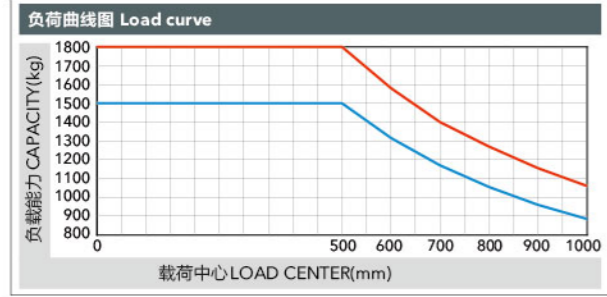


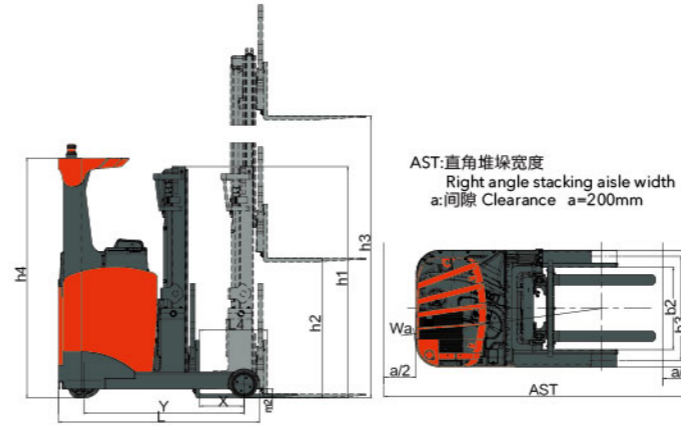
制造商和技术参数 Manufacturer's Data and Design Characteristics

特性	Character	HELI	
1.01 制造商	Manufacturer	HELI	
1.02 型号	Model	CQD15	CQD18
1.03 配置号	Configuration number	GB2R/GB3R/GC2R/GC3R	GB2R/GB3R/GC2R/GC3R
1.04 额定承载能力	Load capacity	Q kg	1500 1800
1.05 载荷中心距	Load center distance	C mm	500
1.06 动力形式	Power mode	蓄电池 Battery	
1.07 驱动方式	Driving mode	站驾 Stand-on	
1.08 轴距	Wheel base	Y mm	1335 1500
轮胎 Tyre			
2.01 轮胎类型	Tyre type	聚氨酯 Polyurethane	
2.02 轮胎数量, 驱动轮/辅助轮/承重轮(X=驱动轮)	Wheel number, drive/steer/load (X=drive wheel)	1x2/2	
2.03 轴距(承载轮)	Track Width, load	b3 mm	976
2.04 承载轮尺寸	Wheel size, load	mm	ø254x114
2.05 驱动轮尺寸	Wheel size, drive	mm	ø330x114
2.06 辅助轮尺寸	Wheel size, caster	mm	ø178x76
尺寸 Size			
3.01 标准门架起升高度	Lift height	h3 mm	3100 3100
3.02 自由起升高度	Free lift	h2 mm	85 85
3.03 门架落地高度	Mast height, lowered	h1 mm	2170 2170
3.04 货叉尺寸, 厚度/宽度/长度	Fork size, thickness/width/length	s/e/l mm	35x100x920 35x100x920
3.05 货叉调节宽度	Fork adjusting width	mm	200~628
3.06 货叉侧移量	Fork sideshifting	mm	±55 ±55
3.07 车体长度(不含货叉)	Truck body length, fork excluded	L mm	1721 1886
3.08 车体宽度	Truck body width	b1 mm	1090 1090
3.09 支腿内宽	Distance between support arms	b2 mm	772 772
3.10 前移距离	Reach distance	l4 mm	550 635
3.11 护顶架高度	Height of overhead guard	h4 mm	2250 2250
3.12 最小离地间隙(门架处)	Ground clearance, below mast	m2 mm	80 80
3.13 最小转弯半径	Turning radius	Wa mm	1615 1775
3.14 货叉前端面至承载轮中心距离	Distance from fork front face to center of load wheel	X mm	329 414
3.15 直角堆垛宽度(托盘1100Lx1100W, 间隙200)	Right angle stacking width (pallet 1100Lx1100W, clearance 200)	Ast mm	2760 2855
3.16 直角堆垛宽度(托盘1000Lx1100W, 间隙200)	Right angle stacking width (pallet 1000Lx1100W, clearance 200)	Ast mm	2680 2775
性能 Performance			
4.01 行驶速度, 满/空载	Travelling speed, with/without load	km/h	10/10.5 10/10.5
4.02 起升速度, 满/空载	Lifting speed, with/without load	m/s	0.31/0.5 0.3/0.5
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 前移速度, 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	2440 2490
蓄电池 Battery			
6.01 蓄电池电压/蓄电池容量k5	Battery voltage/capacity k5	V/Ah	48/345 48/360
6.02 蓄电池重量	Battery weight	kg	630 675
6.03 蓄电池箱体尺寸	Battery box dimension	mm	1020x359x629 1020x439x629
电机及控制 Motor and controller			
7.01 驱动电机功率	Drive motor power	kw	5 5
7.02 起升电机功率	Lifting motor power	kw	10 10
7.03 转向电机功率	Steering motor power	kw	0.6 0.6
7.04 驱动控制方式	Type of driving control	MOSTET/AC	
7.05 起升控制方式	Type of lifting control	MOSTET/AC	
7.06 转向控制方式	Type of steering control	MOSTET/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	电制动 Electrical	
7.09 液压系统工作压力	Hydraulic system working pressure	Mpa	16.5 18.5

注: 蓄电池具体品牌及其容量大小, 请咨询销售或技术人员。 NOTE: Detailed information about battery, please contact our salesman or engineer.



1.5 t 1.8 t
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货物时, 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.



↑15%
蓄电池单作业循环时间延长
THE PERFORMANCE OF BATTERY INCREASES

能量再生技术
Renewable energy technologies
应用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 AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

配置号 Configuration number	配置 Configuration	Configuration
GB2R	电磁换向阀	Solenoid valve
	拇指开关控制液压功能	Thumb switch control hydraulic functions
	ZAPI行走电机控制器	ZAPI travelling motor controller
	ZAPI起升电机控制器	ZAPI lifting motor controller
GB3R	电磁换向阀	Solenoid valve
	拇指开关控制液压功能	Thumb switch control hydraulic functions
	英摩森行走电机控制器	Inmotion travelling motor controller
	英摩森起升电机控制器	Inmotion lifting motor controller
GC2R	机械手柄控制液压功能	Mechanical handle control hydraulic functions
	ZAPI行走电机控制器	ZAPI travelling motor controller
	ZAPI起升电机控制器	ZAPI lifting motor controller
	ZAPI转向电机控制器	ZAPI steering motor controller
GC3R	手动换向阀	Manually operated valve
	机械手柄控制液压功能	Mechanical handle control hydraulic functions
	英摩森行走电机控制器	Inmotion travelling motor controller
	英摩森转向电机控制器	Inmotion steering motor controller

门架型号 Mast model	起升高度h3 Lifting height (mm)	自由起升高度h2 Free lifting height (mm)	门架落地高度h1 Mast height, lowered (mm)	额定起重量 Load capacity (kg)	门架倾角(前/后) Mast tilt angle (front/rear) α/β	
ZSM360	3600	3600	799	1830	1800	3°/5°
ZSM400	4000	4000	932	1963	1800	3°/5°
ZSM440	4400	4400	1066	2097	1700	3°/5°
ZSM500	5000	5000	1281	2312	1400	2°/2°
ZSM540	5400	5400	1449	2480	1100	2°/2°
ZSM600	6000	6000	1649	2680	900	2°/2°
ZSM650	6500	6500	1816	2847	700	2°/2°

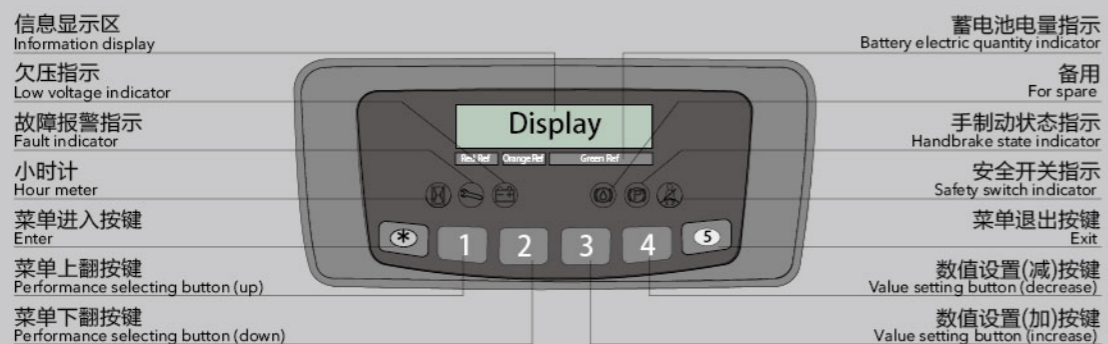
门架型号 Mast model	起升高度h3 Lifting height (mm)	自由起升高度h2 Free lifting height (mm)	门架落地高度h1 Mast height, lowered (mm)	额定起重量 Load capacity (kg)	门架倾角(前/后) Mast tilt angle (front/rear) α/β	
M200	2000	2000	85	1620	1500	3°/5°
M250	2500	2500	85	1870	1800	3°/5°
M290	2900	2900	85	2070	1500	3°/5°
M310	3100	3100	85	2170	1500	3°/5°
M340	3400	3400	85	2320	1500	3°/5°
M360	3600	3600	85	2420	1500	3°/5°
M380	3800	3800	85	2520	1500	3°/5°
M400	4000	4000	85	2670	1500	3°/5°
M420	4200	4200	85	2770	1450	3°/5°
M440	4400	4400	85	2870	1450	3°/5°
M500	5000	5000	85	3220	1400	2°/2°
M540	5400	5400	85	3420	1300	2°/2°

HELI

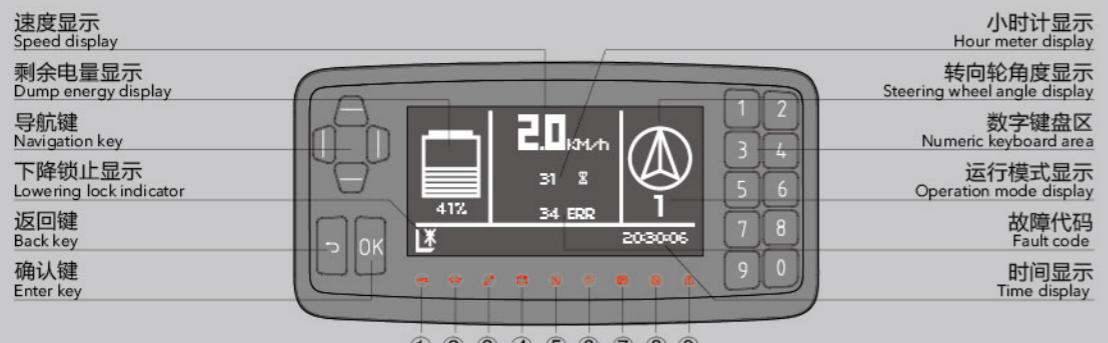
可靠的专用仪表将整车运行状态, 故障检测等重要信息完整地显示出来, 使操作者更直观、方便地了解车辆状态。
The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.



ZAPI高配仪表(用于配置号为GB2R的车型)
ZAPI high level meter (for GB2R truck model)



ZAPI标准仪表(用于配置号为GC2R的车型)
ZAPI standard type meter (for GC2R model)



- ① 直流泵故障指示灯 DC type pump controller fault indicator
- ② 龟爬指示灯 Turtle indicator
- ③ 故障报警灯 Fault alarm light
- ④ 低电量指示灯 Low electric quantity indicator
- ⑤ 起升锁止指示灯 Lifting lock indicator
- ⑥ 座椅指示灯 Seat indicator
- ⑦ 驻车制动指示灯 Parking brake indicator
- ⑧ 空挡指示灯 Neutral indicator
- ⑨ 警告灯 Warning light

嘉晨智能仪表(用于配置号为GB3R/GC3R的车型)
JIACHEN intelligent meter (for GB3R/GC3R truck model)



HELI
中国合力 提升未来

1.5-1.8 t

G2系列站式交流蓄电池前移式叉车
G2 SERIES AC ELECTRIC REACH TRUCK (STAND-ON TYPE)

始于 1958



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

1.5-1.8t

G2 series / 智能·环保 INTELLIGENT ENVIRONMENT-FRIENDLY

G2系列站式交流蓄电池前移式叉车 G2 SERIES AC ELECTRIC REACH TRUCK (STAND-ON TYPE)

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，起升和转向均采用三相交流电机控制
- 强大的加速性
- 变换行驶方向灵敏迅速无迟滞
- 无碳刷的免维护电机寿命更长，维护费用更低，减速时进行能量回收，操作时间更长
- 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起升调速电控
- 新型无侧隙齿轮技术低噪音齿轮泵，工作效率高，使用寿命长
- 最大空载起升速度提高22%
- 最大满载起升速度提高19%
- Newly designed hydraulic system with high working efficiency
- High power lifting motor
- MOSTET lifting speed governing electric controller
- New type low noisy gear pump, high efficiency and long life
- Max.lifting speed without load 22% increased
- Max.lifting speed with load 19% increased

更加优化的智能型设计

Optimized intelligent design

- CAN总线技术
- 坡道停车自制动
- 操作顺序保护
- 行驶速度控制
- 起升速度控制
- 电控自保护
- 与行驶互锁的脚踏开关
- CAN bus technology
- Parking brake on slope
- Operation sequence protection
- Travelling speed control
- Lifting speed control
- Electric controller self protection
- Footswitch interlink with travelling

先进的EPS电子动力转向

Advanced EPS electric powered steering

- EPS电子动力转向，为整车提供了轻便灵活，高效静音的操作
- 转向电机控制器
- 自动对中功能
- 转向自动限制速度和加速度
- EPS electric powered steering offering easy, flexible, high efficient and mute operation
- Steering motor controller
- Automatic centering function
- Automatic limit on speed and accelerated speed when steering

操作轻便的拇指开关

Easy operated thumb switch

- 拇指开关控制行驶功能
- 操作功能部件功能明确并且一目了然
- To control travelling functions
- Clear operating units

五套独立的制动系统

Five independent braking systems

- 释放加速手柄的电流再生制动
- 松开脚踏开关启动紧急行驶制动
- 按钮触发的驻车制动
- 自动启动的驻车制动
- 紧急断电开关
- Current regenerating brake when releasing acceleration hand shank
- Emergency brake activated by releasing foot switch
- Parking brake activated by pressing button on the panel
- Automatic activated parking brake
- Emergency switch



舒适的驾驶室

Comfort cab

- 司机的身体受到车体的全面保护
- 驾驶室配有腰部、头部及肘部支撑
- 重要操作部分均触手可及
- The driver's body is fully protected within the truck contours
- Padded waist, head and arm supports
- Easy reach to important operation

操作显示器

Displayer

- 高品质的控制仪表可显示绝大多数重要的运行参数
- 180度转角位置显示
- 电瓶电量情况与故障代码显示
- 选择行驶模式
- 起升锁止指示
- 小时计
- 工时显示

宽视野门架

Wide view mast

- 拥有绝佳的视野
- 整体式侧移器
- 起升高位时，剩余载重大
- 起升和下降过程缓冲
- 起升和下降极限缓冲
- 门架前移与后移极限缓冲
- 起升高度系列范围:2000-6500mm
- Good view when loaded
- Integral sideshifter
- High residual load capacity at high lift height
- Buffering during lifting and lowering
- Buffering on lifting and lowering limit
- Buffering on mast moving forward and backward limit
- Lift height range:2000-6500mm

护顶架

Overhead guard

- 护顶架立柱后置保护司机并改善作业视野
- 顶部栅栏板方式使驾驶员有更宽阔的视野
- 前横梁倾斜视角设计更符合人眼视觉角度
- Overhead guard support for improved operator protection and enhanced visibility to the load
- Fence on top of the overhead guard offering driver wide view
- Beveled view angle design with front ring beam meeting humanized requirements

标准配置 Standard configuration

- AC行走电机
- AC起升电机
- AC转向电机
- 电制动
- DC/DC转换器
- 低噪声齿轮泵
- 四片阀
- 3100mm两节基本型门架
- 整体式侧移器
- 标准货叉
- 挡货架
- 聚氨酯轮胎
- LED液晶仪表
- 前工作灯
- 蓄电池垂直更换
- 警示灯
- AC travelling motor
- AC lifting motor
- AC steering motor
- Electrical brake
- DC/DC converter
- Low noisy gear pump
- Control valve(four throw)
- 3100mm two-stage mast
- Integral sideshifter
- Standard fork
- Backrest
- Polyurethane tyre
- LED meter
- Front working light
- Vertical battery change
- Warning light

选用装置 Optional device

- 三节全自由门架
- 其他高度两节基本型门架
- 其他长度货叉
- 货叉套
- 起升高度认证*
- 监控系统
- 其他蓄电池
- 蓄电池充电器
- 其他车体颜色
- 电池侧面更换
- 电池更换支架
- Three-stage full free lift mast
- Two-stage mast(other lifting height)
- Fork with other length
- Fork extension
- Lifting height pre-selector*
- Monitoring system
- Other battery
- Battery charger
- Alternative colour schemes
- Battery on rollers for rapid side battery change
- Battery roller stand

* 仅用于配置号为GB2R或GB3R的车型
* Only to the reach truck that configuration number is GB2R or GB3R

