

Optional		
Safety equipments	Speed limiting during steering	●
	Reversing handle with horn	●
	OPS	●
	Safety protecting function of multiway valve overload	●
	Reverse buzzer	●
	Electronic upper buffering	●
	Central wide-angle rearview mirror	●
	Rearview mirrors on two sides	○
	Front protective net	○
	Seat with belt switch	○
	Dry powder fire extinguisher (0.5kg)	○
	Dry powder fire extinguisher (2kg)	○
	Reverse Chinese voice speaker	○
	Reversing radar (with 4 probes)	○
	Revsing image (1 camear+4 probes)	○
Comfortable equipments	Semi-enclosed seat	●
	USB	●
	Start actovated by steering wheel	●
	Mechanical operation valve	●
	Colorful meter	●
	Full suspension seat	○
	Electromagnetic operation valve	○
	Fan	○
Equipments for driving/ Equipments for windshield	Heater	○
	Panel-mounted cab	○
	Rear windshield	○
	Rear windshield	○
Lights	Top windshield	○
	LED lights	●
	LED flickering warning ligh	●
	Rear LED light	○
	Rear LED red/blue spotlight	○
	Bilateral and rear red/blue strip light	○
	LED rotating warning light	○
Others	LED rotating buzzing warning light	○
	Metric thread	●
	Automatic water adding	○
	Solid tyre	●
	No-marking solid tyre	○
	Sleeve for tilting cylinder	○
	HELI FICS system	○

Note: “●” standard; “○” optional;

CPD15/16/  
18/20SQ  
A2(P)G3-M



1.5-2 t  
G3 series front-wheel dual drive  
three wheel battery powered forklift truck

ГРУППА КОМПАНИЙ

**FORKLIFT**

**8 (800) 550-22-75**  
(Звонок по России бесплатный)

[forkliftsib.ru](http://forkliftsib.ru)

Новосибирск, ул. Станционная, 17/1  
(383) 291-22-75, [sale@helisib.ru](mailto:sale@helisib.ru)

Томск, переулок Никольский, 1  
(3822) 977-600, [tomsk@helisib.ru](mailto:tomsk@helisib.ru)



G3  
SERIES

HELI



**Powerful** >>>  
>>> **And Flexible**

The truck has high-end  
Appearance and  
Beautiful colors;  
Excellent performance

Comfortable and energy-saving  
The truck provides users with the  
Best comfortable driving experience.  
Advanced energy-saving technology makes  
The truck more environment friendly.

G3 series family design elements

Sheet metal stamping type  
side cover, side door

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.



**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 **1.48m.**

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

The mast is durable and reliable which has undergone 80000 times fatigue test.



Side mounted battery offers more efficient replacement and maintenance.

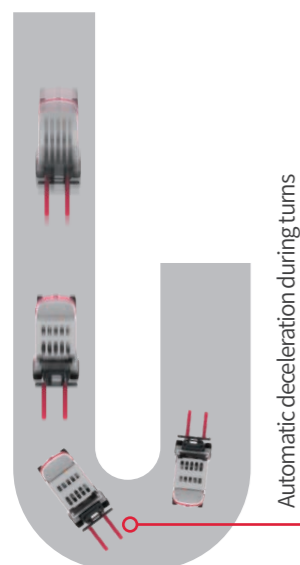
- Dual Core Controller
- Upper and lower mast buffer
- Automatic deceleration during turns
- OPS
- Electric service braking and wet type service braking offer dual protection.
- Intelligent differential speed of left and right motors.
- Reinforced cast steering axle is mature and reliable.
- The optimized design of the mast stress improves overall performance and effectively ensures work safety.



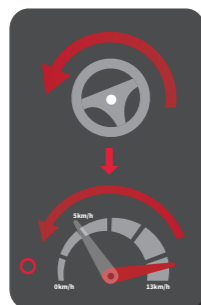
The entire truck and its components meet the latest CE & UKCA requirements.



Ratchet type hand brake is safe and reliable.



Automatic deceleration during turns



OPS (operator presence system)



Unmanned self-locking  
Intelligent protection



Travelling



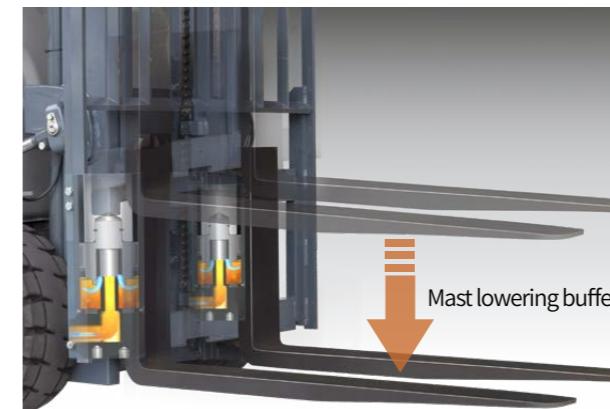
Lifting (lowering)



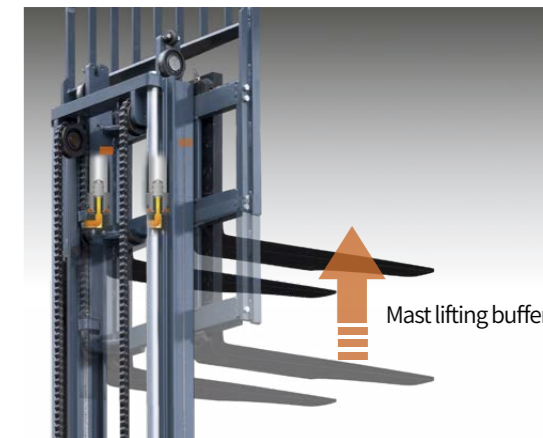
Tilting



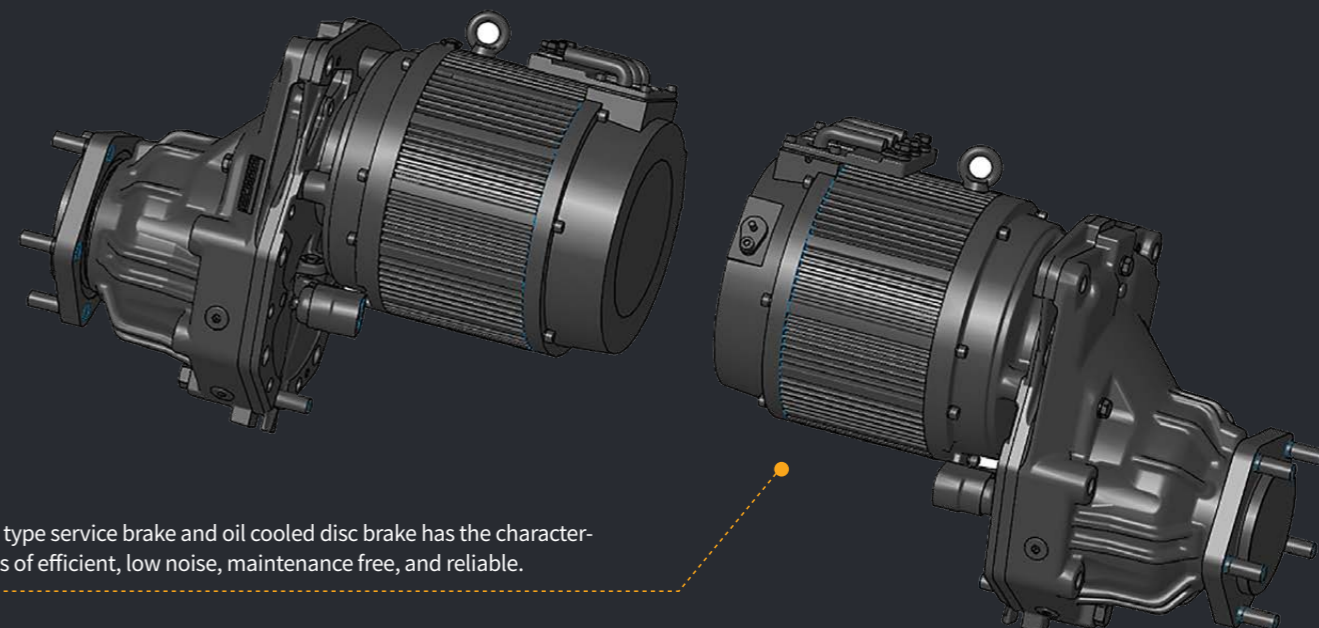
Attachments



Mast lowering buffer



Mast lifting buffer



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

### Strict test

## Rain test, reliability enhancement test, vibration test, bumps test



### Rain test

the truck reaches to IPX4 protection level after simulating operation under 15 min rainstorm and it meets outdoor operation requirements.



### Vibration test

Conduct vibration frequency testing on the truck to optimize and improve operational comfort.



### Reliability enhancement test

The truck undergoes 800 hours of enhancement test (including climbing, rain exposure, bumpy road surfaces, etc.).

**Intelligent safety technology:**  
The truck is designed with intelligent safety as its core and possesses multiple advanced safety technologies.

- Dual Core Controller.
- Upper and lower mast buffering.
- Automatic deceleration during turns.
- OPS.
- Electric service braking and wet type service braking offer dual protection.
- Intelligent differential speed of left and right motors.
- Hydraulic tube burst protection, forward tilt self-locking protection.
- Electrical multiple protection: dual wire system, short circuit protection.
- Overheat protection, low battery protection, sequential protection.
- Parking safety reminder.
- Reminder for slow slope sliding on the slope.
- Reverse horn handle.



**Easy Maintenance;**  
Time-saving, convenient and efficient

Battery side pulling offers easy and fast replacing.



Electric control/main electrical components are located on the balance weight for efficient maintenance.



#### HELI smart fleet management system

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



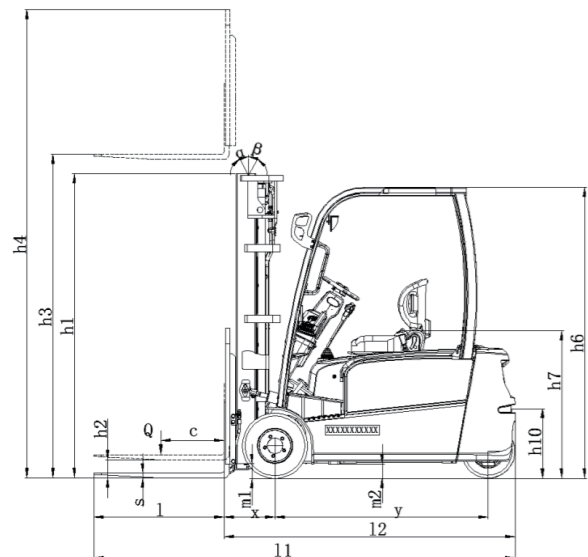
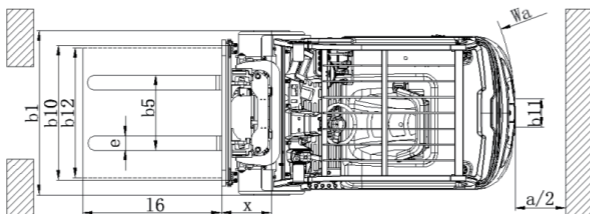
The hydraulic oil tank is located on the left side for easy filling and checking.



Maintenance-free steering axle

Manufacturer and Technical Data						
Characteristics						
1.01 Manufacturer						
1.02 Model			CPD15SQ	CPD16SQ	CPD18SQ	CPD20SQ
1.03 Configuration number			A2(P)G3-M	A2(P)G3-M	A2(P)G3-M	A2(P)G3-M
1.04 Rated capacity	Q	kg	1500	1600	1800	2000
1.05 Load center distance	c	mm	500	500	500	500
1.06 Power mode				Battery		
1.07 Driving mode				seated		
1.08 Front overhang	x	mm	368	368	368	373
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	Solid	Solid	Solid
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 Wheels,number front/rear (x=driven 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 Min. 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/C				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

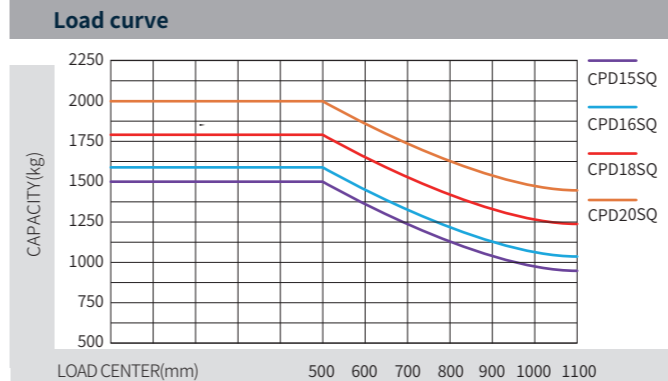
NOTE: "P" Battery side loading.

Ast: Right angle stacking aisle width  
a: Clearance 200mm

1.5t/1.6t/1.8t/2t Wide View Standard Mast														
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 tilting angle (°) α/β
			1.5t	1.6t	1.8t	2t		1.5-1.8t	2t	1.5t	1.6t	1.8t	2t	
WIDE VIEW MAST	M200	2000	1500	1600	1800	2000	1525	85	90	2959	3148	3255	3341	5/7
	M250	2500	1500	1600	1800	2000	1775	85	90	2992	3181	3288	3374	5/7
	M300	3000	1500	1600	1800	2000	2025	85	90	3025	3214	3321	3407	5/7
	M330	3300	1500	1600	1800	2000	2175	85	90	3045	3234	3341	3427	5/7
	M350	3500	1500	1600	1800	2000	2275	85	90	3058	3247	3354	3440	5/7
	M370	3700	1500	1600	1800	2000	2375	85	90	3072	3261	3368	3454	5/7
	M400	4000	1500	1600	1800	2000	2575	85	90	3123	3312	3419	3505	3/5
	M425	4250	1500	1600	1750	1900	2700	85	90	3140	3329	3436	3522	3/5
	M450	4500	1400	1500	1700	1850	2825	85	90	3156	3345	3452	3538	3/5
	M500	5000	1300	1400	1600	1700	3075	85	90	3215	3404	3511	3597	3/3
WIDE VIEW FULL FREE 2-STAGE MAST	ZM200	2000	1500	1600	1800	2000	1525	510	515	2953	3142	3249	3335	5/7
	ZM250	2500	1500	1600	1800	2000	1775	760	765	2984	3173	3280	3366	5/7
	ZM300	3000	1500	1600	1800	2000	2025	1010	1015	3015	3204	3311	3397	5/7
	ZM330	3300	1500	1600	1800	2000	2175	1160	1165	3033	3222	3329	3415	5/7
	ZM350	3500	1500	1600	1800	2000	2275	1260	1265	3045	3234	3341	3427	5/7
	ZM370	3700	1500	1600	1800	2000	2375	1360	1365	3057	3246	3353	3439	5/7
	ZM400	4000	1500	1600	1800	2000	2575	1560	1565	3107	3296	3403	3489	3/5
	ZSM360	3600	1500	1600	1800	2000	1790	781	786	3134	3323	3430	3516	3/5
	ZSM400	4000	1500	1600	1800	2000	1925	916	921	3163	3352	3459	3545	3/5
	ZSM435	4350	1400	1500	1700	1900	2040	1031	1036	3183	3372	3479	3565	3/5
WIDE VIEW FULL FREE 3-STAGE MAST	ZSM450	4500	1400	1500	1700	1850	2090	1081	1086	3193	3382	3489	3575	3/5
	ZSM470	4700	1350	1450	1650	1750	2160	1151	1156	3207	3396	3503	3589	3/5
	ZSM480	4800	1350	1450	1650	1750	2190	1181	1186	3213	3402	3509	3595	3/5
	ZSM500	5000	1200	1300	1600	1700	2290	1281	1286	3233	3422	3529	3615	3/3
	ZSM540	5400	1050	1150	1250	1400	2425	1416	1421	3262	3451	3558	3644	3/3
	ZSM600	6000	800	900	1000	1100	2640	1631	1636	3347	3536	3643	3729	3/3
	ZSM650	6500	700	800	900	1000	2830	1821	1826	3381	3570	3677	3763	3/3

Note: Full free 2-stage mast: the free lifting height increases by 449mm without backrest.  
Full free 3-stage mast: the free lifting height increases by 449mm without backrest.

Battery Configuration Chart							
Voltage/Capacity	48V/440Ah	48V/480Ah	48V/500Ah	48V/600Ah	48V/625Ah	48V/720Ah	48V/750Ah
1.5t	●	○	○	—	—	—	—
1.6t	—	—	—	●	○	—	—
1.8t	—	—	—	●	○	—	—
2.0t	—	—	—	—	—	●	○



**Note:** The vertical axis stands for load capacity while 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 the mast is tilted forward, the worker using nonstandard forks for 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.

Configurations			
For safety	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)		○
	Reversing image( 1 camera+ 4 probes)		○
For driving comfort	Semi-enclosed seat		●
	USB (5V/1A)		●
	Steering with steering wheel start		●
	Mechanical operation valve		●
	Colorful instrument		●
	Full suspension seat		○
	Electromagnetic operated valve		○
	Fan		○
	Heater		○
			○
For cab/windshield	Panel mounted cab		○
	Front windshield		○
	Rear windshield		○
	Top windshield		○
For lighting	LED lights		●
	LED flickering warning lights		●
	LED rear working light		○
	LED red/blue rear working light		○
	Red/blue strip lights on rear and bilateral sides		○
	LED rotating warning light		○
	LED rotating and beep warning light		○
Others	Metric thread		●
	Solid tyre		●
	Solid tyre without travelling marking		○
	Sleeve for tilting cylinder		○
	FCIS		●

Note: “●” standard; “○” optional;

CPD15/16/  
18/20SQ  
A2LiG3-M



1.5-2 t  
G3 series front wheel dual drive  
lithium battery truck (three wheel)



ANHUI HELI CO., LTD.  
Add / No.668, FangXing Road, Hefei, China  
Fax / +86-551-63639966  
Tel / +86-551-63639068(America); 63639258(Europe);  
63639358(Asia); 63662105(Africa & Middle East)



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# POWERFUL AND FLEXIBLE

 Comfort and energy saving

 Stable and Reliable

 Intelligent security

 Convenient maintenance

## 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



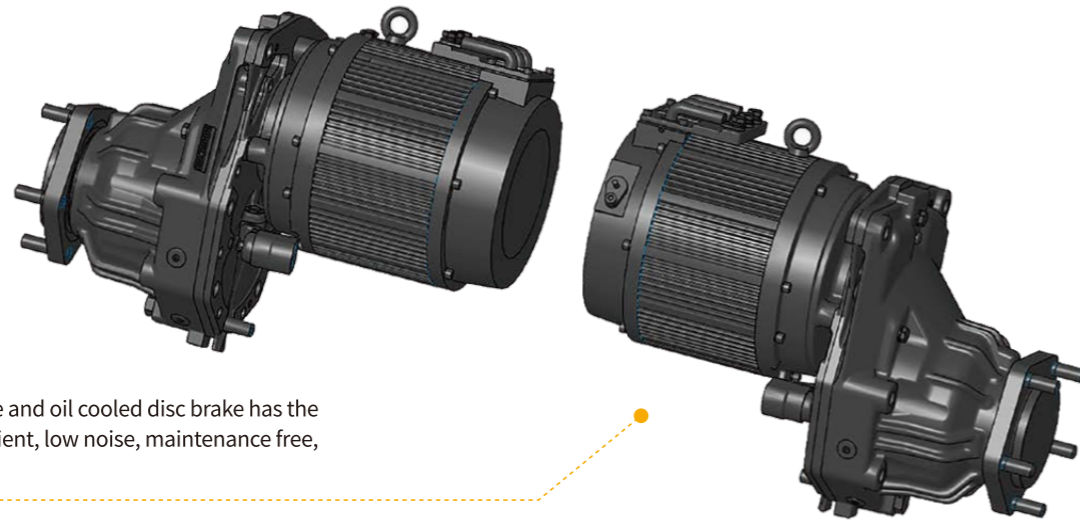
Good bearing capacity  
at high position



**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.



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.

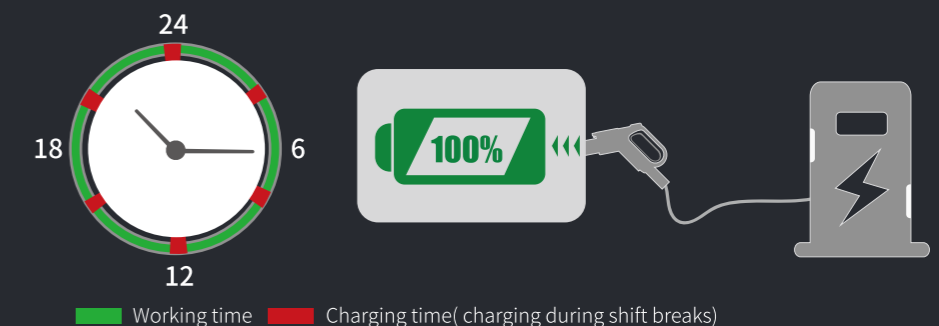
## OPERATING COSTS:

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.

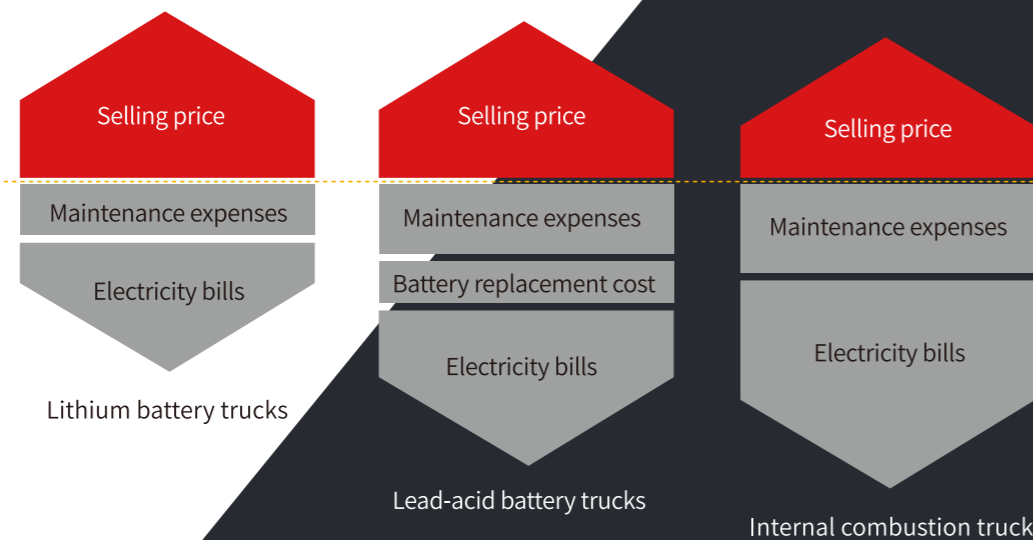
## FAST CHARGING AND ULTRA LONG BATTERY LIFE

- 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.



Explicit cost

Hidden cost



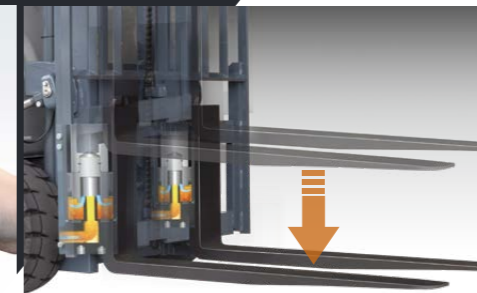
## INTELLIGENT SAFETY

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

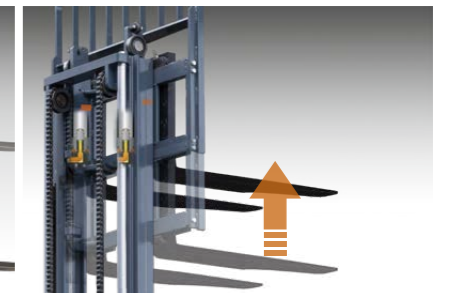
- Electric brake and wet type brake offer dual protections.
- Intelligent differential speed of left and right motors
- Hydraulic pipeline anti-burst protection, forward tilt self-locking protection
- Electrical multiple protection: dual wire system, short circuit protection, overheating protection,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



The integrated card swiping function of the instrument meets the requirements of TSG 81.

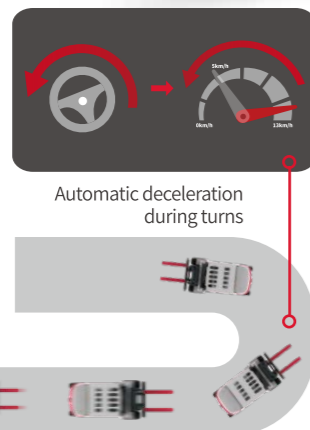


Mast lowering buffer

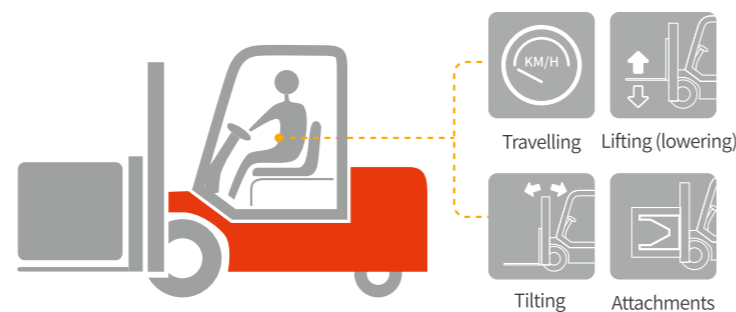


Mast lifting buffer

- Dual core controller
- Automatic deceleration for steering
- OPS



Automatic deceleration during turns



OPS (operator presence system)

Unmanned self-locking intelligent protection



The hydraulic oil tank is located on the left side for easy filling and checking.



Maintenance-free steering axle

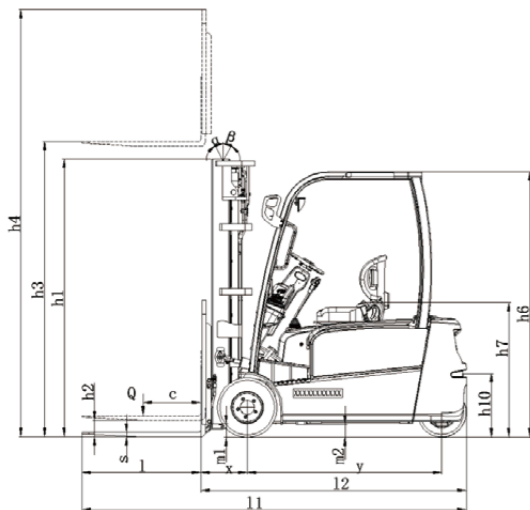
### Heli Intelligent Fleet Management System (Standard Domestic Basic Edition)

Truck positioning	Statistics report
Remote diagnosis	Truck management
Remote monitoring	Identity recognition
Maintenance remind	Weighing management (optional)
Battery management	Collision management (optional)

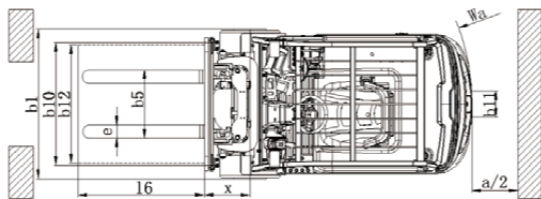


**EASY MAINTENANCE**  
Time-saving, convenient and efficient

Manufacturer and Technical Data						
Characteristics						
1.01	Manufacturer				HELI	
1.02	Model			CPD15SQ	CPD16SQ	CPD18SQ
1.03	Configuration number			A2LiG3-M	A2LiG3-M	A2LiG3-M
1.04	Rated capacity	Q	kg	1500	1600	1800
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
1.09	Wheelbase	y	mm	1292	1292	1292
Weight						
2.01	Total weight (with/without battery)		kg	2930/2650	3030/2750	3180/2900
2.02	Axle load (laden,front/rear)		kg	3870/560	4035/595	4375/605
2.03	Axle load (unladen,front/rear)		kg	1365/1565	1360/1670	1365/1815
Tyres						
3.01	Tyre type			Solid tyre	Solid tyre	Solid tyre
3.02	Tyre size,front			18×7-8	18×7-8	200/50-10
3.03	Tyre size,rear			140/55-9		
3.04	Wheels,number front/rear(x=driven wheels)			2×/2		
3.05	Tread, front	b10	mm	920	920	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	2000	2000	2000
4.03	Free lifting height	h2	mm	105	105	110
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	2820	2835	2865
4.10	Overall length (without fork)	l2	mm	1900	1915	1945
4.11	Overall width	b1	mm	1076	1076	1120
4.12	Fork size:thickness x width x length	s/e/l	mm	35×100×920	35×100×920	35×100×920
4.13	Fork carriage,according to ISO2328			2A		
4.14	Distance across fork-arms, Max./Min.	b5	mm	960/200	960/200	960/200
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
4.18	Right angle stacking aisle width for pallet800 x1200mm lengthways	Ast	mm	3330	3350	3380
4.19	Min. outside turning radius	Wa	mm	1515	1530	1560
Performance Data						
5.01	Travel speed (laden/unladen)		km/h	16/16	16/16	16/16
5.02	Lift speed (laden/unladen)		mm/s	450/600	430/600	430/600
5.03	Lowering speed (laden/unladen)		mm/s	470/500		
5.04	Max.drawbar pull (laden)		N	13500	13500	14000
5.05	Max.gradeability (laden/unladen)		%	20	20	20
5.06	Acceleration time(10 m)(laden/unladen)		s	5.4/5	5.4/5	5.4/5
Battery						
6.01	Battery voltage/Capacity		V/Ah	80/202	80/202	80/202
6.02	Battery weight		kg	280	280	280
Motor and controller						
7.01	Driving motor powering (S2-60min)		kW	5.5×2	5.5×2	5.5×2
7.02	Lifting motor powering (S3-15%)		kW	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	17.5	22.5



Ast: Right angle stacking aisle width  
a: Clearance 200mm



### 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 tilting angle(°) α/β
		1.5t	1.6t	1.8t	2t		1.5-2t	1.5-1.8t	2t	1.5t	1.6t	1.8t	2t
M200	2000	1500	1600	1800	2000	1500	105	110	2959	3148	3255	3341	5/7
M250	2500	1500	1600	1800	2000	1750	105	110	2992	3181	3288	3374	5/7
M300	3000	1500	1600	1800	2000	2000	105	110	3025	3214	3321	3407	5/7
M330	3300	1500	1600	1800	2000	2150	105	110	3045	3234	3341	3427	5/7
M350	3500	1500	1600	1800	2000	2250	105	110	3058	3247	3354	3440	5/7
M370	3700	1500	1600	1800	2000	2350	105	110	3072	3261	3368	3454	5/7
M400	4000	1500	1600	1800	2000	2550	105	110	3123	3312	3419	3505	3/5
M425	4250	1500	1600	1750	1900	2675	105	110	3140	3329	3436	3522	3/5
M450	4500	1400	1500	1700	1850	2800	105	110	3156	3345	3452	3538	3/5
M500	5000	1300	1400	1600	1700	3050	105	110	3215	3404	3511	3597	3/3

### 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 tilting angle(°) α/β
		1.5t	1.6t	1.8t	2t		1.5-2t	1.5-1.8t	2t	1.5t	1.6t	1.8t	2t
ZM200	2000	1500	1600	1800	2000	1500	477	482	2953	3142	3249	3335	5/7
ZM250	2500	1500	1600	1800	2000	1750	727	732	2984	3173	3280	3366	5/7
ZM300	3000	1500	1600	1800	2000	2000	977	982	3015	3204	3311	3397	5/7
ZM330	3300	1500	1600	1800	2000	2150	1127	1132	3033	3222	3329	3415	5/7
ZM350	3500	1500	1600	1800	2000	2250	1227	1232	3045	3234	3341	3427	5/7
ZM370	3700	1500	1600	1800	2000	2350	1327	1332	3057	3246	3353	3439	5/7
ZM400	4000	1500	1600	1800	2000	2550	1527	1532	3107	3296	3403	3489	3/5

Note: the free lifting height increases by 449mm 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 tilting angle(°) α/β
		1.5t	1.6t	1.8t	2t		1.5-2t	1.5-1.8t	2t	1.5t	1.6t	1.8t	2t
ZSM360	3600	1500	1600	1800	2000	1750	727	732	3134	3323	3430	3516	3/5
ZSM400	4000	1500	1600	1800	2000	1900	877	882	3163	3352	3459	3545	3/5
ZSM435	4350	1400	1500	1700	1900	2000	977	982	3183	3372	3479	3565	3/5
ZSM450	4500	1400	1500	1700	1850	2050	1027	1032	3193	3382	3489	3575	3/5
ZSM470	4700	1350	1450	1650	1750	2120	1097	1102	3207	3396	3503	3589	3/5
ZSM480	4800	1350	1450	1650	1750	2150	1127	1132	3213	3402	3509	3595	3/5
ZSM500	5000	1200	1300	1600	1700	2250	1227	1232	3233	3422	3529	3615	3/3
ZSM540	5400	1050	1150	1250	1400	2400	1377	1382	3262	3451	3558	3644	3/3
ZSM600	6000	800	900	1000	1100	2675	1652	1657	3347	3536	3643	3729	3/3
ZSM650	6500	700	800	900	1000	2850	1827	1832	3381	3570	3677	3763	3/3

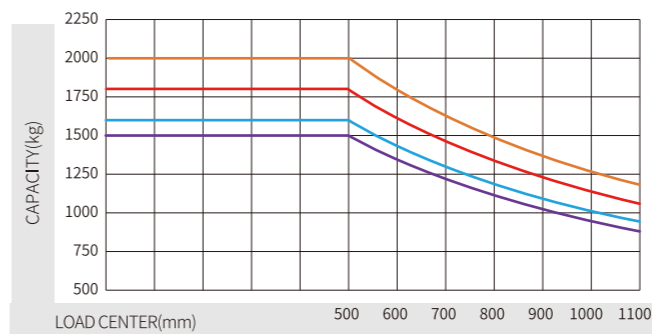
Note: the free lifting height increases by 449mm without backrest.

### Lithium battery charger

Lithium battery brand	HEDING			ENEROC					
Voltage/Capacity	202	280	404	200	228	268	302	346	400
CPD15/16/18SQ	●	○	—	○	○	○	○	—	—
CPD20SQ	●	○	○	○	○	○	○	○	○
Low temperature heating of lithium battery	●								
Charger	D80V200ALi-123 (Charging gun) /D80V200ALi-423 (Charging gun)								

Note: ● standard ○ optional — non-configurable

### Load curve



**Note:**The vertical axis stands for load capacity while 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 the mast is tilted forward, the worker using nonstandard forks for 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.