

» 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，减速时进行能量回充，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

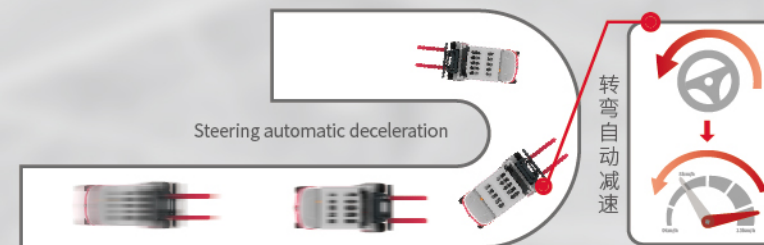
Optimized intelligent design

- 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
- Dead-man footswitch traction interlock

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 power steering offering easy, flexible, high efficient and mute operation
- Steering motor controller
- Automatic centering function
- Automatic limit on speed and accelerated speed when steering



机械换挡手柄
Mechanical lever operation



货叉倾斜
Fork tilting



后视镜
Rearview mirror



USB电源
USB power



储物盒
Storage box



电制动
Electrical brake



车载充电机 (选配)
On-board charger (Optional)

六套独立的制动系统

Six 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
- 液压手柄触发的驻车制动
- Automatic braking when accelerator lever is released
- Emergency brake activated by releasing foot switch
- Parking brake activated by pressing button on the panel
- Automatic hold-on brake
- Emergency isolator
- Parking brake activated by the hydraulic control lever

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°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
- High quality meter displaying important operating data
- 180° steering angle position display
- Display of battery power and fault code
- Travelling mode selection
- Lifting lock indication
- Hour meter
- Labor hour display

宽视野门架

Wide view mast

- 在载荷方向拥有绝佳的视野
- 整体式货叉架
- 起升高位时，剩余载荷大
- 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:3000-6750mm
- Good view when loaded
- Integral backrest
- 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:3000-6750mm

舒适的驾驶室

Comfort cab

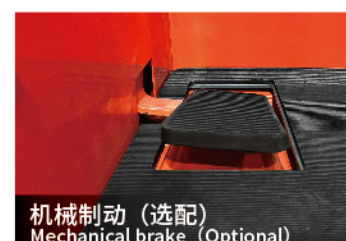
- 司机的身体受到车体的全面保护
- 重要操作部分均触手可及
- 增加上车扶手
- The driver's body is fully protected within the truck contours
- Easy reach to important operation
- Handrail



上车扶手
Commode handle



安全防护挡板
Safety shield



机械制动 (选配)
Mechanical brake (Optional)



电制动
Electrical brake

上车踏板高度
Pedal height
260mm

制造商和技术参数 Manufacturer's Data and Design Characteristics									
特性		Character							
1.01	制造厂商	Manufacturer				HELI			
1.02	型号	Model				CQD20		CQD25	
1.03	配置号	Configuration number				A2RLIG2		A2RLIG2	
1.04	额定承载能力	Load capacity		Q	kg	2000		2500	
1.05	载荷中心距	Load center distance		C	mm	500			
1.06	动力形式	Power mode				锂电池 Lithium Battery			
1.07	驾驶方式	Driving mode				站驾 Stand-on			
1.08	轴距	Wheel base		Y	mm	1500		1685	
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)	Wheels number drive/caster/load (x-driven wheels)				1x2/2			
2.03	轮距(承载轮)	Track Width,load		b3	mm	1078			
2.04	承载轮尺寸	Wheel size, load			mm	ø285x100			
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	3000		3000	
3.02	自由起升高度	Free lift		h2	mm	120		120	
3.03	门架落地高度	Mast height, lowered		h1	mm	2135		2135	
3.04	货叉尺寸, 厚度/宽度/长度	Fork size, thickness/width/length		s/e/l	mm	40x122x920		35x100x920	
3.05	货叉调节宽度	Fork adjusting width			mm	244~722		244~722	
3.07	车体长度(不含货叉)	Truck body length(fork excluded)		L	mm	1900		2085	
3.08	车体宽度	Truck body width		b1	mm	1190		1190	
3.09	支腿内宽	Distance between support arms		b2	mm	846		846	
3.10	前移距离	Reach distance		l4	mm	660		805	
3.11	护顶架高度	Height of overhead guard		h4	mm	2210		2210	
3.12	最小离地间隙(门架处)	Ground clearance,below mast		m2	mm	75		75	
3.13	最小转弯半径	Turning radius		Wa	mm	1795		1965	
3.14	货叉前端面至承载轮中心距离	Load distance centre of support arm wheel to face of forks		X	mm	480		635	
3.15	直角堆垛宽度(托盘1100Lx1100W,间隙200)	1100Lx1100W,clearance 200		Ast	mm	2825		2910	
3.16	直角堆垛宽度(托盘1000Lx1100W,间隙200)	1000Lx1100W,clearance 200		Ast	mm	2750		2845	
性能		Performance							
4.01	行驶速度, 满/空载	Travelling speed,with/without load			km/h	11/12		11/12	
4.02	起升速度, 满/空载	Lifting speed,with/without load			m/s	0.3/0.5		0.3/0.5	
4.03	下降速度, 满/空载	Lowering speed,with/without load			m/s	0.5/0.45		0.5/0.45	
4.04	前移速度, 满/空载	Reach speed,with/without load			m/s	0.19/0.19		0.19/0.19	
4.05	最大爬坡能力, 满/空载	Maximum climbing ability with/without load(≤2.5min)			%	10/15		10/15	
重量		Weight							
5.01	整车自重(含蓄电池)	Total weight(with battery)			kg	3220		3230	
蓄电池		Battery							
6.01	蓄电池电压/蓄电池容量	k5 Battery voltage/capacity k5			V/Ah	80/150		80/150	
6.02	蓄电池重量	Battery weight			kg	400		400	
6.03	蓄电池箱体尺寸	Battery box dimension			mm	1140x340x540		1140x340x540	
电机及控制		Moter and controller							
7.01	驱动电机功率	Drive moter power			kw	6		6	
7.02	起升电机功率	Lifting moter power			kw	12		12	
7.03	转向电机功率	Steering moter 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			

注: 锂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 lithium battery,please contact our salesmen or engineer.

HELI合力

标准配置 Standard Equipment

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
三片阀
3000mm基本型门架
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
后视镜
机械阀杆操作
货叉倾斜
倒车蜂鸣器
合力包装
储物盒
文件夹

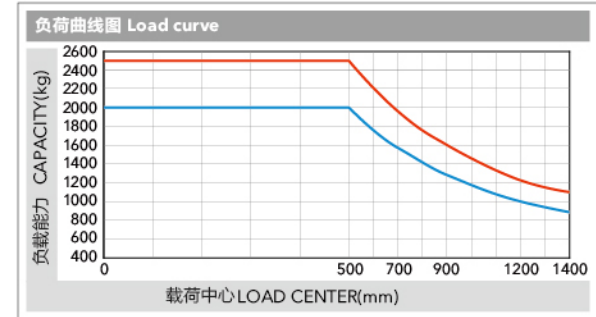
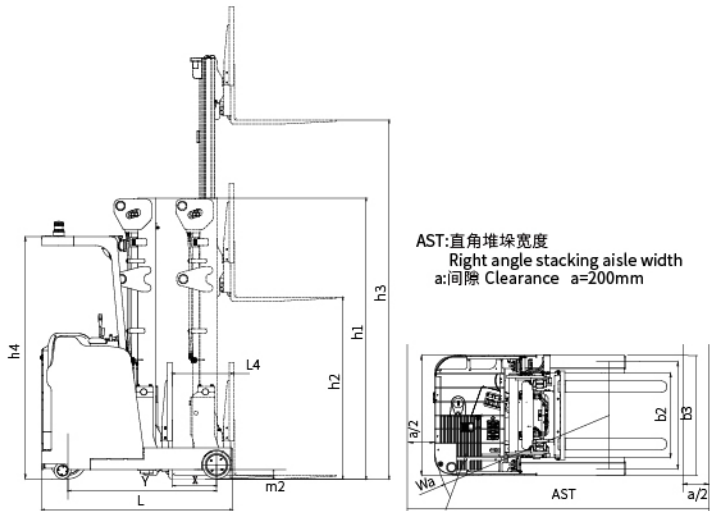
AC travelling motor
AC Lifting motor
AC steering motor
Electrical brake
DC/DC converter
Low noisy gear pump
Control valve(three throw)
Standard fork
Backrest
Polyurethane tyre
LED meter
Front working light
Vertical battery change
Rearview mirror
Mechanical lever operation
Fork tilting
Backward buzzer
HELI package
Storage box
Folder

可选配置 Optional Equipment

三节全自由门架
其他高度两节基本型门架
其他长度货叉
四片阀
监控系统
警示灯
蓝色聚光灯
整体式侧移器
车载充电器
后工作灯或车后方蓝光灯
风扇
灭火器
车联网
中性包装
机械制动
其他锂电池
其他车体颜色

Three-stage full free lift mast
Two-stage mast(other lifting height)
Fork with other length
Control valve(four throw)
Monitoring system
Warning light
Blue spotlight
Integral sideshifter
On-board charger
Rear working light or Rear blue light
Fan
Fire extinguisher
Truck networking
Neutral package
Mechanical brake
Other lithium battery
Alternative colour schemes

配置号 Configuration number	配置 Configuration
A2RLIG2	手动换向阀 Manually operated valve
	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
	货叉倾斜 Fork tilt



2 t 2.5 t

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)		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)		货叉倾角(前/后) Forks tilt angle (front/rear) α / β
	CQD20	CQD25	CQD20	CQD25	CQD20	CQD25	CQD20	CQD25	
M300	3000	3000	120	120	2135	2135	2000	2500	2°/4°
M350	3500	3500	120	120	2385	2385	2000	2500	2°/4°
M400	4000	4000	120	120	2635	2635	2000	2500	2°/4°
M450	4500	4500	120	120	2885	2885	1900	2400	2°/4°
M500	5000	5000	120	120	3135	3135	1800	2300	2°/4°

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)		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)		货叉倾角(前/后) Forks tilt angle (front/rear) α / β
	CQD20	CQD25	CQD20	CQD25	CQD20	CQD25	CQD20	CQD25	
ZSM430	4300	4300	1140	1140	2165	2165	2000	2500	2°/4°
ZSM460	4600	4600	1240	1240	2265	2265	1900	2400	2°/4°
ZSM480	4800	4800	1300	1300	2332	2332	1850	2350	2°/4°
ZSM500	5000	5000	1367	1367	2399	2399	1800	2300	2°/4°
ZSM540	5400	5400	1500	1500	2532	2532	1700	2200	2°/4°
ZSM570	5700	5700	1600	1600	2632	2632	1650	2150	2°/4°
ZSM600	6000	6000	1700	1700	2732	2732	1550	2050	2°/4°
ZSM630	6300	6300	1800	1800	2832	2832	1500	2000	2°/4°
ZSM675	6750	6750	1950	1950	2982	2982	1350	1850	2°/4°
ZSM700	7000	7000	2040	2040	3065	3065	1300	1800	2°/4°
ZSM715	7150	7150	2090	2090	3115	3115	1250	1750	2°/4°
ZSM750	7500	7500	2200	2200	3232	3232	1200	1700	2°/4°

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HELI

2.0-2.5 t G2系列站式锂电池 前移式叉车(80V)

G2 SERIES LITHIUM BATTERY
POWERED REACH TRUCK
(STAND-ON TYPE)(80V)

LITON



正向驾驶
Forward driving

合力产品范围: 1-6吨内燃叉车,10-6.35吨电动叉车,前移式叉车,托盘车,堆垛车等仓储类产品;
AGV智能搬运车及系统解决方案;正面吊、堆垛机、牵引车、防爆叉车、越野叉车等多样化产品。



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