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CPD 20/25/30/35

GB2LI-H / GB2LI-M / GB3LI-S / GB3LI-M



ION **2-3.5 t**
G2 Series Lithium-ion Battery
Forklift Truck



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* Our products are subject to improvements and changes without notice.

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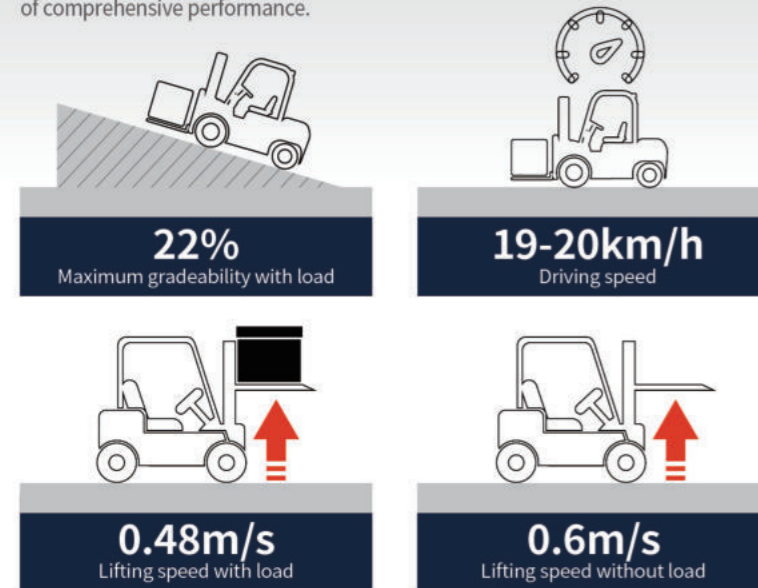
HELI

Fearless of Any Rough Application,
HELI New Series Lithium Forklift,
Your Best Choice



Powerful Performance, High Efficiency

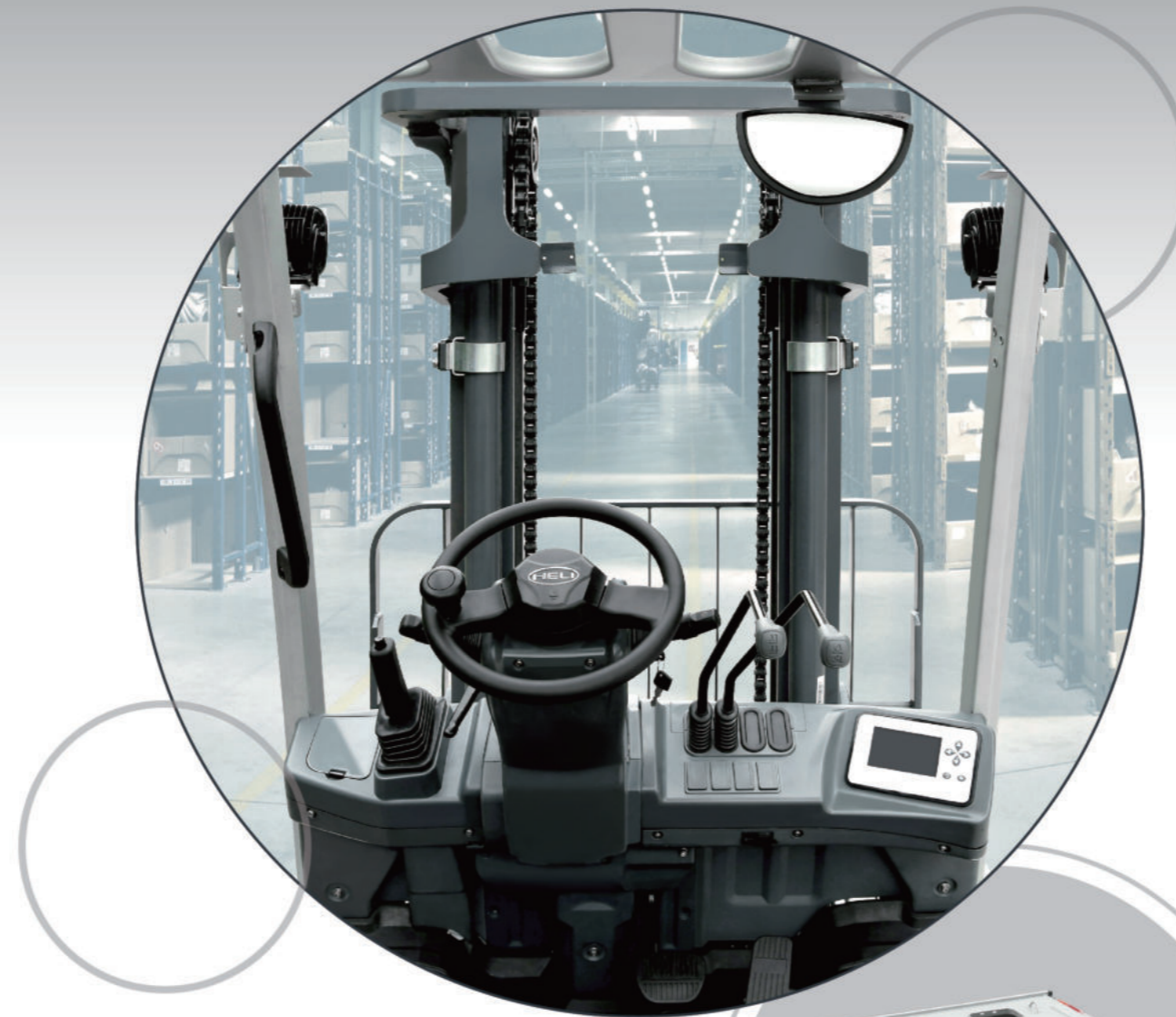
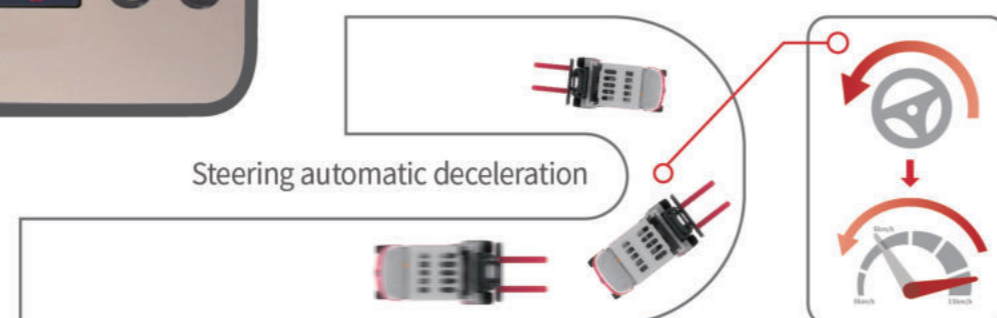
Customers can freely choose from the 3 different configurations: S, M, H. Especially M and H configurations are comparable with internal combustion trucks in terms of comprehensive performance.



Note: the data displayed are all based on the model CPD30-GB2LI-H, and data for other trucks are shown in the table of technical parameters.

Smart and Safe, Ease In All Aspects

- Steering deceleration: Auto steering deceleration reduces the risk of turning over;
- Steering started by steering wheel: the steering wheel can directly start the steering function and provides the required oil quantity according to the steering wheel speed;
- Color screen instrument: Bilingual (CN/EN) options, full vehicle information at a glance;
- PES Three-speed mode: Choose multiple speed modes according to working conditions, guarantee work efficiency;
- Rear handle with horn switch for safer reversing;
- Lithium battery is automatically heated at low temperature, with excellent low temperature adaptability.



Optimized Ergonomic Design, Better Driving Comfort



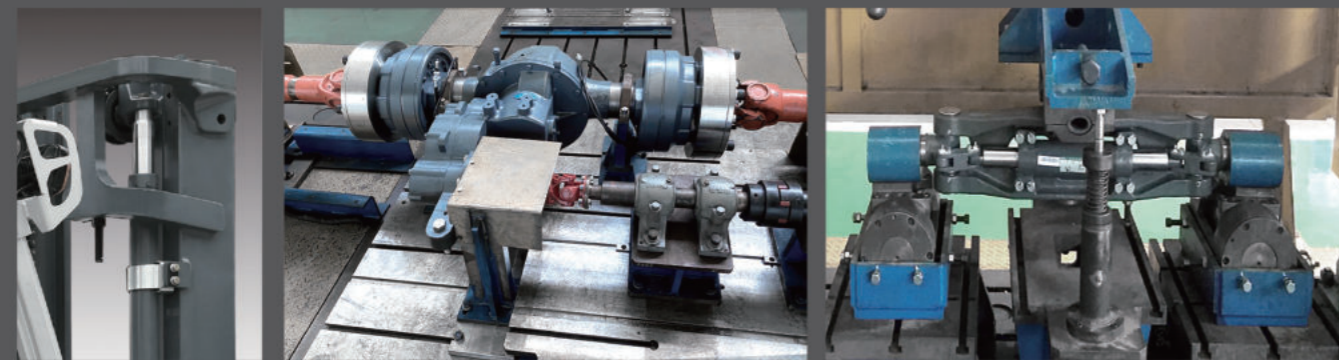
- Optimized mast and pressed overhead guard for improved visibility and safety.
- Ultra-low torque steering gear and lighter steering operation reduces driving fatigue.





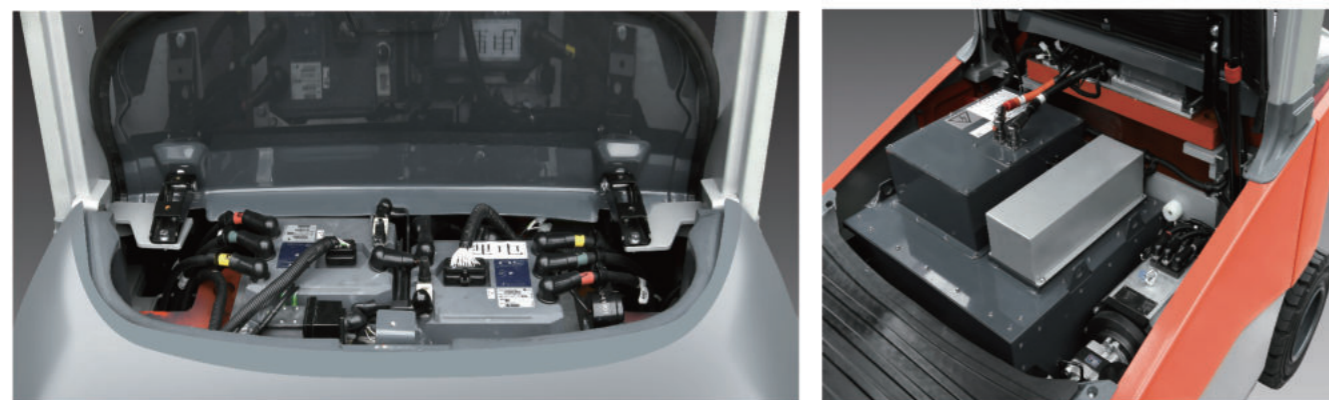
High Quality & High Reliability

The integrated cast drive axle and reinforced cast steering axle have been proven in the market and are mature and reliable. The mast force optimization design improves the overall performance and effectively ensures the operation safety.



Centralized Checkpoints, Easy Maintenance

The electrical design is concentrated on the top of lithium battery, and the maintenance points are centralized, which is convenient for inspection and maintenance.



Tested in Rough Operating Environment



IPX4 waterproof: the vehicle is powered on to simulate a 15min short-time 5000L rainstorm test, and the vehicle can continue to run without failures.



After 10mins wading test, the vehicle has no failure. (Water depth 200mm)

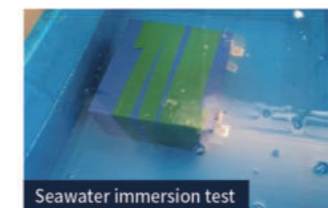


The whole vehicle can be operated alternately in -20°C cold storage for 6 hours and parked in the cold storage for 12 hours without any failure and can continue to work.



The truck passed simulation experiment of bumpy road.

Lithium Battery Advantages



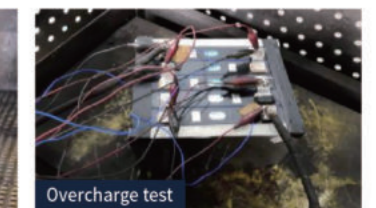
Seawater immersion test



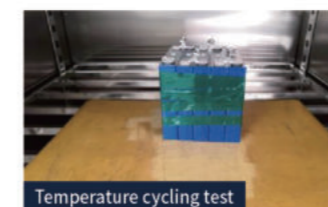
Extrusion test



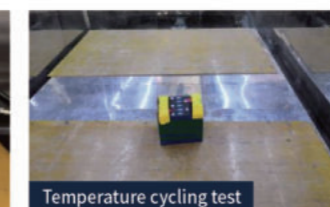
Heating test



Overcharge test



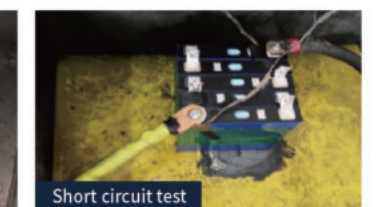
Temperature cycling test



Temperature cycling test



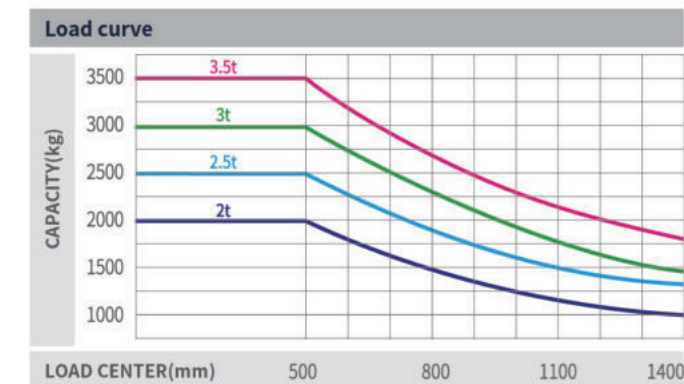
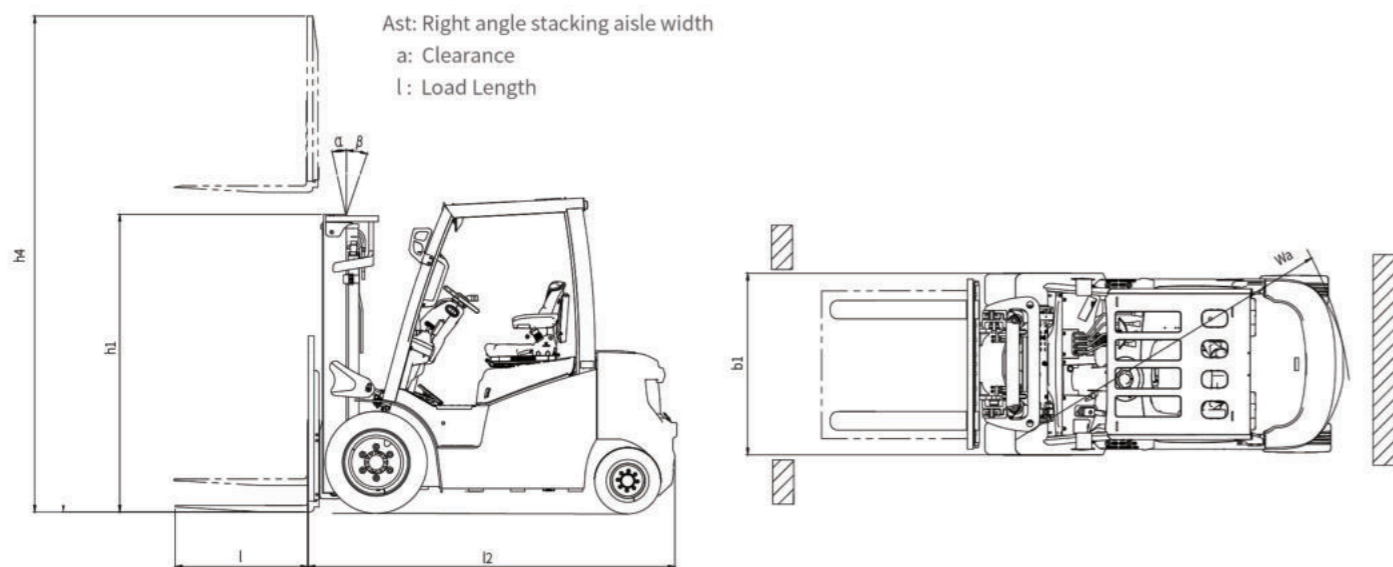
Drop test



Short circuit test

- The truck selects mature and economical square iron phosphate lithium battery core and module used by large numbers of commercial vehicles;
- The module adopts aluminum alloy plate frame, which is firm, light in weight and has good heat dissipation effect;
- Fast charging: fast charging makes truck gapless operation possible, and it can be filled in 2 hours;
- High efficiency and safety: The charging and discharging efficiency is up to 98%, and temperature of thermal runaway is over 600 °C;
- Low temperature adaptability: Standard configuration of heating function ensures normal operation of low temperature environment;
- Long service life: The normal charging and discharging cycles reaches to 4000, and capacity retention rate is more than 78%;
- Maintenance free: the battery does not need manual maintenance and does not need to add distilled water electrolyte;
- Green and clean: no pollution and zero emission.

Manufacturer and Technical Data																
Characteristics																
1.01	Manufacturer								HELI							
1.02	Model		CPD20	CPD25	CPD20	CPD25	CPD20	CPD25	CPD30	CPD35	CPD30	CPD35	CPD30	CPD35		
1.03	Configuration number		GB2LI-H	GB2LI-H	GB2LI-M/GB3LI-M	GB2LI-M/GB3LI-M	GB3LI-S	GB3LI-S	GB2LI-H	GB2LI-H	GB2LI-M/GB3LI-M	GB2LI-M/GB3LI-M	GB3LI-S	GB3LI-S		
1.04	Rated capacity	Q	kg	2000	2500	2000	2500	2000	2500	3000	3500	3000	3500	3000	3500	
1.05	Load center distance	c	mm	500					500							
Weight																
2.01	Total weight (with/without battery)		kg	3510/3290	3890/3670	3510/3290	3890/3670	3510/3290	3890/3670	4580/4230	5000/4650	4580/4230	5000/4650	4580/4230	5000/4650	
Tyres																
3.01	Tyre type			pneumatic tyre	pneumatic tyre	pneumatic tyre	pneumatic tyre	pneumatic tyre	pneumatic tyre	pneumatic tyre/solid	solid tyre	pneumatic tyre/solid	solid tyre	pneumatic tyre/solid	solid tyre	
3.02	Tyre size, front			7.00-12-14PR					28×9-15-14PR		28×9-15		28×9-15-14PR		28×9-15	
3.03	Tyre size, rear			18×7-8-14PR					200/50-10							
Dimensions																
4.01	Height (mast lowered)	h1	mm	2000	2000	2000	2000	2000	2000	2070	2120	2070	2120	2070	2120	
4.02	Max. height, extended (with backrest)	h4	mm	4030					4217							
4.03	Overall length (with fork)	l1	mm	3352	3502	3352	3502	3352	3502	3639	3644	3639	3644	3639	3644	
4.04	Overall length (without fork)	l2	mm	2432	2432	2432	2432	2432	2432	2569	2574	2569	2574	2569	2574	
4.05	Overall width	b1	mm	1160					1225							
4.06	Min. outside turning radius	Wa	mm	2050					2215							
Performance Data																
5.01	Travel speed (laden/unladen)		km/h	19/20		18/19		14/15		19/20		18/19		14/15		
5.02	Lift speed (laden/unladen)		m/s	0.49/0.6	0.47/0.6	0.46/0.56	0.44/0.56	0.38/0.49	0.35/0.49	0.48/0.6	0.44/0.54	0.41/0.54	0.39/0.54	0.37/0.49	0.34/0.45	
Battery																
6.01	Battery voltage/Capacity		V/Ah	80/271	80/271	80/271	80/271	80/202	80/202	80/404	80/404	80/404	80/404	80/272	80/272	
6.02	Battery weight		kg	220	220	220	220	220	220	350	350	350	350	350	350	



Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

Lithium battery								
Lithium battery brand	Pengcheng (CATL module/Core)				Heli(LISHEN module/Core)			
Voltage/Capacity	80V/202Ah	80V/271Ah	80V/404Ah	80V/542Ah	80V/202Ah	80V/272Ah	80V/404Ah	80V/544Ah
2-2.5t S model	—	—	—	—	●	○	○	—
2-2.5t M model	—	●	○	—	—	○	○	—
2-2.5t H model	—	●	○	—	—	○	○	—
3-3.5t S model	—	—	—	—	—	●	○	—
3-3.5t M model	—	—	●	○	—	—	○	○
3-3.5t H model	—	—	●	○	—	—	○	○
Lithium battery heating in low temperature					●			

NOTE: "●" standard ; "○" optional ; "—" not applicable

Color Options (the color of truck body can be customized)			
Model	H	M	S
Standard Configuration			

