G2 series / 智能·环保 INTELLIGENT ENVIRONMENT-FRIENDLY

宽视野三节全自由门架 WIDE VIEW FULL FREE 3-STAGE MAST

产品型号 Model model	最大起升高度 Max lifting height (mm)	额定起升重量(mm) Load capacity (load center 600mm)(kg)		门架全展开高 Maximum height	自由起升高度 Free lift height	整体外廓 Service weight(kg)		货叉规格(长*宽) Fork lift angle (front/rear)
		CQD15-G/B35Li	CQD20-G/B35Li	1.6-2t	1.6-2t	CQD16-G/B35Li	CQD20-G/B35Li	
CM420	4200	1600	2000	2314	1280	3490	3700	2*1/4"
CM450	4500	1600	2000	2581	1540	3537	3727	2*1/4"
CM540	5400	1600	2000	2581	1540	3537	3727	2*1/4"
CM575	5700	1550	1900	2681	1640	3565	3755	2*1/4"
CM630	6300	1500	1900	2881	1840	3623	3813	2*1/4"
CM675	6750	1450	1800	2982	1940	3656	3846	2*1/4"
CM700	7000	1400	1700	3083	2030	3680	3870	2*1/4"
CM715	7150	1400	1700	3115	2080	3694	3884	2*1/4"
CM730	7300	1300	1700	3232	2190	3708	3918	2*1/4"
CM800	8000	1200	1500	3398	2350	3775	3965	2*1/4"
CM850	8500	1100	1500	3498	2460	3809	4019	2*1/4"
CM900	9000	900	1100	3730	2690	3871	4061	2*1/4"
CM950	9500	800	1000	3898	2860	3920	4110	2*1/4"
CM1000	10000	-	850	4064	3030	-	4158	2*1/4"
CM1050	10500	-	800	4230	3190	-	4205	2*1/4"
CM1060	10600	-	750	4330	3290	-	4234	2*1/4"
CM1100	11000	-	700	4398	3360	-	4254	2*1/4"
CM1150	11500	-	650	4564	3530	-	4331	2*1/4"
CM1200	12000	-	550	4730	3690	-	4349	2*1/4"
CM1250	12500	-	500	4898	3860	-	4398	2*1/4"

注:不特别说明,自由起升高度为:480(B35Li),自由起升高度最低170mm,其余高度提升25mm。
Note:The free lift height is 480mm(B35Li)when the truck is not equipped with backrest, The free lift height is 170mm (minimum) and other height is 25mm increased.

宽视野基本型门架 WIDE VIEW MAST

产品型号 Model model	最大起升高度 Max lifting height (mm)	额定起升重量(mm) Load capacity (load center 600mm)(kg)		门架全展开高 Maximum height	整体外廓 Service weight(kg)		货叉规格(长*宽) Fork lift angle (front/rear)
		CQD15-G/B35Li	CQD20-G/B35Li	1.6-2t	CQD16-G/B35Li	CQD20-G/B35Li	
M2*	2900	1600	2000	2200	3231	3421	2*1/4"
M330	3300	1600	2000	2310	3050	3440	2*1/4"
M360	3600	1600	2000	2550	3279	3469	2*1/4"
M380	3800	1600	2000	2650	3293	3483	2*1/4"
M400	4000	1600	2000	2750	3308	3498	2*1/4"
M420	4200	1600	2000	2850	3322	3512	2*1/4"
M450	4500	1600	2000	2950	3334	3524	2*1/4"
M460	4600	1600	2000	3050	3390	3580	2*1/4"
M500	5000	1500	1900	3150	3418	3608	2*1/4"

1.6t 2.0t

注:图标表示承载量,横轴表示载荷中心,载荷中心是从负叉正面计算起,标准载荷距离是负载货物在托盘上的100%重心到立叉主体中心位置。当门架倾斜,使用扫描仪测定实际载荷时应正常定置的负荷时,将会使承载量减少,请过负荷运转时,因此过载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.

HELI

充电机技术 Charger technology

- 高效
  大于95%充电效率,符合节能减排要求。
- 快速
  最快6小时可充满100%全容量。
- 兼容
  48V80V兼容,满足不同电压等级需求。
- 安全
  内置防反保护,具备欠压自锁再启动,完善的故障自检系统中,只要按产维护。

> High Efficiency
> Charging efficiency higher than 95% meeting the requirements of energy saving and emissions reduction
> Speedness
> 100% charging realized in 2 hours of the zenenal
> Compatibility
> 48 v / 80 v compatibility meeting the demand of different voltage levels
> Safety
> Built-in mis-connecting protection offering self solotring function under fault, hyfact fault self checking storm facilitating users maintenance.

标准配置 Standard configuration	选用装置 Optional device
AC行走电机	AC traveling motor
AC起升电机	AC lifting motor
AC转向电机	AC steering motor
Inmotion行走电机控制器	Inmotion travelling motor controller
Inmotion起升电机控制器	Inmotion lifting motor controller
Inmotion转向电机控制器	Inmotion steering motor controller
电磁制动	Electromagnetic brake
DC/DC转换器	DC/DC converter
低噪音油泵	Low noisy gear pump
自打滑	Control valve (four three)
4600mm三节全自由门架	4600mm three stage full free lift mast
数字式指示器	Integral solenoid
标准货叉	Standard fork
挡货架	Backrest
聚氨酯轮胎	Polyurethane tyre
LED灯表盘	LED meter
前工作灯	Front working light
警示灯	Warning light
	三级自由门架
	其他高度三节全自门架
	其他长度货叉
	货叉臂
	起升高度以让
	起重装置
	锂电池充电机
	颜色尺寸要求
	Three-stage full free lift mast (other lifting height)
	fork with other length
	Fork extension
	Lifting height pre-selector
	Monitoring system
	Battery charger
	Customer made color

HELI 安徽合力股份有限公司 ANHUI HELI CO., LTD.
地 址:中国合肥经开区兴大路669号
电 话:(86 551)8296395,8292326,8292355
传 真:(86 551)8296999
网 址:http://www.heilichina.com
服 务:400 160 0761
ADD:669 Fengmo Street, Economical & Development Zone, Hefei, P.R. China
TEL:(86 551)8296395,8292326,8292355
FAX:(86 551)8296999
WEBSITE:http://www.heilichina.com
400 SERVICE: 400 160 0761

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

G2 series / 智能·环保 INTELLIGENT ENVIRONMENT-FRIENDLY

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

	Item	Character			
1.01	制造厂商	Manufacturer		HELI	
1.02	型号	Model		CQD16	CQD20
1.03	配置等	Configuration number		G835 Li	G835 Li
1.04	额定负载能力	Load capacity	Q	kg	1600	2000
1.05	载荷中心距	load center distance	C	mm	600
1.06	动力形式	Power mode		锂电池 Li-ion Battery
1.07	驾驶方式	Driving mode		座驾 Seated
1.08	轴距	Wheel base	Y	mm	1450	1515
轮胎		**Tyre**		
2.01	轮胎类型	Tyre type		聚氨酯 Polyurethane
2.02	轮胎数量 (前后轮/多驱轮)(x=驱动轮)	Wheels, number front/rear (x=drive wheels)		1x2
2.03	轮距 (参数轮)	Track width, rear	b3	mm	1157	1143
2.04	承载轮尺寸	Wheel size, rear		mm	φ 285x100	φ 350x100
2.05	驱动轮尺寸	Wheel size, front		mm	φ 343x114	φ 343x114
尺寸		**Size**		
3.01	标准门架起升高度	Lift height	h3	mm	4600	4600
3.02	自由起升高度	Free lift	h2	mm	1280	1280
3.03	门架展开高度	Mast height, lowered	h1	mm	2314	2314
3.04	货叉尺寸, 货架/宽度/长度	Fork size thickness*width*length	s/w/l	mm	45x122x1150	40x122x1150
3.05	货叉间距可调	Fork adjusting width	Aer	mm	244-724	244-724
3.06	货叉倾角 (后/前)	Fork lift angle (front/rear)	α/β	°	2°/4°	2°/4°
3.07	货叉侧移量	Fork sideshifting		mm	±75	±75
3.08	车体长度 (不含货叉)	Truck body length (fork excluded)	L	mm	1840	1942
3.09	车体宽度	Truck body width	b1	mm	1270	1270
3.10	支腿间宽	Distance between support arms	b2	mm	950	950
3.11	前轮轮廓	Reach distance	L4	mm	456	420
3.12	护顶架高度	Height of overhead guard (cab)	h4	mm	2215	2215
3.13	最小离地间隙 (门架处)	Ground clearance, below mast	m2	mm	75	75
3.14	最小转弯半径	Turning radius	Wa	mm	1689	1751
3.15	货叉前端到车身轴线中心距离	Load distance, centre of support arm wheel to face of forks	X	mm	349	383
3.16	直角堆垛通道 (托盘1200L x 1000W)	托盘1200	Ast	mm	2914	2965
3.17	直角堆垛通道(托盘1000L x 1200W)	托盘1200	Ast	mm	2746	2810
性能		**Performance**		
4.01	行驶速度, 满/空载	Travelling speed, with/without load	km/h		11/12	12/14
4.02	起升速度, 满/空载	Lifting speed, with/without load	m/s		0.34/0.53	0.35/0.55
4.03	下降速度, 满/空载	Lowering speed, with/without load	m/s		0.5/0.5	0.5/0.5
4.04	起降速度, 满/空载	Reach speed, with/without load	m/s		0.11/0.11	0.11/0.11
4.05	最大爬坡能力, 满/空载	Maximum climbing ability, with/without load	%		10/15	10/15
重量		**Weight**		
5.01	整车自重 (含蓄电池)	Total weight (with battery)	kg		3640	3650
5.02	空载轴负荷, 驱动轮/承载轮 (货叉回缩)	Axle load,fork retracted,without load,front/rear	kg		1570/1880	1695/1955
5.03	空载轴负荷, 驱动轮/承载轮 (货叉回缩)	Axle load,fork retracted,without load,front/rear	kg		2165/1270	2285/1360
5.04	满载轴负荷, 驱动轮/承载轮 (货叉回缩)	Axle load,fork extracted,with load,front/rear	kg		410/4445	580/5065
5.05	满载轴负荷, 驱动轮/承载轮 (货叉回缩)	Axle load,fork extracted,with load,front/rear	kg		1920/3140	1985/3655
蓄电池		**Battery**		
6.01	蓄电池电压/额定容量	Battery voltage/capacity	V/Ah		48/320(B)(配48V400)(B)(配48V450)(B)(配48V500)(B)(配48V550)
6.02	整车电池重	Battery weight	kg		430	535
6.03	蓄电池箱体尺寸	Battery box dimension	mm		1220x296x790	1220x352x790
电机及控制		**Motor and controller**		
7.01	驱动电机功率(S2-60min)	Drive motor power(S2-60min)	kW		6	8
7.02	起升电机功率(S3-15%)	Lifting motor power(S3-15%)	kW		11	12.5
7.03	转向电机功率(S3-10%)	Steering motor power(S3-10%)	kW		0.4	0.4
7.04	驱动控制方式	Type of driving control			MOSFET/AC
7.05	起升控制方式	Type of lifting control			MOSFET/AC
7.06	转向控制方式	Type of Steering control			MOSFET/AC
7.07	变速箱	Transmission box			合力专用变速箱 HELI special transmission box
7.08	行车制动	Service brake			电磁制动 Electromagnetic brake
7.09	液压系统工作压力	Hydraulic system working pressure	Mpa		17.5	20.5

注:蓄电池参数请选用及另有重大小,请询问销售或技术人员。 NOTE: *Detailed information about the battery, please contact our salesmen or engineer.

G2 series / 智能·环保 INTELLIGENT ENVIRONMENT-FRIENDLY

整车优势 FEATURES OF THE COMPLETED TRUCK

三相交流电机技术 Three phase AC type motor technology

- 行驶、提升和转向均采用三相交流电机控制
- 强大的实现性
- 变频行驶工作原理和清洁切换
- 无碳刷的全线开电机寿命更长。维护修理更佳,减速时进行能量回充,操作性能更佳
- Three phase AC type motor control on travelling, lifting and steering
- Good acceleration
- Fast and sensitive respond on travel direction shifting Free from maintenance motor without carbon brush having long service life and low maintenance cost
- Energy regenerating during deceleration extending operation hours

全新的液压设计 Newly designed hydraulic system

- 全新的液压设计,使液压系统的工作效率更高
- 大功率的起升电机
- MOSFET起升调速控制
- 新型无少电阻技术使用寿命长
- Newly designed hydraulic system with high working efficiency
- High power lifting motor
- MOSFET lifting speed governing electric controller
- New type low noisy gear pump

更加优化的智能型设计 Optimized intelligent design

- Inmotion行走电机控制器
- Inmotion起升电机控制器
- Inmotion转向电机控制器
- CAN总线技术
- 主回路在制动回路时紧急断电
- 驻车制动自制动
- 操作顺序保护
- 行程速度控制
- 电磁制动器
- 提升高度认证(选配)
- Inmotion travelling motor controller
- Inmotion lifting motor controller
- Inmotion steering motor controller
- CAN bus technology
- Emergency power off of both main circuit and control circuit
- Parking brake on slope
- Operation sequence protection
- Travelling speed control
- Electromagnetic brake
- Lifting height pre-selector (optional)

先进的EPS电子动力转向 Advanced EPS electric powered steering

- EPS电子动力转向,为每车提供了轻便灵活、高效静音的操作
- 转向时平稳
- 180度/360度圆形转向模式,可实现灵活转弯
- 转向自动最新的速度改变
- EPS electric powered steering offering easy, flexible, high efficient and mute operation
- Steering motor controller
- Automatic centering function
- Real-time shifting between 180° steering mode and 360° steering mode
- Automatic limit on speed and accelerated speed when steering

全新的液压设计 Newly designed hydraulic system

- To control hydraulic functions
- Clear operating units
- Proportional solenoid offering a stable and comfort towering action

操作轻便的拇指开关 Easy operated thumb switch

- 拇指开关可以控制所有操作功能
- 操作顺序功能保证操作的一致了性
- 此时电磁阀控制下降动作,平稳舒适

绿色环保 Environment Friendliness

- 零排放 Zero emission
- 低噪音 Low noise
- 不含重金属 Free of heavy metals
- 无腐蚀现象 No corrosion
- 无酸雾挥发 No acid mist volatilization

免维护 Maintenance Free

- 无需补液、防尘 Unnecessary of fluid adding and dust proofing
- 免日常维护 Daily maintenance free
- 免人工保养 Manual maintenance free

长寿命 Long Service Life

- 循环使用4000次容量保持75%以上
- 同等应用条件,寿命远超铅酸电池
- 寿命超额后超过市场一万小时超长质保
- 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

高效节能 High Efficiency and Energy Saving

- 2小时充电可满足6-8小时作业使用
- 高容量密度,日耗电量1%以以下
- 95%能量转换率,能源转换更高
- 可随时充电,操作简单,对电池寿命无任何影响
- 电池无需更换,节省成本
- 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

高安全 High Safety

- 根据工业车辆特点,采用锂电池材料、电芯类型、PACK工艺以及系统电源管理的整车安全防护设计
- "多节点安全控制保护"、实现车辆多状态实时控制保护
- 充电"预防确认"功能、"自动复位"、"热插拔"操作
- "全系统最急断电"功能,达到车辆控制系统和BMS电源迅速切断,安全有效
- 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

适合高低温工作 Suitable for working in both high and low environment

- 在-25℃至55℃之间高低温工作环境,锂电池能切换性能有良好的性能
- Lithium battery is better than lead-acid battery when working between -25℃ and 55℃

	锂电池电动叉车 Lithium Battery Forklift	铅酸电池电动叉车 Lead-acid Battery Forklift
显性成本 Explicit Cost	售价 Explicit Cost	售价 Explicit Cost
隐性成本 Hidden Cost	维护费用 Maintenance Cost	维护费用 Maintenance Cost
	电费 Electricity Cost	电费 Electricity Cost
		更换电池费用 Battery Changing Cost

合力锂电池叉车的优越性,要突出的体现在生命周期内使用成本上。与铅酸蓄电池叉车相比,锂电池叉车适合多班次场合,隐性成本低,整体运营成本更经济。

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.