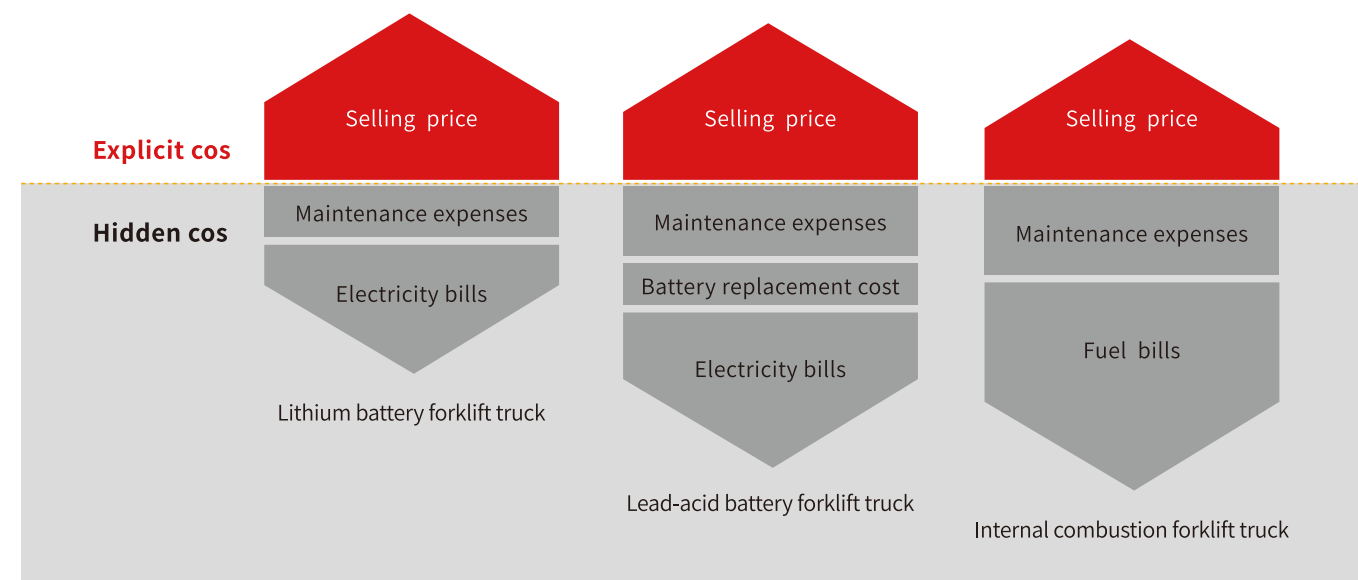


OPERATING COSTS:

Lithium battery forklift truck **VS** Lead-acid battery forklift truck **VS** internal combustion forklift truck

The superiority of Heli lithium battery forklift is more prominent in its cost of use throughout its lifecycle. Compared with lead-acid battery truck and internal combustion truck, lithium battery truck are more cost-effective due to their maintenance free and high energy conversion rates. Compared to internal combustion trucks, lithium battery trucks have advantages such as no noise, no pollution, low vibration, and simple operation. Lithium battery trucks have the characteristics of fast charging and on-demand charging compared to lead-acid battery trucks, making them more suitable for multi shift work applications.



CPD15/16/18/20SQ

A2LG3-M A2LiLG3-M



1.5-2 t

G3 Series Front Wheel Dual Drive Three Wheel
Electric Forklift Truck For Cold Storage



ANHUI HELI CO., LTD.

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HELI



COLD CHAIN TRANSPORTATION
LEADS TO 'FRESHNESS'

G3
SERIES



APPEARANCE

The appearance is grand and the colors are beautiful;
The performance is excellent.

G3 series family design elements

Sheet metal stamping type side cover, side door



COMFORTABLE AND ENERGY-SAVING

The truck provides users with the best comfortable driving experience.
The truck adopts advanced energy-saving technologies for a greener and more environmentally friendly environment

Wide view mast Optimized mast improves lateral stability.

Mobile phone and water cup holder offer convenient storage.

Optimized mast improves lateral stability.

The steering wheel is sensitive, lightweight, precise, and power-saving when starting and turning.

The steering wheel is optimized with height reduction
And structure improving;
Adjustable angle; Comfortable operation

Color screen instrument

PES third gear adjustment

P — Powerful
E — Economical
S — Energy-saving

Multi performance modes satisfy the needs of various working conditions.

FRONT WHEEL DUAL DRIVE MOTORS PROVIDE MORE POWER

Strong performance:
The truck is equipped with ZF dual motor drive unit.

The truck has small turning radius and good passability.

The minimum turning radius is as low as 1515mm



16km/h
Driving speed



20%
Maximum gradeability with load



0.45m/s
Maximum lifting speed with load



Good bearing capacity
at high position



0.6m/s
Maximum lifting speed without load

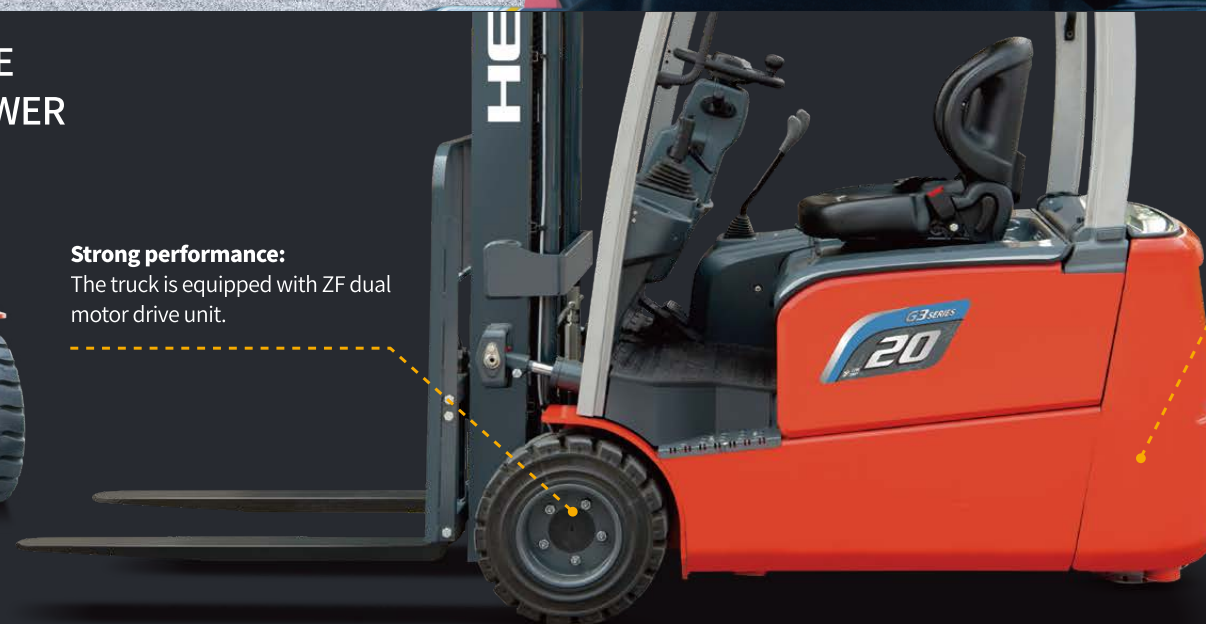
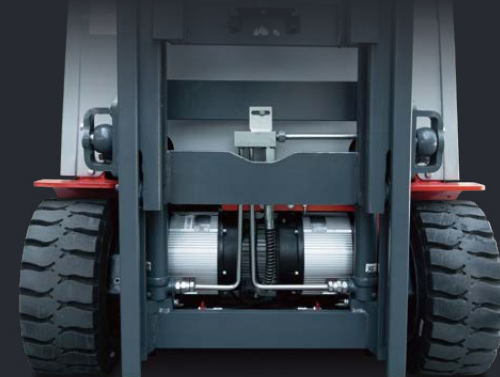
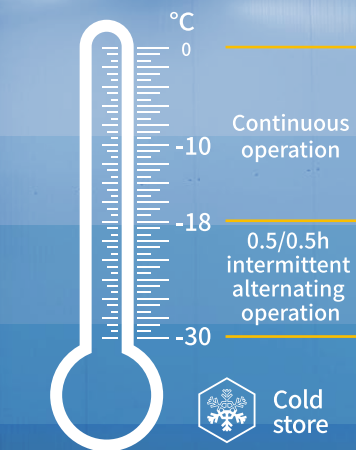


TABLE AND RELIABLE

The product is designed with the concept of stability and reliability, and has undergone multiple rigorous tests and verifications.



Wet type service brake and oil cooled disc brake has the characteristics of efficient, low noise, maintenance free, and reliable.



It can meet the requirements of continuous operation in an environment with a temperature lowest to -18 °C and intermittent alternating operation for 0.5h/0.5h in an environment with a temperature lowest to -30 °C



National standard fast charging port supports up to 200A fast charging



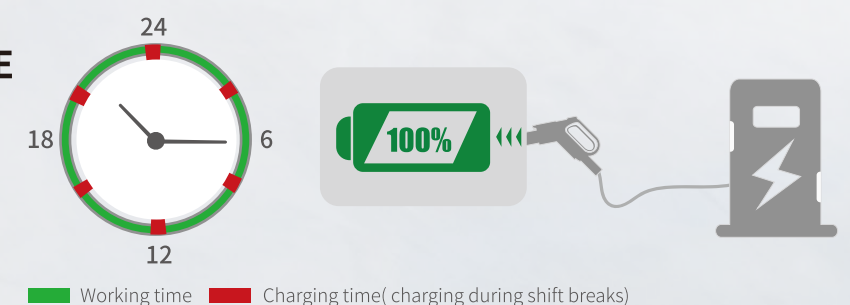
The entire truck and its components meet the latest CE & UKCA requirements.



Ratchet type hand brake is safe and reliable

FAST CHARGING AND ULTRA LONG BATTERY LIFE

- The truck is standard equipped with 202Ah lithium battery which has ultra long battery life.
- The battery satisfies uninterrupted operation during all day.
- The 2t truck model can be equipped with a maximum optional 404Ah lithium battery.



COLD STORAGE DEDICATED

Professional design for special working conditions of cold store, improving product service life



Upgrade the anti-corrosion and rust prevention of the whole truck body

The oil cylinder is double-layer chrome plated, and the fasteners are made of stainless steel or Dacromet treated; the chain is Dacromet treated.



Anti dripping design of the overhead guard



Built-in anti-collision light bracket

Overhead guard with protective net



Stainless steel bolts are used; wheel hub bolts are treated with Dacromet.



Special resin hose: It has better wear and corrosion resistance properties than ordinary rubber materials in low temperature environments.



Electrical components: Improve the waterproof level of the original components, specialized protection for the plug-in, waterproof measures for electronic control.



Cold storage dedicated battery: The protection level of the lithium battery box is IP67. By configuring waterproof, breathable and explosion-proof valves, the pressure difference inside and outside the sealed box is balanced to ensure the structural strength of the box.



Low temperature specialized oil and lubricating grease: It can maintain a constant viscosity even at low temperatures which extends the service life of the equipment, and reduces the failure rate caused by wear.

Trilogy protection from corrosion

Surface coating
Ultra weather resistant powder coating.

Anti-corrosion coating
High performance electrophoretic primer.

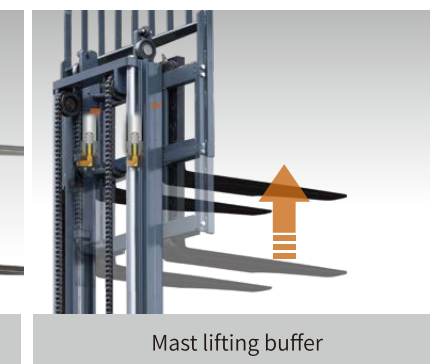
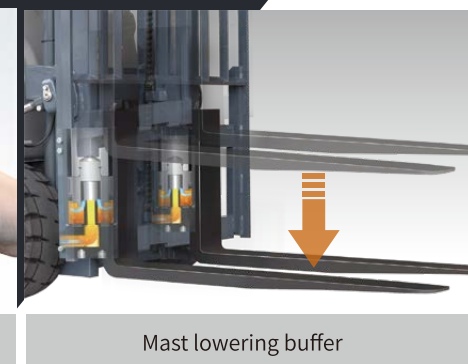
surface treatment
Oil removal and film conversion.



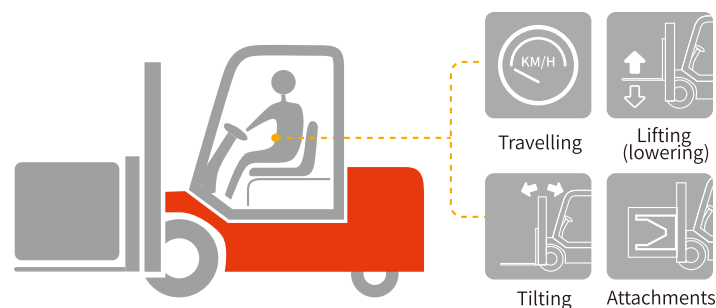
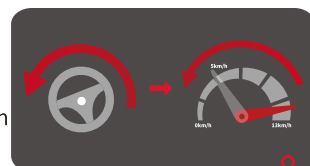
INTELLIGENT SAFETY

The product is designed with intelligent security as its core and has multiple advanced security technologies.

- Electric brake and wet type brake offer dual protections.
- Intelligent differential speed of left and right motors
- Hydraulic pipeline anti-burst protection, forward tilt self-locking protection
- Electrical multiple protection: dual wire system, short circuit protection, overheating protection, low battery protection, sequential protection
- Parking safety reminder
- Slope sliding reminder
- Reverse handle with horn



- Dual core controller
- Automatic deceleration for steering
- OPS



OPS (operator presence system)

Unmanned self-locking
Intelligent protection



HELI smart fleet management system (optional)

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

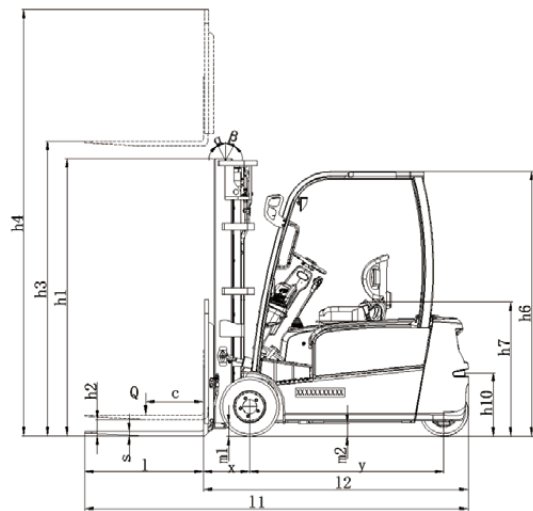


EASY MAINTENANCE

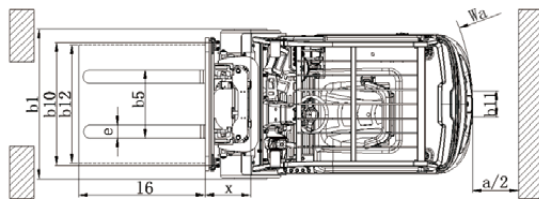
Time-saving, convenient and efficient

Manufacturer and Technical Data (Lead acid type)

Characteristics							
1.01	Manufacturer			HELI			
1.02	Model			CPD15SQ	CPD16SQ	CPD18SQ	CPD20SQ
1.03	Configuration number			A2LG3-M	A2LG3-M	A2LG3-M	A2LG3-M
1.04	Rated capacity	Q	kg	1500	1600	1800	2000
1.05	Load center distance	c	mm	500			
1.06	Power mode			Lead acid Battery			
1.07	Driving mode			Seated			
1.08	Front overhang	x	mm	367	367	367	372
1.09	Wheelbase	y	mm	1292	1400	1400	1508
Weight							
2.01	Total weight (with/without battery)		kg	3025/2330	3214/2358	3321/2465	3407/2396
2.02	Axle load (laden,front/rear)		kg	3920/605	4180/634	4500/621	4790/617
2.03	Axle load (unladen,front/rear)		kg	1420/1605	1600/1614	1600/1721	1640/1767
Tyres							
3.01	Tyre type			Solid Tyre	Solid Tyre	Solid Tyre	Solid Tyre
3.02	Tyre size,front			18×7-8	18×7-8	200/50-10	200/50-10
3.03	Tyre size,rear			140/55-9			
3.04	Number of wheels, front/rear (x= drive wheels)			2×/2			
3.05	Tread, front	b10	mm	920	920	930	930
3.06	Tread, rear	b11	mm	180			
Dimensions							
4.01	Mast tilt angle (forward/backward)	α/β	°	5/7			
4.02	Height (mast lowered)	h1	mm	2025	2025	2025	2025
4.03	Free lifting height	h2	mm	85	85	85	90
4.04	Lifting height (standard)	h3	mm	3000			
4.05	Max. height,extended (with backrest)	h4	mm	4038			
4.06	Height of overhead guard	h6	mm	2040			
4.07	Seat height relating to SIP (to ground)	h7	mm	1042			
4.08	Towing coupling height	h10	mm	482			
4.09	Overall length (with fork)	l1	mm	2762	2870	2870	2983
4.10	Overall length (without fork)	l2	mm	1842	1950	1950	2063
4.11	Overall width	b1	mm	1076	1076	1120	1120
4.12	Fork size:thickness x width x length	s/e/l	mm	35×100×920	35×100×920	35×100×920	40×122×920
4.13	Fork carriage,according to ISO2328			2A			
4.14	Distance across fork-arms, Max./Min.	b5	mm	960/200	960/200	960/200	1030/200
4.15	Ground clearance (at mast)	m1	mm	90			
4.16	Ground clearance (center of wheelbase)	m2	mm	100			
4.17	Right angle stacking aisle width for pallet1000 x1200mm crossways	Ast	mm	3163	3271	3271	3389
4.18	Right angle stacking aisle width for pallet800 x1200mm lengthways	Ast	mm	3286	3394	3394	3513
4.19	Outside turning radius	Wa	mm	1477	1585	1585	1699
Performance Data							
5.01	Travel speed (laden/unladen)		km/h	16/16	16/16	16/16	16/16
5.02	Lift speed (laden/unladen)		mm/s	380/600	430/600	430/600	400/600
5.03	Lowering speed (laden/unladen)		mm/s	470/500			
5.04	Max.drawbar pull (laden)		N	14000	15000	16000	16800
5.05	Max.gradeability (laden/unladen)		%	20/20	20/20	20/20	20/20
5.06	Acceleration time(10 m)(laden/unladen)		s	5.4/5	5.4/5	5.4/5	5.4/5
Battery							
6.01	Battery voltage/Capacity		V/Ah	48/440	48/600	48/600	48/720
6.02	Battery weight		kg	695	856	856	1011
6.03	Battery to DIN 43531/35/36/A/B/CDIN			43531A			
Motor and controller							
7.01	Driving motor powering (S2-60min)		kW	5.4×2	5.4×2	5.4×2	5.4×2
7.02	Lifting motor powering (S3-15%)		kW	15	15	15	15
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	Relief pressure		Mpa	17.5	17.5	22.5	22.5



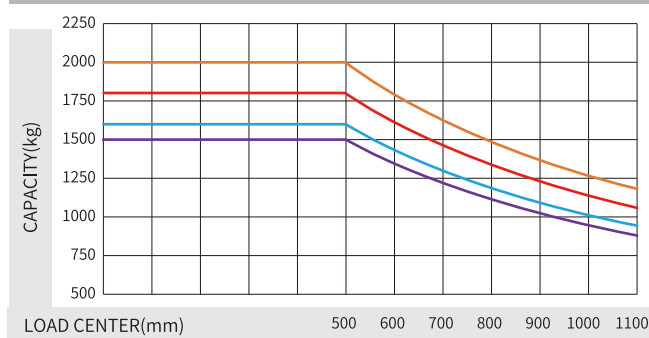
Ast: right angle stacking aisle width
a: clearance 200mm



Manufacturer and Technical Data(Lithium type)

Characteristics			HELI				
1.01	Manufacturer			CPD15SQ	CPD16SQ	CPD18SQ	CPD20SQ
1.02	Model			A2LiLG3-M	A2LiLG3-M	A2LiLG3-M	A2LiLG3-M
1.03	Configuration number			1500	1600	1800	2000
1.04	Rated capacity	Q	kg				
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	367	367	367	372
1.09	Wheelbase	y	mm	1292	1292	1292	1400
Weight							
2.01	Total weight (with/without battery)		kg	2930/2650	3030/2750	3180/2900	3240/2960
2.02	Axle load (laden,front/rear)		kg	3870/560	4035/595	4375/605	4600/640
2.03	Axle load (unladen,front/rear)		kg	1365/1565	1360/1670	1365/1815	1360/1800
Tyres							
3.01	Tyre type			Solid Tyre	Solid Tyre	Solid Tyre	Solid Tyre
3.02	Tyre size,front			18×7-8	18×7-8	200/50-10	200/50-10
3.03	Tyre size,rear					140/55-9	
3.04	Number of wheels, front/rear (x= drive wheels)					2×/2	
3.05	Tread, front	b10	mm	920	920	930	930
3.06	Tread, rear	b11	mm			205	
Dimensions							
4.01	Mast tilt angle (forward/backward)	α/β	°			5/7	
4.02	Height (mast lowered)	h1	mm	2025	2025	2025	2025
4.03	Free lifting height	h2	mm	85	85	85	90
4.04	Lifting height (standard)	h3	mm			3000	
4.05	Max. height,extended (with backrest)	h4	mm			4038	
4.06	Height of overhead guard	h6	mm			2040	
4.07	Seat height relating to SIP (to ground)	h7	mm			1042	
4.08	Towing coupling height	h10	mm			482	
4.09	Overall length (with fork)	l1	mm	2810	2825	2855	2975
4.10	Overall length (without fork)	l2	mm	1890	1905	1935	2055
4.11	Overall width	b1	mm	1076	1076	1120	1120
4.12	Fork size:thickness x width x length	s/e/l	mm	35×100×920	35×100×920	35×100×920	40×122×920
4.13	Fork carriage,according to ISO2328					2A	
4.14	Distance across fork-arms, Max./Min.	b5	mm	960/200	960/200	960/200	1030/200
4.15	Ground clearance (at mast)	m1	mm			90	
4.16	Ground clearance (center of wheelbase)	m2	mm			100	
4.17	Right angle stacking aisle width for pallet1000 x1200mm crossways	Ast	mm	3200	3220	3250	3370
4.18	Right angle stacking aisle width for pallet800 x1200mm lengthways	Ast	mm	3330	3350	3380	3500
4.19	Outside turning radius	Wa	mm	1515	1530	1560	1675
Performance Data							
5.01	Travel speed (laden/unladen)		km/h	16/16	16/16	16/16	16/16
5.02	Lift speed (laden/unladen)		mm/s	450/600	430/600	430/600	400/600
5.03	Lowering speed (laden/unladen)		mm/s			470/500	
5.04	Max.drawbar pull (laden)		N	13500	13500	14000	14000
5.05	Max.gradeability (laden/unladen)		%	20	20	20	20
5.06	Acceleration time(10 m)(laden/unladen)		s	5.4/5	5.4/5	5.4/5	5.4/5
Battery							
6.01	Battery voltage/Capacity		V/Ah	80/202	80/202	80/202	80/202
6.02	Battery weight		kg	280	280	280	280
Motor and controller							
7.01	Driving motor powering (S2-60min)		kW	5.5×2	5.5×2	5.5×2	5.5×2
7.02	Lifting motor powering (S3-15%)		kW	16.5	16.5	16.5	16.5
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	Relief pressure		Mpa		17.5	22.5	22.5

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.

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	1.6t	1.8t	2t		1.5-2t	1.5-1.8t	2t	Lead acid type				Lithium type			
Wide View Standard Mast	M200	2000	1500	1600	1800	2000	1525	85	90	2959	3148	3255	3341	2864	2964	3114	3174	5/7
	M250	2500	1500	1600	1800	2000	1775	85	90	2992	3181	3288	3374	2897	2997	3147	3207	5/7
	M300	3000	1500	1600	1800	2000	2025	85	90	3025	3214	3321	3407	2930	3030	3180	3240	5/7
	M330	3300	1500	1600	1800	2000	2175	85	90	3045	3234	3341	3427	2950	3050	3200	3260	5/7
	M350	3500	1500	1600	1800	2000	2275	85	90	3058	3247	3354	3440	2963	3063	3213	3273	5/7
	M370	3700	1500	1600	1800	2000	2375	85	90	3072	3261	3368	3454	2977	3077	3227	3287	5/7
	M400	4000	1500	1600	1800	2000	2575	85	90	3123	3312	3419	3505	3028	3128	3278	3338	3/5
	M425	4250	1500	1600	1750	1900	2700	85	90	3140	3329	3436	3522	3045	3145	3295	3355	3/5
	M450	4500	1400	1500	1700	1850	2825	85	90	3156	3345	3452	3538	3061	3161	3311	3371	3/5
	M500	5000	1300	1400	1600	1700	3075	85	90	3215	3404	3511	3597	3120	3220	3370	3430	3/3
Wide View Full Free 2-Stage Mast	ZM200	2000	1500	1600	1800	2000	1525	510	515	2953	3142	3249	3335	2858	2958	3108	3168	5/7
	ZM250	2500	1500	1600	1800	2000	1775	760	765	2984	3173	3280	3366	2889	2989	3139	3199	5/7
	ZM300	3000	1500	1600	1800	2000	2025	1010	1015	3015	3204	3311	3397	2920	3020	3170	3230	5/7
	ZM330	3300	1500	1600	1800	2000	2175	1160	1165	3033	3222	3329	3415	2938	3038	3188	3248	5/7
	ZM350	3500	1500	1600	1800	2000	2275	1260	1265	3045	3234	3341	3427	2950	3050	3200	3260	5/7
	ZM370	3700	1500	1600	1800	2000	2375	1360	1365	3057	3246	3353	3439	2962	3062	3212	3272	5/7
	ZM400	4000	1500	1600	1800	2000	2575	1560	1565	3107	3296	3403	3489	3012	3112	3262	3322	3/5
Wide View Full Free 3-Stage Mast	ZSM360	3600	1500	1600	1800	2000	1790	781	786	3134	3323	3430	3516	3039	3139	3289	3349	3/5
	ZSM400	4000	1500	1600	1800	2000	1925	916	921	3163	3352	3459	3545	3068	3168	3318	3378	3/5
	ZSM435	4350	1400	1500	1700	1900	2040	1031	1036	3183	3372	3479	3565	3088	3188	3338	3398	3/5
	ZSM450	4500	1400	1500	1700	1850	2090	1081	1086	3193	3382	3489	3575	3098	3198	3348	3408	3/5
	ZSM470	4700	1350	1450	1650	1750	2160	1151	1156	3207	3396	3503	3589	3112	3212	3362	3422	3/5
	ZSM480	4800	1350	1450	1650	1750	2190	1181	1186	3213	3402	3509	3595	3118	3218	3368	3428	3/5
	ZSM500	5000	1200	1300	1600	1700	2290	1281	1286	3233	3422	3529	3615	3138	3238	3388	3448	3/3
	ZSM540	5400	1050	1150	1250	1400	2425	1416	1421	3262	3451	3558	3644	3167	3267	3417	3477	3/3
	ZSM600	6000	800	900	1000	1100	2640	1631	1636	3347	3536	3643	3729	3252	3352	3502	3562	3/3
	ZSM650	6500	700	800	900	1000	2830	1821	1826	3381	3570	3677	3763	3286	3386	3536	3596	3/3

Note: **Wide View Full Free 2-Stage Mast:**When there is no backrest, the free lifting height increases by 449mm.
Wide View Full Free 3-Stage Mast:When there is no backrest, the free lifting height increases by 449mm.

LITHIUM BATTERY, CHARGER						
Lithium battery band		HELI			ENEROC	
Voltage/capacity		80V/202Ah	80V/280Ah	80V/404Ah	80V/228Ah	80V/302Ah 80V/346Ah
CPD15/16/18SQ		●	○	—	○	○ —
CPD20SQ		●	○	○	○	○ ○
Low temperature heating fo lithium battery		●				
Charger		D80V100ALi-125/D80V100ALi-425/D80V200ALi-123/D80V200ALi-423				

Note:● Standard ○ Optional —Non-configurable

LEAD ACID BATTERY										
Voltage/capacity	48V/400Ah	48V/440Ah	48V/480Ah	48V/500Ah	48V/550Ah	48V/600Ah	48V/625Ah	48V/660Ah	48V/720Ah	48V/750Ah
1.5t	○	●	○	○	—	—	—	—	—	—
1.6t	—	—	—	—	○	●	○	—	—	—
1.8t	—	—	—	—	○	●	○	—	—	—
2.0t	—	—	—	—	—	—	—	○	●	○

Note:● Standard ○ Optional —Non-configurable

Optional item		
Safety items	Steering speed limit	●
	Reverse handle with horn	●
	OPS	●
	Safety protecting function of multiway valve overload	●
	Reverse buzzer	●
	Upper buffering	●
	Central wide-angle rearview mirror	●
	Rearview mirrors on two sides	○
	Front protective net	●
	Seat with safety belt	○
	Dry powder fire extinguisher (0.5kg)	○
	Dry powder fire extinguisher (2kg)	○
	Reverse Chinese voice speaker	○
	Reversing parking sensor (4 probes)	○
Comfort items	Reversing image(1 camera+ 4 probes)	○
	Built-in headlight	●
	Headlight external	○
	Semi-enclosed seat	●
	USB (5V/1A)	●
	Steering with steering wheel start	●
	Mechanical operation valve	●
Cab / Windshield glass	Colorful instrument	●
	Full suspension seat	○
	Fan	○
Lights	Rear windshield	○
	Top windshield	○
	LED lights	●
	LED flickering warning lights	●
	LED rear working light	○
	Front LED red/blue spotlight	○
	Rear LED red/blue spotlight	○
Others	Red/blue strip lights on rear and bilateral sides	○
	LED rotating warning light	○
	LED rotating and beep warning light	○
	Metric thread	●
	Solid tyre	●
	Solid tyre without travelling marking	○
	Sleeve for tilting cylinder	○
FCIS		●

Note : “●”Standard ; “○”Optional