

## G2 SERIES 2-7 t

### » Technical characteristics of lithium battery

#### Environment Friendliness

- Zero emission
- Low noise
- Free of heavy metals
- No corrosion
- No acid mist volatilization

#### Long Service Life

- 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

#### High Efficiency and Energy Saving

- 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

#### Suitable for working in Both high and low environment

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

#### High Safety

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

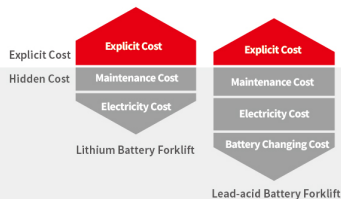
"Lock affirming" function during charging avoiding "hot connecting and disconnecting" operation effectively

"Whole system emergency button" to disconnect the truck control system and bms power quickly ensuring truck safety

#### Maintenance Free

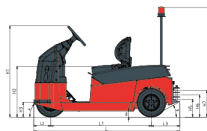
Unnecessary of fluid adding and dust proofing  
Daily maintenance free  
Manual maintenance free

The superiority of HELI lithium battery forklift truck is embodied in the use-cost within product lifecycle. Compared with lead-acid battery forklift truck, lithium battery forklift truck is more convenient for multiple working shifts. It has lower implicit cost and more economical total running cost.



Technical parameters							
		2-7t G2 series Lithium battery tractor					
Item	Unit	QYD20S- J20G2LJ/JG2LJ	QYD30S- J20G2LJ/JG2LJ	QYD40S- J20G2LJ/JG2LJ	QYD50S- J20G2LJ/JG2LJ	QYD60S- J20G2LJ/JG2LJ	QYD70S- J20G2LJ/JG2LJ
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(MH+H7mm)	250/310		290/350		250/315/380	
13 Min. ground clearance	H4(mm)			75			
14 Approach angle	α(°)	43				38	
15 Departure angle	β(°)	30				28	
16 Min. steering radius	mm	1530		1600		1790	
17 Wheel base	L1(mm)	1200		1310		1420	
18 Tread	mm			-			
19 Tyre							
20 Tractor weight	kg	625		930		1100	
21 Front axle load	kg	225		350		280	
22 Rear axle load	kg	400		580		720	
23 Travelling speed (loaded/unloaded)	km/h	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 Lithium battery voltage/capacity	V/Ah	24/202		48/202		48/271	
30 Driving control mode	-	Electronic stepless mode					
31 Operator's ear noise	dB(A)	<65					

Standard configuration	Optional configuration	Lithium battery options
Liquid crystal instrument	Semi-closed cab	24V/228Ah, 24V/202Ah (HEDING) QYD20/30S-J2G2LJ/JG2LJ
Solid tyre for all wheels	Traceless solid tyre	48V/228Ah, 48V/202Ah (HEDING) QYD40/50S-J2G2LJ/JG2LJ
Multi layer traction seat	Pole type warning light(2-7ton)	48V/302Ah, QYD60/70S-J2G2LJ/JG2LJ
Emergency power	Convenient towing mechanism	
Driver's tool	Blue (red) spotlight	
	Fire extinguisher	
	Blue (red) bar indicator	



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**HELI**

## 2-7 t G2 series Lithium battery tractor



www.heliforklift.net

## G2 SERIES 2-7 t



### » Brief introduction

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.

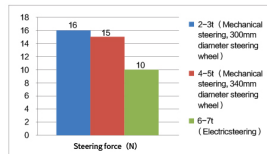
HELI R&D system that "Oriented by market demand" and core values that "people-oriented and repay the society with high quality products" are fully expressed by G2 series 2-7 ton lithium battery tractor.

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



### Steering system

- 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.



### 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.

