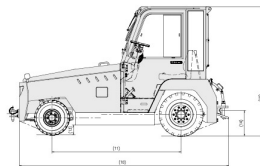
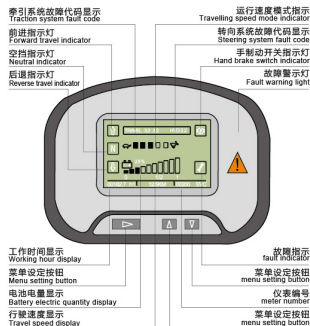


G2 系列/ 20-30 t



▶ CURTIS ENGAGE IV 交互式多功能液晶仪表 CURTIS ENGAGE IV Interactive multifunctional liquid crystal meter



- 可靠的专业仪表将整车运行状态、故障检测等重要信息完整的显示出来，使操作者更直观、方便地了解车辆状态。
- Truck working condition can be known directly and easily through reliable meter displaying important information such as truck working condition, fault and so on.

▶ G2系列20~30t锂电池牵引车获航空地面设备检测合格证 G2 series 20 ~ 30t lithium battery tractor has obtained Certification for aviation ground equipment inspection.



▶ 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
大电流快充，减少充电等待时间。
- 兼容
48V/80V兼容，满足不同电压等级需求。
- 安全
内置防反保护，具备失效自隔离功能。
- High Efficiency
Charging efficiency higher than 95% meeting the requirements of energy saving and emissions reduction.
- Speediness
High current fast charge reduce charging period.
- Compatibility
48 v / 80 v compatibility meeting the demand of different voltage levels.
- Safety
Built-in mis-connecting protection offering self isolating function under fault.

显性成本
Explicit Cost

隐性成本
Hidden Cost

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

The superiority of HELI lithium battery truck is embodied in the use-cost within product lifecycle. Compared with lead-acid battery truck, lithium battery truck is more convenient for multiple working shifts. It has lower implicit cost and more economical total running cost.

售价
Explicit Cost

维护费用
Maintenance Cost

电费
Electricity Cost

锂电池电动牵引车
Lithium Battery Tractor

售价
Explicit Cost

维护费用
Maintenance Cost

电费
Electricity Cost

更换电池费用
Battery Changing Cost

铅酸电池电动牵引车
Lead-acid Battery Tractor

技术参数 Technical parameter

项目 Item	单位 Unit			
1 型号 Model		QYD200-A1Li	QYD250-A1Li	QYD300-A1Li
2 额定牵引质量 Rated traction ability	T	20	25	30
3 额定牵引力 Rated traction capacity	kN		6	
4 最大牵引力 Max. traction capacity	kN		25	
5 最大行驶速度 Travelling speed	满载 Loaded 空载 Unloaded	14	12	11
6 最大爬坡度 Climability	满载 Loaded 空载 Unloaded	6	5	4
7 桥负荷，含驾驶室/不含驾驶室 Axle load, including cab/Excluding cab	转向桥 Steering axle load 驱动桥 Driving axle load	1130/1060		1170/1085
8 最小转弯半径 Min turning radius			3160	
9 牵引车质量，含驾驶室/不含驾驶室 Weight, including cab/Excluding cab		3590/3380		3670/3460
10 外形尺寸 External dimensions	长 Length 宽 Width 高 Height	3230(含后牵引座 Including rear traction base)	1425	1980(含驾驶室 Including cab)
11 轴距 Wheelbase			1990	
12 轮胎 Tread	前轮 Front tire 后轮 Rear tire		1160	1160
13 最小离地间隙 Min ground clearance			150	
14 牵引销中心离地高度 Traction base height			425	
15 制动 Brake	行车制动 Service brake 驻车制动 Parking brake	液压助力制动 Hydraulic power assisted braking	机械式 Mechanical	
16 轮胎 Tires	前轮 Front tire 后轮 Rear tire		6.00-9-10PR	7.00-12-12PR
17 驱动电机 (交流) Driving motor	额定功率 Rated power		28.7	
18 转向电机 (辅助) Steering motor	额定功率 Rated power		1.35	
19 蓄电池 Battery	电压/容量 Voltage/capacity (V/Ah)	80/500		80/600

标准配置 Standard configurations

双腔回路制动
Double chamber dual loop brake

液体组合仪表
Liquid crystal combined instrument

锂电池
Lithium battery

PMP驱动桥
PMP drive bridge

带自锁牵引机构
Self locking traction mechanism

选项配置 Option configuration

全封闭前推窗驾驶室
Fully enclosed front window driving cab

实心胎
Solid tire

后工作大灯
Rear work headlights

警示灯
Warning lamp

前牵引座
Front traction base

用户自选涂装
User selected painting



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HELI 合力

20-30 t

G2系列锂电池牵引车

G2 series lithium battery tractor



www.helichina.com



» 整车简介 Brief introduction

G2系列20~30吨锂电池牵引车是我公司开发的一款新能源环保型牵引车辆，具有低噪音、无污染、牵引力大、操作简便、造型新颖、转向轻便灵活、操作舒适安全、性能稳定可靠、维护保养方便、四轮制动（双腔双回路制动）、转弯自动减速、便捷式牵引锁操纵机构等优点。

应用领域：QYD200/250/300锂电池牵引车属于区域物流技术领域。是机场、国防、铁道、邮政、制造业、医药、烟草、物流等系统内牵引货物的理想车辆。

G2 series 20-30t lithium battery tractor is a new energy and environmental protection traction vehicle developed by our company. It has low noise, no pollution, large traction force, simple operation, novel shape, light and flexible steering, comfortable and safe operation, stable performance and reliability, convenient maintenance, double-chamber double-circuit braking, automatic deceleration of turning, Convenient traction pin control mechanism and so on.

Application area: QYD200/250/300 lithium battery tractor belongs to the regional logistics technology field. It is an ideal vehicle for traction of goods in airport, national defense, railway, postal, manufacturing, pharmaceutical, tobacco, logistics and other systems.



驱动系统 Drive system

- 驱动桥采用交流电桥（含交流电机、湿式多盘制动器、减速器及差速器）结构紧凑，传动平稳，噪音低，使本车具有良好的动力性、通过性。驱动桥结构便于拆装和调整，具有良好的维修性。
- The driving axle adopts AC bridge (including AC motor, wet multi-disc brake, reducer and differential) with compact structure, stable transmission and low noise, so that the car has good power performance and trafficability. The drive axle structure is easy to disassemble and adjust, and has good maintainability.



制动系统 Braking system

- 行车制动（双腔双回路制动）通过前轮盘式、后轮湿式制动器，液压制动作用于前、后轮；
- 停车制动通过湿式制动器，采用拉索作用于后轮。
- The driving brake (double chamber and double circuit brake) passes through the front wheel disc type and the rear wheel wet brake, and the hydraulic brake acts on the front and rear wheels.
- The parking brake is operated through a wet brake and the cable is applied to the rear wheel. Braking system is safer and more reliable.

电气系统 Electrical system

- 采用进口控制器，性能可靠，调速性能好；
- 采用锂电控制系统，交流系统再生能量回收率高，高达15%左右，蓄电池与控制系统之间通过CAN总线通讯，保证蓄电池的安全使用，免维护，安全性好，使用寿命长。
- With imported controller, the tractor has excellent speed regulation and reliable performance.
- Adopt lithium battery control system, the regenerative energy recovery rate of AC system is high, up to 15%. The communication between the battery and the control system is through CAN bus to ensure the safe use of the battery, maintenance-free, safe and long service life.



更加优越的智能化设计 Superior intellectualized design

- 更多智能化设计的装备与功能使整车智能，这不仅保护驾驶者和整车安全，还提高工作效率，降低了能耗。
- Superior intellectualized designs not only ensure operator and truck safety but also improve working efficiency, reduce energy consumption.



转向系统 Steering system

- 采用全液压横置油缸动力转向桥实现前轮转向，该转向系统具有效率高，操纵轻便，使用寿命长的特点；
- 前、后悬挂减震装置，使得整机更加具有良好的平稳性。
- Adopt the full hydraulic transverse oil cylinder power steering bridge to realize the front wheel steering. The steering system has the characteristics of high efficiency, easy operation and long service life.
- The front and rear suspension shock absorbers make the whole machine more stable.

车身系统 Body system

- 外观造型刚劲有力，最小离地间隙150mm，符合民航MH/T6048标准，通过性好；
- 驾驶员坐在座椅上可以直接观察到牵引座；
- 全框架的驾驶室具有足够的强度，室内宽敞且视野良好，可以实现全方位的观察（选项配置）。
- The outward appearance is strong and powerful, and the minimum ground clearance 150mm is in line with the civil aviation MH/T6048 standard.
- The driver can observe the traction seat directly on the seat.
- The full-frame cab is strong enough, the interior is spacious and the field of view is good, and it can realize all-round observation (option configuration).

可双点操作的带自锁及导引功能的操纵牵引锁机构 Two point operation control and traction mechanism with self locking and guiding function

- 驾驶室内外部可实现拖车的脱、挂动作，操纵方便、效率高；自锁功能可有效避免操作或行车颠簸时导致拖车脱钩隐患，安全性高。
- It is easy to operate and has high efficiency, and the self-locking function can effectively avoid the hidden danger of the trailer running out when it is misoperated or bumpy.

锂电池主要优势 The main advantages of lithium batteries are

- 更环保：**锂电池在制造、使用以及废弃过程都没有重金属污染；
- 免维护：**无需加水，无漏液腐蚀等污染；
- 长寿命：**五年超长质保，在正常充电条件下，循环2000次时，容量衰减率低于10%，循环4000次时，容量衰减率低于25%；
- 高效率：**锂电池充电效率超过90%；
- 大倍率充放电：**锂电具有最大2C充电及最大5C倍率放电能力，锂电池可采用快充的模式，利用休息时间进行充电；
- 无记忆效应：**电池无论处于什么样的状态下，可随时充电，无须考虑蓄电池的放空再充电；
- 低温高效：**在冷库环境下，锂电池具有良好的性能表现。
- More environmental protection:** lithium batteries are not polluted by heavy metals in manufacturing, using and discarding processes.
- Maintenance free:** no need to add water, no leakage, corrosion and other pollution.
- Long life:** five-year ultra-long quality assurance, under normal charging and discharging conditions, the capacity attenuation rate is less than 10% for 2000 cycles, and less than 25% for 4000 cycles.
- High efficiency:** lithium battery charge and discharge efficiency of more than 90%;
- Large rate charge and discharge:** Lithium battery has the maximum 2C charge and 5C rate discharge capacity. Lithium battery can be charged by fast charge mode and recharged by rest time.
- Memory-free effect:** the battery can be charged and recharged at any state without considering the recharge of the battery.
- Low temperature and high efficiency:** lithium battery has good performance in cold storage environment.