

2-3.5t **CIION** 

G series Lithium Battery Powered Counterbalanced Forklift Truck (UPGRADED)



## Gseries 2-3.5 t







### ♠ 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

### Tigh 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 node 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 bms 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.

Explicit Cost

Hidden Cost

Maintenance Cost

Electricity Cost

Lithium Battery Forklift

Price

Maintenance Cost

Electricity Cost

Battery Changing Cost

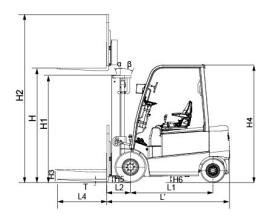
Lead-acid Battery Forklift

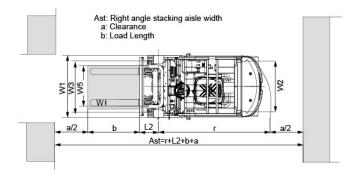
## Gseries 2-3.5t

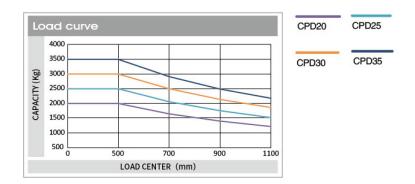
	Characteristics				
.01	Manufacturer			HE	ELI
02	Model			CPD20	CPD25
03	Configuration Number			GB2Li	GB2Li
04	Rated Capacity	Q	kg	2000	2500
05	Load Center Distance	С	mm	500	500
06	Power Mode		03.00000	lithium battery	lithium battery
07	Driving Mode			seated	seated
08	Wheel Base	L1	mm	1550	1550
00	Tyre			1330	1550
01	Tyre Type			pneumatic tyre	pneumatic tyre
02	Wheels, Number Front Rear (X=Driven Wheels)			2/2	2/2
03	Front Wheel Base	W3	mm	960	960
04	Rear Wheel Base	W2	mm	950	950
05	Tyre (Front)			23×9-10-16PR	23×9-10-16PR
06	Tyre (Rear)			18×7-8-14PR	18×7-8-14PR
00	Size		-	10×1-0-141 K	10×1-0-141 K
.01	Front Overhang	L2	mm	425	425
02	Mast Tilt Angle , Front/Rear	α/β	0	6/8	6/8
03	Height With Mast Retraction	H1	mm	1995	1995
04	Free Lifting Height	H3	mm	145	145
05	Max. Lifting Height	Н	mm	3000	3000
06	Mast Height, Extended	H2	mm	4042	4042
.07	Overhead Guard Height	H4	mm	2150	2150
08	Fork Size:Thickness×Width×Length	T×W×L4	mm	40×122×920	40×122×1070
09	Fork Carriage, Din Standard	131132		2A	2A
1245	Truck Body Length (Fork Excluded)	L'	mm	2270	2280
.10		W1	mm		
.11	Truck Body Width		100000000000000000000000000000000000000	1185	1185
.12	Turning Radius	r	mm	2000	2010
.13	Clearance Between Mast And Ground	H5 H6	mm	110	110
.14	Clearance Between Wheel Base Center And Ground (Loaded)  Right Angle Stacking Aisle Width	90000	mm	115	115
.15	Right Angle Stacking Aisle Width (Pallet100X:100mm, Clearane (200mm) Right Angle Stacking Aisle Width	Ast	mm	3625	3635
.16	(Pallet1200x1200mm, Clearance 200mm)	Ast	mm	3825	3835
.17	Lateral Fork Adjustment(Outside Of Forks)max./min.  Performance	W5	mm	1030/244	1030/244
0.4			10	10/10	10/10
.01	Travelling Speed: Loaded/Unloaded		km/h	16/16	16/16
.02	Lifting Speed: Loaded/uUnloaded		mm/s	350/510	330/510
.03	Lowering Speed: Loaded/Unloaded		mm/s	450/500	450/500
.04	Gradeability (Loaded)		%	22	20
.05	Max. Traction Force (Loaded)		N	16000	16500
.06	Acceleration Time (10m) Loaded/Unloaded		s	4.6/4.4	4.6/4.4
	Weight				
.01	Total Weight (With /Without Battery)		kg	3620/3340	3910/3630
.02	Axle Load: Unloaded, Front/Rear		kg	1493/2127	1690/2220
.03	Axle Load: Loaded, Front/Rear		kg	4687/933	5680/730
	Battery Voltage/Capacity			Konovine	
.01	Battery Voltage/Capacity (Discharging Capacity In 5 Hours)		V/Ah	80/271	80/271
.02	Battery Weight		kg	280	280
	Motor And Controller			800	5733.51
01	Driving Motor Power (S2-60min)		kW	12	12
02	Lifting Motor Power (S3-15%)		kW	15	15
.03	Drive Motor Controlling Mode			MOSFET/AC"	MOSFET/AC"
04	Lifting Motor Controlling Mode			MOSFET/AC"	MOSFET/AC"
	Others				
01	Service Brake/Parking Brake			hydraulic/mechanical"	hydraulic/mechanic
02	Hydraulic System Working Pressure		Мра	17.5	17.5
.03	Type Of Drive Control			ZAPI	ZAPI

NTOE: For configuration number, 2: ZAPI Controller; 3: INMOTION Controller;

C	haracteristics			
1.01		HE	LI	
1.02	CPD30	CPD30	CPD35	CPD35
1.03	GB2Li	GB3Li	GB2Li	GB3Li
.04	3000	3000	3500	3500
.05	500	500	500	500
.06	lithium battery	lithium battery	lithium battery	lithium battery
.07	seated	seated	seated	seated
.08	1715	1715	1715	1715
	yre	1110	1113	1113
2.01	pneumatic tyre/solid	pneumatic tyre/solid	solid tyre	solid tyre
2.02	2/2	2/2	2/2	2/2
.03	1000	1000	1000	1000
.04	990	990	990	990
2.05	28×9-15-12PR	28×9-15-12PR	28×9-15	28×9-15
2000	200/50-10	200/50-10		200/50-10
.06		200/50-10	200/50-10	200/50-10
	ize	405	400	400
3.01	485	485	490	490
.02	6/10	6/10	6/10	6/10
.03	2075	2075	2180	2180
3.04	145	145	150	150
.05	3000	3000	3000	3000
.06	4230	4230	4230	4230
.07	2215	2215	2215	2215
.08	45×125×1070	45×125×1070	50×125×1070	50×125×1070
.09	3A	3A	3A	3A
3.10	2525	2525	2550	2550
.11	1245	1245	1245	1245
.12	2240	2240	2260	2260
.13	135	135	135	135
3.14	145	145	145	145
.15	3995	3995	4020	4020
3.16	4125	4125	4150	4150
3.17	1060/250	1060/250	1060/250	1060/250
Р	erformance			
.01	17/18	17/18	16.5/17.5	16.5/17.5
.02	340/460	340/460	325/450	325/450
.03	-/500	-/500	-/500	-/500
.04	18	18	15	15
.05	21700	21700	21700	21700
.06	4.7/4.5	4.7/4.5	4.9/4.7	4.9/4.7
	/eight	As Area € Colongo		A2000
.01	4490/4030	4490/4030	5100/4640	5100/4640
.02	2095/2395	2095/2395	2290/2810	2290/2810
5.03	6820/670	6820/670	7810/790	7810/790
	attery	5525,5.5		
.01	80/404	80/404	80/404	80/404
.02	420	420	420	420
	lotor And Controller	720	720	420
	16.6	16.6	16.6	16.6
.01	13.5	13.5	13.5	13.5
7.02	7000000	500000000	100000	
7.03	MOSFET/AC"	MOSFET/AC"	MOSFET/AC"	MOSFET/AC"
7.04	MOSFET/AC"	MOSFET/AC"	MOSFET/AC"	MOSFET/AC"
	thers	I and the second second		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
.01	hydraulic/mechanical"	hydraulic/mechanical"	hydraulic/mechanical"	hydraulic/mechanical
3.02	21	21	21	21







**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 BAT	TERY			
Model	Configuratio	Voltage(V)	Capacity(Ah)	Supplier
CPD20/CPD25	Standard	80	271	ENEROC
CPD20/CPD25 =	Optional	80	404	ENEROC
	Standard	80	404	ENEROC
CPD30/CPD35	Optional	80	542	ENEROC

Mastmodel	Max. lifting height mm	22	Load capacity (load 2.5t	Load capacity (load center 500mm) ( kg		3.5t	2	2	Nast overall height (to	Mast overall height (tork to the ground) (mm)  2–2.5t 3t 3.5t	Mass overall neight (tok to the ground) (frim) 2-2.5t 3t 3.5t	Mast overall height (tork to the ground) (mm)  2–2.5t 3t 3.5t	Nest overall neight (lock to the ground) (mm)  Mest thit any $\theta \in (\alpha/\beta)$ (°)  2–2.5t 3t 3.5t 2–2.5t 3–3.5t 2t 2.5t	Mast overal treight (lock to the ground) (mm) Mast tilt angle $(\alpha/\beta)$ (°)  2-2.5t 3t 3.5t 2-2.5t 3-3.5t 2t
M200	2000	2000	2500	3000	3500		1495	1495 1570		1570	1570 1680	1570 1680 6/8	1570 1680 6/8 6/10	1570 1680 6/8 6/10 3530
M250	2500	2000	2500	3000	3500		1745	1745 1820		1820	1820 1930	1820 1930 6/8	1820 1930 6/8 6/10	1820 1930 6/8 6/10 3575
M300	3000	2000	2500	3000	3500		1995	1995 2070		2070	2070 2180	2070 2180 6/8 6/10	2070 2180 6/8 6/10	2070 2180 6/8 6/10 3620
M330	3300	2000	2500	3000	3500		2145	2145 2220		2220	2220 2330	2220 2330 6/8	2220 2330 6/8 6/10	2220 2330 6/8 6/10 3650
M350	3500	2000	2500	3000	3500		2245	2245 2320		2320	2320 2430	2320 2430 6/8 6/10	2320 2430 6/8 6/10	2320 2430 6/8 6/10 3665
M370	3700	2000	2500	3000	3400		2345	2345 2420		2420	2420 2530	2420 2530 6/8 6/6 *6/10	2420 2530 6/8 6/6 *6/10	2420 2530 6/8 6/6 *6/10 3685
M400	4000	2000	2500	2950	3350		2545	2545 2620		2620	2620 2730	2620 2730 6/5 6/6*6/10	2620 2730 6/5 6/6 *6/10	2620 2730 6/5 6/6*6/10 3745 4035
M425	4250	2000	2500	2850	3250		2670	2670 2745		2745	2745 2855	2745 2855 6/5	2745 2855 6/5 6/6 *6/10	2745 2855 6/5 6/6*6/10 3765 4055
M450	4500	1900	2300	2750	3100		2795	2795 2870		2870	2870 2980	2870 2980 6/5	2870 2980 6/5 6/6 *6/10	2870 2980 6/5 6/6*6/10 3790 4080
M500	5000	1800	1950 *2050	2400 *2550	2650 *2800		3045	3045 3120		3120	3120 3230	3120 3230 6/5 *6/5	3120 3230 6/5 *6/5 6/6 *6/6	3120 3230 6/5 *6/5 6/6 *6/6 3835
MEEO	5500	1400	1550 *1950	2250 *2450	2500 *2600		3345	3345 3420		3420	3420 3530	3420 3530 3/3 *6/5	3420 3530 3/3 *6/5 3/6 *3/6	3420 3530 3/3 *6/5 3/6 *3/6 3915
DOCIN	6000	950 *1500	1100 *1800	1500 *2200	1550 *2400	-	3595		3595 3670 3780	3670 3780	3670 3780 3/3 *6/5	3670 3780 3/3 *6/5 3/6 *3/6	3670	3670 3780 3/3 6/5 3/6 3060

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Mactimodal	Max.		Load capacity (load center 500mm) ( kg )	d center 500mm)	(kg)	Mas	Mast overall height (mm)	mm)	Free lifting height (with backrest) (mm)	height (with (mm)	backrest)	Mast tilt angle	(α/β)(°)		Weight ( Kg )	t(Kg)	
and the second	mm	21	2.5t	32	3.5t	2-2.5t	31	3.5t	2-2.5t	31	3.5t	2-2.5t	3-3.5t	21	2.5t	31	3.5t
ZM200	2000	2000	2500	3000	3500	1495	1570	1680	447	380	500	6/8	6/10	3540	3830	4436	5066
ZM250	2500	2000	2500	3000	3500	1745	1820	1930	697	630	750	6/8	6/10	3590	3880	4480	5110
ZM300	3000	2000	2500	3000	3500	1995	2070	2180	947	880	1000	6/8	6/10	3635	3925	4526	5155
ZM330	3300	2000	2500	3000	3500	2145	2220	2330	1097	1030	1150	6/8	6/10	3665	3955	4553	5182
ZM350	3500	2000	2500	3000	3500	2245	2320	2430	1197	1130	1250	6/8	6/10	3685	3975	4571	5200
ZM370	3700	2000	2500	3000	3400	2345	2420	2530	1297	1230	1350	6/8	6/6 *6/10	3705	3995	4589	5218
ZM400	4000	2000	2500	2950	3350	2545	2620	2730	1497	1430	1550	6/5	6/6 *6/10	3765	4055	4661	5292
ZM425	4250	2000	2500	2850	3250	2670	2745	2855	1622	1555	1675	6/5	6/6 *6/10	3790	4080	4683	5314
ZM450	4500	1900	2300	2750	3100	2795	2870	2980	1747	1675	1800	6/5	6/6 *6/10	3815	4105	4706	5337
ZM500	5000	1800	1950 *2050	2400 *2550	2650 *2800	3045	3120	3230	1997	1930	2050	6/5 *6/5	6/6 *6/6	3865	4155	4751	5382
ZM550	5500	1400	1550 *1950	2250 *2450	2500 *2600	3345	3420	3530	2297	2230	2350	3/3 *6/5	3/6 *3/6	3945	4235	4841	5474
	6000	950 *1500	1100 *1800	1500 *2200	1550 *2400	3595	3670	3780	2547	2480	2600	3/3 *6/5	3/6 *3/6	3995	4285	4888	5520

 $\begin{tabular}{ll} (2) & 2-2.5t: free lifting height $397$mm increase without backrest; \\ (3) & 3-3.5t: free lifting height $396$mm increase without backrest; \\ \end{tabular}$ 

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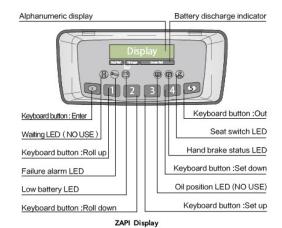
Madmodal	Max.	893	Load capacity (load center 500mm) ( kg	enter 500mm) ( kg	)	Mast overa	Mast overall height (mm)	Free lift	Free lifting height (with backrest) (mm)	ith backrest)	Mast tilt angl	Mast tilt angle ( $\alpha/\beta$ ) ( $^{\circ}$ )		<	Weight ( Kg )	
The state of the s	mm	21	2.5t	3t	3.5t	2-2.5t	3-3.5t	2-2.5t	3t	3.5t	2-2.5t	3-3.5t	21	2.5t	3t	
ZSM360	3600	2000	2500	3000	3400	1975	1930	774	740	745	6/8	6/6	3780	4070	4745	01
ZSM400	4000	2000	2500	2900	3250	1920	2055	900	865	870	6/5	6/6	3815	4105	4780	
ZSM435	4350	2000	2450	2750	3150	2045	2180	1024	990	995	6/5	6/6	3850	4140	4815	
ZSM450	4500	2000	2300	2700	3000	2095	2230	1074	1040	1045	6/5	6/6	3865	4155	4831	
ZSM470	4700	2000	2200	2700	2900	2160	2230	1140	1140	1048	6/5	6/6	3880	4170	4835	
ZSM480	4800	1900	2050	2600	2800	2195	2330	1174	1140	1145	6/5	6/6	3890	4180	4860	
ZSM500	5000	1800	1950 *2050	2400 *2500	2650	2295	2430	1274	1240	1245	6/5 *6/5	6/6 *6/6	3920	4210	4889	
ZSM540	5400	1400	1550 *1950	2250 *2450	2500	2420	2555	1400	1365	1370	3/3 *6/5	3/6 *3/6	3960	4250	4924	
ZSM600	6000	950 *1500	1100 *1800	1550 *2150	1550 *2300	2645	2780	1624	1590	1595	3/3 *6/5	3/6 *3/6	4025	4315	5023	
ZSM650	6500	700 *1400	800 *1600	1250 *2200	1300 *2500	2835	2970	1814	1788	1793	3/3 *3/5	3/3 *3/3	4055	4345	5076	
ZSM700	7000	300 *1100	400 *1200	850 *2100	1000 *2300	3105	3240	2084	2058	2063	3/3 *3/5	3/3 *3/3	4110	4400	5160	

Note: (1) \*refers to rated capacity with dual front tires or widen tires; (2) 2-2.5t: free lifting height 451mm increase without backrest; (3) 3-3.5t: free lifting height 520mm increase without backrest;





#### Reliable special designed instrument





INMOTION Display

- 1 DC type pump controller fault indicator
- 2 Turtle indicator
- (3) Fault alarm light
- 4 Low electric quantity indicator
- 5 Lifting lock indicator
- 6 Seat indicator
- (7) Parking brake indicator
- 8 Neutral indicator
- 9 Warning light

#### Charger technology



> High Efficiency

Charging efficiency higher than 95% meeting the requirements of energy saving and emissions reduction

> Speediness

100% charging realized in 65mins at the soonest.

> Compatibility

48 v / 80 v compatibility meeting the demand of different voltage levels

> Safety

Built-in mis-connecting protection offering self isolating function under fault; Perfect fault self checking alarm facilitating users maintenance

#### standard configuration

Wide view basic mast

Standard fork

li (iii) stage fork carriage

Backrest

Control valve

Battery

Standard seat Overhead guard

Overhead guard rain cover

LCD dashboard Pneumatic tyre (1-3t)

solid tyre (3.5t)

Traction pin

Tool box

LED lamp.strobe caution light

Rear driving handle with horn button

Carpet boom

Driver's cab Lifting hook

Lifting boom

Tip-over fork Back view mirror

Side shifting

Paper roll clamp

Warning light (rotating or buzzing)

solid tyre (1-3t)

Rear working light

Steel protection net Multipurpose drum clamp

Load stabilizer

Widen fork carriage

Lengthening fork

**HELI CANADA** 5705, place Kubota Drummondville (Qc) Canada, J2B 6V4 1-833-HELICAN info@heliforklift.ca heliforklift.ca









Load pusher

Rotate clamp

Double tyre protection device

Tilting/steering cylinder cover

Coloring tyre (white/green)

Customised colour

Battery lifting sling

Auxiliary hydraulic valve component

wide view two/three stage full free mast

Turn automatic deceleration function

HELI smart fleet management system