

HELI合力

G3 Series 6-10t Electric Counterbalanced Forklift Trucks



目录页

Contents Page

Part one

Product Overview

Part two

Advantages

Part three

Configuration Options

Part four

Competitor comparison

G3 series 6-10t electric counterbalanced forklift truck is a new generation of HELI with family design, with dual front-wheel drive and **high vehicle stability**. Lead-acid and lithium batteries are developed on the same platform. Suitable for indoor and outdoor working conditions.



Standard color

Optional color



Product Overview - Applications (6-7t)

HELI合力



Gear Manufacturing Application



Glass Industry Application



Gypsum Industry Application



Port Terminal Application



Model	Basic configuration	Performance
CPD60-GB2D(Li)	<ul style="list-style-type: none"> Italian ZAPI full AC electronic control Domestic 80V/840Ah (Acid type) HEDING 80V/606Ah (Lithium type) Imported/domestic full AC motor Steering speed limit function Full LED lights 	<ul style="list-style-type: none"> Travel speed(laden/unladen):15/16 km/h Lift speed(laden/unladen):350/460 mm/s Gradeability(laden):19%
CPD70-GB2D(Li)	<ul style="list-style-type: none"> Italian ZAPI full AC electronic control Domestic 80V/960Ah (Acid type) HEDING 80V/606Ah (Lithium type) Imported/domestic full AC motor Steering speed limit function Full LED lights 	<ul style="list-style-type: none"> Travel speed(laden/unladen):15/16 km/h Lift speed(laden/unladen):320/460 mm/s Gradeability(laden):18%



G3 series 8.5-10t lithium models are available in small batches in 2022.12, lead-acid models are being debugged and tested, and are expected to be available in small batches in 2023.3.

Model	Basic configuration	Performance
CPD85-GB2D(Li)	<ul style="list-style-type: none"> Italian ZAPI full AC electronic control Domestic 80V/960Ah (Acid type) HEDING 80V/808Ah (Lithium type) Imported/domestic full AC motor Steering speed limit function Full LED lights 	<ul style="list-style-type: none"> Travel speed(laden/unladen):14/15.5 km/h Lift speed(laden/unladen):300/395 mm/s Gradeability(laden):18%
CPD100-GB2D(Li)	<ul style="list-style-type: none"> Italian ZAPI full AC electronic control Domestic 80V/960Ah (Acid type) HEDING 80V/808Ah (Lithium type) Imported/domestic full AC motor Steering speed limit function Full LED lights 	<ul style="list-style-type: none"> Travel speed(laden/unladen):13/15.5 km/h Lift speed(laden/unladen):255/350 mm/s Gradeability(laden):15%



Comfortable



Safe and stable



Smart



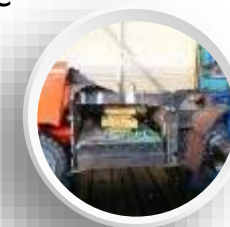
Quick charging



Easy maintenance



Superior performance



Good durability

G3 series 6-10t based on the new G3 series platform developed products, the vehicle has a reliable structure, superior performance, comfortable operation, safe and stable, intelligent operation, high charging efficiency, convenient maintenance, good durability and other characteristics, to bring customers a more comfortable driving and operation experience.

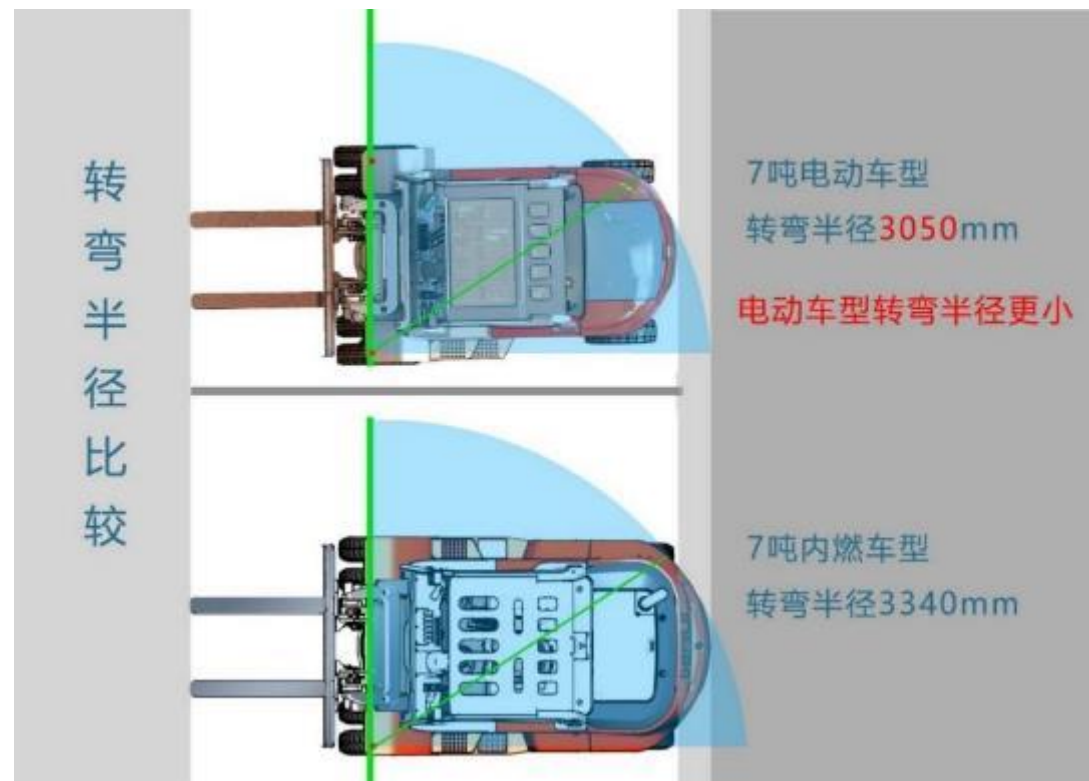


Advantages - Performance

HELI合力

» **Front wheel dual drive**, strong power, strong climbing, 6t-8.5t laden 18% slope, 10t laden 15% slope

» Small turning radius, the turning radius is better than the same tonnage IC forklift, for example, the turning radius of G3 series 7t is 290mm smaller.



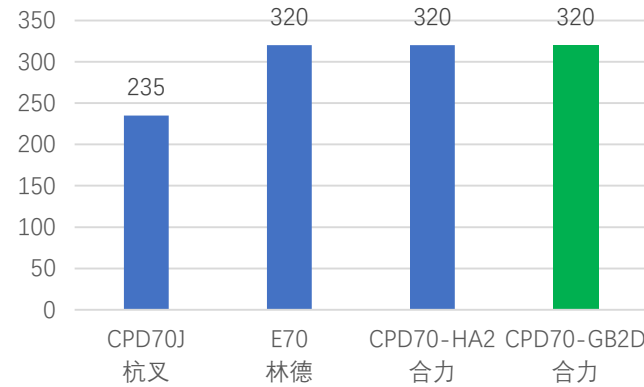


Advantages - Performance (G3 series 6-7t)

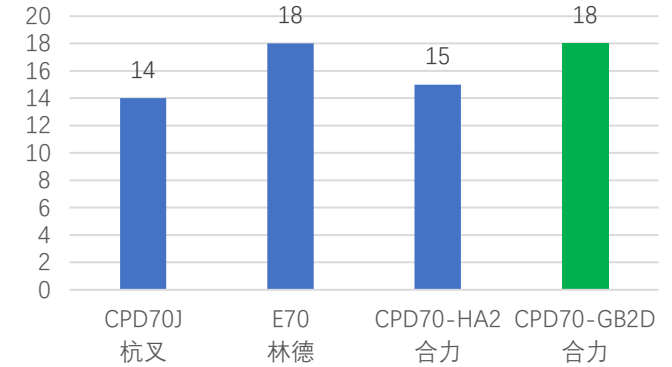
HELI合力

- » The lifting speed is the same as Linde, 320mm/s
- » Laden gradeability is higher than H series 7t, 15%→18% (↑20%)
- » Battery capacity increased compared to H series 7t, 920→960 Ah (↑5%)
- » Turning radius reduced compared to H series 7t, 3440→3050 mm (↓11.3%)
- » Wheelbase and rear axle load increased compared to H series 7t, 5030→5380 kg (↑7%)

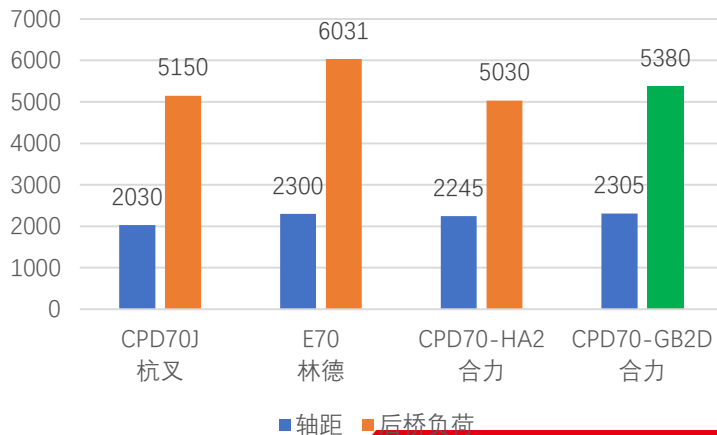
Laden lifting speed



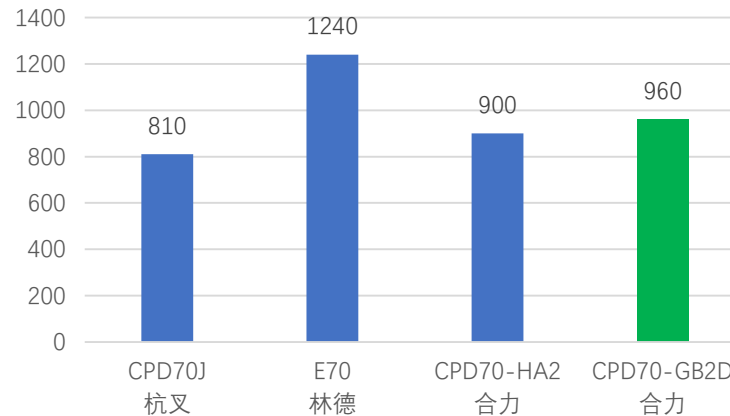
Laden gradeability



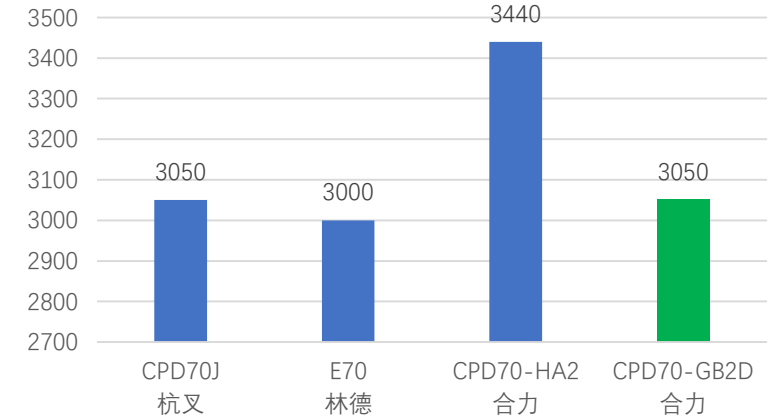
Wheelbase, rear axle load



Battery capacity



Turning radius





Advantages - Performance (G3 series 8.5-10t) HELI合力



G3 8.5t full load gradeability than G series 8.5t upgrade, 15 % → 18 % (↑ 20 %), compared with Hangcha J, XC series (13 %) has advantages



G3 10t full load gradeability is consistent with G series 10 tons, compared with Hangcha J, XC series (12 %) has an advantage



Lithium battery capacity is 12 % higher than Hangcha XC series



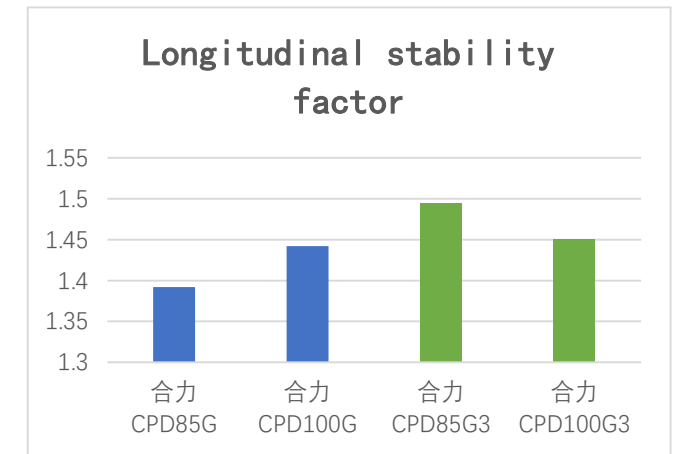
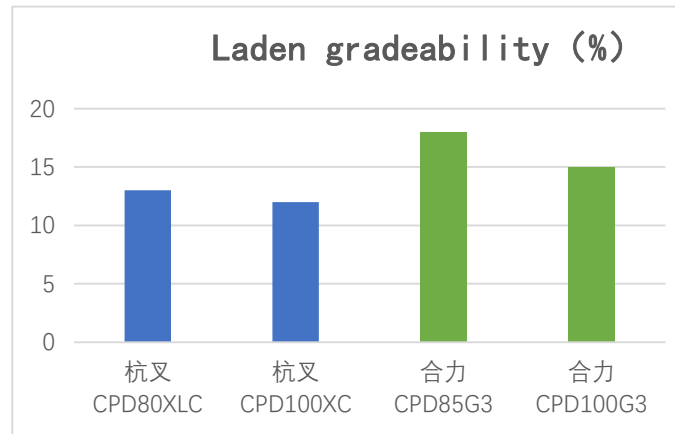
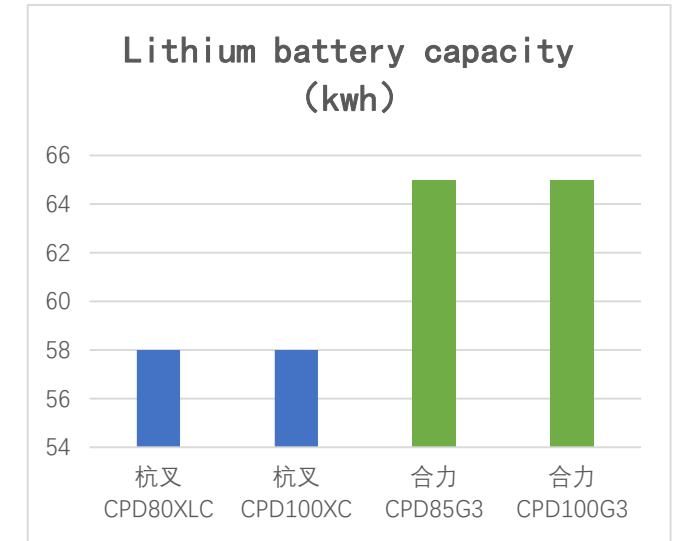
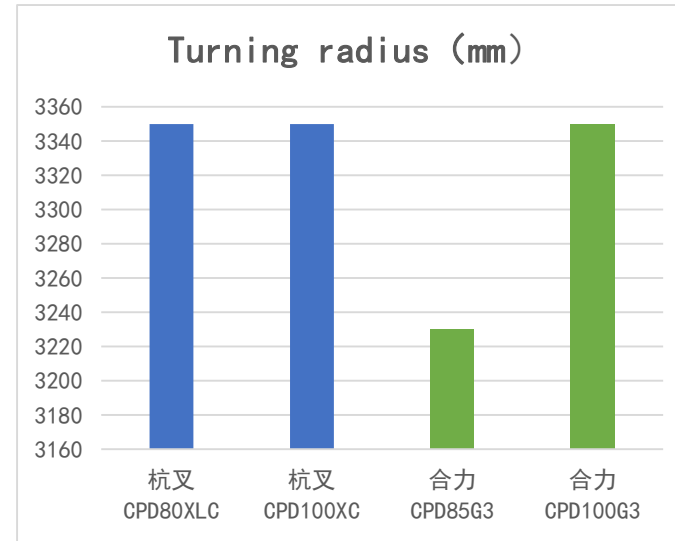
G3 8.5 t **turning radius** has an **advantage** over Hangcha XC series 8 t,

G3 10 t **turning radius** is consistent with Hangcha XC series 10 t



G3 8.5t **wheelbase** has **advantages** over Hangchai XC series 8t,

G3 8.5t **longitudinal stability** is **better** than G series 8.5t

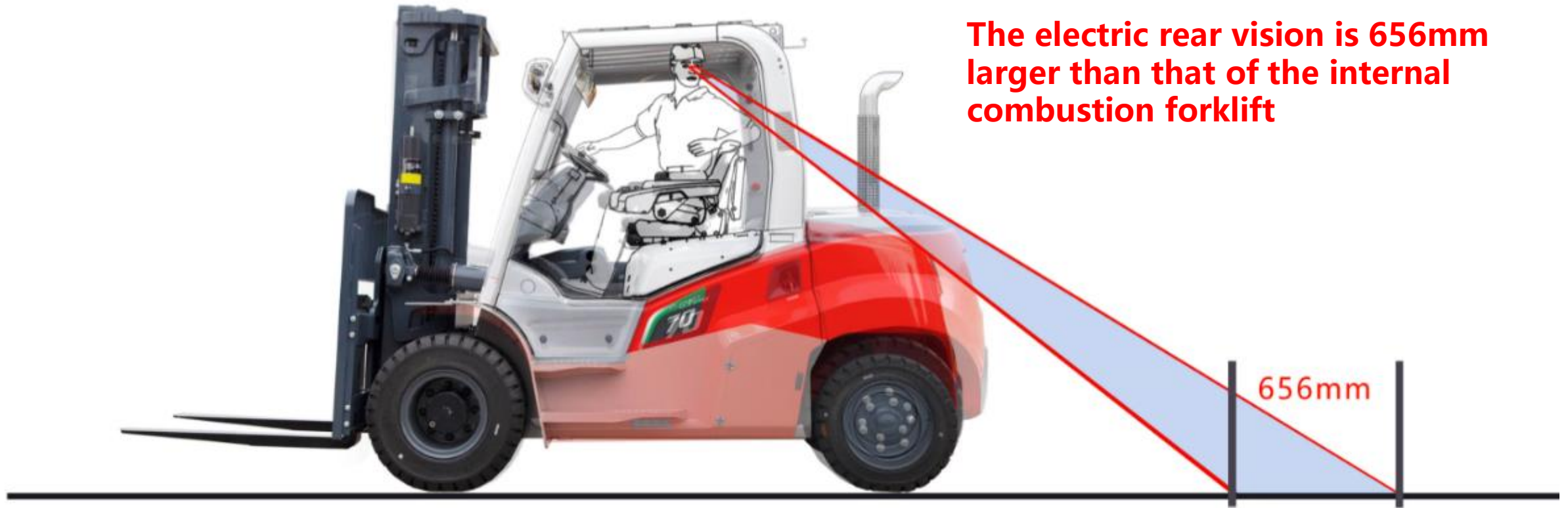


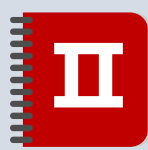


Advantages - Comfortable

HELI合力

➤ With the frame structure of the same tonnage internal combustion forklift as the reference platform, **it integrates the dual advantages of internal combustion and electric forklift**, with a more compact design, better bearing capacity, better rear vision. The comprehensive performance is better than that of the same level of competitive electric forklifts.

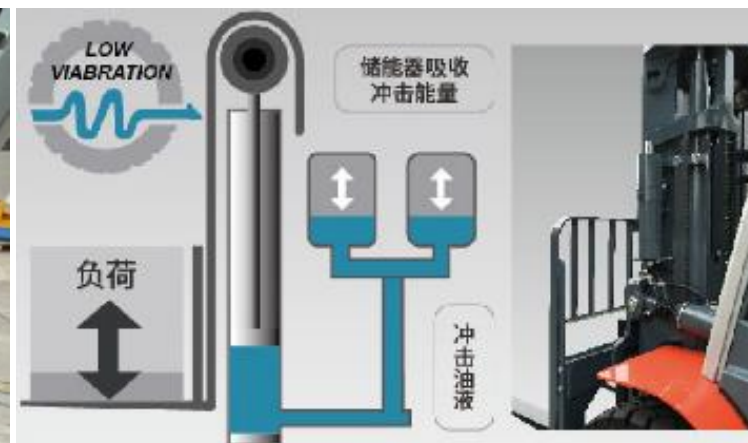
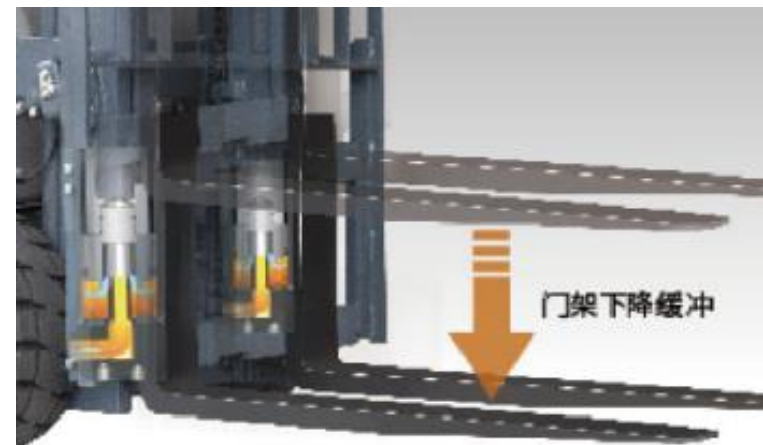




Advantages - Comfortable

HELI合力

- » The pipeline route has been optimized, the standard reserved attachment pipe installation interface, so the vision is good;
- » Standard cylinder upper and lower cushioning, increases operational safety;
- » Optional gantry accumulator reduces the impact on the vehicle during cargo bumps. Cargo is better protected and driving comfort is increased.





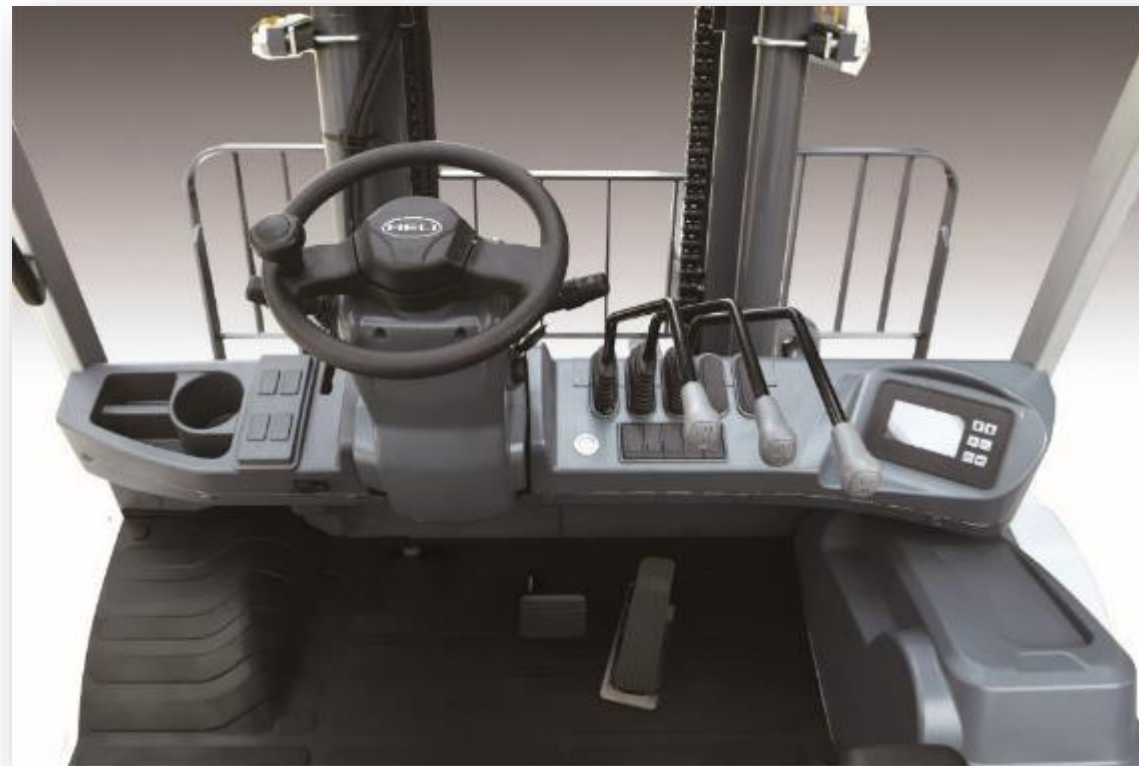
Advantages - Comfortable

HELI合力

» The use of ergonomic analysis software to optimize the design of the vehicle ergonomics, so that the comfort of the product has been greatly improved.



Large driving legroom, high comfort, human-machine interface, valve stem layout, more user-friendly operation



Two-color backlit photoelectric brake button, parking brake is more convenient.



Advantages - Comfortable

HELI合力

- Standard integrated IoV function;
- Support the adjustment of the main performance parameters of the whole vehicle ;
- Color screen display: Chinese and English switching, can display vehicle speed, working time, battery level, fault code and other information.



- The vehicle is low in noise (with the latest SETTIMA silent pumps).





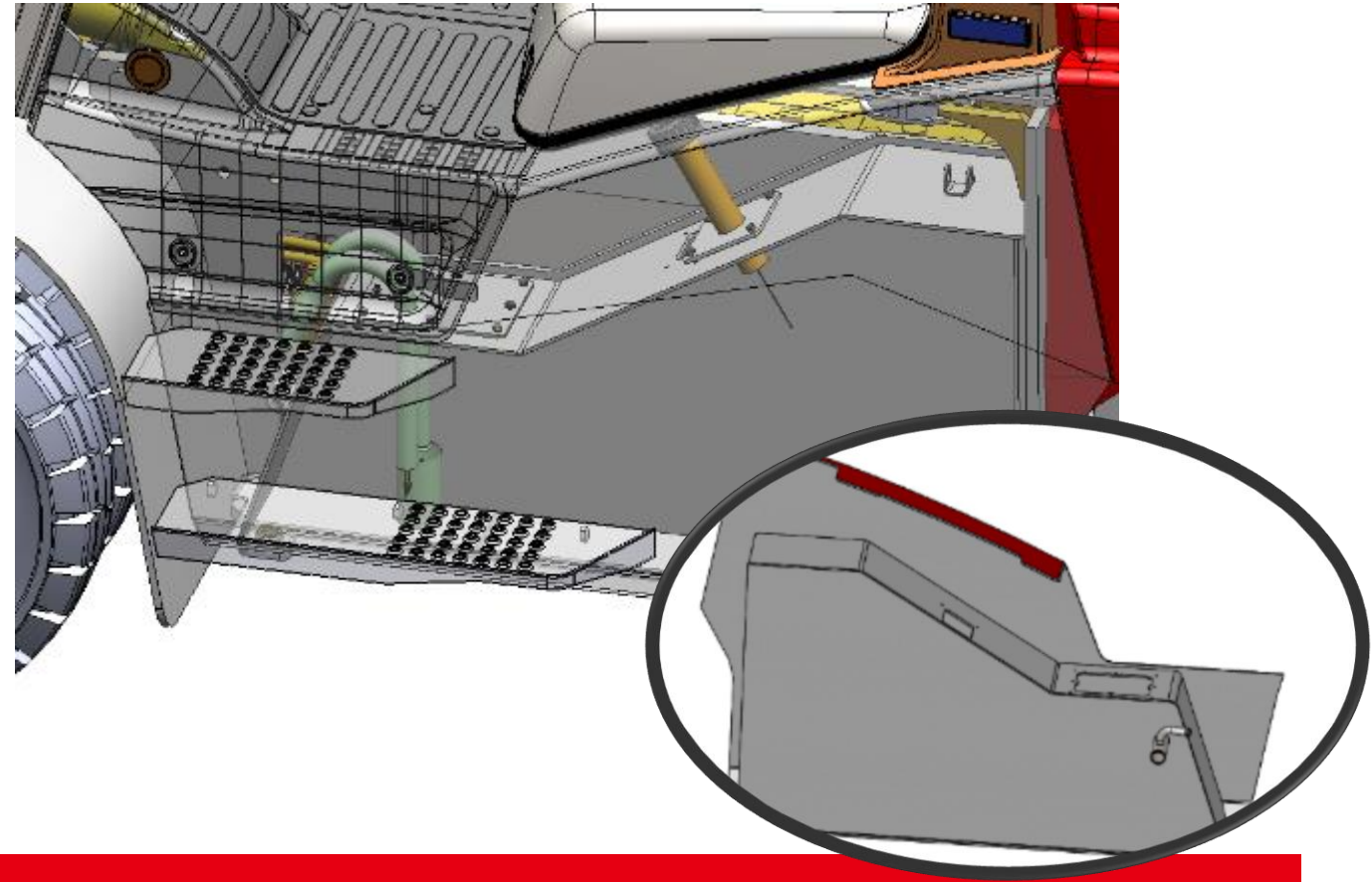
Advantages - Comfortable

- » Big handle;
- » Integrated reversing handle with horn switch ;
- » Standard USB interface.





» Welded large fuel tank structure design, hydraulic oil heat dissipation is good.

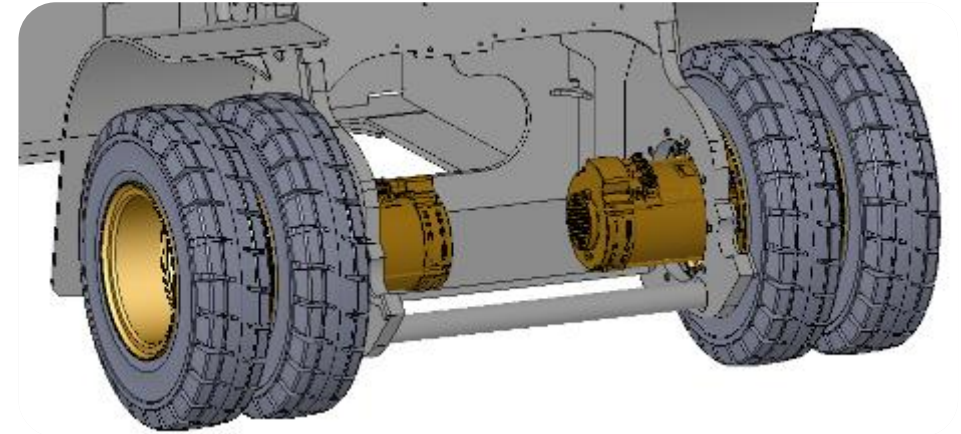
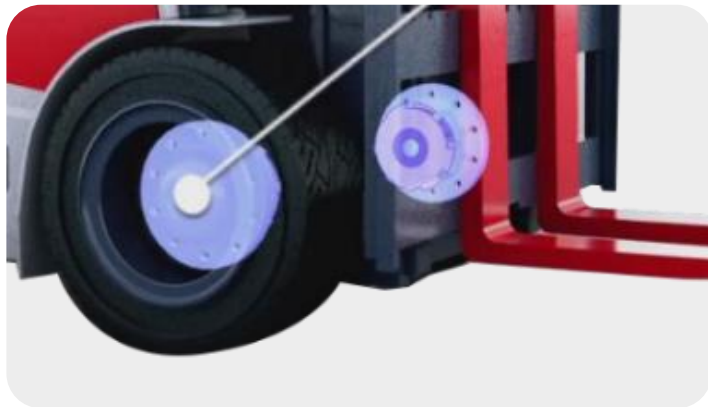
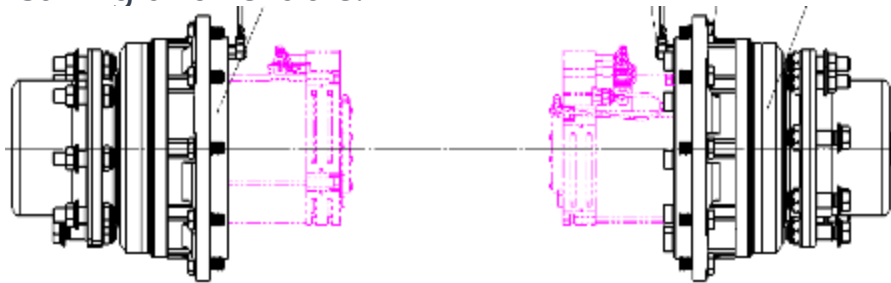




Advantages - Reliable

HELI合力

- » The drive axle uses imported Kessler drive axle, which has reliable quality;
 - » Wet negative brake, safe and reliable;
 - » Standard configuration is imported IP20 Chambre-Müller AC drive motor (Chinese-made IP54 motor under development)
- The whole vehicle is equipped with LED headlights as standard, which is energy-saving and reliable.





Advantages - Reliable

HELI合力

- » Overhead guard impact drop test
1360kg, 3m high load impact test



- » Overhead guard dynamic load test
Stamped overhead guard frame,
high safety protection





- Frame fatigue strength test
1,000,000 1.25Q and 500,000 1.5Q vertical bending fatigue tests



6-7t frame test



8.5-10t frame test



» Quick charge

Equipped with two 80V/200A fast charging cradles, 2 hours full charge, can be used for 6-8 hours in full power; Automatic control of charging process, safe and reliable; The modular design of the charger makes maintenance and troubleshooting simple and convenient.



1 hour of charging, can extend the work for 3-4 hours

Charging is connected to the electromagnetic lock locking function to avoid damage by artificially live plugging gun holder.

During charging: the gun holder is connected and automatically locked;

After charging: the gun seat connection is automatically unlocked;

During charging: press the pause button, the gun seat connection is automatically unlocked;

In fault state: Can be manually unlocked



Advantages - Convenient

HELI合力

➤ Lead-acid and lithium models are on the same platform, **and the common rate of parts is as high as 99%. Maintenance costs are low.**

Side shovel batteries, more conducive to the replacement of lead-acid batteries and lithium batteries. Meet the needs of different customers and occasions.

Open the right door, remove the battery from the side, replace the battery is more convenient



G3 series 10t lithium, lead-acid standard color matching appearance



G3 series 10t lithium, lead-acid optional color matching appearance



Advantages - Convenient

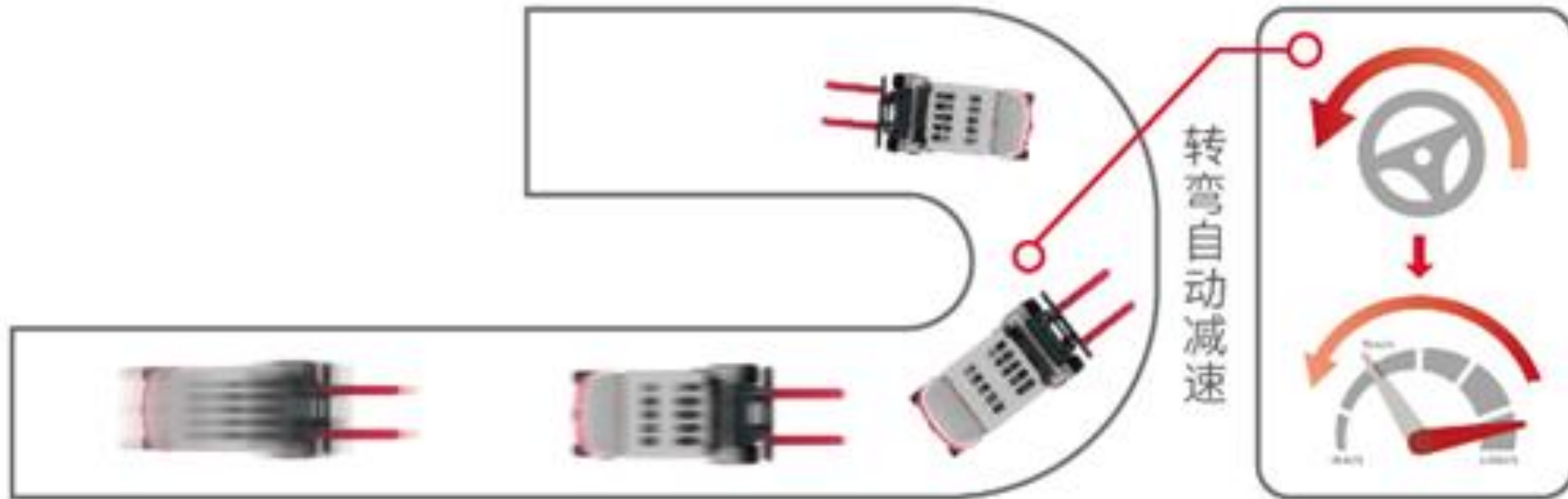
HELI合力

- » Optimize the layout of the cabin, the battery is located directly below the cabin, and the hood opening angle is large, which is convenient for daily inspection and maintenance;
- » The electronic control is located on the counterweight, in addition to good heat dissipation, it is more convenient for electronic control detection and maintenance.





- Intelligent steering speed limit. Operation is more comfortable and driving is more secure.
- The steering wheel starts the steering and provide the required amount of oil according to the steering wheel speed, which is light and energy-saving.





Configuration Options-G3 Series 6-7t AC Trucks **HELI**合力

Standard

- Normal mast
- **Standard forks**
- IV fork carrier
- 2 control valve
- Acid battery
- **The battery automatically replenishes the water**
- Lithium battery (lithium model)
- **Grammer fully suspended seats**
- Overhead guard
- **Color screen (Zapi)**
- Ultra-elastic solid tire
- Towing pins
- **LED beacon, flashing warning light**
- **USB interface**
- **Intelligent steering speed limit**
- Vehicle-mounted tools

Optional

- Other masts height
- ZM&ZSM
- Side shifter (integrated)
- Positioning fork (integrated)
- Other attachments
- Other forks length
- No-marking solid tires
- Solid tires
- Cabin
- Left and right rear mirrors
- Rear working lights
- fire extinguisher
- Revolving beacon, Voice buzzing
- Blue light

G3 series 6-7t



H series 6-7t





Configuration Options-G3 Series 8.5-10t AC Trucks

HELI合力

Standard

- Normal mast
- **Integrated Positioning fork**
- Hose Pulley Set
- 4 control valve
- Acid battery
- **The battery automatically replenishes the water**
- Lithium battery (lithium model)
- **Grammer fully suspended seats**
- Overhead guard
- **Color screen (Zapi)**
- Ultra-elastic solid tire
- Towing pins
- **LED beacon, flashing warning light**
- **USB interface**
- **Intelligent steering speed limit**
- Vehicle-mounted tools

Optional

- Other masts height
- ZM&ZSM
- Side shifter (integrated)
- Other attachments
- Other forks length
- No-marking solid tires
- Solid tires
- Cabin
- Left and right rear mirrors
- Rear working lights
- fire extinguisher
- Revolving beacon, Voice buzzing
- Blue light

G3 series 8.5-10t



G series 8.5-10t





Configuration Options - lithium battery

HELI合力

G3 series 6-10t lithium battery and charger										
model	Standard battery	Option battery								Charger
	HEDING	HEDING				CATL				
CPD60-GB2DLI	80V 606Ah	80V 808Ah	80V 1120Ah	80V 1212Ah	80V 606Ah	80V 684Ah	80V 813Ah	80V 906Ah	80V 1084Ah	D80V200A- LI
CPD70-GB2DLI					-	-				
CPD85-GB2DLI	80V 808Ah	-	-	-	-	-	-	-	-	
CPD100-GB2DLI										



x2



Configuration Options - lead-acid battery



Lead-acid battery with charger model



G3 series 6-10t lead-acid battery and charger

model	Standard battery	Option battery							
	Domestic	Domestic		Imported FAAM		Imported good brand		Charger	
CPD60-GB2D	80V 840Ah	80V 960Ah	80V 1000Ah	80V 840Ah	80V 1000Ah	80V 840Ah	80V 960Ah	80V 1000Ah	D80V150A-L
CPD70-GB2D	80V 960Ah	-		-		-			
CPD85-GB2D				-		-			
CPD100-GB2D				-		-			

HELI合力

Thanks!



A/中国合肥市经开区方兴大道668号
T/4001-600761/ 0551 - 63689000
P/230000
F/0551 - 63689666
E/@helichina.com
www.helichina.com