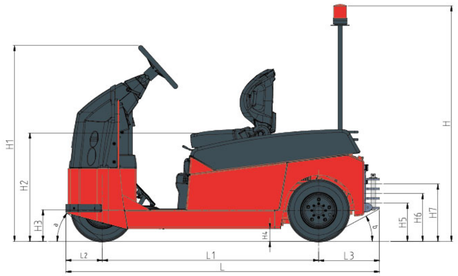
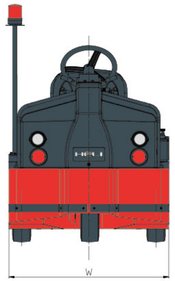
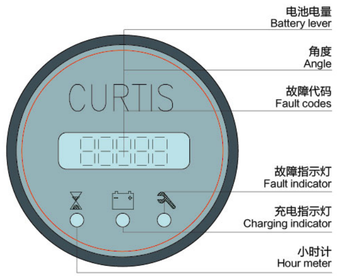
6-7 吨
G2系列电动牵引车
G2 SERIOUS AC TYPE ELECTRIC TRACTOR





多功能液晶仪表 Multifunctional LCD meter



能量再生技术 Energy regeneration technology

- 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% 蓄电池单作业循环时间延长
Working hour of single battery shift 15% increased

技术参数 Technical parameters

	项 目		Item	单位 Unit	G2系列6-7吨电动牵引车	
1	车型名称		Model		QYD60S-J1G2	QYD70S-J1G2
2	额定牵引重量		Rated towing weight	kg	6000	7000
3	最大挂钩牵引力		Max. towing force	N	5500	6000
4	额定挂钩牵引力		Rated towing force	N	2600	2800
5	总长		Length	L(mm)	2060	
6	总宽		Width	W(mm)	1050	
7	总高		Height	H(mm)	1540	
8	前悬		Overhang length	L2(mm)	240	
9	后悬		Overhang length	L3(mm)	400	
10	座椅高度		Seat height	H2(mm)	710	
11	踏板高度		Pedal height	H3(mm)	200	
12	牵引座离地高度		Traction hook height	H5/H6/H7(mm)	252/315/378	
13	最小离地间隙		Min. ground clearance	H4(mm)	75	
14	接近角		Approach angle	a(°)	38	
15	离去角		Departure angle	b(°)	28	
16	最小转弯半径		Min. steering radius	mm	1790	
17	轴 距		Wheel base	L1(mm)	1420	
18	轮距 Tread	前 Front		mm	–	
		后 Rear		mm	882	
19	轮胎 Tyre	前 Front			4.00-8	
		后 Rear			2x4.00-8	
20	整车重量		Tractor weight	kg	1140	1240
21	前轴承载质量		Front axle load	kg	360	420
22	后轴承载质量		Rear axle load	kg	780	820
23	行驶速度（空载/满载）		Travelling speed(loaded/unloaded)	km/h	14/9	
24	行车制动		Driving brake		液压、交流再生制动 AC type hydraulic regeneration	
25	停车制动		Parking brake		机械制动 Mechanical	
26	驱动电机功率		Driving motor power	kW	6.5AC	
27	转向电机功		Steering motor power	kW	0.6AC	
28	蓄电池电压/容量		Battery voltage/capacity	V/Ah	48/320	
29	行驶控制方式		Driving control mode		电子无级式 Electronic stepless mode	
30	驾驶员耳边噪音		Operator's ear noise	dB	<65	

标准配置 Standard configuration		选用配置 Optional configuration	
国产蓄电池组 Homemade battery	杆式警示灯 Pole type warning light	FAAM蓄电池 Faam battery	无痕迹实心轮胎 Traceless solid tyre
液晶仪表 Liquid crystal instrument	紧急断电开关 Emergency power	HOPPECKE蓄电池 Hoppecke battery	倒车镜装置 Backview mirror
全车实心轮胎 Solid tyre for all wheels	随车工具 Driver's tool	便捷式牵引机构 Convenient traction institutions	灭火器 Fire extinguisher
多层牵引座 Multi layer traction seat		半封闭驾驶室 Semi-closed driver's cab	自选涂装 Customized painting

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6-7 吨 G2系列
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G2 SERIOUS AC TYPE ELECTRIC TRACTOR

G2 series / 智能·环保 INTELLIGENT ENVIRONMENT-FRIENDLY

HELI
中国合力 提升未来

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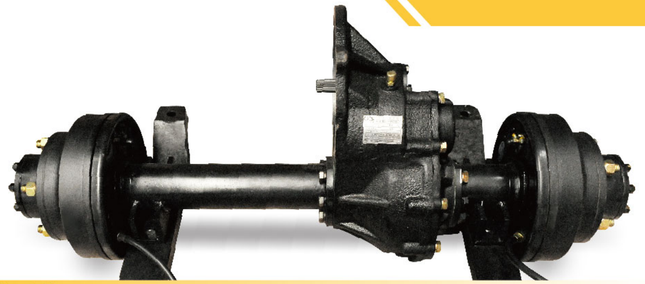


转向系统 Steering system

- 电子转向控制系统采用交流控制技术，控制器采用美国CURTIS进口交流转向控制器，实现闭环控制、CAN总线通讯、接近开关限位保护、开机自动定位功能。
- 转向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，额定功率0.6kW，IP44，转向信号输入设备采用双组输出编码盘，48位脉冲输出，限位保护采用接近开关，安全可靠。
- 具有转向限速、转向角度显示功能。

- AC control system is adopted on electric steering control system. Through CURTIS AC type steering controller, closed-loop control, CAN communication, proximity switch limit protection and automatic locate function when starting are realized.
- Low voltage three phase AC type asynchronism motor is used for steering. There are speed encoder and temperature sensor in it. Its rated power is 0.6kw and protection degree is IP44. Dual output encoder , 48 digit pulse output and proximity switch limit protection are used.
- It has steering speed limit and steering angle display functions.

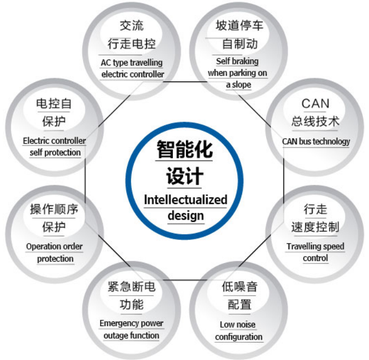
驱动系统 Driving system

- 驱动控制系统采用交流控制技术，控制器采用美国CURTIS进口交流驱动控制器，实现闭环控制、坡道停车、CAN总线通讯、点动对销、座椅开关、手制动开关、刹车开关和4个PWM斩波输出端口等功能。
- 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。

- Ac type control system is adopted for driving control system. ZAPI AC type driving controller is used. It has close-loop control, slope parking, CAN communication, inching centering, seat switch, parking brake switch, service parking brake and 4 PWM chopping output ports and other functions.
- 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.

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 and position of braking pedal and acceleration pedal and slight pedal force fully satisfy ergonomic requirements.
- Adjustable steering wheel fits different operator’s size.
- With mechanical, hydraulic and electric these three independent braking system, the brake is safe and reliable.

整车简介

G2系列6-7t电动牵引车是安徽合力股份有限公司2016年研发的全新产品，整车布局、操纵性能得到全面的提升。采用低底板（低踏板）座驾式结构布局，既实现了站驾式电动牵引车低踏板设计，方便上、下车；又保留了座式电动牵引车的驾驶舒适性，提供了驾驶座位，降低了劳动强度。

G2系列6-7吨电动牵引车的研发，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。

适用于汽车制造业、邮政、医药、烟草等物流场内货物的牵引作业。

Brief introduction

G2 serious 6-7 ton AC type electric tractor, with a huge improvement on layout and operating performance, is a brand new product designed by HELI in 2016.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 serious 6-7 ton AC type electric tractor.

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

主要特点

- 满足欧洲市场及国内高端用户开发；
- 人机工程的设计布局，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；
- 采用电子助力转向、便捷式牵引机构，提升用户作业效率；
- 具有转向限速、前进及后退双向点动功能，安全可靠；
- 高效的传动系统设计，爬坡强劲、动力充沛。

Main charateristics

- The tractor was designed for Euro-market and domestic market in 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.
- Electric steering and convenient towing mechanism were adopt to improve work efficiency.
- With turning speed limit and foreward&backward inching button, the tractor is more safe and reliable.
- Efficient transmission system provides a strong power while climbing.