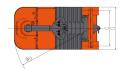
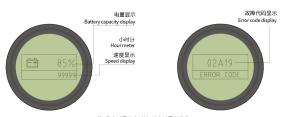
G series 2-4.5 t







≫智能仪表 Smart meter



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.



HELI合力

1	项目 ltem		単位 Unit	2-4.5t 站式锂电池率	吲车 2-4.5 ton Stand-on Type Lith	ium Battery Tractor
	车型 Model			QYD20S-LF3Li	QYD30S-LF3Li	QYD45S-LF3L
2	驾驶方式 Driving mode				站式 stand-on	
3	额定牵引重量 Reated towing weight		kg	2000	3000	4500
	自重 Service weight		kg	730	800	870
5	额定牵引力 Reated traction force		N	750	1250	1250
5	最大牵引力 Max. traction force		N	2200	2500	2700
,	行驶速度(満載/空載 Travelling speed (unlo) aded/loaded)	km/h	7	7/8	6/8
3	爬坡能力(满载/空载) Gradeability (unloaded/loaded)		96	5/10 4/10		
9	外形尺寸:长x宽x高 Overall dimension:Lxk	VxH	mm	1490x754x1200		
	轴距 Wheelbase		mm	1130		
	轮距	前 Front	mm	単轮 Single wheel		
Tread		后Rear	mm	630		
	最小转弯半径 Min. steering radius		mm	1450		
	最小离地间隙 Min. ground clearance		mm	80		
	前悬 Front overhang		mm	210		
	后悬 Rear overhang		mm	395		
	牵引挂钩高度 Traction hook height		mm	260/360		
,	轮胎	前 Front	mm	φ250x100 10x4x6.5		
	Tyre	后Rear	mm	φ250x120 10x5x6.5		
	行车制动 Service brake			电制动和电磁制动Electric brake and electromagnetic brake		
	停车制动 Parking brake			电磁制动 Electromagnetic brake		
	驱动方式 Driving type			前轮驱动 Front drive		
	驱动电机功率 Driving motor power		kW	1.5 (AC) 2.6 (AC)		
	转向电机功率 Steering motor power		kW	0.15 (DC)		
	电池电压/容量 Battery voltage/capaci	ty	V/Ah	24/202		
	电池重量 Battery weight		kg	100		
5	行驶控制方式 Driving control mode			电子无极式 Electronic stepless mode		

可选配置 Optional configuration	锂电池选项 Lithium battery options	
前大灯 Head light	LED警示灯 LED warming light	24V/200Ah (中盐 CNSG HONG SIFANG) (QYD20/305-LF3LI) 24V/252Ah (中計 CNSG HONG SIFANG)
聚氨酯轮胎 (3-4.5t) Polyurethane tire (3-4.5t)	自选涂装 Customized painting	24V/252Ah (中盐 CNSG HONG SIFANG) (QYD20/30/45S-LF3LI)

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· Our products are keeping improving and HELI have the rights to update truck specifications and design without prior notice. The figure in the brochure may not be the standard model and its configuration and color may be different from actual machine. Please refer to the real machine.

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部編 (Post Code) / 230000

2-4.5 t

G系列站式锂电池牵引车



www.helichina.com

G series 2-4.5 t

>> 整车简介 Brief Introduction

>> 锂电池优势 Lithium battery advantages

2-4.5t站驾式镖电池牵引车 是合力打造的新一代环保型牵引车辆、整车造型新颖、性能可靠、是区域 物流领域的重要设备,主要用于汽车制造及大型工业企业内部的物料转运。

该车型系三轮支承,以蓄电池组提供动力,驱动和转向均为前轮;整车采用进口交流电控装置进行无 极调速,具有高效节能、低噪音、操作简单、转向轻便灵活等特点。

2-4.5t stand-on type lithium battery tractor is a new generation of environment friendly tractor designed by HELI. With popular appearance and reliable performance, the truck mainly used in material handling operation inside automobile manufacturing and large industrial enterprises is an important equipment in regional logistics

The lithium battery is powered by lithium battery. The steering wheel and drive wheel is front wheel. Imported AC type controller with stepless speed regulation is assembled on the tractor. The tractor has high energy efficiency, low noise, 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.

绿色环保 Environment Friendliness

- 零排放 Zero emission
- Low noise
- Free of heavy metal: No corrosion
- 无滴漏腐蚀
 干酪素挥发 No acid mist volatilization

免维护 Maintenance Free

- 无需补液、防尘 . 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

Suitable for working in both high and low environment

- 在-25℃至55℃之间高低湿工作环境、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°C and 55°C

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%/月以下,充放电性能优越
 95%能量转换率。能源转换率高效
- 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



驱动系统 Driving system

- 采用合力自制驱动单元,结构紧凑、噪音小、无污染、运行平稳;
- 交流电机、无碳剧、无需日常保养。
- . With HELI homebrew driving unit, the tractor has compact structure, low noise, no pollution and stable travelling.
- . AC motor without carbon brush and free of daily maintenance is assembled.

制动系统 Braking system

- 采用交流再生制动技术,制动时可同时对蓄电池充电,节约能源;
- 具有坡道自制动功能,安全性强。
- With AC type energy regenerating technology, battery can be charged when braking and energy is saved.
- · Self braking function on slope enhances tractor safety.







转向系统 Steering system • 电转向车型采用先进的电转向技术,转向轻便、可靠,跟随性好。

. With electric steering technology, the tractor has reliable and easy steering and superior tracking character.

操纵系统 Operating system

• 合理的操作空间布置,优化的操作手柄,充分满足人机工程要求。

· Reasonable operating layout and optimized operating knob satisfy ergonomic requirements.

电控自

保护

Electric controlle

self protection

操作顺序 紧急断电 保护 功能 Operation order

智能化

设计

Intellectualized

design

Emergency power outage function

行走 速度控制

Travelling speed

控制系统 Controlling system

- 交流电控自保护,免维护,噪音更低;
- 交流电机,无碳刷,无需日常保养。所有电机有温度传感器和速度传感器,避免电机意外损坏; • 行走速度闭环控制,保证了整车行驶速度与加速的跟随性好,保证下坡按动加速器,不会失去控制;
- 爬坡时,动力充沛、强劲;
- 不用手制动就可以实现空/满载情况下的坡道自动停车,安全性能优异。
- . AC controller with self protection, free maintenance and low noise is assembled.
- AC motor without carbon brush and free of daily maintenance is assembled. Temperature sensor and speed sensor are assembled in all motors
- to protect motor from accidental damage. . Close-loop control on travelling speed ensures superior tracking of travelling speed and acceleration and that the tractor will not be out of
- control when step on acceleration pedal.
- · The tractor is powerful when going uphill.
- . The tractor can stop on a slope automatically without hand brake under loaded or unloaded condition, ensuring superior safety.

其它 Others

- 蓄电池标配垂直起吊,可选配侧拉。
- 驾驶员不需下车就可挂、脱牵引销,效率更高。
- . The battery can be pulled out from side as optional configuration. The standard battery changing way is lifted vertically.
- . Connection& release between tractor and trailer can be realized by one person without leaving the tractor.

