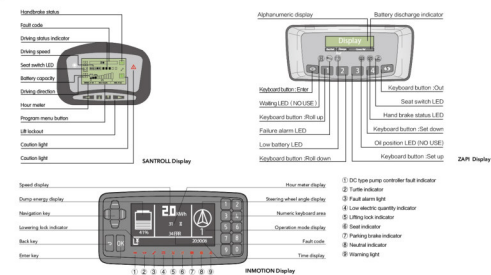


Reliable special designed instrument



Charger technology



- High Efficiency  
Charging efficiency higher than 93%, meeting the requirements of energy saving and emissions reduction
- Speediness  
100% charging realized in 63mins at the soonest.
- Compatibility  
48 v / 80 v compatibility meeting the demand of different voltage levels.
- Safety  
Built-in mis-connecting protection offering self locking function under fault; Perfect fault self checking alarm facilitating users maintenance.

standard configuration

- Wide view basic mast
  - Standard fork
  - 9 (30) slope fork carriage
  - Backrest
  - Control valve
  - Battery
  - Standard seat
  - Overhead guard
  - Overhead guard rain cover
  - LCD dashboard
  - Pneumatic tyre (1-3)
  - solid tyre (3-3)
  - Traction pin
  - Tail horn
  - LED lamp strobe caution light
  - Rear driving handle with horn button
- Carpet boom
  - Driver's cab
  - 1 (30) slope fork carriage
  - Lifting boom
  - Tip-over fork
  - Back view mirror
  - Sides shifting
  - Paper roll clamp
  - Warning light (flashing or buzzing)
  - solid tyre (1-3)
  - Rear working light
  - Road protection net
  - Multipurpose drum clamp
  - Load discharge
  - Wider fork carriage
  - Lengthening fork
- Load pusher
  - Fork sleeve
  - Busline clamp
  - Double tire protection device
  - Auxiliary hydraulic valve component
  - Tilting/steering cylinder cover
  - Caking tyre (yellow/green)
  - wide view two/three stage full free mast
  - Customized colour
  - Turn automatic deceleration function
  - Battery lifting sling
  - HELI smart fleet management system
  - Load discharge
  - Wider fork carriage
  - Lengthening fork

2-3.5 t **LiION**  
G series Lithium Battery Powered Counterbalanced Forklift Truck (UPGRADED)



www.heliforklift.net

G SERIES 2-3.5 t **LiION**



Environment Friendliness

- Zero emission
- Low noise
- Free of heavy metals
- No corrosion
- No acid mist volatilization

Maintenance Free

- Unnecessary of fluid adding and dust proofing
- Daily maintenance free
- Manual maintenance free

Long Service Life

- Over 75% capacity reserved after 4000 shifts operation
- Longer service life than lead-acid battery in equal working condition
- 5 years or ten thousand hours quality guarantee for high performance lithium battery assembly

High Efficiency and Energy Saving

- > 1-2hours charging meet 6-8 hours working demand
- > High-energy density, self discharging rate lower than 1% per month
- > 95% energy conversion rate, superior charging and discharging performance
- > Flexible to charge, easy to operate, no impact on battery life
- > Unnecessary to change battery, cost saving

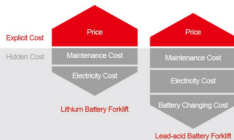


Suitable for working in both high and low environment

- Lithium battery is better than lead-acid battery when working between -25°C and 55°C

High Safety

- According to the characteristics of industrial vehicles, it achieves safety protection design which includes lithium battery materials, battery core type, pack technique and system power management
- "Multiple nodes safety closed circuit protection" realizing truck real time closed circuit protection in variable conditions
- "Lock affirming" function during charging avoiding "hot connecting and disconnecting" operation effectively
- "Whole system emergency button" to disconnect the truck control system and brms power quickly ensuring truck safety



The superiority of Heli lithium battery forklift truck is embodied in the use-cost within product lifecycle. Compared with lead-acid battery forklift truck, lithium battery forklift truck is more convenient for multiple working shifts. It has lower implicit cost and more economical total running cost.



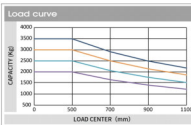
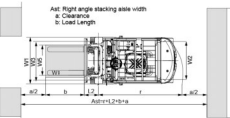
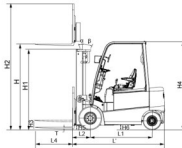
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63639530(Key Accounts Division); 63621205(Wheel loader)

Manufacturer's Data and Design Characteristics

characteristics			HELIX											
manufacturer			CPD20(NEW)			CPD25(NEW)			CPD30(NEW)			CPD35(NEW)		
1.01	model		GB2Li	GB7Li	GB2Li	GB7Li	GB2Li	GB7Li	GB2Li	GB7Li	GB2Li	GB7Li	GB2Li	GB7Li
1.02	configuration number		2000	2000	2500	2500	3000	3000	3500	3500	3500	3500	3500	3500
1.04	rated capacity	kg	2000	2000	2500	2500	3000	3000	3500	3500	3500	3500	3500	3500
1.05	load center distance	mm	500	500	500	500	500	500	500	500	500	500	500	500
1.06	power mode		lithium battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery
1.07	driving mode		seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated	seated
1.08	wheel base	mm	1550	1550	1550	1550	1715	1715	1715	1715	1715	1715	1715	1715
2.01	tyre													
2.02	tyre type		pneumatic tyre	pneumatic tyre	pneumatic tyre	pneumatic tyre	pneumatic tyre/solid	pneumatic tyre/solid	pneumatic tyre/solid	solid tyre	solid tyre	solid tyre	solid tyre	solid tyre
2.03	wheels, number front/rear (X/driven wheels)		2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
2.04	front wheel base	mm	960	960	960	1000	1000	1000	1000	1000	1000	1000	1000	1000
2.05	rear wheel base	mm	950	950	950	950	990	990	990	990	990	990	990	990
2.06	tyre (front)		23×9-10-16PR	23×9-10-16PR	23×9-10-16PR	23×9-10-16PR	28×9-15-12PR	28×9-15-12PR	28×9-15-12PR	28×9-15	28×9-15	28×9-15	28×9-15	28×9-15
2.06	tyre (rear)		18×7-8-14PR	18×7-8-14PR	18×7-8-14PR	18×7-8-14PR	200/50-10	200/50-10	200/50-10	200/50-10	200/50-10	200/50-10	200/50-10	200/50-10
3.01	front overhang	mm	425	425	425	425	485	485	485	490	490	490	490	490
3.02	rear overhang	mm	610	610	610	610	610	610	610	610	610	610	610	610
3.03	height with mast retracted	mm	1995	1995	1995	1995	2075	2075	2180	2180	2180	2180	2180	2180
3.04	free lifting height	mm	145	145	145	145	145	145	150	150	150	150	150	150
3.05	max. lifting height	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
3.06	max. height, extended	mm	4042	4042	4042	4042	4230	4230	4230	4230	4230	4230	4230	4230
3.07	overhead guard height	mm	2150	2150	2150	2150	2215	2215	2215	2215	2215	2215	2215	2215
3.08	fork size (thickness×width×length)	mm	40×122×920	40×122×920	40×122×1070	40×122×1070	45×125×1070	45×125×1070	45×125×1070	50×125×1070	50×125×1070	50×125×1070	50×125×1070	50×125×1070
3.09	fork carriage, DIN standard		2A	2A	2A	2A	3A	3A	3A	3A	3A	3A	3A	3A
3.10	truck body length (fork excluded)	mm	2270	2270	2280	2280	2525	2525	2525	2550	2550	2550	2550	2550
3.11	truck body width	mm	1185	1185	1185	1185	1245	1245	1245	1245	1245	1245	1245	1245
3.12	turning radius	mm	2000	2000	2010	2010	2240	2240	2240	2260	2260	2260	2260	2260
3.13	clearance between mast and ground	mm	110	110	110	110	135	135	135	135	135	135	135	135
3.14	clearance between wheel base center and ground (loaded)	mm	115	115	115	115	145	145	145	145	145	145	145	145
3.15	lift angle, stacking aisle with platform (lift height 2000mm)	mm	3625	3625	3635	3635	3995	3995	3995	4020	4020	4020	4020	4020
3.16	lift angle, stacking aisle with platform (lift height 2000mm)	mm	3825	3825	3835	3835	4125	4125	4125	4150	4150	4150	4150	4150
3.17	lateral fork adjustment (outside of fork) Max./Min.	mm	1030/244	1030/244	1030/244	1030/244	1060/250	1060/250	1060/250	1060/250	1060/250	1060/250	1060/250	1060/250
performance														
4.01	travelling speed: loaded/unloaded	km/h	16/16	14.5/15.0	16/16	14.5/15.0	17/18	17/18	15.0/15.5	16.5/17.5	16.5/17.5	14.5/15	14.5/15	14.5/15
4.02	lifting speed: loaded/unloaded	mm/s	350/510	280/490	330/510	340/460	340/460	340/460	325/450	325/450	325/450	225/410	225/410	225/410
4.03	lowering speed: loaded/unloaded	mm/s	450/500	450/500	450/500	450/500	-/500	-/500	-/500	-/500	-/500	-/500	-/500	-/500
4.04	gradeability (loaded)	%	22	22	20	20	18	17	15	15	15	15	15	15
4.05	Max. traction force (loaded)	N	16000	16000	16500	16500	21700	21700	19500	21700	21700	19500	19500	19500
4.06	acceleration time (10m) loaded/unloaded	s	4.8/4.4	4.8/4.6	4.6/4.4	4.6/4.4	4.8/4.6	4.7/4.5	5.0/4.7	4.9/4.7	5.2/4.9	5.2/4.9	5.2/4.9	5.2/4.9
5.01	total weight (with/without battery)	kg	3620/3340	3620/3340	3910/3630	3910/3630	4490/4030	4490/4030	4490/4030	5100/4640	5100/4640	5100/4640	5100/4640	5100/4640
5.02	axle load: unloaded, front/rear	kg	1493/2127	1493/2127	1690/2210	1690/2210	2095/2395	2095/2395	2095/2395	2290/2810	2290/2810	2290/2810	2290/2810	2290/2810
5.03	axle load: loaded, front/rear	kg	4687/933	4687/933	5680/730	5680/730	6820/670	6820/670	6820/670	7810/790	7810/790	7810/790	7810/790	7810/790
battery														
6.01	battery voltage/capacity (the charging capacity in 5 hours)	VWh	80/271	80/271	80/271	80/271	80/404	80/404	80/404	80/404	80/404	80/404	80/404	80/404
6.02	battery weight	kg	280	280	280	280	420	420	420	420	420	420	420	420
motor and controller														
7.01	driving motor power (S2-60min)	kW	12	12	12	12	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
7.02	lifting motor power (S3-15%)	kW	15	15	15	15	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
7.03	drive motor controlling mode		MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*
7.04	lifting motor controlling mode		MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*	MOSFET/AC*
others														
8.01	service brake/parking brake		hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**	hydraulic/mechanical**
8.02	hydraulic system working pressure	MPa	17.5	17.5	17.5	17.5	21	21	21	21	21	21	21	21
8.03	type of drive control		ZAPI	Santroll	ZAPI	Santroll	ZAPI	INMOTION	Santroll	ZAPI	INMOTION	Santroll	ZAPI	INMOTION

NOTE: For configuration number, 2: ZAPI Controller; 3: INMOTION Controller; 7: Santroll Controller



Note: The vertical axis stands for load capacity and the horizontal axis stands for the load center that 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.

Model	Configuration	Voltage(V)	Capacity(Ah)	Supplier
CPD20/CPD25	Standard	80	271	ENEROC
	Optional	80	404	ENEROC
CPD30/CPD35	Standard	80	404	ENEROC
	Optional	80	542	ENEROC

WIDE VIEW MAST

mast model	Max. lifting height (mm)	load capacity (load center 500mm) (kg)					mast overall height (mm)			mast lift angle (α/β)	
		2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3-3.5t	
M200	2000	2000	2000	3000	3500	3500	1745	1820	1930	6/8	6/10
M250	2500	2000	2500	3000	3500	3500	1745	1820	1930	6/8	6/10
M300	3000	2000	2500	3000	3500	3500	1995	2070	2180	6/8	6/10
M330	3300	2000	2500	3000	3500	3500	2145	2220	2330	6/8	6/10
M350	3500	2000	2500	3000	3500	3500	2245	2320	2430	6/8	6/10
M370	3700	2000	2500	3000	3400	3400	2345	2420	2530	6/8	6/10
M400	4000	2000	2500	2950	3350	3350	2545	2620	2730	6/5	6/8
M425	4250	2000	2500	2850	3250	3250	2670	2745	2855	6/5	6/8
M450	4500	1800	1950	2300	2700	2700	2795	2870	2980	6/5	6/8
M500	5000	1800	1950	2450	2850	2850	3045	3120	3230	6/5	6/8
M550	5500	1400	1550	1950	2350	2350	3345	3420	3530	3/3	3/6
M600	6000	950	1100	1500	1900	1900	3595	3670	3780	3/3	3/6

Note: (1) \*refers to rated capacity with dual front tires or wider tires;

WIDE VIEW FULL FREE 2-STAGE MAST

mast model	Max. lifting height (mm)	load capacity (load center 500mm) (kg)					mast overall height (mm)			free lifting height (with backrest) (mm)			mast lift angle (α/β)	
		2t	2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3t	3.5t	2-2.5t	3-3.5t	
ZM200	2000	2000	2500	3000	3500	1495	1570	1680	447	380	500	6/8	6/10	
ZM250	2500	2000	2500	3000	3500	1745	1820	1930	697	630	750	6/8	6/10	
ZM300	3000	2000	2500	3000	3500	1995	2070	2180	947	880	1000	6/8	6/10	
ZM330	3300	2000	2500	3000	3500	2145	2220	2330	1097	1030	1150	6/8	6/10	
ZM350	3500	2000	2500	3000	3500	2245	2320	2430	1197	1130	1250	6/8	6/10	
ZM370	3700	2000	2500	3000	3400	2345	2420	2530	1297	1230	1350	6/8	6/10	
ZM400	4000	2000	2500	2950	3350	2545	2620	2730	1497	1430	1550	6/5	6/8	
ZM425	4250	2000	2500	2850	3250	2670	2745	2855	1622	1555	1675	6/5	6/8	
ZM450	4500	1900	2000	2300	2700	2795	2870	2980</						