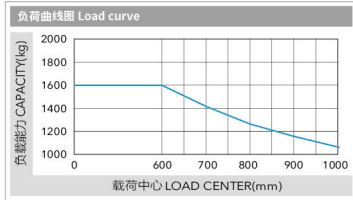
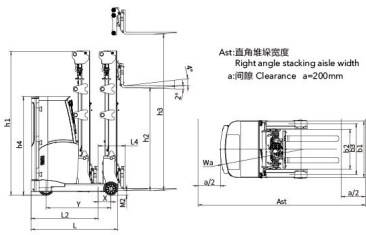


宽视野三节全自由门架 WIDE VIEW FULL FREE 3-STAGE MAST

门架型号 Mast model	起升高度h3 lifting height (mm)	承载能力 (载荷中心2500mm) Load capacity (load center 2500mm)(kg)	门架落地高度 h1 (mm)	自由起升(带插架) Free lifting height (with backrest)(mm)	整车自重 Service weight(kg)	货叉倾角(前/后) Fork tilt angle (front/rear)β
ZSM460	4600	1600	2314	1280	3640	2°/4°
ZSM480	4800	1600	2381	1340	3659	2°/4°
ZSM540	5400	1600	2581	1540	3717	2°/4°
ZSM570	5700	1550	2681	1640	3745	2°/4°
ZSM630	6300	1500	2881	1840	3803	2°/4°
ZSM675	6750	1450	2982	1940	3836	2°/4°
ZSM700	7000	1400	3065	2030	3860	2°/4°
ZSM715	7150	1400	3115	2080	3874	2°/4°
ZSM750	7500	1300	3232	2190	3908	2°/4°
ZSM800	8000	1200	3398	2360	3956	2°/4°
ZSM850	8500	1100	3564	2530	4004	2°/4°
ZSM900	9000	900	3730	2690	4051	2°/4°
ZSM950	9500	800	3898	2860	4100	2°/4°

宽视野基本型门架 WIDE VIEW MAST

门架型号 Mast model	起升高度h3 lifting height (mm)	承载能力 (载荷中心2500mm) Load capacity (load center 2500mm)(kg)	门架落地高度 h1 (mm)	整车自重 Service weight(kg)	货叉倾角(前/后) Fork tilt angle (front/rear)β
M290	2900	1600	2200	2411	2°/4°
M320	3200	1600	2350	2430	2°/4°
M360	3600	1600	2550	2459	2°/4°
M380	3800	1600	2650	2473	2°/4°
M400	4000	1600	2750	2488	2°/4°
M420	4200	1600	2850	2501	2°/4°
M440	4400	1600	2950	2514	2°/4°
M460	4600	1600	3050	2527	2°/4°
M500	5000	1500	3250	2598	2°/4°



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%.

注: 该轴表示承载量, 横轴表示载重中心。载重中心是从货叉正面计算起, 标准载重的基点是指荷载边长为1000毫米的立方体中心位置。当门架倾斜、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。通过负载曲线图, 能及时地了解标准门架在各种载重中心时的承载能力。

Note: The vertical axis stands for load capacity and the horizontal axis stands for the 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.

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

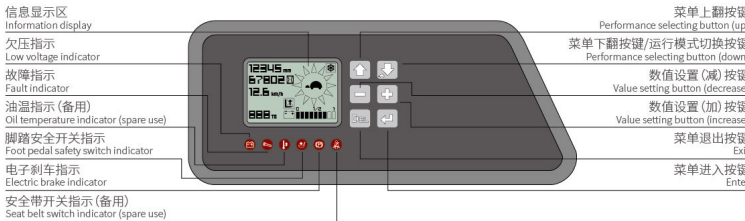
特性 Character	Character	Character	Character
1.01 制造厂商 Manufacturer	HELI		
1.02 型号 Model	CQD16		
1.03 配置号 Configuration number	GB2SL		
1.04 额定承载能力 Load capacity	1600	Q	kg
1.05 载荷中心距 load center distance	600	C	mm
1.06 动力形式 Power mode	蓄电池 Battery		
1.07 驾驶方式 Driving mode	座驾 Seated		
1.08 轴距 Wheel base	1450	Y	mm
1.09 轮胎 Tyre			
2.01 轮胎类型 Tyre type	聚氨酯 Polyurethane		
2.02 轮胎数量, 驱动轮/承重轮 (x=驱动轮) Wheels, number front/rear (x=driven wheels)	1x/2		
2.03 轴距 (承重轮) Track width, rear	1157	b3	mm
2.04 承重轮尺寸 Wheel size, rear	φ285x100		mm
2.05 驱动轮尺寸 Wheel size, front	φ343x114		mm
3.01 标准门架起升高度 Lift height	4600	h3	mm
3.02 自由起升高度 Free lift	1280	h2	mm
3.03 门架落地高度 Mast height, lowered	2314	h1	mm
3.04 货叉尺寸, 厚度/宽度/长度 Fork size: thickness x width x length	40x122x1150	s/e/l	mm
3.05 货叉调节宽度 Fork adjusting width	244-724		mm
3.06 货叉倾角 (前/后) Fork tilt angle (front/rear)	2°/4°	α/β	°
3.07 货叉侧移量 Fork side shifting	475		mm
3.08 货体长度 (不含货叉) Truck body length (fork excluded)	1940	L	mm
3.09 长度 (货叉面至车尾距离) Length (the distance from the fork face to rear frame)	1472	L2	mm
3.10 车体宽度 Truck body width	1270	b1	mm
3.11 支腿内宽 Distance between support arms	900	b2	mm
3.12 前桥距离 Reach distance	555	L4	mm
3.13 驾驶室高度 Height of cab	2215	h4	mm
3.14 最小离地间隙 (门架处) Ground clearance, below mast	75	m2	mm
3.15 最小转弯半径 Turning radius	1788	Wa	mm
3.16 货叉前端面至承重轮中心距 Load distance, centre of support arm wheel to face of forks	313	X	mm
3.17 直角堆垛宽度 (托盘1200Lx1200W, 间隙200) Asle width with pallet 1200Lx1200W across foris	3060	Ast	mm
3.18 直角堆垛宽度 (托盘1000Lx1200W, 间隙200) Asle width with pallet 1000Lx1200W across foris	2900	Ast	mm
4.01 行驶速度, 满/空载 Travelling speed: with/without load	11/12		km/h
4.02 起升速度, 满/空载 Lifting speed: with/without load	0.34/0.53		m/s
4.03 下降速度, 满/空载 Lowering speed: with/without load	0.5/0.5		m/s
4.04 前移速度, 满/空载 Reach speed: with/without load	0.11/0.11		m/s
4.05 最大爬坡能力, 满/空载 Maximum climbing ability, with/without load	10/15		%
5.01 整车自重 (含蓄电池) Total weight (with battery)	3640		kg
5.02 空载桥负荷, 驱动轮/承重轮 (货叉前移) Ase load, fork outreached, without load, front/rear	1740/1910		kg
5.03 空载桥负荷, 驱动轮/承重轮 (货叉后移) Ase load, fork retracted, without load, front/rear	2270/1280		kg
5.04 满载桥负荷, 驱动轮/承重轮 (货叉前移) Ase load, fork outreached, with load, front/rear	780/460		kg
5.05 满载桥负荷, 驱动轮/承重轮 (货叉后移) Ase load, fork retracted, with load, front/rear	1930/3320		kg
6.01 蓄电池电压/额定容量 (5小时放电电量) Battery voltage/capacity Ks	48/5000	V/Ah	
6.02 蓄电池重量 Battery weight	860	kg	
6.03 蓄电池箱体尺寸 Battery box dimension	1220x353x784	mm	
7.01 驱动电机功率 Drive motor power (60 min)	6	kW	
7.02 起升电机功率 Lifting motor power (15%)	11	kW	
7.03 转向电机功率 Steering motor power (50%)	0.4	kW	
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	合力专用变速箱		
7.08 行车制动 Service brake	电磁制动 Electromagnetic brake	Mpa	
7.09 液压系统工作压力 Hydraulic system working pressure	17.5		

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

HELI合力

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。
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.



标准配置 Standard configuration

- AC行走电机 AC travelling motor
- AC起升电机 AC lifting motor
- AC转向电机 AC steering motor
- 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
- 电磁制动 Electromagnetic brake
- DC/DC转换器 DC/DC converter
- 低噪声齿轮泵 Low noisy gear pump
- 四片阀 Control valve (four throw)
- 4600mm三节全自由门架 4600mm three stage full free lift mast
- 整体式侧移器 Integral sideshifter
- 标准货叉 Standard fork
- 挡货架 Backrest
- 冷库专用驱动轮胎 Polyurethane tyre for cold store
- LED液晶仪表 LED meter
- 前工作灯 Front working light
- 密封驾驶室 Sealed cab
- 加热座椅 Heating seat
- 暖风机 Heater
- USB接口 USB
- 安全带 Safety belt
- 球面后视镜 Sphere backview mirror

选用装置 Optional device

- 其他高度三节全自由门架 Other battery
- 基本型门架 Germany hoppecker battery
- 其他长度货叉 Italy FAM battery
- 货叉套 Battery charger
- 起升高度认证 Customer made color
- 监控系统 Battery side pulling
- 其他蓄电池 HE' AN seat
- 德国HOPPECKER蓄电池组 Grammer seat
- 意大利FAM蓄电池组
- 蓄电池充电器
- 颜色用户需求
- 蓄电池侧拉
- 和安普通座椅
- 格拉默普通座椅

HELI合力

1.6t

G2系列座式蓄电池
冷库前移式叉车

G2 SERIES SIT-ON TYPE ELECTRIC
REACH TRUCK FOR COLD STORE



G2 1.6t

整车优势

FEATURES OF THE COMPLETED TRUCK

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
- 新型叉分齿技术低噪音齿轮泵
- 最大空载起升速度提高15%
- 最大满载起升速度提高25%
- Newly designed hydraulic system with high working efficiency
- High power lifting motor
- MOSFET lifting speed governing electric controller
- New type low noisy gear pump
- Max. lifting speed without load 15% increased
- Max. lifting speed with load 25% increased

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
- 最大空载行驶速度提高20%
- 最大满载行驶速度提高27%
- 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
- Max. travelling speed without load 20% increased
- Max. travelling speed with load 27% increased

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

- ZAPI行走电机控制器
- ZAPI起升控制器
- ZAPI转向电机控制器
- CAN总线技术
- 主回路控制回路同时紧急断电
- 坡度停车制动
- 操作顺序保护
- 行驶速度控制
- 电控自我保护
- 提升高度认证(选配)
- ZAPI travelling motor controller
- ZAPI lifting motor controller
- ZAPI 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
- Electric controller self protection
- 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
- 180度/360度两种转向模式,可实现实时切换
- 转向自动限制时速和加速度
- 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

操作轻便的拇指开关 Easy operated thumb switch

- 拇指开关可以控制所有液压功能
- 操作部件功能明确并且一目了然
- 比例电磁阀控制下降动作,平稳舒适
- To control hydraulic functions
- Clear operating units
- Proportional solenoid offering a stable and comfort lowering action



密封驾驶室 Sealed cab

- 驾驶室钢化玻璃
- 驾驶室全内饰包裹,防冻伤
- 暖风机,为驾驶员提供适宜的工作温度
- 电加热座椅,为驾驶员提供舒适的工作环境
- USB接口
- 顶部全玻璃,在保证安全前提下,拥有更好的视野
- 方向盘一侧开小视窗,更符合人眼视觉角度
- Tempered glass for cab
- The interior of the cab is packed by upholstery, prevent frostbite.
- Heater improves the temperature inside of cab.
- Electrical heating seat provides comfortable working environment for operator.
- USB
- Glass on top of the cab provides better visibility on the premise of ensuring safety
- Small window on one side of steering wheel meets ergonomics requirement.

全新冷库专用油品 Special oils for cold store

- 滚轮采用专用低温型润滑油脂
- 传动系统采用低温传动油
- 液压系统采用低凝液压油
- Special low temperature lubrication grease is used for rollers.
- Low temperature transmission oil is used for transmission system.
- Hydraulic oil with low condensation point is used for hydraulic system.

全新冷库专用部件 Special parts for cold store

- 冷库专用驱动轮胎
- 冷库专用电机
- (1) Special drive tyres for cold store
- (2) Special motors for cold store

整机防腐防锈工艺 Corrosion and rust prevention

- 整车采用防腐防锈喷涂工艺
- 重要部件采用不锈钢螺栓紧固
- 前后起升油缸的活塞杆采用双层镀铬处理
- 链条表面采用达克罗工艺处理
- Corrosion and rust prevention painting is used on the completed truck.
- Stainless steel bolts are used on key parts.
- Chromate finish is adopted on pistons of front and rear lifting cylinders.
- Dacromet technology is adopted on the surfaces of chains.