



>> 锂电池技术特点 Technical characteristics of lithium battery

绿色环保 Environment Friendliness

- 零排放
- Zero emission

No corrosion

- 低噪音
- Low noise · Free of heavy metals
- 不含重金属
- 无滴漏腐蚀
- 无酸雾挥发

免维护 Maintenance Free

- 免人工保养
- 无需补液、防尘
 Unnecessary of fluid adding and dust proofing

 - Daily maintenance free Manual maintenance free

No acid mist volatilization

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
- Lithium battery is better than lead-acid battery when working between -25°C and 55°C

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

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

合力锂电池叉车的优越性,更突出的体现在生命周期内使用成

。与铅酸蓄电池叉车相比,锂电池叉车适合多班次场合,隐性成本

95%能量转换率,能源转换更高效

,整体运营成本更经济。

- 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
- 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

2 hours charging meet 6-8 hours working demand

隐性成本

维护费用 更换电池费用 锂电池电动叉车

铅酸电池电动叉车

安徽合力股份有限公司 ANHUI HELI CO., LTD.

技术参数 Technical parameters

单位 Unit

kg

N

L(mm)

W(mm)

H1(mm)

L2(mm)

L3(mm)

H2(mm)

H3(mm)

H5/H6/H7(mm)

H4(mm)

a(°)

b(°)

mm

L1(mm)

mm

mm

kg

kg

km/h

%

228

kW

kW

V/Ah

448

db

kg

半封闭驾驶室 Semi-closed cab

无痕迹实心轮胎

Customized painting 杆式警示灯(2-7吨)

便捷式操纵牵引机构

倒车镜装置

灭火器 Fire extinguisher

自选涂装

标准配置 Standard configuration 选用配置 Optional configuration

项目

1 车型名称

Length 总宽 Width 总高

Overhang length g 后悬

12 牵引座离地高度

13 最小离地间隙

Departure angle 最小转弯半径

轮距

Tread

轮胎

Tyre 20 整车重量

21 前轴承载质量

22 后轴承载质量

25 行车制动

26 停车制动 Parking brak

27 驱动电机功率

Driving motor pov 转向电机功率

Steering motor pow 理电池电压/容量

31 驾驶员耳边噪音

32 电池重量

液晶仪表

全车实心轮胎

行驶控制方式

Liquid crystal instrument

Solid tyre for all wheels 多层牵引座

Multi layer traction seat 紧急断电开关

Emergency power 隨车工具 Driver's tool

23 行驶速度(満载/空载)

24 爬坡能力 (满载/空载)

proach angle

10 座椅高度

11 踏板高度

14 接近角

15 离去角

额定牵引重量

最大挂钩牵引力

额定挂钩牵引力 Rated towing force

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G2系列2-7吨锂电池牵引车

960

1270

240

400

710

200

290/350

1600

1310

825

4.00-8

2x4.00-8

760

290

470

8/12

液压制动&交流再生制动 Hydraulic brake &AC regeneration brake

机械制动 Mechanical

4.0 AC

48/202

电子无级式 Electronic stepless mode

<65

5/20

6/20

4000

6000

1500

QYD50S -J3G2LI

5000

6100

QYD60S -J3G2LI

6000

8000

2600

7000

8100

2800

2060

1050

1540

240

400

250/315/380

1790

1420

882

4.00-8

1020

330

6.5 AC

0.6 AC

48/271

220

4/20

6/20

QYD30S

3000

3100

1000

OYD20S

2000

3000

800

1740

860

1270

260

280

250/310

43

1530

1200

730

3.50-5

605

225

380

9/12

3.0 AC

24/202

10/20

*本公司保留更改产品设计和规格的权力, 恕不另行通知。



2-7 t

G2系列锂电池牵引车

G2 series lithium battery tractor



www.helichina.com

G2 series 2-7 t



>> 整车简介

>>> Brief introduction

G2系列2-7t锂电池牵引车是安徽合力股份有限公司新研发的全新产品, 整车布局、操纵性能得到全面的提升。该车型采用低踏板座驾式结构布局,兼 顾上、下车方便性与驾驶舒适性,有效降低操作者劳动强度,提高生产效率。

G2系列2-7吨锂电池牵引车的研发,体现了合力"以市场需求为导向" 的研发体系和"以人为本,以精品回报社会"的核心价值观。

该系列车型适用于汽车制造业、邮政、医药、烟草等场内货物的牵引作业。

G2 series 2-7 ton lithium battery tractor, with huge improvement on layout and operating performance, is a new product designed by HELI .With low step height, the tractor realized both strength of stand-on tractor that low step height which allows for easy entry and exit and strength of sit-down tractor that sit-down driving which provide comfortable driving and reduce operator fatigue.

HELI R&D system that "Oriented by market demand" and core values that "people-oriented and repay the society with high quality products" are fully expressed by G2 series 2-7 ton lithium battery tractor.

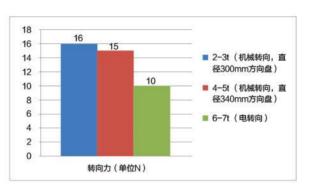
The tractor is mainly used in car industry, postal service, medicine, tobacco, and other transport and logistics industry.





转向系统 Steering system

- 2-5吨锂电池牵引车采用齿轮式机械转向,结构可靠、转向力小,符合助力转 向系统的转向力要求。
- 6-7吨锂电池牵引车采用电子转向,选用进口交流转向控制系统,实现闭环控 制、CAN总线通讯、转弯限速、转向角度显示、开机自动回位功能。
- 2-5t lithium battery tractor adopts reliable gear type mechanical steering system. The steering force is light and meets power-assisted steering system · requirement.
- 6-7t lithium battery tractor adopts electric steering control system. With imported steering controller, closed-loop control, CAN communication, limited steering speed, display of steering angle and automatic back to center position when starting are realized.



驱动系统 Driving system

- 采用交流驱动系统,闭环控制。有坡道缓慢下滑、CAN总线通讯、车辆微动等功能。
- 驱动电机采用低压三相交流异步电机,电机配有速度编码器和温度传感器,速度编码器外置在电机的后端部,维修方便。
- . With AC driving system, the tractor has functions of close-loop control, slowly sliding down on the ramp, can communication, inching centering
- · Low voltage three phase AC type asynchronism motor is used for driving. There are speed encoder and temperature sensor in it. Speed encoder is outside installed at the rear end of the motor for easy maintenance.

> 主要特点

- 满足欧洲市场及国内中高端用户开发。
- 优越的人机工程性能,使驾驶员很舒服地操纵所有的按钮和踏板,有助于缓解驾驶疲劳。
- 低踏板,上下非常方便。
- 采用交流驱动和转向控制系统,高效率、低能耗。
- 前进及后退双向微动功能,可实现单人脱、挂销作业。
- 6-7吨具有转弯限速功能,安全可靠。
- 高效的传动系统设计, 爬坡强劲、动力充沛。
- 选配便捷式牵引机构,驾驶员不离开座椅即可操纵牵引销。

• The tractor was designed for Euro-market and domestic high-end market.

- · Ergonomically designed compartment allows easy operation of all controls and pedals to help reduce operator fatigue.
- · Low step height allows easy entry and exit.
- . AC control system is adopted on driving and steering which provide high efficiency and low energy-consumption.
- · With foreward&backward inching button at both side, connect&release the pin can be · realized by oneself.
- · With speed limit when turning so the tractor is more safe and reliable.
- · Efficient transmission system provides a strong power while climbing.
- · With the option of convenient towing mechanism, operator can control the pin without leaving the seat.





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

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。
- 具有良好的制动功能,配置机械、液压及电制动三套独立的 制动系统,安全可靠。
- Proper angle, position of braking pedal, acceleration pedal and
- · slight pedal force fully satisfy ergonomic require.
- · Adjustable steering wheel fits different operator's size. With three independent braking system, mechanical, hydraulic, and electric, the brake is safe and reliable.

