

HELI

2-7 t

G2 series AC type electric tractor



G2 SERIES 2-7 t



» Brief introduction

G2 Series 2-7 ton AC type electric 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 AC type electric tractor.

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



Steering system

- 2-5t electric tractor adopts reliable gear type mechanical steering system. The steering force is light and meets power-assisted steering system requirement.
- 6-7t electric 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.

Driving system

- With AC driving system, the tractor has functions of close-loop control, slowly sliding down on the ramp, can communication, inching centering and so on.
- 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.

» Main characteristics

- 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 forward&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.

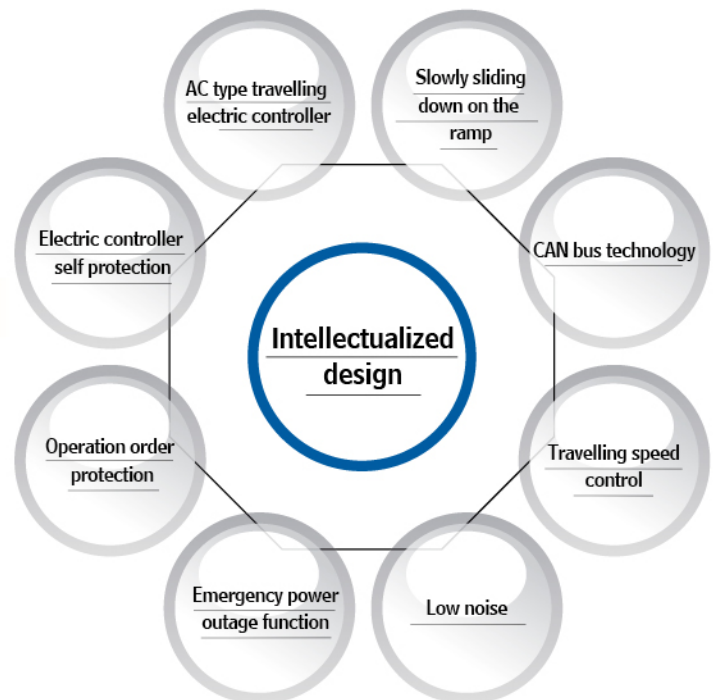


Superior intellectualized design

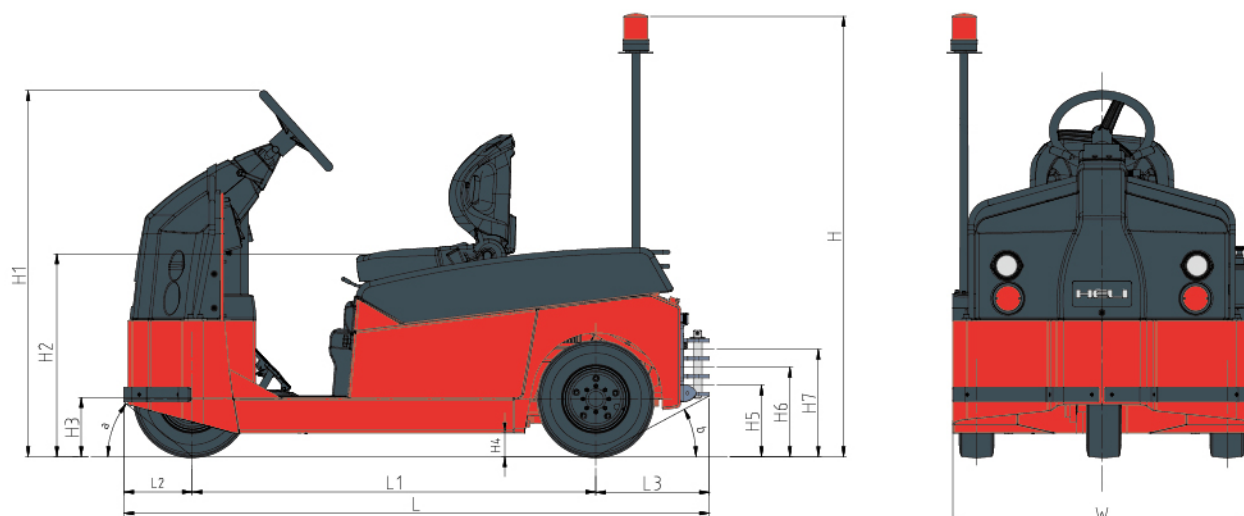
- Superior intellectualized designs not only ensure operator and truck safety but also improve working efficiency, reduce energy consumption.

Operating system

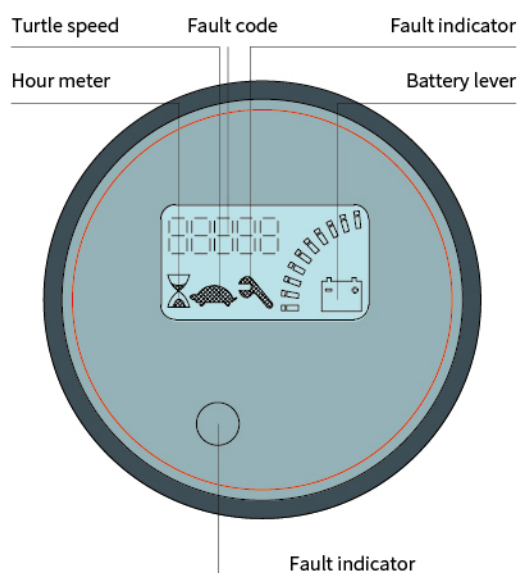
- Proper angle, position of braking pedal, acceleration pedal and slight pedal force fully satisfy ergonomic require.
- Adjustable steering wheel fits different operator' s size. With three independent braking system, mechanical, hydraulic, and electric, the brake is safe and reliable.



G2 SERIES 2-7 t



>> Multifunctional LCD meter



RENEWABLE ENERGY TECHNOLOGIES

With AC type energy regeneration technology, the working hour of single battery shift is 15% increased.



15%

Technical parameters

Item			Unit								
1	Model			QYD20S -J2G2	QYD30S -J2G2	QYD40S -J2G2	QYD50S- J2G2	QYD60S -J1G2	QYD60S -J2G2	QYD70S -J1G2	QYD70S -J2G2
2	Rated towing weight		kg	2000	3000	4000	5000	6000		7000	
3	Max. towing force		N	3000	3100	6000	6100	8000		8100	
4	Rated towing force		N	800	1000	1500	1600	2600		2800	
5	Length		L(mm)	1740		1950		2060			
6	Width		W(mm)	860		960		1050			
7	Height		H1(mm)	1270		1270		1540			
8	Overhang length		L2(mm)	260		240		240			
9	Overhang length		L3(mm)	280		400		400			
10	Seat height		H2(mm)	710							
11	Pedal height		H3(mm)	200							
12	Traction hook height		H5/H6/H7(mm)	250/310		290/350		250/315/380			
13	Min. ground clearance		H4(mm)	75							
14	Approach angle		a(°)	43		38					
15	Departure angle		b(°)	30		28					
16	Min. steering radius		mm	1530		1600		1790			
17	Wheel base		L1(mm)	1200		1310		1420			
18	Tread	Front	mm	-							
		Rear	mm	730		825		882			
19	Tyre	Front	-	3.50-8		4.00-8		4.00-8			
		Rear	-	2x4.00-8							
20	Tractor weight		kg	735	790	960	980	1140			
21	Front axle load		kg	260	300	365	370	360			
22	Rear axle load		kg	475	490	595	610	780			
23	Travelling speed (loaded/unloaded)		km/h	9/12		9/12	8/12	9/14			
24	Gradeability (loaded/unloaded)		%	10/20	6/20	6/20	5/20	6/20		4/20	
25	Driving brake		-	Hydraulic brake &AC regeneration brake							
26	Parking brake		-	Mechanical							
27	Driving motor power		kW	3.0 AC		4.0 AC		6.5 AC			
28	Steering motor power		kW	-		-		0.6 AC			
29	Battery voltage/capacity		V/Ah	24/240	24/320	48/210	48/240	48/320			
30	Driving control mode		-	Electronic stepless mode							
31	Operator's ear noise		db	<65							

Standard configuration

Optional configuration

Homemade battery	Emergency power	FAAM battery	Fire extinguisher
Liquid crystal instrument	Driver' s tool	HOPPECKE battery	Customized painting
Solid tyre for all wheels		Semi-closed cab	Pole type warning light(2-5 ton only)
Multi layer traction seat		Traceless solid tyre	Convenient towing mechanism
Pole type warning light(6-7 ton only)		Backview mirror	



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Our products are subject to improvements and changes without notice.