

**可靠的专用仪表**  
RELIABLE SPECIAL DESIGNED INSTRUMENT

■ 可靠的专用仪表将整车运行状态、故障检测等重要信息完整地显示出来，使操作者更直观、方便地了解车辆状态。

Reliable special meter displays the whole truck's working condition, fault detect and other important information completely which makes the operator master the whole truck condition directly and conveniently.

**标准配置 Standard configuration**

- 驾驶员存在感应系统 (OPS)  
Standard of driver presence sensing system
- 转弯自动限速  
Automatic speed limitation while turning
- 全车实心胎  
All solid tire
- 自动补水、漏液孔  
Automatic water filling and liquid leaking hole for battery
- 整体式调距叉  
Intergrated fork positioner
- 全悬浮座椅  
Full suspension seat
- 整车LED灯  
Full vehicle led lights
- 双后工作大灯  
Double rear working lights
- 旋转蜂鸣警示灯  
Rotating beep warning light
- 自动驻车  
Automatic parking
- 四片阀、双过载、胶管滑轮组  
Four piece valve, double overload, rubber hose and pulley block
- 国产理士蓄电池  
Domestic leoch battery
- CPD100-GB2标配1820货叉  
CPD100-GB2 marking 1820 fork

**选用装置 Optional**

- 同步转向  
Synchronous steering
- 电液复合制动  
Electric-hydraulic braking
- 驾驶室  
Cab
- 挡风类 (前挡、顶挡、后挡)  
Windshield (front windshield/window, top windshield/window, rear windshield/window)

**8.5-10 t G系列**  
**蓄电池平衡重式叉车**  
G series battery powered counterbalanced forklift truck





# G 8.5-10t 蓄电池平衡重式叉车

G series battery powered counterbalanced forklift truck

**G series** / 智能·环保 INTELLIGENT ENVIRONMENT-FRIENDLY

## 高可靠稳定性 High stability and reliability

- > 成熟可靠、性能卓越的国际一线品牌核心部件：轮边驱动单元、交流牵引电机、交流泵电机、控制器等
- > 优化整车质量分布降低重心，高位承载能力比同吨位车更强
- > Mature and reliable, excellent performance of international core components: wheel-driving unit, AC traction motor, AC pump motor and controller ,etc;
- > Lowering height of gravity center by optimizing the quality distribution of the whole vehicle, the load capacity of mast in high-order position is stronger than trucks with the same tonnage.

## 主动安全 Active safety

- > 主动安全保护，关键部件故障时整车主动减速停车并实施驻车制动
- > 系统监测到制动器温度过高时，限制行驶速度，进入龟速行驶状态
- > 弯道自动限速
- > 驾驶者存在感应系统
- > 门架起升、下降终端缓冲等主动安全保护
- > Active safety protection, actively slowing down and implementing the parking brake after parking when the critical components are out of order;
- > System monitoring the brake temperature is too high, the vehicle limits the speed and travels with the tortoise speed;
- > Automatic speed limitation while turning;
- > Driver presence sensing system;
- > Terminal buffer of lifting and descending, other aspects implement active safety protection.

## 高效与节能 High efficiency and Energy-saving

- > 紧凑的车身设计有很大灵活性，在狭窄空间内自由作业
- > 低整车自重确保能耗处于较低水平
- > 双泵合流的节能型液压系统
- > 全液压同步转向系统保证更加精准的转向操控（选配）
- > 电能回收优先，分段叠加电液复合能量再生制动功能（选配）
- > Compact body design makes the vehicle having great flexibility, moving freely as one wishes even in a small space;
- > Low vehicle weight ensures low energy consumption;
- > Energy-saving type hydraulic system with double pump confluence;
- > Full hydraulic synchronous steering system ensures more accurate steering control (Optional);
- > Power recovery has priority, piecewise superimposed electric-hydraulic braking with energy regeneration (Optional).



## 智能 Intellectualization

- > 基于多点温度智能控制的循环冷却系统，使各部件的温度在最佳工作范围内
- > 独立液压油散热的电子风扇采用智能控制启闭，同时起到节能降噪的效果
- > The circulating cooling system based on multi-point temperature intelligent control makes the temperature of each component in the optimum working range;
- > The electronic fan with independent hydraulic oil cooling adopts intelligent control to start and stop, achieving the effect of saving energy and reducing noise at the same time.

## 舒适性 Comfortable

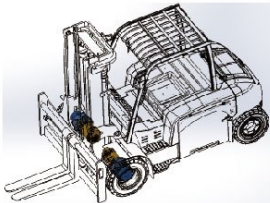
- > 进口超静音齿轮泵和电机减震垫，确保整车低噪
- > 全悬浮式座椅
- > Import super silent gear pump and motor damping pad to ensure low noise of vehicle;
- > Fully suspension operator's seat.

## 维护便捷 Convenient maintenance

- > 蓄电池自动补水装置
- > 配备独立的互锁式车辆快充充电接口，智能控制与诊断功能保障充电安全
- > 免维护的湿式制动系统
- > 整车停机30s内冷却风扇反转工作，除尘免维护
- > 蓄电池左右两侧对称布置，横向侧铲操作快速简单
- > 电控仓的高度适宜，维护方便
- > Auto water filling;
- > The body equips with independent interlocking vehicle fast charging interface, intelligent control and diagnosis function to ensure charging safety;
- > Maintenance free wet braking;
- > Within 30s after vehicle shutdown, the reversal of cooling can remove dust, maintenance free;
- > The two groups of batteries are symmetrically arranged on the left and right sides, and can be quickly replaced at any time by lateral side shovel;
- > The height of electric control warehouse is suitable for maintenance.

## 外观和视野 Exterior and Vision

- > 全新的外观设计，车身线条流畅美观呈流线型
- > 无尾架平衡重的高度超低，为驾驶员提供优异的后视野
- > Fire-new exterior design, the body lines are smooth, beautiful and streamlined;
- > Super-low height of balance weight without tailstock, which provides the driver with an excellent rear vision field.



集成双驱 Integrated dual driving system



自动驻车制动按钮 Automatic parking button



起升末端缓冲 Terminal buffer of lifting



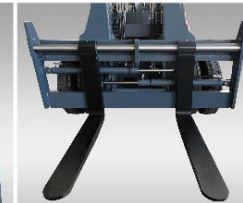
互锁式车载充电接口 Interlocking vehicle fast charging interface



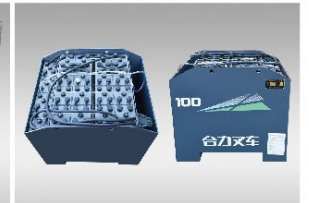
合适的电控仓高度、锁定型牵引销 Comfortable height of operation of electric control warehouse and lock-type traction pin



双后工作灯，旋转警示灯 Double rear working lights, revolving beacon



整体式调距叉 Integrated fork positioner



蓄电池自动补水装置 Auto water filling



# G 8.5-10t 蓄电池平衡重式叉车

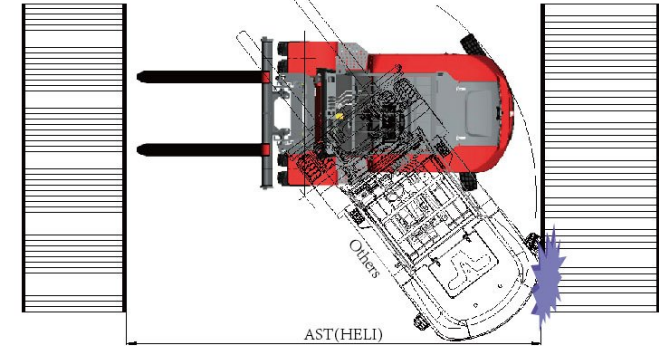
G series battery powered counterbalanced forklift truck

## 制造商和技术参数 Manufacturer and technical parameters

特性	Character			
1.01 制造商	Manufacturer	HELI		
1.02 型号	Model	CPD85	CPD100	
1.03 配置号	Configuration number	GA2	GA2	GB2
1.04 额定起重量	Rated capacity	Q(kg)	8500	10000
1.05 载荷中心距	Load center distance	c(mm)	600	600 <sup>①</sup>
1.06 动力方式	Power mode	蓄电池 Battery		
1.07 驾驶方式	Driving mode	乘坐式 Seated		
1.08 轴距	Wheel base	L1(mm)	2400	2580
轮胎	Tyre			
2.01 轮胎类型	Tyre type	实心胎 Slid type		
2.02 车轮数量(前/后)	Wheel number(front/rear)	4×/2		
2.03 轮距(前/后)	front wheel base	W3/W4(mm)	1636/1524	
2.04 轮胎(前/后)	Tyre(front/rear)	8.25-15/250-15		
尺寸 size				
3.01 前悬距	Front overhang	L2(mm)	660	
3.02 门架倾角, 前/后	Mast tilt angle, front/rear	α/β(°)	6/9	
3.03 门架回缩时高度	Height with mast retraction	H1(mm)	2700	2850
3.04 自由起升高度	Free lifting height	H3(mm)	180	
3.05 最大起升高度	Max.Lifting height	H4(mm)	3000	
3.06 护顶架高度	Overhead guard height	H4(m)	2445	
3.07 座椅面至护顶架距离	Overhead guard clearance(from face of seat)	H7(mm)	1024	
3.08 作业时最大高度	max.Height under working condition	H2(mm)	4190	4360
3.09 牵引挂钩中心高度	Traction pin center height	H9(mm)	687	677
3.10 挡货架(门架货叉面算起)	Backrest height(calculated from the fork surface)	H13(mm)	1012	
3.11 货叉尺寸 厚×宽×长	fork size: thickness×width×length	T×W×L(mm)	80×175×1220	85×175×1820
3.12 车体长度(含货叉)	Truck body length(with forks)	L(mm)	4800	4980
3.13 车体长度(不含货叉)	truck body length(without forks)	L'(mm)	3580	3760
3.14 车体宽度(前/后)	truck body width	W2(mm)	2116/1750	
3.15 转弯半径	Turning radius	r(mm)	3140	3320
3.16 门架离地间隙(满空载)	Clearance between mast and ground	H5(mm)	130/150	
3.17 轴距中心离地间隙(满空载)	Clearance between wheel base center and ground(loaded)	H6(mm)	170/180	
3.18 直角堆垛通道宽度(托盘1200×1200mm, 间隙200mm)	right angle stacking aisle width(pallet1200×1200mm, clearance 200mm)	As1(mm)	5000	5180
3.19 直角堆垛通道宽度(托盘1800×1800mm, 间隙200mm)	right angle stacking aisle width(pallet1800×1800mm, clearance 200mm)	As2(mm)	5200	5380
3.20 货叉调整范围(货叉外侧)最大/最小	Lateral fork adjustment(outside of fork)(max/min)	W6(mm)	420-2060	
性能 performance				
4.01 行驶速度, 满空载	Travelling speed: loaded/unloaded	km/h	14/16	13/15
4.02 起升速度, 满空载	Lifting speed: loaded/unloaded	mm/s	0.32/0.37	0.245/0.335
4.03 下降速度, 满空载	Lowering speed: loaded/unloaded	mm/s	0.42/0.38	
4.04 最大爬坡能力(满空载)	Gradeability(loaded/unloaded)	%	15/25	15/20
4.05 最大牵引力(满载)	max.Traction force(loaded)	KN	35	45
4.06 加速时间(10米)满空载	acceleration time(10m)loaded/unloaded	s	5.8/4.8	5.4/4.4
重量 Weight				
5.01 总重(包含/不包含蓄电池)	Total weight(with/without battery)	kg	12600/9600	13200/9800
5.02 桥负荷: 空载, 前/后	axle: unloaded, front/rear	kg	6370/6230	6795/6415
5.03 桥负荷: 满载, 前/后	Axle: loaded, front/rear	kg	19330/1770	21670/1530
电池 Battery				
6.01 蓄电池电压容量(5小时放电容量)	Battery voltage/capacity(discharging capacity in 5 hours)	V/Ah	80/1120	80/1240
6.02 蓄电池重量	battery weight	kg	1500×2	1600×2
电机和控制器 Motor and controller				
7.01 驱动电机功率(S2-60min)	Drive motor power(s2-60min)	kW	AC17.1×2	
7.02 起升电机功率(S3-15%)	lifting motor power(s3-15%)	kW	AC26.5×2	
7.03 制动电机功率(S3-15%)	braking motor power(s3-15%)	kW	AC 5	
7.04 驱动电机控制方式	drive motor controlling mode	MOS管交流 MOSFET/AC		
7.05 起升电机控制方式	Lifting motor controlling mode	MOS管交流 MOSFET/AC		
7.06 制动电机控制方式	Braking motor controlling mode	MOS管交流 MOSFET/AC		
其它 Others				
8.01 行车制动	Service brake	液压湿式制动		
8.02 停车制动	Parking brake	液压, 电开关操控		
8.03 液压系统工作压力	Hydraulic system working pressure	Mpa	20	
8.04 控制器型号	Type of drive control	ZAPI		

注1: 本车型为增强型, 与GA2的差别在于900载荷中心处具备9t的能力, 详见载荷曲线图。

Note 1: This model is reinforced, and the difference between GA2 and GB2 is that it has the ability of 9 t at the center of 900 load. See the load curve for details.

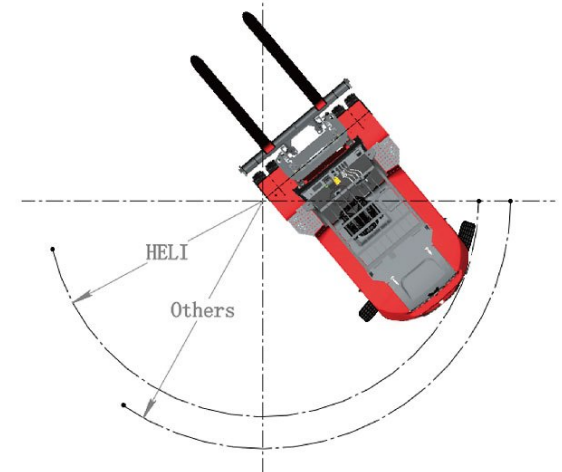


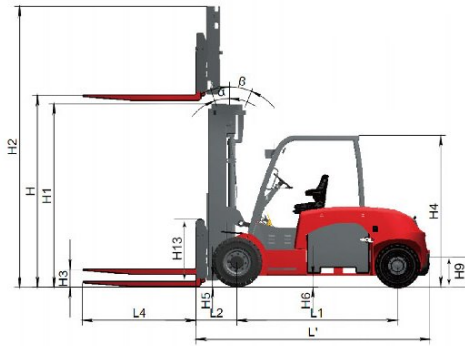
- 直角堆垛通道宽度(托盘1200×1200, 间隙200)  
right angle stacking aisle width (pallet1200×1200mm, clearance 200mm)  
5380mm(CPD100)  
6040mm(CPCD100) (Others)

- 小巧的车身设计和较小的轴距使得整车在狭小空间内可以挥洒自如, 同时保持高效率作业的动力和速度。  
The compact body design and smaller wheelbase allow the vehicle to sprinkle freely in a narrow space while maintaining the power and speed capable of achieving high productivity.

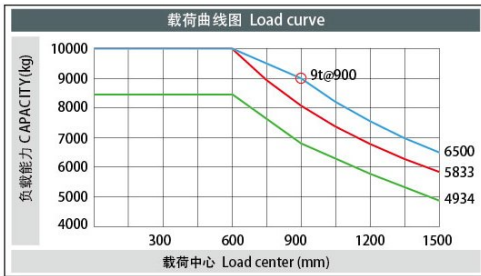
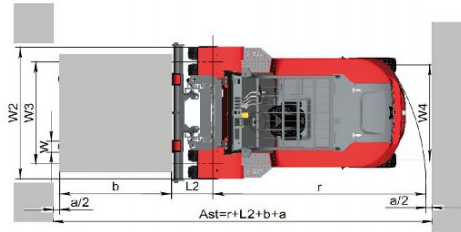
- 全长, 不带货叉  
truck body length(without forks)  
3760mm(CPD100)  
4210mm(CPCD100) (Others)

- 转弯半径  
turning radius  
3320mm(CPD100)  
3900mm(CPCD100) (Others)





Ast: 直角堆垛通道宽度 Right angle stacking aisle width  
a: 间隙 Clearance  
b: 载荷长度 Load Length



— CPD100-GA2 — CPD100-GB2 — CPD85-GB2

注：竖轴表示承载量，横轴表示载荷中心。载荷中心是从货叉正面计算起，标准载荷的基点是指负荷边长为1200毫米的立方体中心位置。当门架前倾、使用非标准货叉或装载超过正常宽度的负荷时，将会使承载量减少。通过负荷曲线图，能及时地了解标准门架在各种载荷中心时的承载能力。

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 1200mm 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.

**蓄电池 Battery**

车型 model	电池 battery	电压 (V) voltage (V)	容量 (Ah) capacity(Ah)
CPD85	标配 standard	80	1120
	选配 optional	80	1240
CPD100	标配 standard	80	1240
	选配 optional	80	1400
		80	1550


**能量再生技术 Renewable energy technologies**

应用优先转向负荷传感和交流控制能量再生技术，叉车更节能，蓄电池单作业循环时间最大延长15%。

With the use of the excellent load-sensing steering system and AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

↑ **15%**

蓄电池单作业循环时间延长  
THE PERFORMANCE OF BATTERY INCREASES

**8.5-10t宽视野基本型门架 8.5-10t WIDE VIEW MAST**

门架型号 Mast model	最大起升高度 Max. fork height (mm)	承载能力(载荷中心为600mm)(Kg) Load capacity (load center 600mm)		门架全高(货叉落地)(mm) Mast height, lowered			整车自重(kg) Service weight			门架倾角 Mast tilting angle (°) α / β
		CPCD85	CPCD100	CPCD85	CPD100-GA2	CPD100-GB2	CPCD85	CPD100-GA2	CPD100-GB2	
M250	2500	8500	10000	2450	2600	2700	11910	13090	14060	6/9
M270	2700	8500	10000	2550	2700	2800	11970	13120	14090	6/9
M300	3000	8500	10000	2700	2850	2950	12600	13200	14160	6/9
M330	3300	8500	10000	2850	3000	3100	12700	13250	14220	6/9
M350	3500	8500	10000	2950	3100	3200	12840	13290	14260	6/9
M375	3750	8500	10000	3075	3225	3325	12920	13340	14310	6/9
M400	4000	8500	10000	3250	3400	3500	13100	13380	14350	6/9
M425	4250	8500	10000	3375	3525	3625	13250	13450	14420	6/9
M450	4500	8500	10000	3500	3650	3750	13370	13500	14470	6/9
M475	4750	8500	10000	3625	3775	3875	13520	13560	14530	6/6
M500	5000	8500	10000	3750	3900	4000	13620	13600	14570	6/6
M550	5500	8000	9500	4050	4200	4300	13950	13900	14870	3/6
M600	6000	7500	9000	4300	4450	4550	14150	13950	14920	3/6
M650	6500	-	8500	-	4700	4800	-	14000	14970	3/6
M700	7000	-	8000	-	5050	5150	-	14050	15020	3/6

**宽视野二级全自由门架 WIDE VIEW FULL FREE 2-STAGE MAST**

门架型号 Mast model	最大起升高度 Max. fork height (mm)	承载能力(载荷中心为600mm)(Kg) Load capacity (load center 600mm)		门架全高(货叉落地)(mm) Mast height, lowered		自由起升高度(带挡货架) Free lift (with backrest)(mm)		整车自重(kg) Service weight			门架倾角 Mast tilting angle (°) α / β	
		CPCD85	CPCD100	CPCD85	CPD100-GA2	CPD100-GB2	CPCD85	CPCD85	CPCD85	CPD100-GA2		CPD100-GB2
ZM250	2000	8500	10000	2450	2600	2700	1090	1300	11970	13150	14120	6/9
ZM270	2500	8500	10000	2550	2700	2800	1190	1400	12030	13180	14150	6/9
ZM300	3000	8500	10000	2700	2850	2950	1340	1550	12620	13220	14190	6/9
ZM330	3300	8500	10000	2850	3000	3100	1490	1700	12720	13270	14240	6/9
ZM350	3500	8500	10000	2950	3100	3200	1590	1800	12850	13300	14270	6/9
ZM375	3750	8500	10000	3075	3225	3325	1715	1925	12910	13330	14300	6/9
ZM400	4000	8500	10000	3250	3400	3500	1890	2100	13200	13480	14450	6/9
ZM425	4250	8500	10000	3375	3525	3625	2015	2225	13310	13500	14470	6/9
ZM450	4500	8500	10000	3500	3650	3750	2140	2350	13420	13550	14520	6/9
ZM475	4750	8500	10000	3625	3775	3875	2265	2475	13540	13580	14550	6/6
ZM500	5000	8500	10000	3750	3900	4000	2390	2600	13640	13620	14590	6/6
ZM550	5500	8000	9500	4050	4200	4300	2690	2900	13850	13800	14770	3/6
ZM600	6000	7500	9000	4300	4450	4550	2940	3150	14070	13870	14840	3/6

**宽视野三级全自由门架 WIDE VIEW FULL FREE 3-STAGE MAST**

门架型号 Mast model	最大起升高度 Max. fork height (mm)	承载能力(载荷中心为600mm)(Kg) Load capacity (load center 600mm)		门架全高(货叉落地)(mm) Mast height, lowered		自由起升高度(带挡货架) Free lift (with backrest)(mm)		整车自重(kg) Service weight			门架倾角 Mast tilting angle (°) α / β
		CPCD85	CPCD100	CPCD85	CPD100	CPCD85	CPD100	CPCD85	CPD100-GA2	CPD100-GB2	
ZSM360	3600	7500	9000	2450	2570	1090	1150	13540	13960	14930	6/9
ZSM400	4000	7500	9000	2575	2700	1215	1280	13770	14050	15020	6/9
ZSM435	4350	7500	9000	2700	2820	1340	1400	13940	14130	14800	6/9
ZSM450	4500	7500	9000	2775	2870	1415	1475	14040	14170	15140	6/6
ZSM480	4800	7500	9000	2850	2970	1490	1550	14200	14240	15210	6/6
ZSM500	5000	7500	9000	2950	3035	1590	1615	14310	14290	15260	6/6
ZSM540	5400	7000	8500	3075	3225	1775	1805	14470	14420	15390	3/6
ZSM600	6000	6500	8000	3375	3425	2015	2005	14760	14560	15530	3/6
ZSM650	6500	6000	7500	3600	3590	2240	2170	14880	14680	15650	3/6
ZSM700	7000	5500	7000	3750	3855	2390	2435	15050	14850	15820	3/6
ZSM800	8000	4500	6000	4135	4240	2640	2685	15260	15060	16030	3/6