	2130		2130		
4.07	Seat height relating to SIP (to ground)	h7	mm	1125		1125		
4.08	Towing coupling height	h10	mm	250		250		
4.09	Overall length (with fork)	l1	mm	3120		3120		3125
4.10	Overall length (without fork)	l2	mm	2200		2200		2205
4.11	Overall width	b1	mm	1120		1120		
4.12	Fork size:thickness x width x length			2A		2A		
4.13	Fork carriage, according to ISO2328	s/e/l	mm	35×100×920		35×100×920		40×100×920
4.14	Distance across fork-arms, Max./Min.	b5	mm	960/200		960/200		
4.15	Ground clearance (at mast)	m1	mm	100		100		
4.16	Ground clearance (center of wheelbase)	m2	mm	95		95		
4.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm	3575		3575		3580
4.18	Right angle stacking aisle width for pallet 800 x1200mm lengthways	Ast	mm	3770		3770		3775
4.19	Min. outside turning radius	Wa	mm	1920		1920		
Performance data								
5.01	Travel speed (laden/unladen)		km/h	14.5/15		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	0.260/0.400
5.03	Lowering speed (laden/unladen)		m/s	0.400/0.400		0.400/0.400		
5.04	Max.drawbar pull (laden)		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 voltage/Capacity		V/Ah	80/150		80/125		80/150
6.02	Battery weight		kg	180		163		180
Motor and controller								
7.01	Driving motor powering (S2-60min)		kW	8		8		
7.02	Lifting motor powering (S3-15%)		kW	10.6		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				



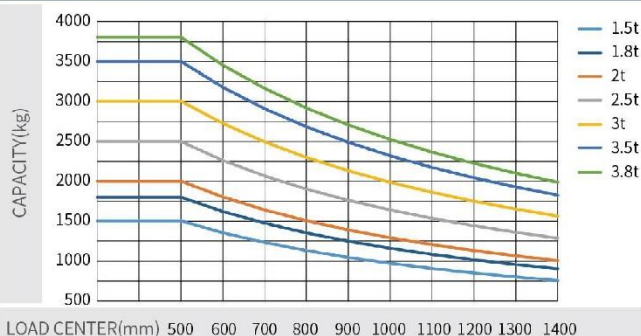
Ast: right angle stacking aisle width
a: clearance 200mm



Manufacturer and Technical Data(Tabulation 2)

Characteristics				ANHUI HELI CO., LTD.									
1.01	Manufacturer												
1.02	Model			CPD20	CPD25	CPD20	CPD25	CPD30	CPD35	CPD30	CPD35	CPD38	
1.03	Configuration number			A3LiH4-M		A7LiH4-S		A3LiH4-M		A7LiH4-S		A7LiH4-S	
1.04	Rated capacity	Q	kg	2000	2500	2000	2500	3000	3500	3000	3500	3800	
1.05	Load center distance	c	mm	500									
1.06	Power mode			Lithium battery									
1.07	Driving mode			Seated									
1.08	Front overhang	x	mm	460				477	482	477	482	482	
1.09	Wheelbase	y	mm	1660				1750				1780	
Weight													
2.01	Total weight (with/without battery)		kg	3585/3395	3925/3735	3540/3375	3880/3715	4550/4310	4860/4620	4500/4290	4810/4600	5240/5000	
2.02	Axle load (laden,front/rear)		kg	4970/615	5790/635	4940/600	5760/620	6750/800	7630/730	6710/790	7590/720	8150/890	
2.03	Axle load (unladen, front/rear)		kg	1750/1835	1780/2145	1720/1820	1750/2130	2050/2500	2110/2750	2010/2490	2070/2740	2220/3020	
Tyres													
3.01	Tyre type			Pneumatic tyre				Front Pneumatic tyre/Rear Solid tyre					
3.02	Tyre size,front			7.00-12-14PR				28×9-15-14PR				28×12.5-15-24PR	
3.03	Tyre size,rear			18×7-8-14PR				18×7-8				200/50-10	
3.04	Wheels, number front/rear (x=driven wheels)			2/2				2/2					
3.05	Tread, front	b10	mm	970				1000				1080	
3.06	Tread, rear	b11	mm	960				970				970	
Dimensions													
4.01	Mast tilt angle (forward/backward)	α/β	°	6/10				6/10					
4.02	Height (mast lowered)	h1	mm	2000				2070	2120	2070	2120	2180	
4.03	Free lifting height	h2	mm	165				155					160
4.04	Lifting height (standard)	h3	mm	3000				3000					
4.05	Max. height, extended (with backrest)	h4	mm	4320				4217					
4.06	Height of overhead guard	h6	mm	2170				2180				2185	
4.07	Seat height relating to SIP (to ground)	h7	mm	1154				1164					
4.08	Towing coupling height	h10	mm	300				310					
4.09	Overall length (with fork)	l1	mm	3354	3504	3354	3504	3637	3642	3637	3642	3682	
4.10	Overall length (without fork)	l2	mm	2434				2567	2572	2567	2572	2612	
4.11	Overall width	b1	mm	1180				1260				1392	
4.12	Fork size:thickness x width x length			2A				3A					
4.13	Fork carriage, according to ISO2328	s/e/l	mm	40×122×920	40×122×1070	40×122×920	40×122×1070	45×125×1070	50×125×1070	45×125×1070	50×125×1070		
4.14	Distance across fork-arms, Max./Min.	b5	mm	1030/250				1060/250					
4.15	Ground clearance (at mast)	m1	mm	100				110				125	
4.16	Ground clearance (center of wheelbase)	m2	mm	125				135				140	
4.17	Right angle stacking aisle width for pallet 1000x1200mm crossways	Ast	mm	3753				3912	3917	3912	3917	3952	
4.18	Right angle stacking aisle width for pallet 800x1200mm lengthways	Ast	mm	3953				4115	4117	4115	4117	4152	
4.19	Min. outside turning radius	Wa	mm	2140				2235				2270	
Performance data													
5.01	Travel speed (laden/unladen)		km/h	14.5/15		12/13		14.5/15		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	0.320/0.440	0.290/0.440	0.290/0.400	0.270/0.400	0.270/0.400	
5.03	Lowering speed (laden/unladen)		m/s	0.360/0.460				0.400/0.400					
5.04	Max.drawbar pull (laden)	N	N	13600/13000	14000/13300	13600/13000	14000/13300	16300/15800	17000/16500	16300/16000	16900/15900	16800/16200	
5.05	Max.gradeability (laden/unladen)	%	%	17/26	15/25	15/25	15/25	17/26	15/23	15/25	15/22	15/20	
5.06	Acceleration time(10 m)(laden/unladen)	s	s	5.9/5.0	6.1/5.0	6.0/5.3	6.2/5.3	5.7/5.1	6.1/5.2	5.8/5.3	6.3/5.4	6.2/5.2	
Battery													
6.01	Battery voltage/Capacity		V/Ah	80/202		80/150		80/250		80/202			80/250
6.02	Battery weight		kg	190		165		240		210			240
Motor and controller													
7.01	Driving motor powering (S2-60min)		kW	11				15					
7.02	Lifting motor powering (S3-15%)		kW	12				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									

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.

Lithium battery

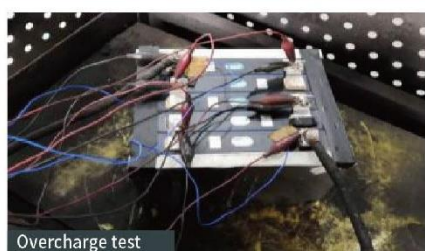
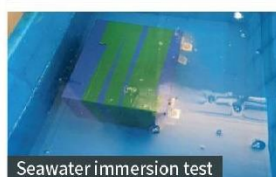
Premium Battery																			
Battery brand	HELI								CATL										
Voltage/Capacity	80V/125Ah	80V/150Ah	80V/202Ah	80V/250Ah	80V/280Ah	80V/404Ah	80V/560Ah	80V/125Ah	80V/150Ah	80V/173Ah	80V/202Ah	80V/228Ah	80V/271Ah	80V/302Ah	80V/346Ah	80V/404Ah	80V/456Ah	80V/512Ah	80V/604Ah
1.5-1.8t S	●	○	○	○	○	—	—	○	○	○	○	○	○	○	—	—	—	—	—
1.5-1.8t M	—	●	○	○	○	—	—	—	○	○	○	○	○	○	—	—	—	—	—
2t (X) S	—	●	○	○	○	—	—	—	○	○	○	○	○	○	—	—	—	—	—
2-2.5t S	—	●	○	○	○	○	—	—	○	○	○	○	○	○	○	○	○	—	—
2-2.5t M	—	—	●	○	○	○	—	—	—	—	○	○	○	○	○	○	○	—	—
3-3.5t S	—	—	●	○	○	○	○	—	—	—	○	○	○	○	○	○	○	○	○
3-3.5t M	—	—	—	●	○	○	○	—	—	—	—	—	○	○	○	○	○	○	○
3.8t S	—	—	—	●	○	○	○	—	—	—	—	—	○	○	○	○	○	○	○
Heating at low Temperature											●								

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

Charger

Model		D80V100ALI-438
Wiring type		Three-phase four-wiring type
Power of charger	KVA	10
Air switch model of Upper level power	A	32
Input voltage range	Vac	380±15%
Input current	A	<20A
Output current	A	5~100
Protection level		For indoor use
Working ambient temperature	°C	-20~+45
Plugs and sockets		REMA320
Charger		Full charging time=required charging capacity/charging current+0.2h For example: the battery capacity is 80V/250Ah, and the discharging state is alarmed by instrument, The charger is 100A, thus the full charging time is $250 \times 0.9 / 100 + 0.2 \approx 2.45h$

Lithium Battery Advantages



- The truck selects mature and economical square iron phosphate lithium battery core and module used by large numbers of commercial vehicles;
- The module adopts aluminum alloy plate frame, which is firm, light in weight and has good heat dissipation effect;
- Fast charging: fast charging makes truck gapless operation possible, and it can be filled in 2 hours;
- High efficiency and safety: The charging and discharging efficiency is up to 98%, and temperature of thermal runaway is over 600 °C;
- Low temperature adaptability: Standard configuration of heating function ensures normal operation of low temperature environment;
- Long service life: the normal charging and discharging cycles is more than 3000 times or 5 years, and capacity retention rate is more than 75%;
- Maintenance free: the battery does not need manual maintenance and does not need to add distilled water electrolyte;
- Green and clean: no pollution and zero emission.

HELI smart fleet management system (domestic basic edition)

Vehicle positioning	Statistical form
Remote diagnosis	Vehicle management
Remote monitoring	Identification recognition (optional)
Maintenance reminder	Weight management (optional)
Battery management	Collision management (optional)



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

Mast type	Mast model	Max.lifting height (mm)	Load capacity (lode center 500mm)(kg)			Height (mast lowered) (mm)		Free lift (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	2771	2791	2886	2905	3036	6/8	6/8
	M250	2500	1500	1800	2000	1745	1745	155	155	2803	2823	2918	2938	3058	6/8	6/8
	M300	3000	1500	1800	2000	1995	1995	155	155	2835	2855	2950	2970	3100	6/8	6/8
	M330	3300	1500	1800	2000	2145	2145	155	155	2854	2874	2969	2989	3119	6/8	6/8
	M350	3500	1500	1800	2000	2245	2245	155	155	2867	2887	2982	3002	3132	6/8	6/6
	M370	3700	1500	1800	2000	2345	2345	155	155	2880	2900	2995	3015	3145	6/6	6/6
	M400	4000	1500	1800	2000	2545	2545	155	155	2928	2948	3043	3063	3193	6/6	6/6
	M425	4250	1500	1800	1950	2670	2670	155	155	2945	2965	3060	3080	3210	6/6	6/6
	M450	4500	1450	1650	1750	2795	2795	155	155	2961	2981	3076	3096	3226	6/6	6/6
	M500	5000	1200 1300 1400	1400 1500 1600	1500	3045	3045	155	155	2993	3013	3108	3128	3258	6/6	6/6
2-stage full free mast	M200	2000	1500	1800	2000	1495	1495	485	485	2820	2840	2935	2955	3085	6/8	6/8
	M250	2500	1500	1800	2000	1745	1745	735	735	2852	2872	2967	2987	3117	6/8	6/8
	M300	3000	1500	1800	2000	1995	1995	985	985	2886	2906	3001	3021	3151	6/8	6/8
	M330	3300	1500	1800	2000	2145	2145	1135	1135	2908	2928	3023	3042	3173	6/8	6/8
	M350	3500	1500	1800	2000	2245	2245	1235	1235	2923	2943	3038	3058	3188	6/8	6/8
	M370	3700	1500	1800	2000	2345	2345	1335	1335	2935	2955	3050	3070	3200	6/6	6/6
	M400	4000	1500	1800	2000	2545	2545	1535	1535	2983	3002	3098	3118	3248	6/6	6/6
	M425	4250	1500	1800	—	2670	—	1660	—	3002	3022	3117	3137	—	6/6	—
	M450	4500	1450	1650	—	2795	—	1785	—	3021	3041	3136	3156	—	6/6	—
	M500	5000	1200 1300 1400	1400 1500 1600	—	3045	—	2035	—	3055	3075	3170	3190	—	6/6	—
3-stage full free mast	M200	2000	1500	1800	2000	1495	1495	485	485	2820	2840	2935	2955	3085	6/8	6/8
	M250	2500	1500	1800	2000	1745	1745	735	735	2852	2872	2967	2987	3117	6/8	6/8
	M300	3000	1500	1800	2000	1995	1995	985	985	2886	2906	3001	3021	3151	6/8	6/8
	M330	3300	1500	1800	2000	2145	2145	1135	1135	2908	2928	3023	3042	3173	6/8	6/8
	M350	3500	1500	1800	2000	2245	2245	1235	1235	2923	2943	3038	3058	3188	6/8	6/8
	M370	3700	1500	1800	2000	2345	2345	1335	1335	2935	2955	3050	3070	3200	6/6	6/6
	M400	4000	1500	1800	2000	2545	2545	1535	1535	2983	3002	3098	3118	3248	6/6	6/6
	M425	4250	1500	1800	—	2670	—	1660	—	3002	3022	3117	3137	—	6/6	—
	M450	4500	1450	1650	—	2795	—	1785	—	3021	3041	3136	3156	—	6/6	—
	M500	5000	1200 1300 1400	1400 1500 1600	—	3045	—	2035	—	3055	3075	3170	3190	—	6/6	—
3-stage full free mast	M200	2000	1500	1800	2000	1495	1495	485	485	2820	2840	2935	2955	3085	6/8	6/8
	M250	2500	1500	1800	2000	1745	1745	735	735	2852	2872	2967	2987	3117	6/8	6/8
	M300	3000	1500	1800	2000	1995	1995	985	985	2886	2906	3001	3021	3151	6/8	6/8
	M330	3300	1500	1800	2000	2145	2145	1135	1135	2908	2928	3023	3042	3173	6/8	6/8
	M350	3500	1500	1800	2000	2245	2245	1235	1235	2923	2943	3038	3058	3188	6/8	6/8
	M370	3700	1500	1800	2000	2345	2345	1335	1335	2935	2955	3050	3070	3200	6/6	6/6
	M400	4000	1500	1800	2000	2545	2545	1535	1535	2983	3002	3098	3118	3248	6/6	6/6
	M425	4250	1500	1800	—	2670	—	1660	—	3002	3022	3117	3137	—	6/6	—
	M450	4500	1450	1650	—	2795	—	1785	—	3021	3041	3136	3156	—	6/6	—
	M500	5000	1200 1300 1400	1400 1500 1600	—	3045	—	2035	—	3055	3075	3170	3190	—	6/6	—

Note: *Indicates the rated load capacity of the front wheel with twin tyres; 2t (E) Indicates that the truck type is CPD20-A7XLIH4-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 (lode center 500mm)(kg)		Height (mm) (mast lowered)	Free lift (mm) (with backrest)	Service weight (kg)				Mast tilt angle α/β (°)
			2t	2.5t			2t-S	2t-M	2.5t-S	2.5t-M	
2-stage standard Mast	M200	2000	2000	2500	1500	150	3460	3505	3800	3845	6/10
	M250	2500	2000	2500	1750	150	3508	3553	3848	3893	6/10
	M300	3000	2000	2500	2000	150	3540	3585	3880	3925	6/10
	M330	3300	2000	2500	2150	150	3580	3625	3920	3965	6/10
	M350	3500	2000	2500	2250	150	3599	3644	3939	3984	6/10
	M370	3700	2000	2500	2350	150	3615	3660	3955	4000	6/6
	M400	4000	2000	2500	2550	150	3687	3732	4027	4072	6/6
	M425	4250	1950 2000 2050	2450 2500 2550	2675	150	3711	3756	4051	4096	6/6 6/10 6/6
	M450	4500	1900 1950 2000	2400 2450 2500	2800	150	3733	3778	4073	4118	6/6 6/10 6/6
	M500	5000	1800 1850 1900	2100 2150 2200	3050	150	3777	3822	4117	4162	6/6 6/6 6/6
2-stage full free mast	M200	2000	2000	2500	1500	495	3727	3772	4067	4112	6/10
	M250	2500	2000	2500	1750	745	3793	3838	4133	4178	6/10
	M300	3000	2000	2500	2000	995	3860	3905	4200	4245	6/10
	M330	3300	2000	2500	2150	1146	3900	3945	4240	4285	6/10
	M350	3500	2000	2500	2250	1246	3927	3972	4267	4312	6/10
	M370	3700	2000	2500	2350	1346	3953	3998	4293	4338	6/6
	M400	4000	2000	2500	2550	1546	4044	4089	4384	4429	6/6
	M425	4250	1950 2000 2050	2450 2500 2550	2675	1671	4077	4122	4417	4462	6/6 6/10 6/6
	M450	4500	1900 1950 2000	2400 2450 2500	2800	1796	4110	4155	4450	4495	6/6 6/10 6/6
	M500	5000	1800 1850 1900	2100 2150 2200	3050	2046	4177	4222	4517	4562	6/6 6/6 6/6
3-stage full free mast	M200	2000	2000	2500	1500	795	3945	3990	4285	4330	6/6
	M250	2500	2000	2500	1750	1045	3978	4023	4318	4363	6/6
	M300	3000	2000	2500	2000	1295	4012	4057	4352	4397	6/6
	M330	3300	2000	2500	2150	1496	4025	4070	4365	4410	6/6
	M350	3500	2000	2500	2250	1596	4042	4087	4382	4427	6/6
	M370	3700	2000	2500	2350	1696	4052	4097	4392	4437	6/6
	M400	4000	2000	2500	2550	1896	4078	4123	4418	4463	6/6
	M425	4250	1950 2000 2050	2450 2500 2550	2675	2096	4112	4157	4452	4497	6/6 6/10 6/6
	M450	4500	1900 1950 2000	2400 2450 2500	2800	2296	4209	4254	4549	4594	6/6 6/10 6/6
	M500	5000	1800 1850 1900	2100 2150 2200	3050	2596	4260	4305	4600	4645	6/6 6/6 6/6

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.

Optional item		
	Model	S
Basic items	Pneumatic tyre*	●
	Solid tyre	○
	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 series mast***	○
	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	●
Comfort items	Both side rear-view mirrors + center wide-angle rear-view mirror	○
	Reversing radar (4 probes)	○
	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	○
Cab / Windshield / Air conditioner / Heater	Steering wheel with handle ball	●
	Steering wheel without handle ball	○
	Electric fan	○
	panel mounted cab (including fan + wiper)	○
	Heater	○
	Single cooling air conditioner	○
	Single cooling air conditioner + heater	○
	Front windshield (including wiper)	○
Non standard overhead guard	Rear windshield	○
	Top windshield (excluding fan)	○
	50mm increased of overhead guard height	○
Lights	50mm reduced of overhead guard height	○
	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	○
Others	Fixed LED rotary buzzer warning light	○
	Metric thread	●
	Tilt cylinder jacket	○
	Steering cylinder jacket	○
	REMA 320 charging port	●
	Onboard charger	○
	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.

3t/3.5t/3.8t Mast parameters

Mast type	Mast model	Max.lifting height (mm)	Load capacity (lode center 500mm)(kg)			Height (mast lowered) (mm)			Free lift (with backrest) (mm)			Service weight (kg)					Mast tilt angle α/β(°)
			3t	3.5t	3.8t	3t	3.5t	3.8t	3t	3.5t	3.8t	3t-S	3t-M	3.5t-S	3.5t-M	3.8t-S	3-3.8t
2-stage standard Mast	M200	2000	3000	3500	3800	1570	1620	1680	155	160	160	4404	4454	4704	4754	5134	6/10
	M250	2500	3000	3500	3800	1820	1870	1930	155	160	160	4452	4502	4757	4807	5187	6/10
	M300	3000	3000	3500	3800	2070	2120	2180	155	160	160	4500	4550	4810	4860	5240	6/10
	M330	3300	3000	3500	3800	2220	2270	2330	155	160	160	4529	4579	4842	4892	5272	6/10
	M350	3500	3000	3500	3800	2320	2370	2430	155	160	160	4548	4598	4863	4913	5293	6/10
	M370	3700	3000	3300	3800	2420	2470	2530	155	160	160	4567	4617	4884	4934	5314	6/5
	M400	4000	2850	3150	3700	2620	2670	2730	155	160	160	4647	4697	4968	5018	5398	6/6
	M425	4250	2750 *2800	3050 *3150	3550 *3650	2745	2795	2855	155	160	160	4671	4721	4994	5044	5424	5/6 *6/10
	M450	4500	2600 *2650	2900 *3000	3400 *3500	2870	2920	2980	155	160	160	4695	4745	5021	5071	5451	5/6 *6/10
	M500	5000	2300 *2350	2550 *2600	3000 *3200	3120	3170	3230	155	160	160	4743	4793	5074	5124	5504	5/6 *6/6
	M550	5500	1950 *2150	2150 *2350	2700 *3000	3420	3470	3530	155	160	160	4841	4891	5178	5228	5608	3/6 *3/6
	M600	6000	1300 *1900	1450 *2100	2200 *2600	3670	3720	3780	155	160	160	4889	4939	5231	5281	5661	3/6 *3/6
2-stage full free mast	ZM200	2000	3000	3500	3800	1570	1620	1680	340	443	503	4432	4482	4728	4778	5158	6/10
	ZM250	2500	3000	3500	3800	1820	1870	1930	590	693	753	4482	4532	4781	4831	5211	6/10
	ZM300	3000	3000	3500	3800	2070	2120	2180	840	943	1003	4532	4582	4835	4885	5265	6/10
	ZM330	3300	3000	3500	3800	2220	2270	2330	990	1093	1153	4564	4614	4868	4918	5298	6/10
	ZM350	3500	3000	3500	3800	2320	2370	2430	1090	1193	1253	4584	4634	4889	4939	5319	6/10
	ZM370	3700	3000	3200	3800	2420	2470	2530	1190	1293	1353	4604	4654	4910	4960	5340	6/5
	ZM400	4000	2850	3200	3700	2620	2670	2730	1390	1493	1553	4682	4732	4990	5040	5420	6/6
	ZM425	4250	2550 *2600	3050 *3150	—	2745	2795	2855	1515	1618	—	4708	4758	5017	5067	—	5/6 *6/10
	ZM450	4500	2500 *2600	2850 *3050	—	2870	2920	2980	1640	1743	—	4736	4786	5046	5096	—	5/6 *6/10
	ZM500	5000	2100 *2600	2350 *2550	—	3120	3170	3230	1890	1993	—	4790	4840	5102	5152	—	5/6 *6/6
	ZM550	5500	1950 *2400	2200 *2550	—	3420	3470	3530	2190	2293	—	4889	4939	5205	5255	—	3/6 *3/6
	ZM600	6000	1300 *2000	1450 *2200	—	3670	3720	3780	2440	2543	—	4942	4992	5261	5311	—	3/6 *3/6
3-stage full free mast	ZSM360	3600	2850	3250	3800	1870	1870	1930	640	640	693	4643	4693	4921	4971	5354	6/6
	ZSM400	4000	2750	3100	3700	2020	2020	2055	790	790	843	4684	4734	4962	5012	5395	6/6
	ZSM435	4350	2550 *2600	2950 *3100	3500 *3600	2120	2120	2180	890	890	943	4713	4763	4991	5041	5424	5/6 *6/6
	ZSM450	4500	2450 *2600	2850 *3000	3400 *3600	2170	2170	2230	940	940	993	4728	4778	5006	5056	5439	5/6 *6/6
	ZSM470	4700	2400 *2550	2650 *2700	3100 *3200	2230	2230	2295	1000	1000	1053	4746	4796	5024	5074	5457	5/6 *6/6
	ZSM480	4800	2350 *2550	2550 *2600	3100 *3200	2270	2270	2330	1040	1040	1093	4756	4806	5034	5084	5467	5/6 *6/6
	ZSM500	5000	2100 *2550	2350 *2450	3000 *3150	2370	2370	2430	1140	1140	1193	4783	4833	5061	5111	5494	5/6 *6/6
	ZSM540	5400	1950 *2350	2200 *2400	2700 *3000	2470	2470	2555	1240	1240	1293	4813	4863	5091	5141	5524	3/6 *3/6
	ZSM600	6000	1250 *2200	1300 *2400	2200 *2600	2670	2670	2780	1440	1440	1493	4917	4967	5103	5153	5628	3/6 *3/3
	ZSM650	6500	950 *1900	1000 *2200	—	2870	2870	—	1640	1640	—	4972	5022	5250	5300	—	3/3 *3/3
	ZSM700	7000	1800 *2000	—	—	3045	3045	—	1815	1815	—	5022	5072	5300	5350	—	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.



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Pantai Indah Kapuk - Jakarta Utara
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Cikupa, Tangerang - Banten
Telp : 021 59645008

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Jl. Dusun Mawang, Desa Papanloe,
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Jl. Raya Gilang 8, Gilang, Kec. Taman,
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