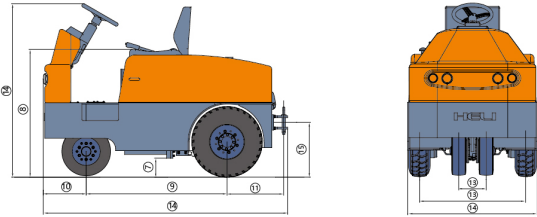
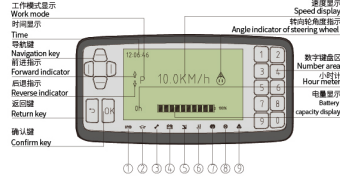


G 系列 / SERIES 2-6t



充电器技术 Charger technology

智能仪表 Smart meter



- 高效: 大于95%充电效率, 符合节能减排要求。
- 快速: 最快2小时可完成100%全充电。
- 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; 完善的故障自检提示, 方便客户维护。
- High Efficiency: Charging efficiency higher than 95% meeting the requirements of energy saving and emissions reduction
- Speediness: 100% charging realized in 2 hours at the soonest
- Compatibility: 48V / 80V compatibility meeting the demand of different voltage levels
- Safety: Built-in mis-connecting protection offering self isolating function under fault; Perfect fault self checking alarm facilitating users maintenance.

- ① 直流泵空故障指示灯 DC pump fault indicator
- ② 电瓶指示灯 Turtle speed indicator
- ③ 故障报警灯 Fault indicator
- ④ 低电量指示灯 Low voltage indicator
- ⑤ 提升禁止灯 Lift indicator
- ⑥ 座椅指示灯 Seat indicator
- ⑦ 手刹指示灯 Hand brake indicator
- ⑧ 空档指示灯 Neutral indicator
- ⑨ 警告灯 Warning indicator

- 可靠的智能仪表将整车的运行状态、故障检测等重要信息完整地显示出来, 使操作者更直观、方便地了解车辆的状态。
- Vehicle working condition can be known directly and easily through smart meter. Such as speed, working hours, battery level, fault code, etc.



能量再生技术 RENEWABLE ENERGY TECHNOLOGIES

交流控制能量再生技术, 使电动牵引车更节能, 蓄电池单作业循环时间最大延长15%。
With AC type energy regeneration technology, the working hour of single battery shift is 15% increased.

15%

技术参数 Technical parameters

项目 Item	单位 Unit	2-6吨锂电池牵引车 2-6ton lithium battery tractor				
车型 Model		QYD20S-E3Li	QYD30S-E3Li	QYD40S-E3Li	QYD50S-E3Li	QYD60S-E3Li
2 驾驶方式 Driving mode		坐式 seated				
3 额定牵引质量 Rated towing weight	kg	2000	3000	4000	5000	6000
4 自重 Service weight	kg	610		900	1200	
5 额定牵引力 Rated traction force	N	800	1000	1560	4000	
6 最大牵引力 Max. traction force	N	3100		5000	8000	8100
7 行驶速度 (满载/空载) Traveling speed (unloaded/loaded)	km/h	9/12		10/15		
8 爬坡能力 (满载/空载) Gradeability (unloaded/loaded)	%	10/20		6/20	6/20	
9 外形尺寸:长x宽x高 Overall dimension:LxWxH	mm	1800×856×1375		1990×1006×1375		2070×1100×1445
10 轴距 Wheelbase	mm	900		1100	1200	
11 轮距 Tread	mm	单轮 Single wheel		175	230	
		前 Front	后 Rear	820	905	
12 最小转弯半径 Min. steering radius	mm	1550		1700	1800	
13 最小离地间隙 Min. ground clearance	mm	60		120		
14 前悬 Front overhang	mm	365		410		
15 后悬 Rear overhang	mm	395		555		
16 牵引钩离地高度 Traction hook height	mm	250/300		280/330	350/450	
17 轮胎 Tyre	mm	4.00-8 (实心胎 solid tire)		2.3.50-8 (实心胎 solid tire)	4.00-8 (实心胎 solid tire)	
		前 Front	后 Rear	2x4.00-8	2x6.50-10-10PR	
18 行车制动 Service brake		液力制动 Hydraulic brake				
19 驻车制动 Parking brake		机械制动 Mechanical brake				
20 驱动方式 Driving type		后轮驱动 Rear drive				
21 驱动电机功率 Driving motor power	kW	3.0 (AC)	4.0 (AC)		8 (AC)	
22 电池电压/容量 Battery voltage/capacity	V/Ah	24/202		48/202	48/271	
23 电池重量 Battery weight	kg	100		165	220	
24 行驶控制方式 Driving control mode		电子无极式 Electronic stepless mode				
25 驾驶员耳噪声 Operator's ear noise	dB	<70				

标准配置 Standard configuration 选用配置 Optional configuration 锂电池选项 Lithium battery options

液晶仪表 Liquid crystal meter	半封闭驾驶室 Semi-closed cab	24V/200Ah (中置 CMSG HONG SIFANG) (QYD20/30S-E3Li)
前轮实心胎和充气胎 Solid tyre (front) and pneumatic tyre (rear)	后轮实心胎 Solid tyre for rear wheel	24V/252Ah (中置 CMSG HONG SIFANG) (QYD20/30S-E3Li)
驾驶员工具 Driver's tool	无痕式实心胎 Traceless solid tyre	48V/200Ah (中置 CMSG HONG SIFANG) (QYD40S-E3Li)
警示灯 Pin	杆式警示灯 Pole type warning light	48V/252Ah (中置 CMSG HONG SIFANG) (QYD40S-E3Li)
	自选涂装 Customized painting	48V/320Ah (中置 CMSG HONG SIFANG) (QYD50/60S-E3Li)
	多层牵引座 Multilayer traction base	48V/400Ah (中置 CMSG HONG SIFANG) (QYD50/60S-E3Li)
	紧急断电开关 Emergency power	24V/271Ah (集成 Pengcheng) (QYD20/30S-E3Li)
	倒车镜 Backview mirror	48V/271Ah (集成 Pengcheng) (QYD40S-E3Li)
	灭火器 Fire extinguisher	48V/404Ah (集成 Pengcheng) (QYD50/60S-E3Li)

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



2-6t
G系列锂电池牵引车
G Series Lithium Battery Tractor



G 系列 / 2-6t SERIES



» 整车简介 Brief Introduction

G系列2-6吨锂电池牵引车是合力倾力打造的新一代环保型牵引车，整车造型新颖、性能可靠，按照人机工程学原理来满足驾驶员乘坐、操作空间、环保性等一系列舒适性方面的要求。

该车型采用三轮支撑，前轮转向、后轮驱动，以锂电池组提供动力，采用进口交流电控装置进行无级调速的锂电池牵引车。具有低噪音、牵引力大、操作简便、转向轻便灵活等特点。

G series 2-6 ton lithium battery tractor which has popular appearance and reliable performance is a new generation of environment friendly tractor designed by HELI. With ergonomic design principle, driving comforts in sitting, operation space and environmental protection are ensured.

The tractor is powered by lithium battery. The steering wheel is front wheel and the drive wheel is rear wheel. Imported INMOTION controller with stepless speed regulation is assembled on the tractor. The tractor has low noise, powerful traction force, easy operation and flexible steering.

合力锂电池牵引车的优越性，更突出地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，隐形成本低，整体运营成本更经济。

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

锂电池优势 Lithium battery advantages

绿色环保 Environment Friendliness

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

免维护 Maintenance Free

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

使用寿命长 Long Service Life

- 循环使用4000次容量保持75%以上
- 同等应用场合，寿命远超铅酸电池
- 高性能锂电总成5年或一万小时超长质保
- 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

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

- 在-25℃至55℃之间高温工作环境，锂电池较铅酸均具有良好的性能
- Lithium battery is better than lead-acid battery when working between -25℃ and 55℃

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
- 高能量密度，自放电率1%以下，充放电性能优越
- 95%能量转换率，能源转换更高效
- 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

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，这不仅保护驾驶员和整车安全，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.

侧出式蓄电池拆装，方便可靠（选配） Easy and reliable side-pulling battery changing method (Optional)

- 2-4t锂电池牵引车选项
- It is optional on 2-4t tractor.

操纵系统 Operating system

- 合理的制动踏板、加速踏板的角度及位置，轻巧的踏板力，充分满足人机工程要求。
- Adjustable steering wheel fits different operator's size.
- 采用可调式方向盘，方向盘的位置可前后调节，以适应不同体型驾驶员操纵的要求。
- 具有良好的制动功能，配置机械、液压及电制动的三套独立的制动系统，安全可靠。
- 装有点动按钮操作装置，可实现单人的拖、挂操作。

- Proper angle, position of braking pedal, acceleration pedal and slight pedal force fully satisfy ergonomic require.
- With three independent braking system, mechanical, hydraulic, and electric, the brake is safe and reliable.
- With forward&backward inching button, connect&release the pin can be realized by oneself.

驱动系统 Drive system

- 2-4t锂电池牵引车使用电动车专用驱动桥，噪音小、无污染、运行平稳、密封性能好同时具有较大的离地间隙，保证本车具有良好的通过性
- 2-6t锂电池牵引车使用合力自制的减速箱和驱动桥总成，结构紧凑，传动平稳
- Special drive axle for AC type electric tractor is assembled on 2-4t tractor offering low noise, no pollution, stable travelling and good sealing condition. With large underclearance, good passing ability is ensured.
- HELI homemade reducer case and drive axle assembly are assembled on the 2-6t tractor offering compact structure and stable transmission.

转向系统 Steering system

- 前轮采用结构紧凑的链轮传动结构，转向操纵灵活、轻便、效率高
- 4-6t锂电池牵引车采用双胎结构，车辆运行平稳
- Structure compacted sprocket drive structure is applied on the front wheel offering flexible and easy steering operation and high efficiency.
- Dual-tyre structure is applied on 4-6t tractor offering stable travelling.

