

1.6-2.0 t

**G2 SERIES AC ELECTRIC
REACH TRUCK
SIT-DOWN TYPE**
(Standard type)



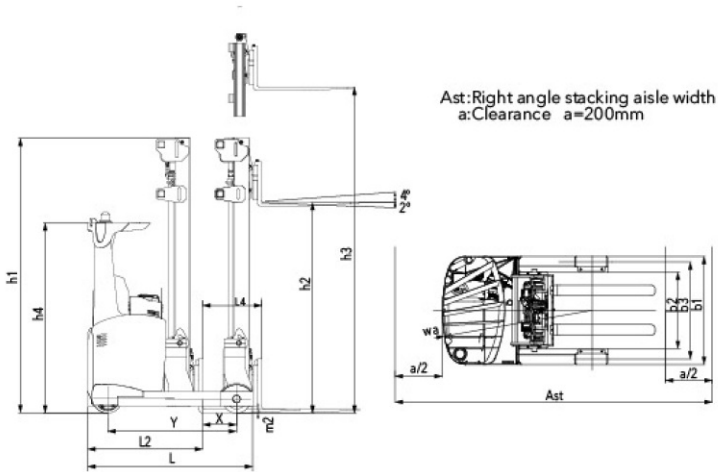
1.6-2t WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height (mm)	Load capacity(load center 600mm)(kg)		Mast overall height	Free lifting height (with backrest) (mm)	Service weight(kg)		Fork tilt angle (front/rear) α / β
		CQD16-GC2SZ	CQD20-GC2S			CQD16-GC2SZ	CQD20-GC2S	
ZSM460	4600	1600	2000	2314	1280	3104	3490	2°/4°
ZSM480	4800	1600	2000	2381	1340	3123	3509	2°/4°
ZSM540	5400	1500	2000	2581	1540	3181	3567	2°/4°
ZSM570	5700	1350	1900	2681	1640	3209	3595	2°/4°
ZSM630	6300	1300	1900	2881	1840	3267	3653	2°/4°
ZSM675	6750	1250	1800	2982	1940	3300	3686	2°/4°
ZSM700	7000	1200	1700	3065	2030	3324	3710	2°/4°
ZSM715	7150	1200	1700	3115	2080	3338	3724	2°/4°
ZSM750	7500	1100	1700	3232	2190	3372	3758	2°/4°
ZSM800	8000	1000	1500	3398	2360	3420	3806	2°/4°
ZSM850	8500	900	1300	3564	2530	3468	3854	2°/4°

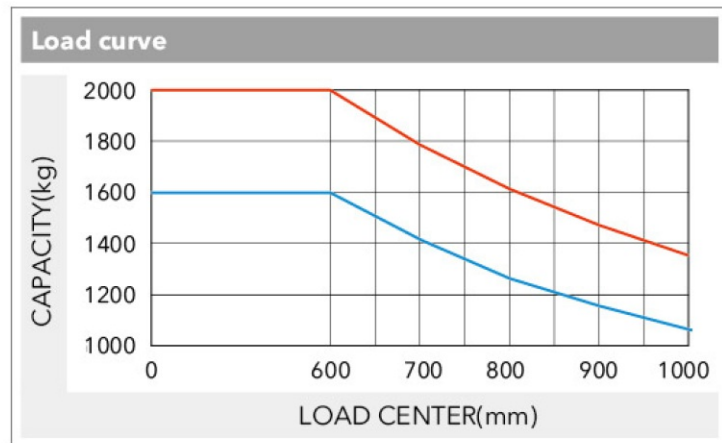
Note: The free lift height is 4600mm-6300mm when the truck is not assembled with backrest. The free lift height is 175mm increased and other height is 25mm increased.

2t WIDE VIEW MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 600mm)(kg)	Mast overall height	Service weight(kg)	Fork tilt angle (front/rear) α / β
M290	2900	2000	2200	3261	2°/4°
M320	3200	2000	2350	3280	2°/4°
M360	3600	2000	2550	3309	2°/4°
M380	3800	2000	2650	3323	2°/4°
M400	4000	2000	2750	3338	2°/4°
M420	4200	2000	2850	3351	2°/4°
M440	4400	2000	2950	3364	2°/4°
M460	4600	2000	3050	3420	2°/4°
M500	5000	1900	3250	3448	2°/4°



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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%

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.

Manufacturer's Data and Design Characteristics

Character				
1.01	Manufacturer			
1.02	Model			CQD16 CQD20
1.03	Configuration number			GC2SZ GC2S
1.04	Load capacity	Q	kg	1600 2000
1.05	load center distance	C	mm	600 600
1.06	Power mode			Battery Battery
1.07	Driving mode			Seated Seated
1.08	Wheel base	Y	mm	1450 1515
Tyre				
2.01	Tyre type			Polyurethane Polyurethane
2.02	Wheels, number front/rear (x=driven wheels)			1x/2 1x/2
2.03	Track width, rear	b3	mm	1012 1143
2.04	Wheel size, rear		mm	φ 285×100 φ 330×100
2.05	Wheel size, front		mm	φ 343×114 φ 343×114
Size				
3.01	Lift height	h3	mm	4600 4600
3.02	Free lift	h2	mm	1280 1280
3.03	Mast height, lowered	h1	mm	2314 2314
3.04	Fork size:thickness×width×length	s/e/l	mm	40×122×1150 40×122×1150
3.05	Fork adjusting width		mm	244~650 244~724
3.06	Fork tilt angle (front/rear)	α/β	°	2°/4° 2°/4°
3.07	Fork sideshifting		mm	±55 ±75
3.08	Truck body length (fork excluded)	L	mm	1847 1942
3.09	Length(the distance from the fork face to rear frame)	L2	mm	1365 1369
3.10	Truck body width	b1	mm	1120 1270
3.11	Distance between support arms	b2	mm	780 900
3.12	Reach distance	L4	mm	539 620
3.13	Height of overhead guard (cab)	h4	mm	2215 2215
3.14	Ground clearance, below mast	m2	mm	75 75
3.15	Turning radius	Wa	mm	1689 1751
3.16	Load distance, centre of support arm wheel to face of forks	X	mm	322 383
3.17	Aisle width with pallet 1200Lx1200W	Ast	mm	2952 2965
3.18	Aisle width with pallet 1000Lx1200W	Ast	mm	2794 2810
Performance				
4.01	Travelling speed: with/without load		km/h	10/11 10/11
4.02	Lifting speed: with/without load		m/s	0.34/0.53 0.32/0.44
4.03	Lowering speed: with/without load		m/s	0.5/0.5 0.5/0.5
4.04	Reach speed, with/without load		m/s	0.1/0.15 0.11/0.11
4.05	Maximum climbing ability, with/without load		%	10/15 10/15
Weight				
5.01	Total weight (with battery)		kg	3104 3490
5.02	Axle load,fork outreached,without load,front/rear		kg	1368/1836 1620/1870
5.03	Axle load,fork retracted,without load,front/rear		kg	1772/1432 2180/1310
5.04	Axle load,fork outreached,with load,front/rear		kg	402/4402 650/4840
5.05	Axle load,fork retracted,with load,front/rear		kg	1372/3432 2060/3430
Battery				
6.01	Battery voltage/capacity Ks		V/Ah	48/420 48/500
6.02	Battery weight		kg	710 860
6.03	Battery box dimension		mm	1035×352×784 1220×352×784
Motor and controller				
7.01	Drive motor power (60 min)		kW	6 6
7.02	Lifting motor power (15%)		kW	11 11
7.03	Steering motor power (50%)		kW	0.4 0.4
7.04	Type of driving control			MOSFET/AC MOSFET/AC
7.05	Type of Lifting control			MOSFET/AC MOSFET/AC
7.06	Type of Steering control			MOSFET/AC MOSFET/AC
7.07	Service brake			- Hydraulic Brake
7.08	Hydraulic system working pressure		Mpa	17.5 20

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

G2 SERIES 1.6-2.0t



Optimized intelligent design

- ZAPI travelling motor controller
- ZAPI lifting motor controller
- ZAPI steering motor controller
- CAN bus technology
- Emergency power off of both main circuit and control circuit
- Parking brake on slope
- Operation sequence protection
- Travelling speed control
- Electric controller self protection
- Lifting height pre-selector (optional)

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

Easy operated thumb switch

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

Three phase AC type motor technology

- Three phase AC type motor control on travelling, lifting and steering
- Good acceleration
- Fast and sensitive respond on travel direction shifting Free from maintenance motor without carbon brush having long service life and low maintenance cost
- Energy regenerating during deceleration extending operation hours
- Max. travelling speed without load 20% increased
- Max. travelling speed with load 27% increased

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



Overhead guard

- Fence on top of the overhead guard offering driver wide view
- Beveled view angle design with front ring beam meeting humanized requirements

Comfort cab

- Comfort cab offering driver good working environment and easy operation
- Easy reach to important operation
- Adjustable seat (seat position /backrest angle)

Wide view mast

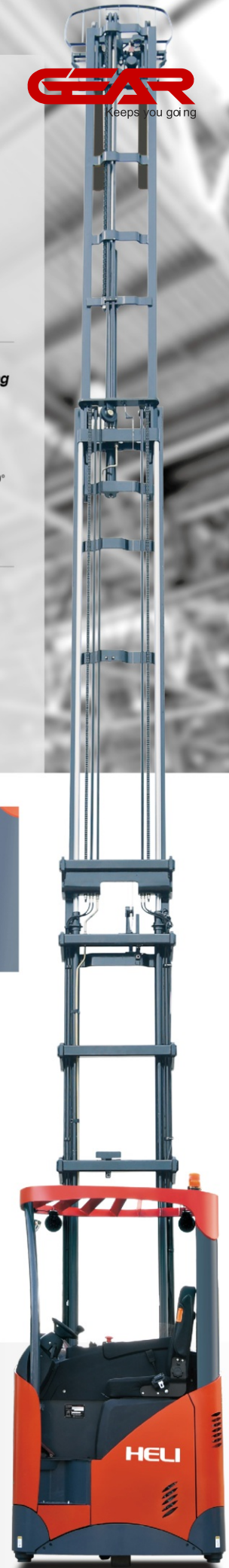
- Good view when loaded
- Integral sideshifter
- Mast vertical, fork tilt
- High residual load capacity at high lift height
- Lift height range:4600-12500mm
- Buffering during lifting and lowering
- Buffering on lifting and lowering limit
- Buffering when cylinder moving forward

Displayer

- High quality meter displaying important operating data
- Display of traveling direction and drive wheel angle
- Display of 180°/360° steering mode
- Display of battery quantity and fault code
- Travelling mode selection
- Lifting lock indication
- Hour meter
- Fork height display (optional)

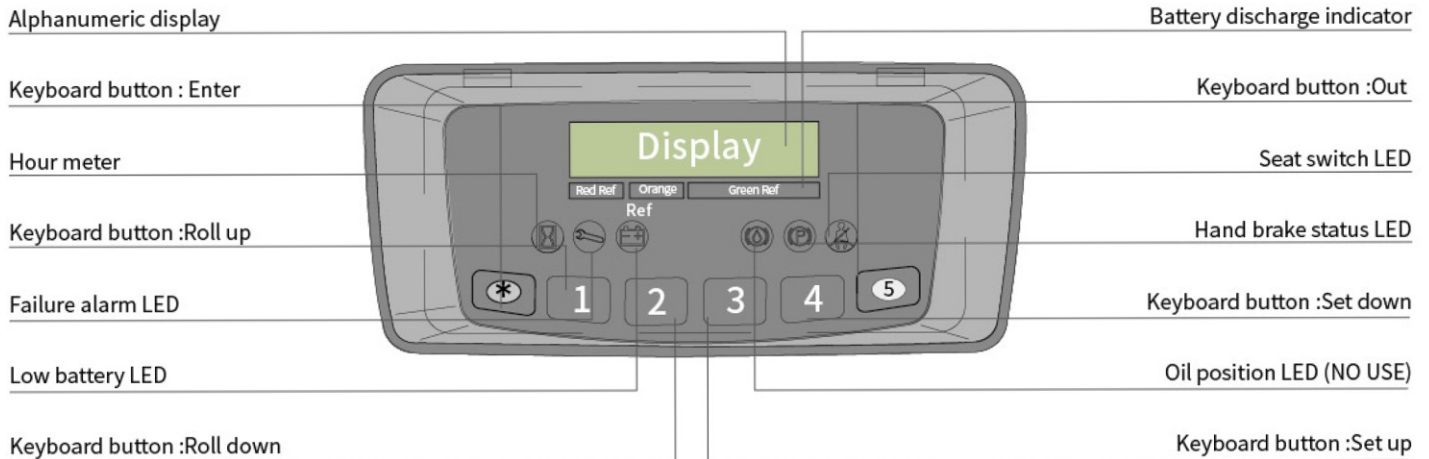
HELI smart fleet management system (optional)

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



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

- Travelling motor 48v/6.0kw
- Lifting motor 48v/11.0kw
- Steering motor 48v/0.4kw
- ZAPI travelling motor controller
- ZAPI lifting motor controller
- ZAPI steering motor controller
- DC/DC converter
- Low noisy gear pump
- Control valve (four throw)
- 4600mm three stage full free lift mast
- Integral sideshifter
- Standard fork
- Backrest
- Polyurethane tyre
- LED meter
- Front working light
- Warning light
- Rearview mirror with wide view angle
- Blue warning light

Optional

- Three-stage full free lift mast (other lifting height)
- Fork with other length
- Fork extension
- Monitoring system
- Reversing buzzer
- Other battery
- Germany hoppecker battery
- Italy FAAM battery
- Japan GS battery
- Battery charger
- Customer made color
- HELI smart fleet management system