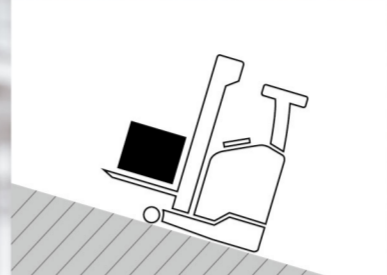
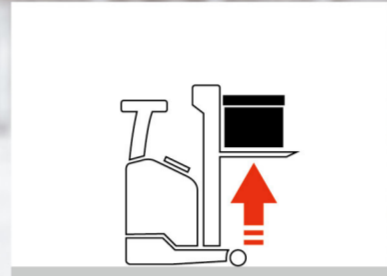




Driving speed **12km/h**



Maximum gradeability with load **10%**



Maximum lifting speed with load **0.35m/s**



Maximum lifting speed without load **0.55m/s**

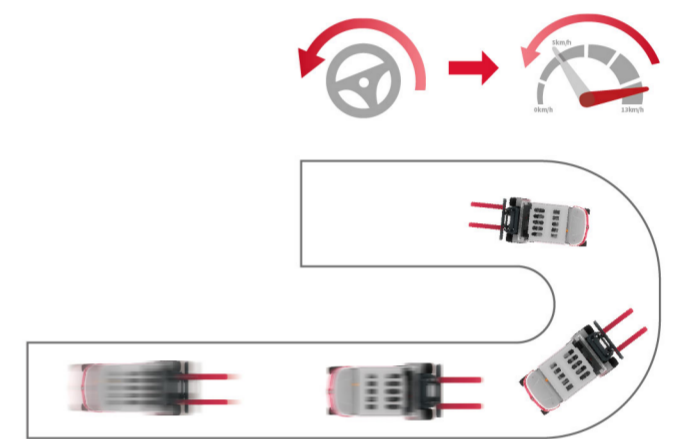
Full vehicle advantage

High performance guarantee high efficiency

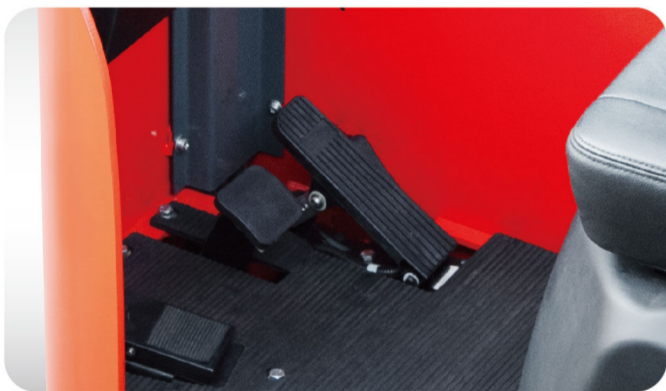
- Lifting speed is increased by 10% and thus more goods can be lifted under the same conditions;
- The truck has fast driving and lifting speed, higher working efficiency;
- Dual CPU controller conforming to the latest EU standard is equipped;
- Newly designed high-performance 80V voltage level motor with strong power.

Intelligent security protection

- **Intelligent speed limit in different application** : multi-scenario identification and intelligent speed limit balance efficiency and safety ;
- **Intelligent limit buffering** : intelligent induction of mast lifting and lowering avoids extreme impact and is safe and comfortable ;
- **Intelligent operation protection** : a full set of OPS system can avoid misoperation and ensure safety ;
- **Intelligent control strategy** : dual core controller is in line with the latest EU safety requirements ;
- **Intelligent steering deceleration** : the automatic deceleration function of the turning can reduce the risk of turning over ;



Cornering brake reduction



Advanced EPS electric powered steering

- EPS electric powered steering offering easy, flexible, high efficient and mute operation.
- Steering motor controller.
- Automatic centering function.
- Real-time shifting between 180°steering mode and 360° steering mode.
- Automatic limit on speed and accelerated speed when steering.

Newly designed hydraulic system

- Newly designed hydraulic system with high working efficiency
- High power lifting motor
- MOSFET lifting speed governing electric controller
- New type low noisy gear pump
- Max. lifting speed without load 15% increased
- Max. lifting speed with load 25% increased

Ergonomic optimization

- The new design of overhead guard provides a better view.
- Standard handrails make ingress and egress more convenient.
- Larger space for getting on and legs.



Environment Friendly

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

Maintenance Free

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

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.

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.

Long Service Life

- 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.

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.

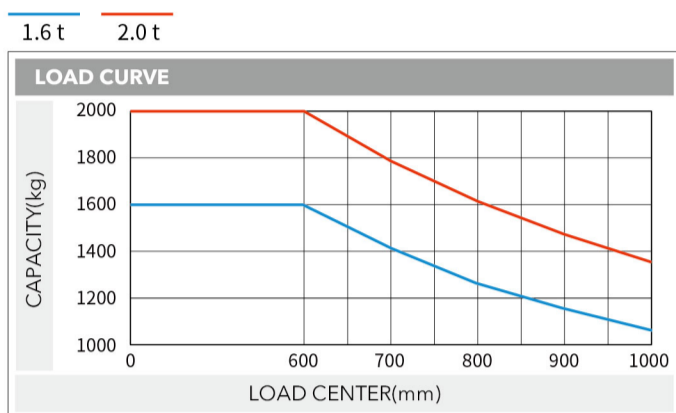
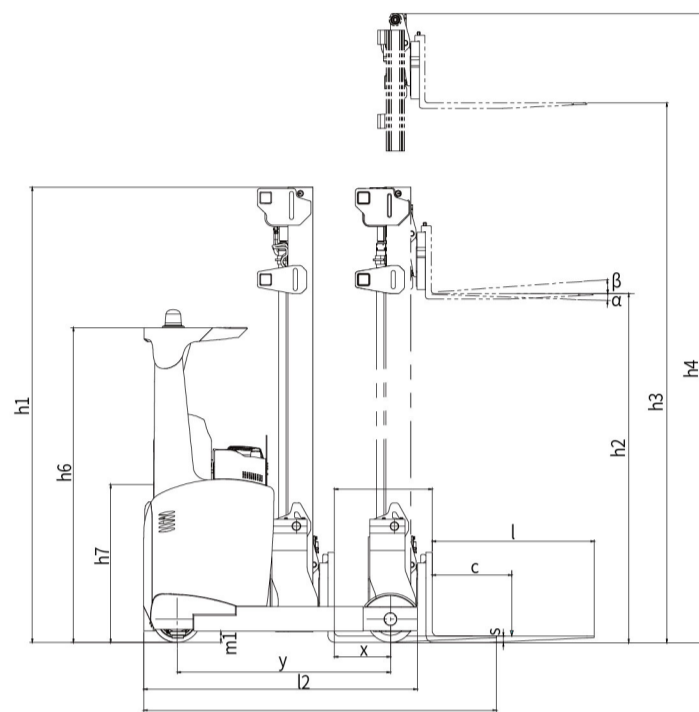
Operating Cost Comparison:

Lithium battery forklift
vs.
Lead-acid battery forklift

Lithium battery forklift vs. Lead-acid battery forklift
The advantages of HELI lithium battery forklift trucks are more prominent in the cycle cost.
Lithium battery forklift truck has the advantages of no noise, no pollution, small vibration and simple operation
Compared with the lead-acid battery forklift truck, lithium battery forklift has the characteristics of fast charging and charging at any time, which is more suitable for multi shift operation.
Besides, HELI lithium battery forklift is maintenance free, high power conversion efficiency, and economical overall operation cost

Mast model	Max. lifting height (mm)	Load capacity (lode center 600mm)(kg)		Height (mast lowered)h1(mm)	Service weight (kg)		Fork tilt angle (f/r) (°)
		CQD16-GC2SLi	CQD20-GC2SLi		CQD16-GC2SLi	CQD20-GC2SLi	
M290	2900	1600	2000	2200	3043	3261	2°/4°
M320	3200	1600	2000	2350	3065	3280	2°/4°
M360	3600	1600	2000	2550	3095	3309	2°/4°
M380	3800	1600	2000	2650	3109	3323	2°/4°
M400	4000	1600	2000	2750	3124	3338	2°/4°
M420	4200	1600	2000	2850	3139	3351	2°/4°
M440	4400	1600	2000	2950	3194	3364	2°/4°
M460	4600	1600	2000	3050	3209	3420	2°/4°
M500	5000	1500	1900	3250	3240	3448	2°/4°

Mast model	Max. lifting height (mm)	Load capacity (lode center 600mm)(kg)		Height (mast lowered)h1(mm)	Free lift height h2(mm)	Service weight (kg)		Fork tilt angle (f/r) (°)
		CQD16-GC2SLi	CQD20-GC2SLi			1.6-2t	CQD20-GC2SLi	
ZSM460	4600	1600	2000	2314	1280	3650	2°/4°	
ZSM480	4800	1600	2000	2381	1340	3670	2°/4°	
ZSM540	5400	1600	2000	2581	1540	3730	2°/4°	
ZSM570	5700	1550	1900	2681	1640	3755	2°/4°	
ZSM630	6300	1500	1900	2881	1840	3815	2°/4°	
ZSM675	6750	1450	1800	2982	1940	3850	2°/4°	
ZSM700	7000	1400	1700	3065	2030	3870	2°/4°	
ZSM715	7150	1400	1700	3115	2080	3885	2°/4°	
ZSM750	7500	1300	1700	3232	2190	3920	2°/4°	
ZSM800	8000	1200	1500	3398	2360	3970	2°/4°	



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.

RENEWABLE ENERGY TECHNOLOGIES

With the use of the excellent load-sensing steering system and AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

15%

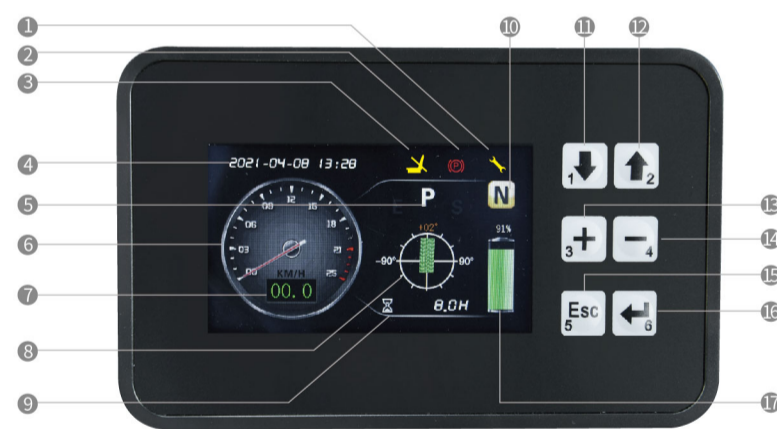
Manufacturer's Data and Design Characteristics

Characteristics				HELI	
1.01	Manufacturer			HELI	
1.02	Model			CQD16	CQD20
1.03	Configuration number			GC2SLi	GC2SLi
1.04	Rated capacity	Q	kg	1600	2000
1.05	Load center distance	C	mm	600	
1.06	Power mode			Lithium	
1.07	Driving mode			Sit-down	
1.08	Wheelbase	Y	mm	1450	1515
Tyres					
2.01	Tyre type			PU	
2.02	Wheels, number, driven wheel/bearing wheel(x=driven wheels)			1x/2	
2.03	Tread, rear	b3	mm	1157	1143
2.04	Tyre size, bearing wheel			φ330x100	φ330x100
2.05	Tyre size, driven wheel			φ343x114	φ343x114
Dimensions					
3.01	Lifting height (standard)	h3	mm	4600	4600
3.02	Free lifting height	h2	mm	1280	1280
3.03	Height (mast lowered)	h1	mm	2314	2314
3.04	Fork size: thickness /width /length	s/e/l	mm	40x122x1150	40x122x1150
3.05	Distance between fork-arms, Max./Min.			244-724	244-724
3.06	Fork tilt angle (forward/backward)			2°/4°	2°/4°
3.07	Fork sideshifting			±75	±75
3.08	Overall length (without fork)	L	mm	1870	1942
3.09	Overall width	b1	mm	1270	1270
3.10	Distance between support arms	b2	mm	900	900
3.11	Reach distance	l4	mm	595	620
3.12	Height of overhead guard	h4	mm	2215	2215
3.13	Ground clearance (between mast)	m2	mm	75	75
3.14	Min. Turning radius	Wa	mm	1689	1751
3.15	Load distance, centre of support arm wheel to face of forks	x	mm	356	383
3.16	Right angle stacking aisle width for pallet 1000L x1200W ,clearance 200	Ast	mm	2922	2965
3.17	Right angle stacking aisle width for pallet 1000L x1200W crossways	Ast	mm	2767	2810
Performance Data					
4.01	Travelling speed (laden/unladen)	km/h	12/12	12/12	
4.02	Lifting speed (laden/unladen)	m/s	0.35/0.55	0.35/0.55	
4.03	Lowering speed (laden/unladen)	m/s	0.5/0.5	0.5/0.5	
4.04	Reach speed (laden/unladen)	m/s	0.18/0.18	0.18/0.18	
4.05	Max. gradeability (laden/unladen)	%	10/15	10/15	
Weight					
5.01	Total weight (with battery)	kg	3460	3650	
5.02	Axle load ,unladen,driven wheel/bearing wheel (fork advanced)	kg	1570/1880	1690/1950	
5.03	Axle load ,unladen,driven wheel/bearing wheel (fork retracted)	kg	2165/1270	2285/1360	
5.04	Axle load ,laden,driven wheel/bearing wheel (fork advanced)	kg	610/4445	580/5065	
5.05	Axle load ,laden,driven wheel/bearing wheel (fork retracted)	kg	1920/3140	1980/3650	
Battery					
6.01	Battery voltage/Capacity	V/Ah	80/150 (80/202 Optional)	80/202 (80/280 Optional)	
6.02	Battery weight	kg	777	847	
6.03	Battery box dimension	mm	1220x298x764	1220x352x764	
Motor and controller					
7.01	Driving motor powering (S2-60min)	kw		8	
7.02	Lifting motor powering (S3-15%)	kw		15.5	
7.03	Steering motor powering (S3-50%)	kw		0.8	
7.04	Transmission box			HELI special transmission box	
7.05	Service brake			Electromagnetic	
7.06	operating pressure of hydraulic system			20.5	

NOTE: *Detailed information about battery, please contact our salesmen or engineer.

HELI

Reliable special designed instrument



The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.

- ① Fault indicator
- ② Brake indicator
- ③ Seat switch indicator
- ④ Date and time
- ⑤ Working mode
- ⑥ Speed display
- ⑦ Truck speed
- ⑧ Steering angle indicator
- ⑨ Hour meter
- ⑩ Front and rear gears indicator
- ⑪ Performance selecting button (down)
- ⑫ Performance selecting button (up)
- ⑬ Value setting button (increase)
- ⑭ Value setting button (decrease)
- ⑮ Enter
- ⑯ Exit
- ⑰ Battery level

Standard configuration

- AC travelling motor
- AC lifting motor
- AC steering motor
- Travelling motor controller
- Lifting motor controller
- Steering motor controller
- DC/DC converter
- Low noisy gear pump
- Integral sideshifter
- 3200mm two-stage mast
- Standard fork
- Control valve (four throw)
- Standard fork
- Backrest
- Polyurethane tyre
- LED meter
- Front working light
- Rearview mirror with wide view angle
- Safety belt
- Blue warning light
- Mechanical lever operation

Optional

- Three-stage full free lift mast
- Fork with other length
- Fork extension
- Battery charger
- Customer made color
- HELI smart fleet management system

HELI smart fleet management system (optional)

- Vehicle positioning
- Remote diagnosis
- Remote monitoring
- Maintenance reminder
- Battery management
- Statistical form
- Vehicle management
- Identification recognition (optional)
- Weight management (optional)
- Collision management (optional)

Charger technology

- Charging efficiency higher than 95% meeting the requirements of energy saving and emissions reduction.
- 100% charging realized in 2 hours at the soonest.
- 48V/80V compatibility meeting the demand of different voltage levels.
- Built-in mis-connecting protection offering self isolating function under fault: Perfect fault self checking alarm facilitating users maintenance.

www.heliforklift.net

HELI

LITHIUM 1.6-2.0t G2 SERIES LITHIUM BATTERY POWERED REACH TRUCK(SIT-DOWN TYPE) (80V)(ECONOMY TYPE)



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