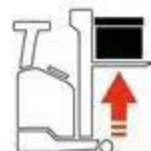




Driving speed **13km/h**



Maximum gradeability
with load **10%**



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



Maximum lifting speed
without load **0.6m/s**

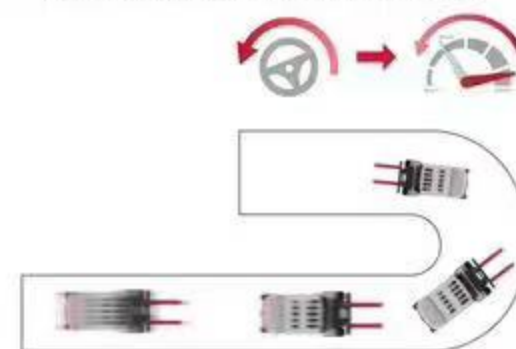
Full vehicle advantage

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;
- ZAPI Dual CPU controller conforming to the latest EU standard is equipped;
- The latest ZAPI instrument can be equipped with height preset function;
- One key to reach the set height improves operation efficiency
- Small turning radius makes steering flexible and easy;

Intelligent security protection

- **Intelligent stabilization system**: it can automatically adjust the mast and the truck speed according to the lifting height and load state. Improve the high bearing capacity and vehicle stacking safety;
- **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

Easy operated thumb switch

- To control hydraulic functions.
- Clear operating units.
- Proportional solenoid offering a stable and comfort lowering action.

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.

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.

Maintenance Free

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

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

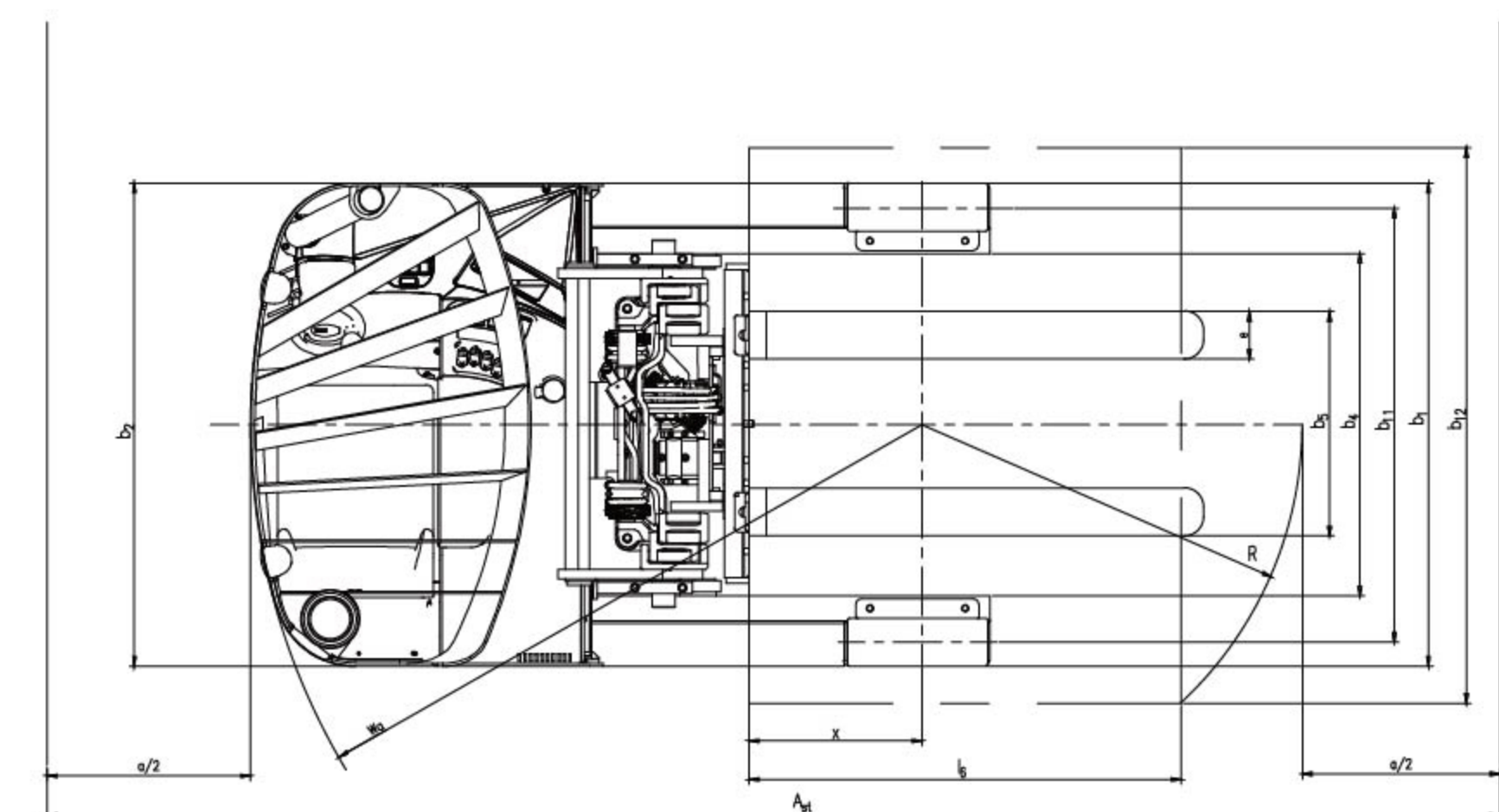
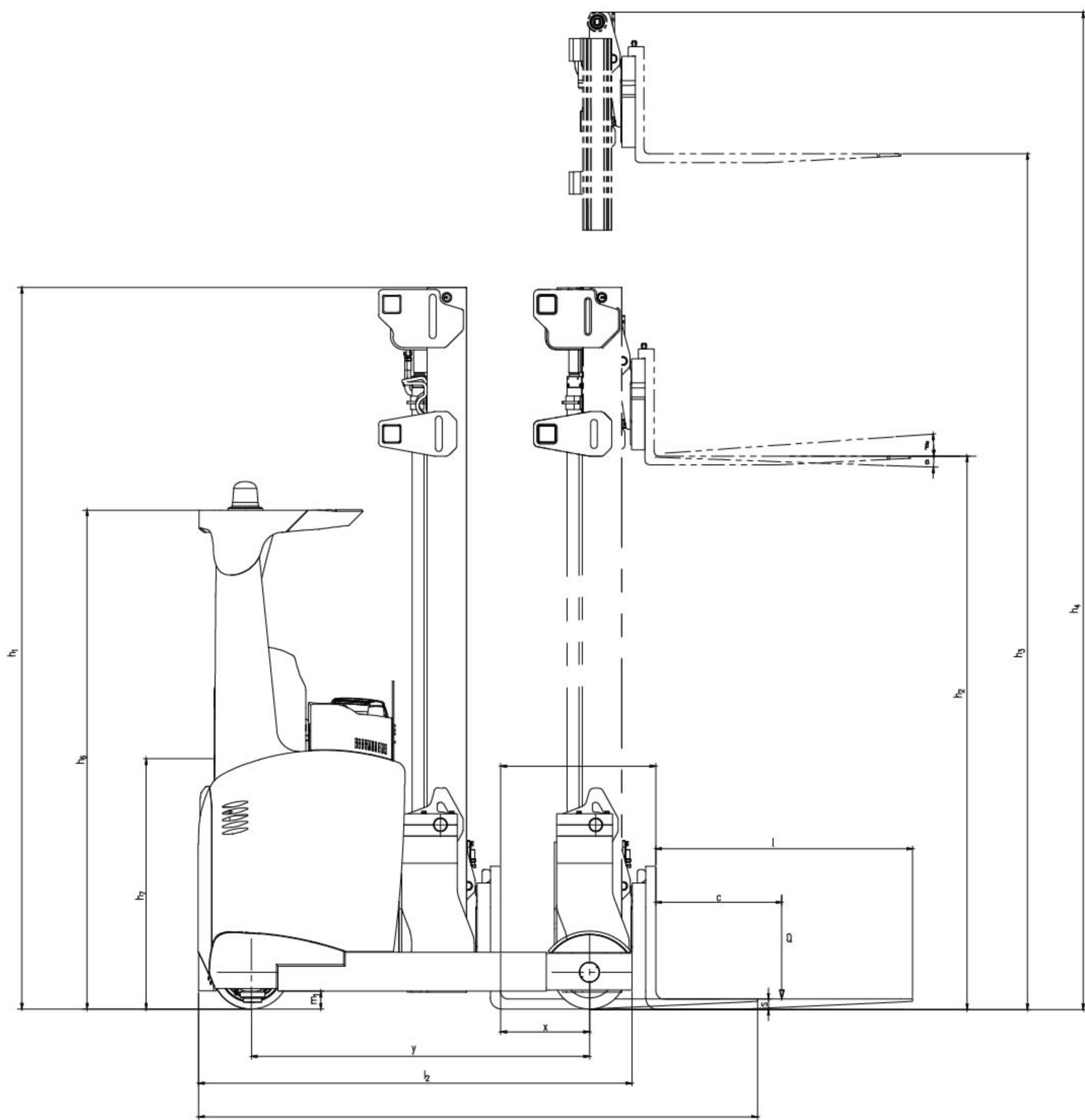
- Lithium battery is better than lead-acid battery when working between -25°C and 55°C.

Operating Cost Comparison:

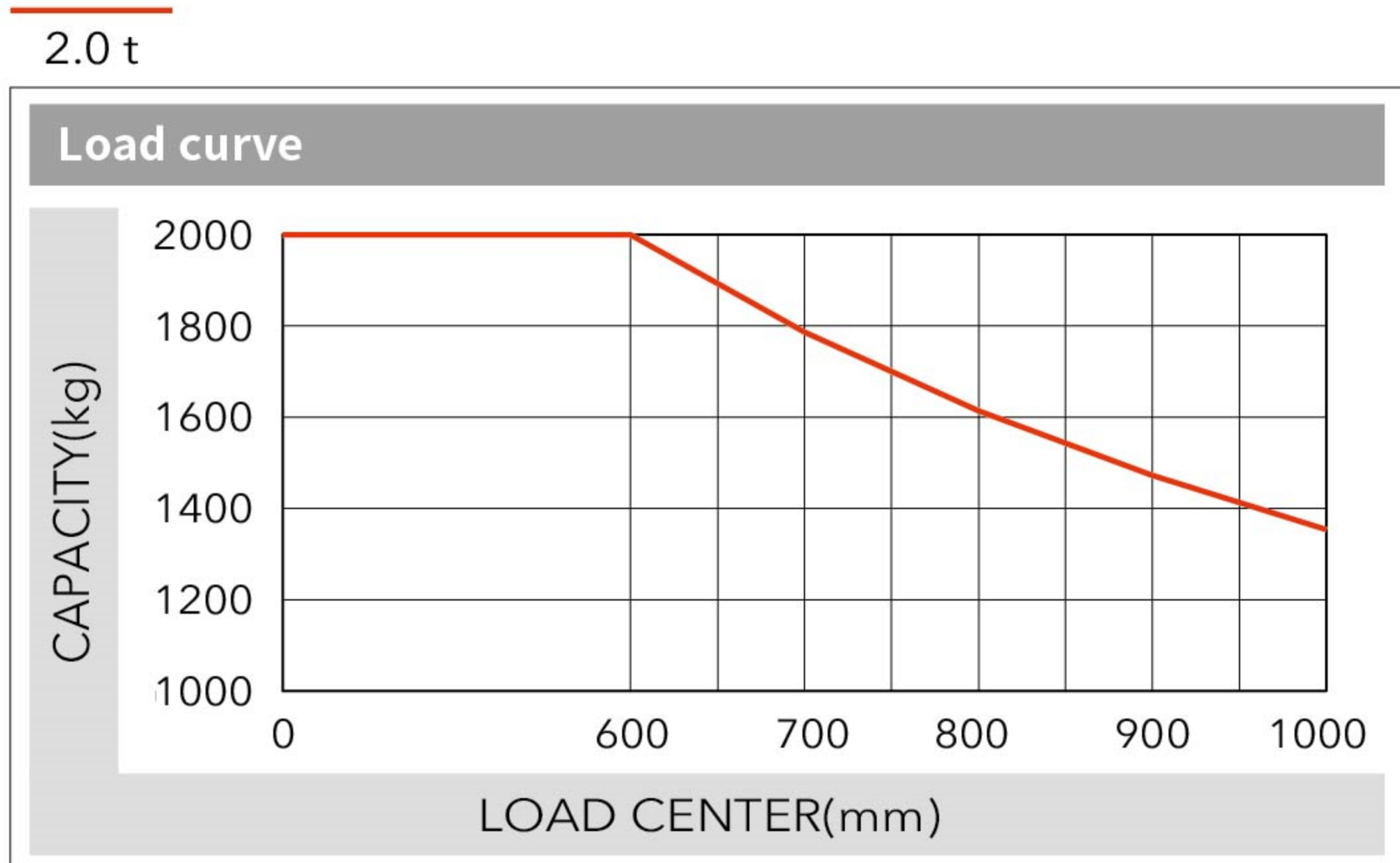
Lithium battery forklift
VS.
Lead-acid battery forklift

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.

WIDE VIEW FULL FREE 3-STAGE MAST						
Mast model	Max.lifting height (mm)	Load capacity (lode center 600mm)(kg)	Height (mast lowered)(mm)	Free lift (with backrest) (mm)	Service weight (kg)	Forktilt angle α/β (°)
		CQD20-GB2SHDLI	CQD20-GB2SHDLI	CQD20-GB2SHDLI	CQD20-GB2SHDLI	
ZSM850	8500	2000	3634	2611	4845	2°/4°
ZSM900	9000	2000	3801	2778	4895	2°/4°
ZSM950	9500	1900	3967	2944	4945	2°/4°
ZSM1000	10000	1800	4134	3111	4995	2°/4°
ZSM1050	10500	1650	4301	3278	5045	2°/4°
ZSM1080	10800	1500	4401	3378	5075	2°/4°
ZSM1100	11000	1400	4467	3444	5100	2°/4°
ZSM1150	11500	1300	4634	3611	5150	2°/4°
ZSM1200	12000	1050	4801	3778	5200	2°/4°
ZSM1250	12500	900	4967	3944	5250	2°/4°



Ast:直角堆垛宽度
Right angle stacking aisle width
a:间隙 Clearance a=200mm



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			
1.01	Manufacturer		HELI
1.02	Model		CQD20
1.03	Configuration number		GB2SHDLI
1.04	Rated capacity	Q kg	2000
1.05	Load center distance	C mm	600
1.06	Power mode		Battery
1.07	Driving mode		Seated
1.08	Front overhang	X mm	381
1.09	Wheelbase	y mm	1670
Weight			
2.01	Total weight (with/without battery)	kg	4455/3220
2.02	Axle load ,unladen,front/rear (fork advanced)	kg	1915/2540
2.03	Axle load ,unladen,front/rear (fork retracted)	kg	2670/1785
2.04	Axle load ,laden,front/rear (fork advanced)	kg	1350/5105
2.05	Axle load ,laden,front/rear (fork retracted)	kg	2845/3610
Tyres			
3.01	Tyre type		Polyurethane
3.02	Tyre size,front		φ343x135
3.03	Tyre size,rear		φ350x100
3.04	Wheels,number front/rear (x=driven wheels)		1x/2
3.05	Tread, rear	b ₁₁ mm	1143
Dimensions			
4.01	Fork tilt angle (forward/backward)	α/β °	2/4°
4.02	Height (mast lowered)	h ₁ mm	3634
4.03	Free lifting height	h ₂ mm	2611
4.04	Lifting height (standard)	h ₃ mm	8500
4.05	Max. height,extended (with backrest)	h ₄ mm	9523
4.06	Height of overhead guard	h ₅ mm	2215
4.07	Seat height relating to SIP (to ground)	h ₇ mm	1180
4.08	Overall length (with fork)	l ₁ mm	2624
4.09	Overall length (without fork)	l ₂ mm	2096
4.10	Overall width	b ₁ mm	1270
4.11	Fork size:thickness x width x length	s/e/l mm	40x122x1150
4.12	Fork carriage,according to ISO2328		2A
4.13	Distance between fork-arms, Max./Min.	b ₅ mm	244~724
4.14	Fork sideshifting	mm	±75
4.15	Distance between support arms	b ₄ mm	900
4.16	Reach distance	l ₄ mm	620
4.17	Ground clearance (laden,between mast)	m ₁ mm	75
4.18	Right angle stacking aisle width for pallet 1000 x1200mm crossways	A _{st} mm	2963
4.19	Right angle stacking aisle width for pallet 800 x1200mm lengthways	A _{st} mm	3012
4.20	Min. outside turning radius	W _s mm	1901
Performance Data			
5.01	Travel speed (laden/unladen)	km/h	13/14
5.02	Lift speed (laden/unladen)	m/s	0.35/0.55
5.03	Lowering speed (laden/unladen)	m/s	0.5/0.5
5.04	Reach speed (laden/unladen)	m/s	0.1/0.1
5.05	Max.gradeability (laden/unladen)	%	10/15
Battery			
6.01	Battery voltage/Capacity	V/Ah	80/202
6.02	Battery weight (Min./Max.)	kg	1000
6.03	Battery box dimension	mm	1220×427×784
Motor and controller			
7.01	Driving motor powering	kw	8
7.02	Lifting motor powering	kw	15.5
7.03	Steering motor powering	kw	0.4
7.04	Driving motor controlling mode		MOSFET/AC
7.05	Lifting motor controlling mode		MOSFET/AC
7.06	Steering motor controlling mode		MOSFET/AC
Addition data			
8.01	Transmission box		HELI special transmission box
8.02	Service brake/Parking brake		Electromagnetic

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

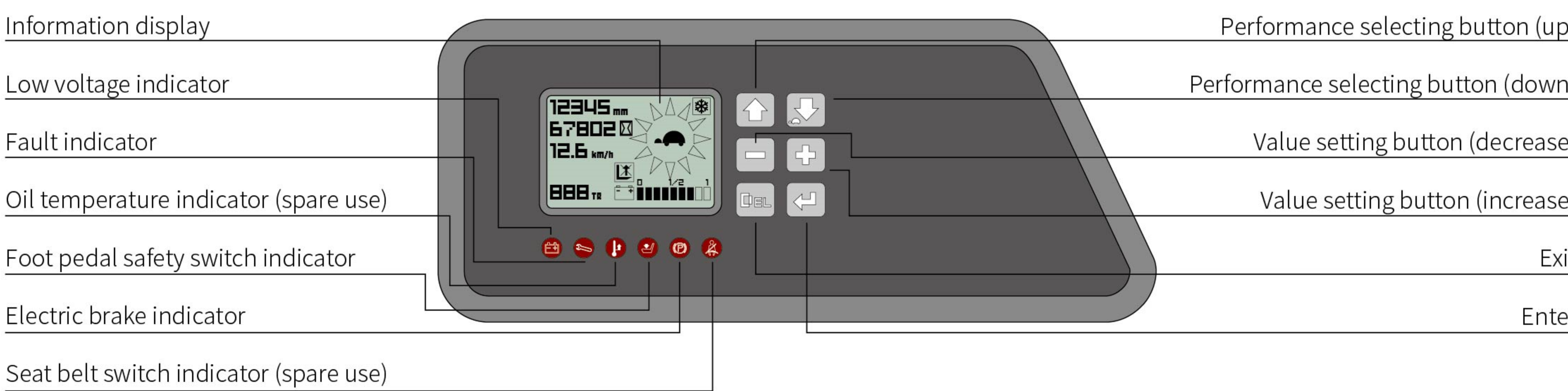
www.heliforklift.net

HELI

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.



Standard configuration

AC travelling motor	Control valve (four throw)
AC lifting motor	4600mm three stage full free lift mast
AC steering motor	Integral sideshifter
Travelling motor controller	Standard fork
Lifting motor controller	Backrest
Steering motor controller	Polyurethane tyre
Electromagnetic brake	LED meter
Lifting height pre-selector	Front working light
Monitoring system	Rearview mirror with wide view angle
DC/DC converter	Safety belt
Low noisy gear pump	Blue warning light

Optional

Three-stage full free lift mast	Battery charger
Fork with other length	Customer made color
Fork extension	Battery side pulling
Lifting height pre-selector	HELI smart fleet management system
Monitoring system	Multi-function handle

HELI smart fleet management system (optional)

- Vehicle positioning
- Remote diagnosis
- Remote monitoring
- Maintenance reminder
- Battery management
- Statistical form
- Vehicle management
- Ldentication 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.



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