

## CPD20/25 /30/35 GD2LI-M

Optional		
Safety	Pump-Advanced Driving Assistance System (P-ADAS)	○
	Traction-Advanced Driving Assistance System(T-ADAS)	○
	Steering automatic deceleration	●
	Reversing handle with horn button	●
	Over speed alarm (5km/h)	○
	Over speed alarm (8km/h)	○
	Over speed alarm (10km/h)	○
	OPS	●
	Seat switch	○
	Multi way valve overload	●
	Dry-powder fire extinguisher (0.5kg)	○
	Dry-powder fire extinguisher (2kg)	○
	Backward buzzer	●
	Reversing chinese language speaker	○
	Electronic upper buffer	○
Rearview mirror with angle in the middle	●	
Left and right rearview mirror+rearview mirror with angle in the middle	○	
Comfort	Suspension Seats	●
	USB	●
	Steer activated by steering wheel	●
	Mechanical valve	●
	Electro-magnetic valve(proportion valve+thumb switch)	○
Optional overhead guard	Fan	○
	Overhead guard with protection net	○
Cab/Windshield	Panel-mounted cab (with fan +windshield wiper)	○
	With heater	○
	With cooling air conditioner (rear installed type)	○
	With cooling air conditioner (rear installed type) +heater	○
	With front windshield glass (with wiper)	○
	With rear windshield glass	○
Lights	With top rainshield glass (without fan)	○
	LED rear working light	○
	Front LED red/blue spotlight	○
	Rear LED red/blue spot light	○
	Three sides (left, right and rear) red/blue bar light	○
	Fixed LED flickering warning light	●
	Fixed LED rotating warning light	○
Others	Fixed LED rotating and buzzer alarm light	○
	Front double - cylinder mast	○
	Single tyre (front wheel)	●
	Solid tyre	●
	All climate tyre	○
	Non - marking solid tyre	○
	Metric thread	●
	American thread	○
Sleeve for tilting cylinder	●	
Sleeve for tilting cylinder and steering cylinder	○	
HELI FICS system(Overseas Version)	○	
Twin - pedal	○	

Note: "●" standard ; "○" optional



**PLUS**

**LIION G2 Series  
PLUS Version 2.0-3.5t**



**ANHUI HELI CO., LTD.**

Add / No.668, FangXing Road, Hefei, China  
 Fax / +86-551-63639966  
 Tel / +86-551-63639068 (North America); 63634335 (Latin America);  
 63639258 (Europe); 63639358 (Asia); 63662105 (Africa& Middle East);  
 63648352 (Eurasia); 63629143 (Oceania);



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**More Powerful**  
**More Protective**  
**More Possible**



# PLUS Version All-New Upgrade

## Enhanced Load-Bearing Capacity Steady as a Rock

Reinforced Frame, Enhanced High-Position Load-Bearing Capacity.  
No Load Reduction at a 4.7m Lifting Height,  
More Stable Lifting/Lowering.

 Load-Bearing Capacity Increased by **21%**

## G2 Series PLUS Version 2.0-3.5t

**3500kg**

**4700mm**

## Powerful Performance High Efficiency



**18%** Maximum gradeability with load



**0.41m/s** Lifting speed with load



**18-19km/h** Driving speed

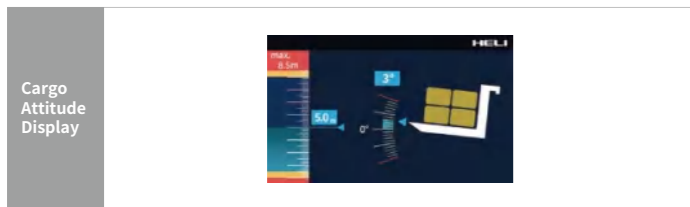
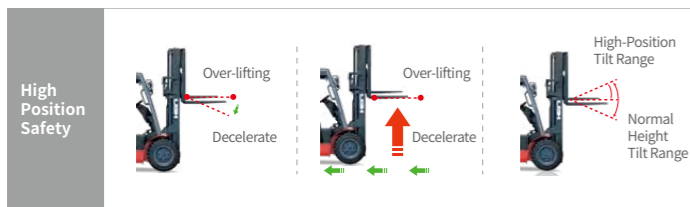
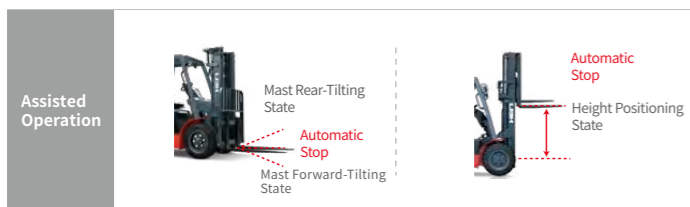
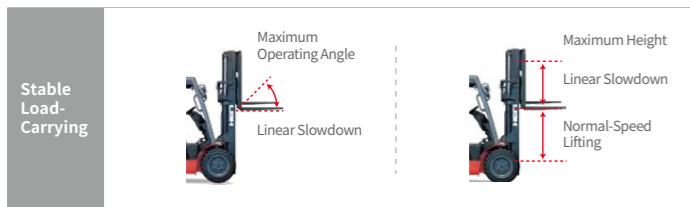


**0.54m/s** Lifting speed without load

Note: the data displayed are all based on the model CPD30-GD2Li-H, and data for other trucks are shown in the table of technical parameters.

# Smart and Safe Ease In All Aspects

## Key Functional Features

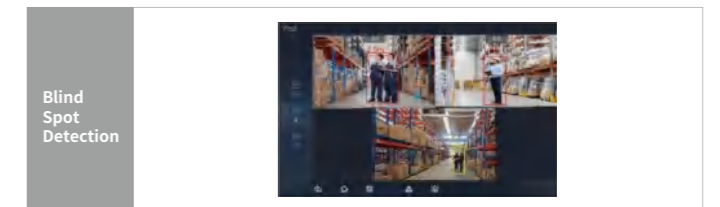
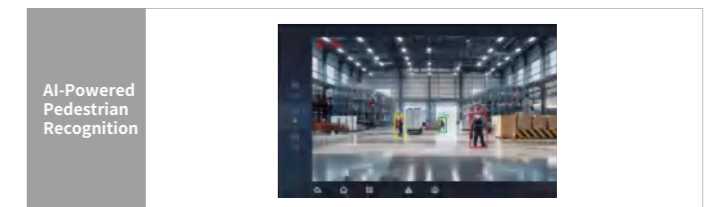
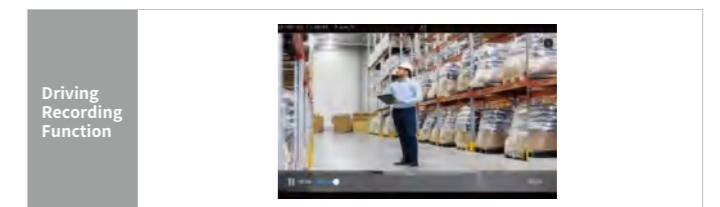
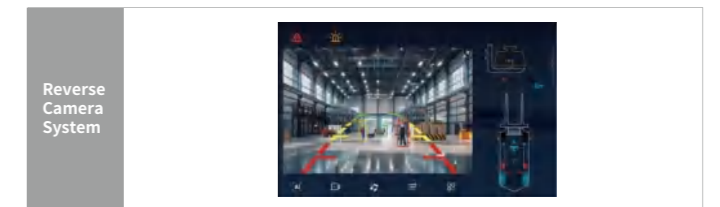


### P-ADAS (Optional) Pump-Advanced Driving Assistance System

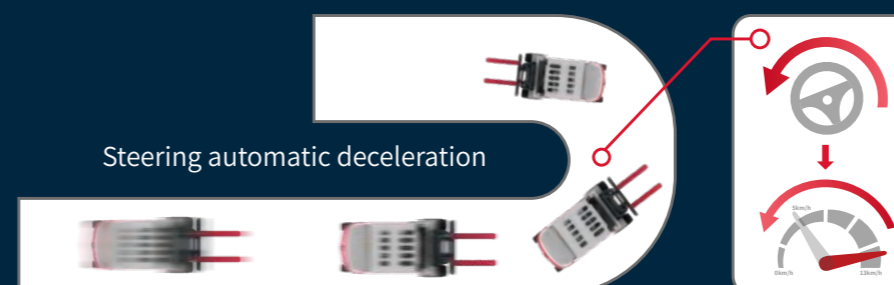
### T-ADAS (Optional) Traction-Advanced Driving Assistance System



## Key Functional Features



- Steering deceleration: Auto steering deceleration reduces the risk of turning over;
- Steering started by steering wheel: the steering wheel can directly start the steering function and provides the required oil quantity according to the steering wheel speed;
- Color screen instrument: Bilingual (CN/EN) options, full vehicle information at a glance;
- PES Three-speed mode: Choose multiple speed modes according to working conditions, guarantee work efficiency;
- Rear handle with horn switch for safer reversing;
- Lithium battery is automatically heated at low temperature, with excellent low temperature adaptability.





Optimized mast and pressed overhead guard for improved visibility and safety.



Ultra-low torque steering gear and lighter steering operation reduces driving fatigue.

The headroom for the driver is increased by **50 mm**

## Optimized Ergonomic Design Better Driving Comfort



Large boarding space and foot operation space for more comfortable operation



Standard - equipped Full - floating Suspension Seats



Brake fluid within reach, easy to check and refill



USB power supply design is more thoughtful

## Centralized Checkpoints Easy Maintenance



The electrical design is concentrated on the top of lithium battery, and the maintenance points are centralized, which is convenient for inspection and maintenance.



Gradient  
20%

## High Quality & High Reliability

The integrated cast drive axle and reinforced cast steering axle have been proven in the market and are mature and reliable. The mast force optimization design improves the overall performance and effectively ensures the operation safety.



## Tested in Rough Operating Environment



Rain Test: The whole vehicle is simulated to be under a short - duration rainstorm for 15 minutes (rainfall intensity is 5.43 mm/min) with live - load testing, and the vehicle can operate continuously without failure.



After 10mins wading test, the vehicle has no failure. (Water depth 200mm)



The whole vehicle can be operated alternately in -20°C cold storage for 6 hours and parked in the cold storage for 12 hours without any failure and can continue to work.



The truck passed simulation experiment of bumpy road.

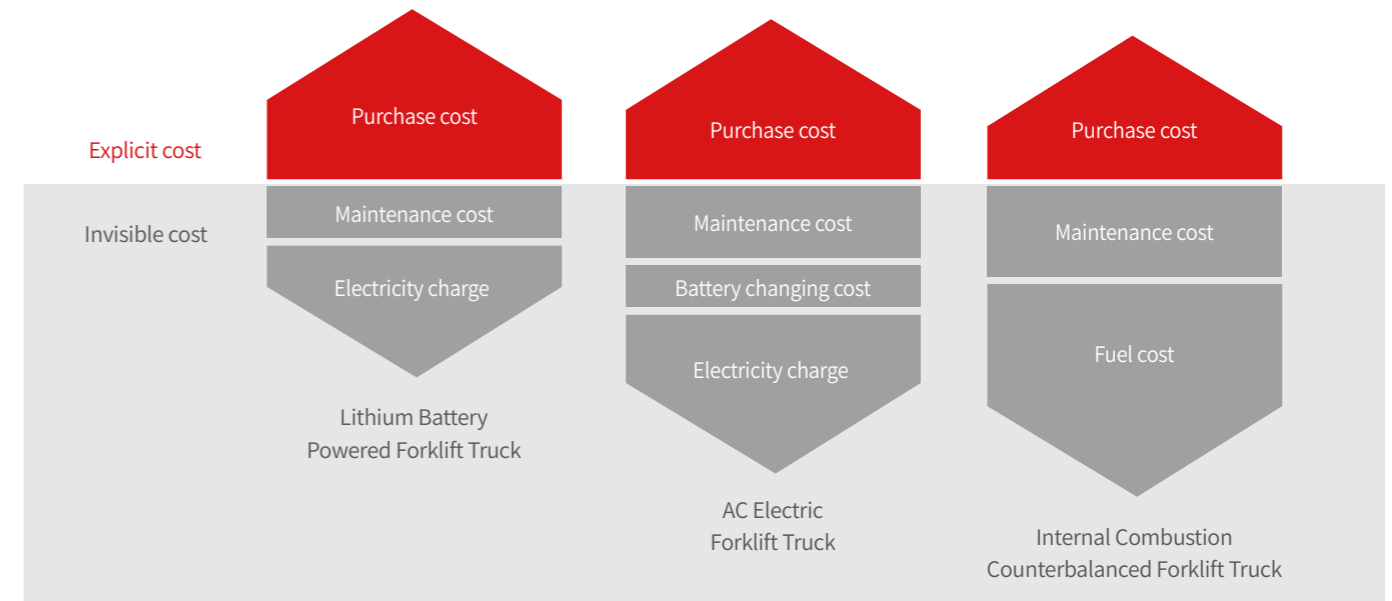
## Operating Cost Comparison: Lithium battery forklift vs. Lead-acid battery forklift vs. IC forklift

The advantages of HELI lithium battery forklift trucks are more prominent in the life cycle cost.

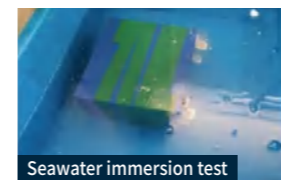
Compared with internal combustion forklift truck, lithium battery forklift truck has the advantages of no noise, no pollution, small vibration and simple operation.

Compared with the lead-acid battery forklift truck, lithium battery forklift has the characteristics of fast charging and charging at any time, which is more suitable for multi shift operation.

Besides, HELI lithium battery forklift is maintenance free, high power conversion efficiency, and economical overall operation cost.



### Lithium Battery Advantages



Seawater immersion test



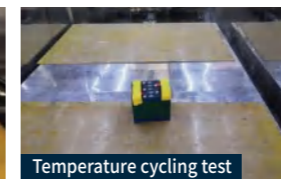
Extrusion test



Heating test



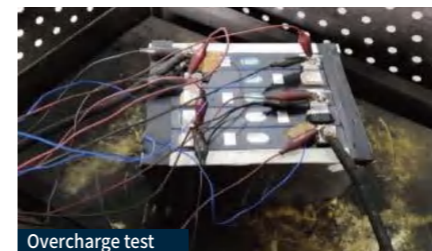
Temperature cycling test



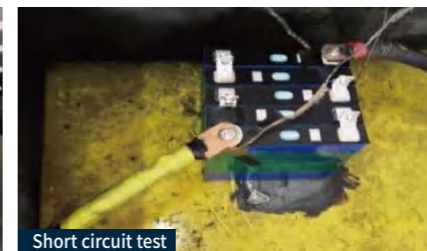
Temperature cycling test



Drop test



Overcharge test



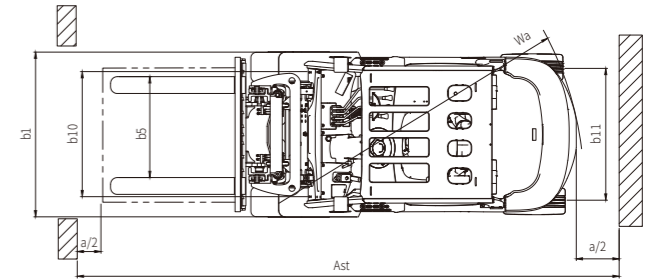
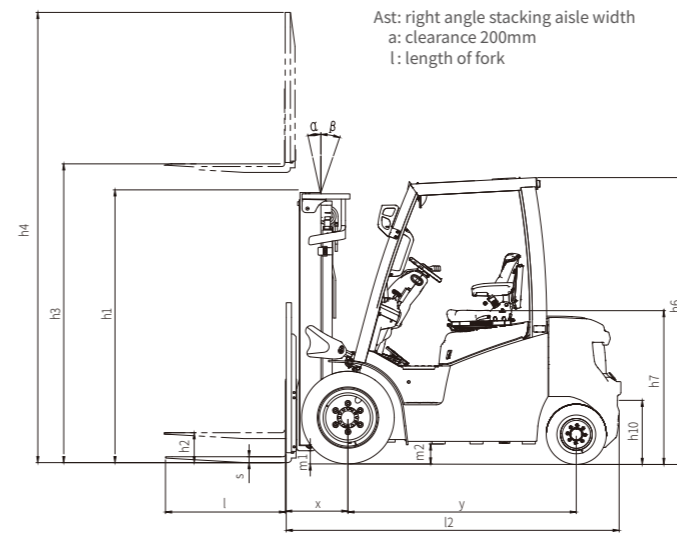
Short circuit test

- 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 fully charged in up to one hour;
- 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: Over 75% capacity reserved after 5 years or ten thousand hours.
- 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.

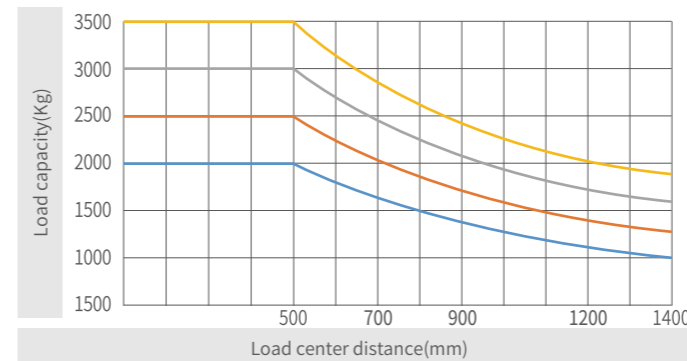
**Manufacturer and Technical Data**

Characteristics							
<b>HELI</b>							
1.01	Manufacturer						
1.02	Model		CPD20	CPD25	CPD30	CPD35	
1.03	Configuration number		GD2Li-M	GD2Li-M	GD2Li-M	GD2Li-M	
1.04	Rated capacity	Q	kg	2000	2500	3000	3500
1.05	Load center distance	c	mm	500	500	500	500
1.06	Power mode			lithium battery	lithium battery	lithium battery	lithium battery
1.07	Driving mode			seated	seated	seated	seated
1.08	Front overhang	x	mm	460	460	477	482
1.09	Wheelbase	y	mm	1650	1650	1750	1750
Weight							
2.01	Total weight (with/without battery)		kg	3950/3392	4340/3782	5155/4419	5575/4839
2.02	Axle load (laden,front/rear)		kg	1950/2000	1970/2370	2160/2995	2431/3144
2.03	Axle load (unladen,front/rear)		kg	5113/837	5689/1151	6945/1210	7958/1117
Tyres							
3.01	Tyre type			Solid tyre	Solid tyre	Solid tyre	Solid tyre
3.02	Tyre size,front			7.00-12	7.00-12	29×8-15	29×8-15
3.03	Tyre size,rear			18×7-8	18×7-8	200/50-10	200/50-10
3.04	Wheels,number front/rear (x=driven wheels)			2/2	2/2	2/2	2/2
3.05	Tread, front	b10	mm	970	970	1000	1000
3.06	Tread, rear	b11	mm	960	960	970	970
Dimensions							
4.01	Mast tilt angle (forward/backward)	α/β	°	6/12	6/12	6/12	6/12
4.02	Height (mast lowered)	h1	mm	2000	2000	2070	2120
4.03	Free lifting height	h2	mm	150	150	155	160
4.04	Lifting height (standard)	h3	mm	3000	3000	3000	3000
4.05	Max. height,extended (with backrest)	h4	mm	4030	4030	4217	4217
4.06	Height of overhead guard	h6	mm	2220	2220	2230	2230
4.07	Seat height relating to SIP (to ground)	h7	mm	1170	1170	1180	1180
4.08	Towing coupling height	h10	mm	290	290	320	320
4.09	Overall length (with fork)	l1	mm	3352	3502	3639	3644
4.10	Overall length (without fork)	l2	mm	2432	2432	2569	2574
4.11	Overall width	b1	mm	1160	1160	1225	1225
4.12	Fork size:thickness x width x length	s/e/l	mm	40×122×920	40×122×1070	45×125×1070	50×125×1070
4.13	Fork carriage,according to ISO2328			2A	2A	3A	3A
4.14	Distance across fork-arms, Max./Min.	b5	mm	1030/250	1030/250	1060/250	1060/250
4.15	Distance across fork-arms, Max./Min.	m1	mm	115	115	130	130
4.16	Ground clearance (center of wheelbase)	m2	mm	130	130	140	140
4.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm	3710	3710	3892	3897
4.18	Right angle stacking aisle width for pallet 800 x1200mm lengthways	Ast	mm	3910	3910	4092	4097
4.19	Min. outside turning radius	Wa	mm	2070	2070	2215	2215
Performance Data							
5.01	Travel speed (laden/unladen)		km/h	18/19	18/19	18/19	18/19
5.02	Lift speed (laden/unladen)		m/s	0.46/0.56	0.44/0.56	0.41/0.54	0.39/0.54
5.03	Lowering speed (laden/unladen)		m/s	0.47/0.5	0.47/0.5	0.47/0.5	0.47/0.5
5.04	Max.drawbar pull (laden)		N	19000	19000	21500	21500
5.05	Max.gradeability (laden/unladen)		%	22/28	20/28	18/28	16/28
5.06	Acceleration time(10 m)(laden/unladen)		s	5.8/5.1	6.0/5.3	5.8/5.1	6.0/5.3
Battery							
6.01	Battery voltage/Capacity		V/Ah	80/280	80/280	80/404	80/404
Motor and controller							
7.01	Driving motor powering (S2-60min)		kW	16.6	16.6	16.6	16.6
7.02	Lifting motor powering (S3-15%)		kW	25.5	25.5	25.5	25.5
7.03	Driving motor controlling mode			MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC
7.04	Lifting motor controlling mode			MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC
Addition data							
8.01	Service brake/Parking brake			hydraulic/mechanical	hydraulic/mechanical	hydraulic/mechanical	hydraulic/mechanical
8.02	Operating pressure for attachments		Mpa	16	16	16	16

Note:  
 (1)In the configuration number, 2 refers to ZAPI controller.  
 (2) h7 is the value for standard configuration. For Grammer's suspension seat, h7 is 30mm increased.



**Load center distance**



— 2.0t — 2.5t — 3.0t — 3.5t

NOTE:  
 Vertical axle stands for load capacity while horizontal axlestands for load center. Load center is the distance counted from the front of the fork. The base point of the standard load is the center point of the cubic with the same 1000mm dimension in length, width and height. The load capacity should be down, if mask tilts forward, using non-standard forks or loading goods with extra width. Please notice the different

## Wide View Standard Mast

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 (°)
		2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
M200	2000	2000	2500	3000	3500	1500	1500	1570	1620	150	150	155	160	3860	4250	5059	5469	6/12
M250	2500	2000	2500	3000	3500	1750	1750	1820	1870	150	150	155	160	3905	4295	5107	5522	6/12
M300	3000	2000	2500	3000	3500	2000	2000	2070	2120	150	150	155	160	3950	4340	5155	5575	6/12
M330	3300	2000	2500	3000	3500	2150	2150	2220	2270	150	150	155	160	3977	4367	5184	5607	6/12
M350	3500	2000	2500	3000	3500	2250	2250	2320	2370	150	150	155	160	3995	4385	5203	5628	6/12
M370	3700	2000	2500	3000	3500	2350	2350	2420	2470	150	150	155	160	4013	4403	5222	5649	6/6
M400	4000	2000	2500	3000	3500	2550	2550	2620	2670	150	150	155	160	4090	4480	5302	5733	6/6
M425	4250	2000	2500	3000	3500	2675	2675	2745	2795	150	150	155	160	4113	4503	5326	5759	6/6
M450	4500	2000	2500	3000	3500	2800	2800	2870	2920	150	150	155	160	4135	4525	5350	5786	6/6
M500	5000	1950	2430	2950	3370	3050	3050	3120	3170	150	150	155	160	4180	4570	5398	5839	6/6
M550	5500	1850	2250	2800	3100	3350	3350	3420	3470	150	150	155	160	4275	4665	5496	5943	3/6
M600	6000	1750	2000	2500	2650	3600	3600	3670	3720	150	150	155	160	4320	4710	5544	5996	3/6

## Wide View Full Free 2-Stage Mast

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 (°)
		2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
ZM200	2000	2000	2500	3000	3500	1500	1500	1570	1620	496	496	340	443	3872	4262	5080	5486	6/12
ZM250	2500	2000	2500	3000	3500	1750	1750	1820	1870	746	746	590	693	3920	4310	5130	5539	6/12
ZM300	3000	2000	2500	3000	3500	2000	2000	2070	2120	996	996	840	943	3967	4357	5180	5593	6/12
ZM330	3300	2000	2500	3000	3500	2150	2150	2220	2270	1146	1146	990	1093	3997	4387	5212	5626	6/12
ZM350	3500	2000	2500	3000	3500	2250	2250	2320	2370	1246	1246	1090	1193	4015	4405	5232	5647	6/12
ZM370	3700	2000	2500	3000	3500	2350	2350	2420	2470	1346	1346	1190	1293	4035	4425	5252	5668	6/6
ZM400	4000	2000	2500	3000	3500	2550	2550	2620	2670	1546	1546	1390	1493	4111	4501	5330	5748	6/6
ZM425	4250	2000	2500	3000	3500	2675	2675	2745	2795	1671	1671	1515	1618	4135	4525	5356	5775	6/6
ZM450	4500	2000	2500	3000	3500	2800	2800	2870	2920	1796	1796	1640	1743	4161	4551	5384	5804	6/6
ZM500	5000	1950	2430	2950	3370	3050	3050	3120	3170	2046	2046	1890	1993	4212	4602	5438	5860	6/6
ZM550	5500	1850	2250	2800	3100	3350	3350	3420	3470	2346	2346	2190	2293	4309	4699	5537	5963	3/6
ZM600	6000	1750	2000	2500	2650	3600	3600	3670	3720	2596	2596	2440	2543	4359	4749	5590	6019	3/6

Note:(1) 2-2.5t: the free lifting height increases by 376mm without backrest  
(2) 3t: the free lifting height increases by 477mm without backrest  
(3) 3.5t: the free lifting height increases by 407mm without backrest

## Wide View Full Free 3-Stage Mast

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 (°)
		2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	2t	2.5t	3t	3.5t	
ZSM360	3600	2000	2500	3000	3500	1800	1800	1870	1870	796	796	640	640	4094	4484	5298	5684	6/6
ZSM400	4000	2000	2500	3000	3500	1950	1950	2020	2020	946	946	790	790	4135	4525	5339	5725	6/6
ZSM435	4350	2000	2500	3000	3500	2050	2050	2120	2120	1046	1046	890	890	4166	4556	5368	5754	6/6
ZSM450	4500	2000	2500	3000	3500	2100	2100	2170	2170	1096	1096	940	940	4179	4569	5383	5769	6/6
ZSM470	4700	2000	2500	3000	3500	2165	2165	2230	2230	1161	1161	1000	1000	4198	4588	5401	5787	6/6
ZSM480	4800	2000	2500	3000	3500	2210	2210	2270	2270	1206	1206	1040	1040	4211	4601	5411	5797	6/6
ZSM500	5000	1950	2400	3000	3400	2300	2300	2370	2370	1296	1296	1140	1140	4234	4624	5438	5824	6/6
ZSM540	5400	1910	2250	2850	3200	2400	2400	2470	2470	1396	1396	1240	1240	4266	4656	5468	5854	3/6
ZSM600	6000	1750	2000	2500	2650	2600	2600	2670	2670	1596	1596	1440	1440	4369	4759	5572	5958	3/6
ZSM650	6500	1650	1900	2220	2300	2800	2800	2870	2870	1796	1796	1640	1640	4425	4815	5627	6013	3/3
ZSM700	7000	1500	1650	1790	1900	2975	2975	3045	3045	1971	1971	1815	1815	4475	4865	5677	6063	3/3

Note:(1) 2-2.5t: the free lifting height increases by 376mm without backrest  
(2) 3t: the free lifting height increases by 477mm without backrest  
(3) 3.5-3.8t: the free lifting height increases by 407mm without backrest

## Lithium battery

Battery brand	HELI HeDing		
Voltage/Capacity	80V/280Ah	80V/404Ah	80V/604Ah
2-2.5t	●	○	—
3-3.5t	—	●	○
Heating at low Temperature			

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

## Charger

Model	D80V200ALi-123E38C	D80V200ALi-423E38C
Applied battery type	48/80V lithium battery recommendation: capacity higher than 240Ah	
Wiring type	Three-phase four-wiring type	
Power of charger	KVA	22
Air switch model of Upper level power	A	63
Input voltage range	Vac	380±15%
Input current	A	<40
Output current	A	0~200
Protection level	(For indoor use)	
Working ambient temperature	°C	-20~+45
Plugs and sockets	Charger meeting national standard	
Charger	Full charging time=required chaging capacity/charging current+0.2h For example: the battery capacity is 80V/404Ah, and the discharging state is alarmed by instrument, The charger is 200A, thus the full charging time is 404*0.9/200+0.2≈2h	