

HELI合力

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4-5t

G3系列电动平衡重式叉车

G3 series 4-5t electric counterbalance
forklift truck



标准配置 Standard configuration	选用装置 Optional
宽视野基本型门架	Wide view standard mast
标准货叉	Standard fork
Ⅲ级货叉架	Class III standard carrier
挡货架	Backrest
两片多路阀	Two-spools valve
蓄电池	Battery
蓄电池自动补水	Automatic water filling for battery
全悬浮座椅	Full suspension seat
护顶架	Overhead guard
液晶组合仪表	LED combined display
超弹性实心胎	Solid tyres
牵引销	Traction pin
LED信号灯、闪烁式警示灯	LED signal light, LED warning light(flashing)
智能车队管理系统	Smart fleet management system
USB接口	USB interface
转弯自动减速	Automatic steering slow down device
	驾驶室
	挡风
	无痕实心胎
	警示灯(旋转和蜂鸣)
	后工作灯
	用户指定颜色
	侧移器
	其他属具
	Cab
	Windshield
	Coloring tyres(white/green)
	LED warning lights(rotating /buzzer)
	Rear work light
	Customer color
	Side shifter
	Other attachments



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

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www.helichina.com

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



可靠性高 High Reliability

- 采用免维护湿式制动集成电桥，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控，智能优越；
- 采用大屏智能仪表，全面监控整车状态，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；
- 高强度整体式焊接顶架，提升作业安全系数；
- 标配蓄电池侧铲，使蓄电池更换更加安全高效；
- 转弯自动减速功能，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 changing 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，节能高效；
- 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 travelling 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；
- 标配方向盘启动转向功能，减少转向操作步骤；
- 悬浮座椅及宽视野门架，提升驾驶体验；
- 优化蓄电池布置方式及平衡重设计，提升后视野范围；
- 倾斜缸下沉，提升腿部空间。
- The truck has lower pedal height and larger egress and ingress space.
- Standard configuration of steering activated by steering wheel reduces steering process.
- Suspension seat and wide view mast improve driving experience.
- Optimal battery layout and design of counterbalance improve the rear view.
- Lower layout of tilting cylinder improves the space for legs.

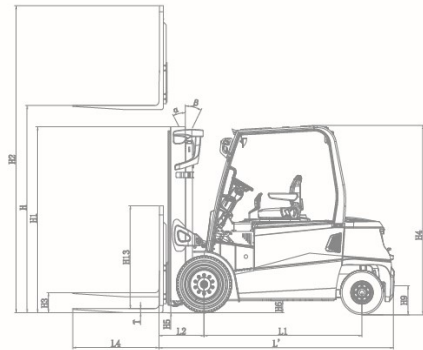
维修便捷性提升 Easy Maintenance

- 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 4-5t

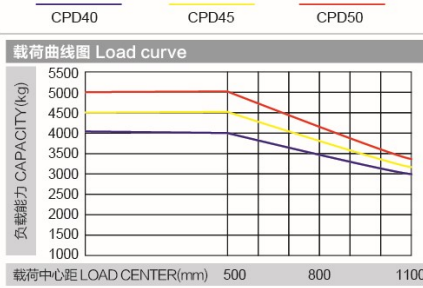
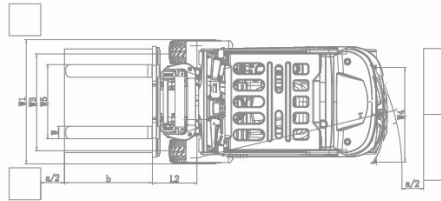
制造商和技术参数 Manufacturer's Data and Design Characteristics

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		GB3	GB3	GB3	
1.04	额定载重	Rated capacity	Q	kg	4000	4500	5000
1.05	载荷中心距	Load center distance	c	mm	500	500	500
1.06	动力方式	Power mode		电动electric	电动electric	电动electric	
1.07	驾驶方式	Driving mode		座式seated	座式seated	座式seated	
1.08	轴距	Wheel base	L1	mm	1960	1960	1960
	轮胎	Tyre					
2.01	轮胎类型	Tyre type		SE	SE	SE	
2.02	车轮数量,前/后	Wheel number,front/rear		2/2	2/2	2/2	
2.03	前轮距	Track width,front	W3	mm	1120	1120	1189
2.04	后轮距	Track width,rear	W4	mm	1060	1060	1060
2.05	前轮规格	Tyre Size, front		250-15	250-15	28x12.5-15	
2.06	后轮规格	Tyre Size, rear		21x8-9	21x8-9	21x8-9	
	尺寸	size					
3.01	前悬距	Front overhang	L2	mm	560	560	560
3.02	门架倾斜角度,前/后	Mast tilt angle , front/rear	α / β	°	6/8	6/8	6/8
3.03	门架落地高度	Height, mast lowered	H1	mm	2240	2240	2230
3.04	自由起升高度	Free lift	H3	mm	150	150	150
3.05	标准门架起升高度	Standard mast lifting height	H	mm	3000	3000	3000
3.06	门架作业时高度	Height, mast extended	H2	mm	4235	4235	4225
3.07	护顶架高度	Overhead guard height	H4	mm	2275	2275	2270
3.08	货叉尺寸 厚×宽×长	Fork size: thickness/width/length	T×W×L4	mm	55/150/1070	55/150/1070	55/150/1070
3.09	货叉架 DIN标准	Fork carriage DIN standard		mm	3A	3A	3A
3.10	车体长度, 不含货叉	Overall length,without forks	L ’		2920	2920	2920
3.11	车体宽度	Overall width	W1	mm	1350	1350	1500
3.12	转弯半径	Turning radius	r	mm	2580	2580	2580
3.13	离地间隙,满载,门架下方	Ground clearance,laden,under mast	H5	mm	140	140	130
3.14	离地间隙,满载,轴距中心	Ground clearance,laden,centre of wheelbase	H6	mm	145	145	135
3.15	直角堆垛通道宽度 托盘1000x1000mm,间隙200mm	Right angle stacking aisle width (Pallet1000x1000mm, clearance 200mm)	Ast	mm	4340	4340	4340
3.16	直角堆垛通道宽度 托盘1200x1200mm,间隙200mm	right angle stacking aisle width (Pallet1200x1200mm, clearance 200mm)	Ast	mm	4540	4540	4540
3.17	货叉调节范围 货叉外侧, 最大/最小	Lateral fork adjustment Outside of forks, max/min		mm	1280/300	1280/300	1280/300
	性能	Performance					
4.01	行驶速度,满载/空载	Travelling speed, laden/unladen		km/h	13/14	13/14	13/14
4.02	起升速度,满载/空载	Lifting speed, laden/unladen		m/s	310/450	280/450	260/450
4.03	下降速度,满载/空载	Lowering speed, laden/unladen		m/s	500/450	500/450	500/450
4.04	最大爬坡能力,满载/空载	Maximum gradeability, laden/unladen		%	16/27	15/26	14/25
4.05	最大牵引力,满载	Maximum traction force, laden		N	21000	21000	21000
	重量	Weight					
5.01	自重,包含/不包含蓄电池	Service weight, with/without battery			6720/5130	6960/5130	7300/5470
5.02	桥负荷,空载,前/后	Axle load, unladen, front/rear		kg	3350/3370	3475/3485	3455/3845
5.03	桥负荷,满载,前/后	Axle load, laden, front/rear		kg	9470/1250	10380/1080	11190/1110
	蓄电池	Battery					
6.01	蓄电池电压/容量 K5	Battery voltage/capacity ks	U/K5	V/Ah	80/600	80/700	80/700
6.02	蓄电池重量	Battery weight		kg	1590	1830	1830
6.03	蓄电池标准	Battery standard			DIN 43536A	DIN 43536A	DIN 43536A
	电机和控制器	Motor and controller					
7.01	驱动电机功率, S2-60分钟	Drive motor power, S2-60minutes		kW	18	18	18
7.02	起升电机功率, S3-15%	Lifting motor power, S3-15%		kW	26.5	26.5	26.5
7.03	转向电机功率, S3-15%	Steering motor power, S3-15%		kW	2.5	2.5	2.5
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	转向电机控制方式	Steering motor controlling mode			MOS管/交流 MOSFET/AC		



Ast: 直角堆垛通道宽度
Ast: Right angle stacking aisle width

a: 间隙,200mm.
a: Clearance,200mm



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1000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 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 2 Numeric key: 2	在主界面切换S、P、E工作模式 Switching among S, P, E modes in home page
数字键 3 Numeric key: 3	在主界面与次界面相互切换 Switching between home page and secondary page
数字键 4 Numeric key: 4	速度单位KM/h与MPH单位切换 Switching between KM/hand MPH

- 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 display the whole truck's working condition, fault detect and other important information completely which make the operator master the whole truck condition directly and conveniently.

宽视野基本型门架WIDE VIEW MAST

门架型号 mast model	最大起升 高度Max lifting height mm	承载能力(载荷中心为500mm) (kg) load capacity (load center 500mm)			门架全高(货叉落地) (mm) mast overall height (fork to the ground)		自由起升 (带挡货架) free lift (with backrest)	整车自重 (kg) service weight			门架倾角 mast tilt angle
		CPD40	CPD45	CPD50	货叉落地 mmmast lowered	货叉起升时 (带挡货架) mmfork lifted (with backrest)		CPD40	CPD45	CPD50	
M250	2500	4000	4500	5000	2250	3733	1620	6665	6905	7245	6-8°
M300	3000	4000	4500	5000	2230	4233	1870	6720	6960	7300	6-8°
M330	3300	4000	4500	5000	2650	4533	2120	6750	6990	7330	6-8°
M350	3500	4000	4500	5000	2750	4733	2270	6770	7010	7350	6-8°
M370	3700	4000	4450	4900	2875	4933	2370	6795	7035	7375	6-8°
M400	4000	4000	4350	4750	3050	5233	2470	6835	7075	7415	6-8°
M425	4250	4000	4250	4650	3175	5483	2670	6860	7100	7440	6-8°
M450	4500	4000	4150	4500	3300	5733	2795	6890	7130	7470	6-8°
M475	4750	3900	4100	4400	3425	5983	2920	6915	7155	7495	6-8°
M500	5000	3800	4000	4300	3550	6233	3170	6945	7185	7525	6-8°
M550	5500	3650	3800	4150	3850	6733	3470	7005	7245	7585	6-5°
M600	6000	3400	3450	3850	4100	7233	3720	7060	7300	7640	3-5°

注: 4-5t不带挡货架自由起升+271mm; Free lift without backrest will increase by 271mm.

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 lifting height mm	承载能力(载荷中心为500mm) (kg) load capacity (load center 500mm)			门架全高(货叉落地) (mm) mast overall height (fork to the ground)		自由起升 (带挡货架) free lift (with backrest)	整车自重 (kg) service weight			门架倾角 mast tilt angle
		CPD40	CPD45	CPD50	货叉落地 mmmast lowered	货叉起升时 (带挡货架) mmfork lifted (with backrest)		CPD40	CPD45	CPD50	
ZM250	2500	4000	4500	5000	1980	3733	777	6760	7000	7340	6-8°
ZM261	2610	4000	4500	5000	2035	3792	832	6770	7010	7350	6-8°
ZM300	3000	4000	4500	5000	2230	4233	1027	6820	7060	7400	6-8°
ZM330	3300	4000	4500	5000	2380	4533	1177	6853	7093	7433	6-8°
ZM350	3500	4000	4500	4900	2480	4733	1277	6883	7123	7463	6-8°
ZM370	3700	4000	4400	4800	2580	4933	1377	6915	7155	7495	6-8°
ZM400	4000	4000	4300	4650	2780	5233	1577	6965	7205	7545	6-8°
ZM425	4250	4000	4200	4550	2905	5483	1702	6995	7235	7575	6-8°
ZM450	4500	3950	4100	4450	3030	5733	1827	7033	7273	7613	6-8°
ZM475	4750	3850	4050	4350	3155	5983	1952	7065	7305	7645	6-8°
ZM500	5000	3750	3950	4250	3280	6233	2077	7100	7340	7680	6-8°
ZM550	5500	3600	3750	4100	3580	6733	2377	7165	7405	7745	6-5°
ZM600	6000	3350	3400	3800	3830	7233	2627	7220	7460	7800	3-5°

注: 4-5t不带挡货架自由起升+271mm; Free lift without backrest will increase by 271mm.

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 lifting height mm	承载能力(载荷中心为500mm) (kg) load capacity (load center 500mm)			门架全高(货叉落地) (mm) mast overall height (fork to the ground)		自由起升 (带挡货架) free lift (with backrest)	整车自重 (kg) service weight			门架倾角 mast tilt angle
		CPD40	CPD45	CPD50	货叉落地 mmmast lowered	货叉起升时 (带挡货架) mmfork lifted (with backrest)		CPD40	CPD45	CPD50	
ZSM360	3600	4000	4350	4900	1930	4833	727	7130	7370	7710	6-8°
ZSM400	4000	3950	4200	4750	2070	5233	867	7180	7420	7760	6-8°
ZSM435	4350	3850	4050	4450	2180	5583	977	7210	7450	7790	6-8°
ZSM450	4500	3800	4000	4400	2230	5733	1027	7240	7480	7820	6-8°
ZSM470	4800	3700	3950	4300	2345	6033	1142	7280	7520	7860	6-8°
ZSM500	5000	3600	3850	4200	2480	6233	1277	7330	7570	7910	6-8°
ZSM540	5400	3450	3700	4050	2615	6633	1412	7450	7690	8030	6-5°
ZSM600	6000	3250	3350	3650	2850	7233	1647	7540	7780	8120	6-5°
ZSM650	6500	2650	2750	3150	3015	7733	1812	7600	7840	8180	6-5°
ZSM700	7000	2150	2250	2650	3215	8233	2012	7670	7910	8250	3-5°

注: 4-5t不带挡货架自由起升+380mm; Free lift without backrest will increase by 380mm.