

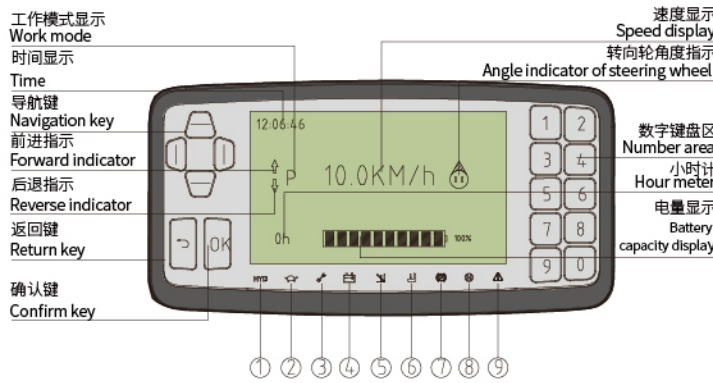
充电器技术 Charger technology



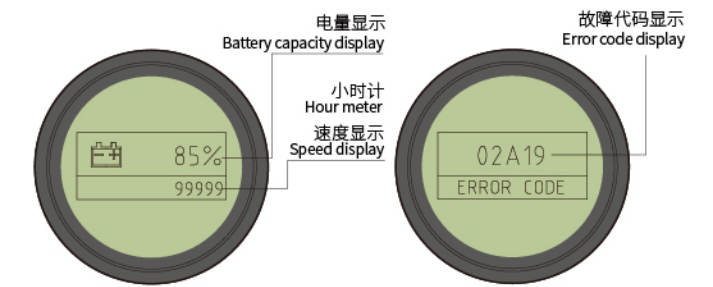
- > 高效: 大于95%充电效率, 符合节能减排要求。
- > 快速: 最快2小时可完成100%全充电。
- > 兼容: 48V/80V兼容, 满足不同电压等级需求。
- > 安全: 内置防反保护, 具备失效自隔离功能;
- > 完善的故障自检提示, 方便客户维护。

- > 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: 48 v / 80 v 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 .

智能仪表 Smart meter



- ① 直流泵空故障指示灯 DC pump fault indicator
- ② 龟爬指示灯 Turtle speed indicator
- ③ 故障报警灯 Fault indicator
- ④ 低电量指示灯 Low voltage indicator
- ⑤ 提升锁止灯 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



注: 静态时显示小时计, 动态时显示速度。  
Notes: display working hour in static and speed in motion



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.



技术参数 Technical Parameters

G系列1-5t锂电池固定平台搬运车 G series 1-5t Lithium Battery Platform Truck									
1 项目 Item	单位 Unit								
2 车型名称 Truck Model		BD10-JB3Li	BD20-JA3Li	BD20-JB3Li	BD30-JA3Li	BD30-JB3Li	BD40-JA3Li	BD50-JA3Li	
3 操作方式 Operating mode		座驾式 Seated							
4 载重能力 Capacity	t	1	2	2	3	3	4	5	
5 轴距 Wheelbase	mm	1150	1650	1650	1650	1650	1810	2100	
6 自重 Weight	kg	730	1220	1220	1330	1330	1900	2240	
7 空载时前后轮负载 Front-rear tires load without load	kg	380/350	700/520	700/520	700/630	700/630	900/1000	1150/1250	
8 类型 Type		充气轮胎 Pneumatic tires							
9 轮胎 Tires	前轮 Front tire	5.00-8-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-12PR	
10	后轮 Rear tire	5.00-8-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-12PR	
11 座椅(地面)高度 Seat height(front ground)	mm	735	860	860	860	860	980	980	
12 牵引座高度 Traction base height	mm	450	580	580	580	580	720	720	
13 外形尺寸: 长×宽×高 Truck dimension(length×width×height)	mm	2770×1000×1225	3635×1400×1400	3635×1400×1400	3635×1400×1400	3635×1400×1400	3990×1500×1500	4595×1500×1500	
14 平台尺寸: 长×宽×高 Platform dimension(length×width×height)	mm	1400×1000×560	2240×1400×680	2240×1400×680	2240×1400×680	2240×1400×680	2600×1500×850	3200×1500×850	
15 最小离地间隙 Min. Ground clearance	mm	80	130	130	130	130	120	120	
16 转弯半径 Turning radius	mm	3000	3100	4300	3100	4300	4400	4800	
17 行驶速度(满载/空载) Driving speed(with/without load)	km/h	8.0/10.0	12.0/16.0	12.0/16.0	12.0/16.0	12.0/16.0	12.0/15.0	12.0/15.0	
18 爬坡能力(满载) Gradeability(with load)	%	10%	10%	10%	10%	10%	10%	8%	
19 行车制动 Driving brake		液压制动与电制动 Hydraulic brake and electric brake							
20 驻车制动 Parking brake		机械式 Mechanic							
21 驱动方式 Driving mode		后轮驱动 Rear drive							
22 驱动电机 额定功率 Drive motor rated power	kw	3	4	4	5	5	6	6	
23 转向电机 额定功率 Steering motor rated power	kw	/	1.35	/	1.35	/	1.35	1.35	
24 锂电池电压/容量 (Ah) Battery voltage/capacity(Ah)	V/Ah	24/202	48/202					48/271	
25 锂电池重量 Battery weight	kg	100	190					220	
26 前轮距 Tread, front tire	mm	790	1160					1250	
27 后轮距 Tread, rear tire	mm	820	1160					1250	
28 行驶控制方式 Driving control mode		电子无级式 Electronic stepless mode							
29 驾驶员耳边噪音 Operator's ear noise	db(A)	< 65							

标准配置 Standard configuration	选用装置 Optional configuration	锂电池选项 Lithium battery options
流线型玻璃钢罩 Streamlined glass fiber cover	驾驶室 Cabin	实心胎 Solid tire
液晶组合仪表 Liquid crystal combination display	平台护板 Platform guard bar	简易雨棚 Simple rain cover
充气胎 Pneumatic tires	LED警示灯 LED warning light	用户可选颜色 Customized painting
牵引销 Traction pin	货箱 Crate	
随车工具 Drive's tool	非标平台尺寸 Optional dimension platform	

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1-5t  
G系列锂电池固定平台搬运车  
G Series Lithium Battery Platform Truck





## » 整车简介 Brief Introduction

G系列1-5吨锂电池固定平台搬运车是合力倾力打造的新一代环保型搬运车辆，整车造型独特，按照人机工程学的原理从美学的角度去融合和升华设计形态，来满足驾驶员乘坐、操作空间、方便性及环保等一系列舒适性方面的要求。

该车型以锂电池组提供动力，采用进口交流电控和国内知名品牌的交流电机等技术进行无级调速的电动搬运车。整机高效节能，具有可靠性好，操作舒适，动力强劲等特点。

As the newly designed environmentally friendly tractor machines, HELI G Series Lithium Battery Platform Truck has the unique profiling, ergonomically and aesthetic philosophy combination for operator comfort and ease of use, maintenance convenience.

This machine is powered by Lithium battery, with imported AC controller matched AC motors to supply the stepless accelerating, high efficiency, reliable quality, comfortable operation, and strong power.

合力锂电池固定平台搬运车的优越性，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 platform truck 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.

### 绿色环保 Environment Friendliness

- 零排放
- 低噪音
- 不含重金属
- 无滴漏腐蚀
- 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

### 适合高低温工作

Suitable for working in both high and low environment

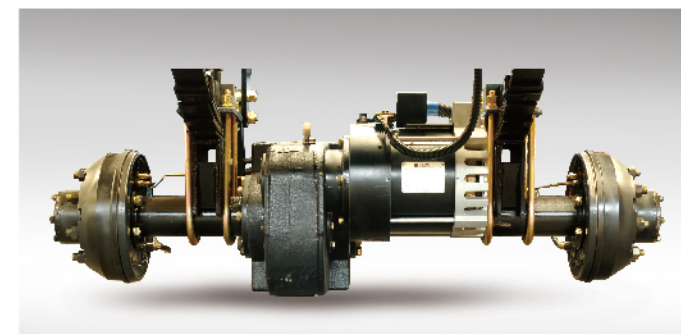
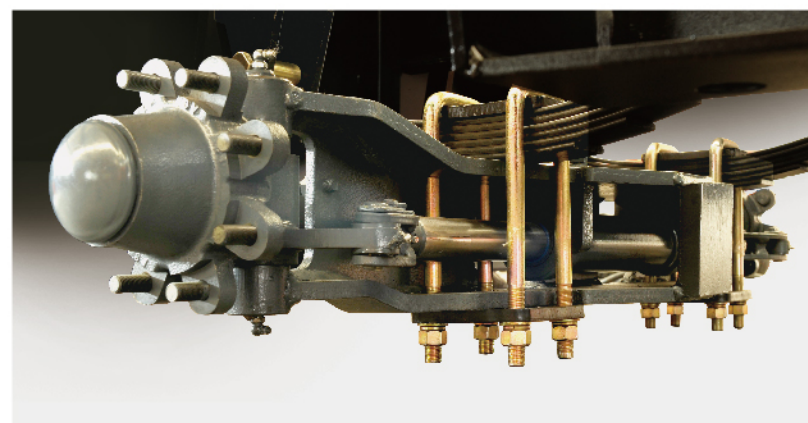
- 在-25℃至55℃之间高低温工作环境，锂电池较铅酸均具有良好的性能
- Lithium battery is better than lead-acid battery when working between -25℃ and 55℃

### 高安全 High Safety

- 根据工业车辆特点，实现锂电池材料、电芯类型、PACK工艺以及系统电源管理的整车安全防护设计
- “多节点安全闭环保护”实现车辆多状态实时闭环保护
- 充电“锁扣确认”功能，有效避免“热插拔”操作
- “全系统紧急断电”功能，达到车辆控制系统和BMS电源迅速切断，安全有效
- According to the characteristics of industrial vehicles, it achieves safety protection design which includes lithium battery materials, battery core type, pack technique and system power management
- "Multiple node safety closed circuit protection" realizing truck real time closed circuit protection in variable conditions
- "Lock affirming" function during charging avoiding "hot connecting and disconnecting" operation effectively
- "Whole system emergency button" to disconnect the truck control system and bms power quickly ensuring truck safety

### 驱动系统 Drive system

- 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
- 传动比大、牵引力大；爬坡能力强，性能卓越，满足路面复杂的场合
- Special drive axle for electric machines with low noise, non-pollution, stable running, perfect sealing, and also with enough ground clearance for good trafficability.
- Large gear ratio, powerful traction, strong gradeability, perfect performance, suitable for complex operating condition.



整车选配：驾驶室 Optional: Cab

整车选配：护栏 Optional: Platform guard bar

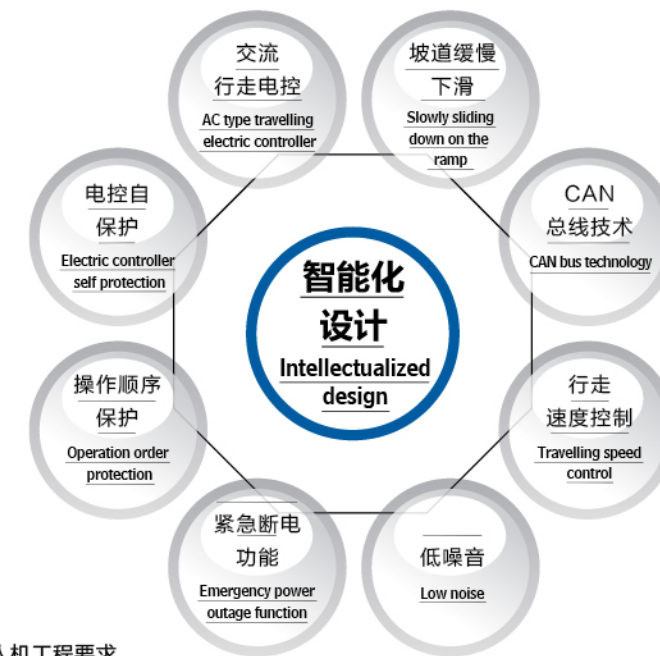
### 转向系统 Steering system

- 本车采用全液压横置油缸转向桥或者大速比循环球转向器实现前轮转向，该转向系统具有效率高，操作轻便，使用寿命长，转向灵活轻便等特点
- 前后悬挂采用弹性连接，整机舒适性好

- With fully-hydraulic Transverse cylinder power steering or circulating ball type redirector, easily steering, and long working life.
- Front and rear suspension are with elastic connection for more comfort.

### 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.



### 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
- 采用可调式方向盘，方向盘的位置可前后调节，以适应不同体形驾驶员操纵的要求
- 具有良好的冷态制动效能，产生足够的制动力，使行车制动和驻车制动性能符合强制性标准的要求

- Comfortable brake/accelerating pedal position with light stepping strength, fully meeting ergonomically demands.
- With front-rear adjustable steering wheel to satisfy different height drivers.
- With excellent cold-brake efficiency, enough brake force, fully meet the parking and driving brake standard.

### 车身系统 Chassis system

- 侧出式蓄电池拆装，方便可靠
- Side-extraction battery replace, very convenient and reliable.

