

HELI 合力



4-5t

G3系列电动平衡重式叉车

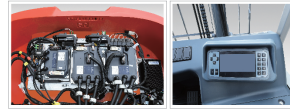
G3 series 4-5t electric counterbalance forklift truck



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G3 4-5t

美学与功能设计的完美结合
智能、安全、高效、节能环保的全新一代产品



Perfect Combination of Aesthetics and Functional Design
New generation with characteristics of smart, safe, high efficiency, energy saving and environment friendly



标准配置 Standard configuration	选装配置 Optional
宽视野驾驶室门架 Wide view standard mast	驾驶室 Cab
标准叉车 Standard Fork	挡风罩 Windshield
标准叉车 Class II standard carrier	涂装颜色 (white/green) Coloring (white/green)
后座架 Backrest	警示灯 (旋转和蜂鸣) LED warning light (rotating/buzzer)
两手柄换向 Two-spools valve	倒车灯 Rear work light
蓄电池 Battery	用户自定义颜色 Customer color
蓄电池加水 Automatic water filling for battery	侧移器 Side shifter
全悬挂系统 Full suspension seat	其他附件 Other attachments
防护罩 Overhead guard	
液晶组合仪表 LED combined display	
护足架 Footrest	
脚踏油门 Pedal throttle	
LED信号灯、LED警示灯 LED signal light, LED warning light (flashing)	
智能车行管理系统 Smart fleet management system	
LED显示屏 LED interface	
环视自动减速 Automatic steering slow down device	

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* 以上所有数据均以产品实际配置为准，恕不另行通知。
* All data are subject to the actual configuration of the product, and subject to change without notice.

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可靠性高 High Reliability

- 采用免维护润滑系统和集成电机, 产品成熟, 久经市场考验;
- 行驶及泵电机均采用免维护交流电机;
- 采用国际著名品牌电机, 智能匹配;
- 采用大数据智能安全, 全面实时监控车辆状态, 安全可靠。
- Maintenance-free wet brake integrated axle which is mature and has been tested by the market is used on the truck.
- Maintenance-free AC motors are used for driving and pump motors.
- World famous controller is used.
- Large smart instrument can monitor the truck state overall and it is safe and reliable.

安全性高 High Safety

- 采用无尾架车体结构, 整车重心低, 横向稳定性高;
- 高强度整体式脚踏护罩, 提升作业安全系数;
- 轻量化设计, 全面提升车辆操控安全系数;
- 转向自动减速功能, 提升车辆转弯作业安全性;
- 门架上缓冲功能, 提升作业安全性。
- Tail-free structure reduces the center of gravity and improves lateral stability.
- High strength and integrated type welded overhead guard improves safety.
- Side-pulling battery changing way is standard configuration and improves battery charging efficiency.
- Automatic deceleration when steering improves working safety.
- Mast lifting buffering improves operation safety.

更节能 More Energy Saving

- 采用全新设计的LED灯光系统, 更加节能;
- 采用独立转向系统, 降低能耗;
- 匹配电动叉车专用花纹轮胎, 行驶更加节能。
- LED lights are more energy saving.
- Independent steering system is energy saving and high efficiency.
- Special types for electric trucks are adopted and make saving more energy saving.

人机舒适性提升 Improved man-machine comfort

- 采用全新设计的LED灯光系统, 更加节能;
- 标配方向盘踏板功能, 减少转向操作步骤;
- 操作踏板及方向盘, 提升舒适性;
- 优化蓄电池布置方式及平衡重设计, 提升后视野范围;
- 倾斜下沉, 提升腿部空间。
- The truck has lower pedal height and larger egress and ingress space.
- Standard configuration of steering actuated by steering wheel reduces steering process.
- Suspension seat and wide view mast improves driving experience.
- Optimal battery layout and design of counterbalance improve the rear view.
- Lower layout of tilting cylinder improves the space for legs.

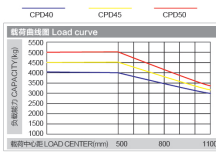
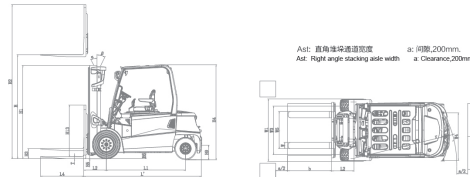
维修便捷性提升 Easy Maintenance

- 电控布置在平衡重内部, 便于检修;
- 可拆卸油箱及底板, 提升维护便捷性。
- The controller is inside of the balancweight and it is easy for maintenance.
- Removable oil tank and floor board make maintenance easier.

G3 4-5 t

制造商和技术参数 Manufacturer's Data and Design Characteristics

特性	Character	HELI		
1.01 制造商	Manufacturer			
1.02 型号	Model	CPD40	CPD45	CPD50
1.03 配置号	Configuration number	0883	0883	0883
1.04 额定容量	Rated capacity	4000	4500	5000
1.05 载荷中心距	Load center distance	c	500	500
1.06 动力方式	Power mode	电动机驱动	电动机驱动	电动机驱动
1.07 驱动方式	Driving mode	直驱式驱动	直驱式驱动	直驱式驱动
1.08 轴距	Wheel base	L1	mm	1900
1.09 轮胎	Type			
2.01 轮胎类型	Wheat type	SE	SE	SE
2.02 车轮数量, 前/后	Wheel number, front/rear	2/2	2/2	2/2
2.03 前轮宽	Track width, front	W3	mm	1180
2.04 后轮宽	Track width, rear	W4	mm	1900
2.05 前轮规格	Type Size, front	250-15	250-15	28x12.5-15
2.06 后轮规格	Type Size, rear	21x8-9	21x8-9	21x8-9
3.01 轴距	Wheel base	L2	mm	560
3.02 门架倾角, 前/后	Mast tilt angle, front/rear	α/β	°	6/8
3.03 门架高度	Height, mast/behind	H1	mm	2200
3.04 自由提升高度	Free lift	H3	mm	150
3.05 标准门架提升高度	Standard mast lifting height	H	mm	3000
3.06 门架总提升高度	Height, mast extended	H2	mm	4225
3.07 护罩高度	Overhead guard height	H4	mm	2275
3.08 货叉尺寸, 厚/宽/长	Fork size: thickness/width/length	TRW/L4	mm	50/100/1070
3.09 货叉架, DIN标准	Fork carriage: DIN standard	L*	mm	34
3.10 货叉架, 无叉情况	Overall length without forks	L*	mm	2900
3.11 叉身宽度	Overall width	W1	mm	1350
3.12 转弯半径	Turning radius	r	mm	2580
3.13 离地间隙, 门架下方	Ground clearance, laden, under mast	H5	mm	140
3.14 离地间隙, 满载, 轴距中心	Ground clearance, laden, centre of wheelbase	H6	mm	145
3.15 离地间隙, 满载, 轴距中心	Ground clearance, laden, centre of wheelbase	Ax1	mm	4380
3.16 离地间隙, 满载, 轴距中心	Ground clearance, laden, centre of wheelbase	Ax1	mm	4540
3.17 货叉臂及货叉架, 最大最小	Lateral fork assembly outside of axle, max/min		mm	1280/300
性能				
4.01 行驶速度, 满载/空载	Traveling speed, laden/unladen		km/h	13/14
4.02 提升速度, 满载/空载	Lifting speed, laden/unladen		m/s	280/450
4.03 下降速度, 满载/空载	Lowering speed, laden/unladen		m/s	500/450
4.04 最大爬坡能力, 满载/空载	Maximum gradeability, laden/unladen		%	16/27
4.05 最大牵引力, 满载	Maximum traction force, laden		N	21000
重量				
5.01 自重, 空/不在仓蓄电池	Service weight, with/without battery		kg	6720/5130
5.02 桥壳重, 满载/空	Axle load, unladen, front/rear		kg	3476/3845
5.03 桥壳重, 满载/空	Axle load, laden, front/rear		kg	10380/1180
蓄电池				
6.01 蓄电池电压/容量, kWh	Battery voltage/capacity kWh	UM5	V/Ah	80/700
6.02 蓄电池重量	Battery weight		kg	1950
6.03 蓄电池标准	Battery standard			DN 4353A
电机和控制器				
7.01 驱动电机功率, S2-60分钟	Drive motor power, S2-60minutes		kW	18
7.02 提升电机功率, S3-15%	Lifting motor power, S3-15%		kW	26.5
7.03 转向电机功率, S3-15%	Steering motor power, S3-15%		kW	2.5
7.04 驱动电机控制方式	Drive motor controlling mode			MC9电液式, MOSFET/AC
7.05 提升电机控制方式	Lifting motor controlling mode			MC9电液式, MOSFET/AC
7.06 转向电机控制方式	Steering motor controlling mode			MC9电液式, MOSFET/AC



注: 垂直表示承载量, 横轴表示载荷中心。取载荷中心是从天叉正面计算, 标准载荷的垂直高度为1000毫米的立方体中心位置。门架向前倾, 使用标准承载量时垂直高度增加, 承载量将减少。门架向后倾, 使用标准承载量时垂直高度减少, 承载量将增加。门架在垂直位置时, 承载量将减少。门架在垂直位置时, 承载量将增加。

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.

可靠的专用仪表 Reliable special designed instrument

数字键 1 在主界面切换, P、L、R工作模式
 Numeric key 1 Switching among P, L, R modes in home page
 数字键 2 在主界面切换, P、L、R工作模式
 Numeric key 2 Switching among P, L, R modes in home page
 数字键 3 在主界面切换, P、L、R工作模式
 Numeric key 3 Switching between home page and secondary page
 数字键 4 在主界面切换, P、L、R工作模式
 Numeric key 4 Switching between KM/h and MP/h

可靠的专用仪表 Reliable special made by the whole truck's working condition, full data and all the required information, completely make the operator master the whole truck condition directly and conveniently.

宽视野三阶段自由门架 WIDE VIEW FULL 2-STAGE MAST

门架型号 mast model	最大允许 载荷, 带/不带 货叉 max load, with/without fork	承载能力(额定中心, 500mm) kg load capacity (load center 500mm)	门架高度(提升高度) mm mast height (lifting height)	门架总高度(提升高度) mm total mast height (lifting height)	自由提升高度 (带/不带货叉) mm free lift (with/without fork)	轴距 (带/不带货叉) mm wheel base (with/without fork)	整机重量 kg service weight	门架倾角 mast tilt angle
M350	2500	4000	4500	5000	2250	2130	1100	6/6.5
M350	3000	4000	4500	5000	2250	1870	1100	6/6.5
M350	3000	4000	4500	5000	2500	2120	1100	6/6.5
M350	3000	4000	4500	5000	2750	2170	1100	6/6.5
M410	3700	4000	4450	4900	2675	4033	1270	6/6.5
M450	4000	4000	4350	4750	3050	5233	2470	6/6.5
M425	4250	4000	4250	4650	3175	5483	2670	6/6.5
M450	4000	4000	4150	4500	3300	5733	2795	6/6.5
M475	4750	3900	4300	4600	3425	5983	2920	6/6.5
M500	5000	3900	4200	4500	3550	6233	3170	6/6.5
M550	5500	3650	3800	4150	3675	6733	3470	6/6.5
M600	6000	3400	3450	3950	4100	7233	3720	6/6.5

注: 4.5t 不带货叉时自由提升高度为 272mm, Free lift without fork will increase by 27mm.

宽视野三阶段自由门架 WIDE VIEW FULL FREE 2-STAGE MAST

门架型号 mast model	最大允许 载荷, 带/不带 货叉 max load, with/without fork	承载能力(额定中心, 500mm) kg load capacity (load center 500mm)	门架高度(提升高度) mm mast height (lifting height)	门架总高度(提升高度) mm total mast height (lifting height)	自由提升高度 (带/不带货叉) mm free lift (with/without fork)	轴距 (带/不带货叉) mm wheel base (with/without fork)	整机重量 kg service weight	门架倾角 mast tilt angle
ZM250	2500	4000	4500	5000	1980	1930	777	6/6.5
ZM261	2610	4000	4500	5000	2035	3392	832	6/6.5
ZM300	3000	4000	4500	5000	2280	4233	1027	6/6.5
ZM300	3000	4000	4500	5000	2380	4533	1127	6/6.5
ZM350	3500	4000	4500	5000	2480	4733	1227	6/6.5
ZM370	3700	4000	4400	4800	2580	4933	1327	6/6.5
ZM400	4000	4000	4300	4650	2780	5233	1577	6/6.5
ZM425	4250	4000	4200	4550	2955	5483	1700	6/6.5
ZM450	4500	3950	4200	4650	3030	5733	1827	6/6.5
ZM475	4750	3850	4050	4350	3155	5983	1950	6/6.5
ZM500	5000	3750	3950	4250	3280	6233	2077	6/6.5
ZM550	5500	3600	3750	4100	3380	6733	2377	6/6.5
ZM600	6000	3350	3400	3800	3510	7233	2627	6/6.5

注: 4.5t 不带货叉时自由提升高度为 272mm, Free lift without fork will increase by 27mm.

宽视野三阶段自由门架 WIDE VIEW FULL FREE 3-STAGE MAST

门架型号 mast model	最大允许 载荷, 带/不带 货叉 max load, with/without fork	承载能力(额定中心, 500mm) kg load capacity (load center 500mm)	门架高度(提升高度) mm mast height (lifting height)	门架总高度(提升高度) mm total mast height (lifting height)	自由提升高度 (带/不带货叉) mm free lift (with/without fork)	轴距 (带/不带货叉) mm wheel base (with/without fork)	整机重量 kg service weight	门架倾角 mast tilt angle
ZM360	3600	4000	4350	4800	2330	4833	1227	7/10
ZM400	4000	3950	4200	4750	2570	5333	1467	7/10
ZM435	4350	3850	4050	4450	2180	5983	1710	7/10
ZM460	4600	3800	4000	4400	2230	5733	1820	7/10
ZM480	4800	3700	3950	4300	2385	6033	1940	7/10
ZM500	5000	3600	3850	4200	2480	6233	2070	7/10
ZM540	5400	3400	3700	4050	2635	6633	2340	7/10
ZM600	6000	3200	3350	3850	2850	7133	2640	7/10
ZM650	6500	2950	2750	3150	3015	7733	3010	7/10
ZM700	7000	2150	2250	2650	3215	8233	3610	7/10

注: 4.5t 不带货叉时自由提升高度为 272mm, Free lift without fork will increase by 27mm.