

G series / INTELLIGENT
ENVIRONMENT-FRIENDLY

High Safety

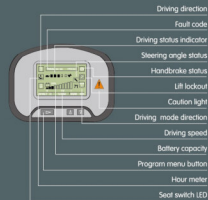
- According to the characteristics of industrial vehicles, it achieves safety protection design which includes lithium battery materials, battery core type, pack technique and system power management
- "Multiple node safety closed circuit protection" realizing truck real time closed circuit protection 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

HELI



Charger technology

- High Efficiency
Charging efficiency higher than 95% meeting the requirements of energy saving and emissions reduction
- Speediness
100% charging realized in 2 hours 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



CURTIS Display

Standard Configuration

Wide view basic mast
Standard fork
II (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

Optional Configuration

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
Load pusher
Fork sleeve
Rotate clamp
Double tyre protection device
Auxiliary hydraulic valve component
Tilting/steering cylinder cover
Coloring tyre (white/green)
Wide view two/three stage full free mast
Customised colour
Turn automatic deceleration function
Battery lifting sling



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AUTHORIZED DEALER

* Our products are subject to improvements and changes without notice.

Clating No.190509 Forklift Print

1-3.5t G series Lithium Battery Powered Counterbalanced Forklift Truck



HELI
LIFTING THE FUTURE

G series / INTELLIGENT
ENVIRONMENT-FRIENDLY

G 1-3.5t G series Lithium Battery Powered Counterbalanced Forklift Truck



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

- 2 hours 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 & operation 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.

G 1-3.5t

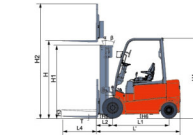
G series Lithium Battery Powered Counterbalanced Forklift Truck



Manufacturer's Data and Design Characteristics

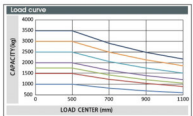
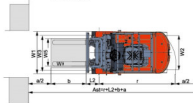
characteristics		HELI							
manufacturer		HELI							
1.01 model		CPD10	CPD15	CPD18	CPD20	CPD25	CPD30	CPD35	
1.02 configuration number		GC14(P)GSD1(P)GD3J	GC14(P)GSD1(P)GD3J	GC14(P)GSD1(P)GD3J	GC14(P)GSD1(P)GD3J	GC14(P)GSD1(P)GD3J	GC14(P)GSD1(P)GD3J	GC14(P)GSD1(P)GD3J	
1.03 rated capacity	Q kg	1000	1500	1750	2000	2500	3000	3500	
1.05 load center distance	c mm	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	
1.07 driving mode		seated	seated	seated	seated	seated	seated	seated	
1.08 wheel base	L1 mm	1380	1380	1380	1550	1550	1685	1685	
2.01 type		pneumatic tyre	pneumatic tyre	solid/pneumatic tyre	pneumatic tyre	pneumatic tyre	pneumatic tyre	solid tyre	
2.02 tyre type		number front/rear (X=driven wheels)	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	
2.03 front wheel base	W3 mm	910	910	910	960	960	1000	1000	
2.04 rear wheel base	W2 mm	920	920	920	950	950	950	950	
2.05 tyre (front)		6.00-9-10PR	6.00-9-10PR	6.00-9-10PR	23 x 9-10-16PR	23 x 9-10-16PR	28 x 9-15-14PR	28 x 9-15-14PR	
2.06 tyre(rear)		16 x 6-8-10PR	16 x 6-8-10PR	16 x 6-8-10PR	16 x 7-8-14PR	16 x 7-8-14PR	18 x 7-8-14PR	18 x 7-8-14PR	
3.01 size									
3.02 front overhang	L2 mm	390	390	390	434	434	485	490	
3.03 mast tilt angle, front/rear	α/β °	6/8	6/8	6/8	6/8	6/8	6/10	6/10	
3.04 height with mast retraction	H1 mm	1985	1985	1985	1985	1985	2075	2180	
3.05 free lifting height	H3 mm	145	145	145	145	145	150	150	
3.06 mast lifting height	H mm	3000	3000	3000	3000	3000	3000	3000	
3.08 Mast height, extended	H2 mm	4030	4030	4030	4042	4042	4230	4230	
3.07 overhead guard height	H4 mm	2130	2130	2130	2150	2150	2215	2215	
3.08 fork size/thickness*width*length	T*W*L4	32 x 100 x 770	35 x 100 x 920	35 x 100 x 920	40 x 122 x 920	40 x 122 x 1070	45 x 125 x 1070	50 x 125 x 1070	
3.09 fork carriage, DIN standard		2A	2A	2A	2A	2A	3A	3A	
3.10 truck body length (fork excluded)	L' mm	2070	2070	2070	2295	2295	2546	2550	
3.11 truck body width	W1 mm	1086	1086	1086	1185	1185	1241	1241	
3.12 turning radius	r mm	1750	1750	1750	2000	2000	2240	2260	
3.13 clearance between mast and ground	H5 mm	90	90	90	110	110	135	135	
3.14 clearance between wheel base center and ground/backrest	H6 mm	80	80	75	115	115	145	145	
3.15 right angle stacking aisle width (pallet200x1200mm, clearance 200mm)	As1 mm	3340	3340	3340	3635	3635	3995	4020	
3.16 right angle stacking aisle width (pallet200x1200mm, clearance 200mm)	As2 mm	3540	3540	3540	3835	3895	4125	4150	
3.17 lateral fork adjustment(outside of forks)(Max./Min.		960/200	960/200	960/200	1030/244	1030/244	1060/250	1060/250	
4.01 performance									
4.01 travelling speed: loaded/unloaded	km/h	15.0/16.0	15.0/16.0	15.0/16.0	14.5/15.0	14.5/15.0	15.0/15.5	14.5/15.0	
*4.02 lifting speed: loaded/unloaded	mm/s	290/450	270/450	260/450	280/490	260/490	260/440	260/440	
4.03 lifting speed: loaded/unloaded	mm/s	410/600	400/600	380/600	350/510	330/510	340/460	325/450	
4.04 lowering speed: loaded/unloaded	mm/s	400/500	400/500	410/490	400/500	410/490	-500	-500	
4.05 gradeability (loaded)	%	24	22	20	22	20	17	15	
4.06 Max. traction force (loaded)	N	10000	10000	10000	16000	16500	15600	15600	
4.06 acceleration time (20km/h loaded/unloaded)	s	5.2/4.4	5.2/4.5	5.2/4.6	4.6/4.4	4.6/4.6	5.7/5.2	5.7/5.2	
5.01 total weight (with/without battery)	kg	2700/2350	2955/2605	3105/2755	3615/3215	4035/3635	4760/4300	5330/4770	
5.02 axle load: unloaded, front/rear	kg	1400/1280	1370/1585	1370/1730	1805/1810	1790/2245	2270/2490	2410/2920	
5.03 axle load: loaded, front/rear	kg	3130/3070	3870/3585	4255/3600	5015/5800	5795/5740	7005/755	8240/810	
6.01 battery voltage/capacity	V/Ah	48/540	48/540	48/540	48/540	48/540	80/400	80/400	
6.02 battery weight	kg	350	350	350	400	400	560	560	
7.01 motor and controller									
7.01 drive motor power(S3-60/min)		8.2	8.2	8.2	11.5	11.5	16.6	16.6	
*7.02 lifting motor power(S3-15%)	kW	7.5	7.5	7.5	10.5	10.5	13	13	
7.03 lifting motor power(S3-15%)	kW	10.6	10.6	10.6	15	15	16.6	16.6	
7.03 drive motor controlling mode		MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	
*7.04 lifting motor controlling mode		MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC	MOSFET/DC	
7.04 lifting motor controlling mode		MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	
8.01 others									
8.01 service brake/parking brake		hydraulic/mechanical	hydraulic/mechanical	hydraulic/mechanical	hydraulic/mechanical	hydraulic/mechanical	hydraulic/mechanical	hydraulic/mechanical	
8.02 hydraulic system working pressure	Mpa	14.5	14.5	14.5	17.5	17.5	21	21	
8.03 type of drive control		CURTIS/INMOTION	CURTIS/INMOTION	CURTIS/INMOTION	CURTIS/INMOTION	CURTIS/INMOTION	CURTIS/INMOTION	CURTIS/INMOTION	

NOTE:(1)**refers to the parameters and configuration with AC lifting system:(2)**(P)**battery side pulling:(3)For configuration number:1:CURTIS Controller;3:Inmotion Controller.



As1: Right angle stacking aisle width with a Clearance

As2: Load Length



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 fork 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 BATTERY			
model	configuration	voltage(V)	capacity(Ah)
CPD10/CPD15/CPD18	Standard	48	400
CPD20/CPD25	Standard	48	540
CPD30/CPD35	Standard	80	400
	Optional	80	540

WIDE VIEW MAST

mast model	Max. lifting height (mm)	load capacity (load center 500mm)(kg)							mast overall height(to the ground)(mm)				mast tilt angle (α/β) (°)		weight(kg)						
		1t	1.5t	1.8t	2t	2.5t	3t	3.5t	1-1.8t	2-2.5t	3t	3.5t	1-2.5t	3-3.5t	1t	1.5t	1.8t	2t	2.5t	3t	3.5t
M200	2000	1000	1500	1750	2000	2500	3000	3500	1485	1485	1570	1680	6/8	6/10	2670	2925	3075	3525	3945	4665	5230
M250	2500	1000	1500	1750	2000	2500	3000	3500	1735	1745	1820	1930	6/8	6/10	2685	2940	3090	3570	3990	4760	5280
M300	3000	1000	1500	1750	2000	2500	3000	3500	1985	1995	2070	2180	6/8	6/10	2700	2955	3105	3615	4035	4780	5300
M350	3500	1000	1500	1750	2000	2500	3000	3500	2135	2145	2220	2330	6/8	6/10	2720	2975	3125	3645	4065	4790	5360
M400	4000	1000	1500	1750	2000	2500	3000	3500	2285	2295	2370	2480	6/8	6/10	2735	2990	3140	3660	4080	4810	5380
M450	4500	1000	1500	1750	2000	2500	3000	3500	2435	2445	2520	2630	6/8	6/10	2750	3005	3155	3680	4100	4840	5400
M500	5000	1000	1500	1750	2000	2500	3000	3500	2585	2595	2670	2780	6/8	6/10	2765	3020	3170	3700	4120	4860	5420
M550	5500	1000	1500	1750	2000	2500	3000	3500	2735	2745	2820	2930	6/8	6/10	2780	3035	3185	3715	4135	4880	5440
M600	6000	1000	1500	1750	2000	2500	3000	3500	2885	2895	2970	3080	6/8	6/10	2795	3050	3200	3730	4150	4900	5460

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 tilt angle (α/β) (°)		weight(kg)								
		1t	1.5t	1.8t	2t	2.5t	3t	3.5t	1-1.8t	2-2.5t	3t	3.5t	1-1.8t	2-2.5t	3t	3.5t	1-2.5t	3-3.5t	1t	1.5t	1.8t	2t	2.5t	3t	3.5t
ZM200	2000	1000	1500	1750	2000	2500	3000	3500	1485	1495	1570	1680	478	447	388	503	6/8	6/10	2680	2935	3085	3535	3955	4706	5296
ZM250	2500	1000	1500	1750	2000	2500	3000	3500	1735	1745	1820	1930	728	697	638	753	6/8	6/10	2715	2970	3120	3585	4005	4750	5340
ZM300	3000	1000	1500	1750	2000	2500	3000	3500	1985	1995	2070	2180	978	947	888	1003	6/8	6/10	2750	3005	3155	3630	4050	4796	5386
ZM350	3500	1000	1500	1750	2000	2500	3000	3500	2135	2145	2220	2330	1128	1097	1038	1153	6/8	6/10	2770	3025	3175	3660	4080	4823	5413
ZM370	3700	1000	1500	1750	2000	2500	3000	3400	2335	2345	2420	2530	1328	1297	1238	1353	6/8	6/10	2785	3040	3190	3680	4100	4841	5430
ZM400	4000	1000	1500	1750	2000	2500	2950	3350	2535	2545	2620	2730	1528	1497	1438	1553	6/8	6/10	2845	3100	3250	3760	4180	4931	5522
ZM425	4250	1000	1500	1750	2000	2500	2950	3350	2685	2695	2770	2880	1728	1697	1638	1753	6/8	6/10	2865	3120	3270	3780	4200	4953	5544
ZM450	4500	1000	1400	1600	1900	2300	2750	3100	2785	2795	2870	2980	1778	1747	1688	1803	6/8	6/10	2885	3140	3290	3810	4230	4976	5567
ZM500	5000	1000	1200	1350	1600	1950	2350	2700	3035	3045	3120	3230	2028	1997	1938	2053	6/8	6/10	2915	3170	3320	3840	4260	5021	5612
ZM550	5500	900	1100	1250	1400	1750	2150	2500	3335	3345	3420	3530	2297	2238	2153	2268	6/8	6/10	2980	3235	3385	3940	4360	5111	5704
ZM600	6000	800	1000	1150	1300	1650	2050	2400	3635	3645	3720	3830	2578	2517	2448	2563	6/8	6/10	3030	3285	3435	3990	4410	5158	5750