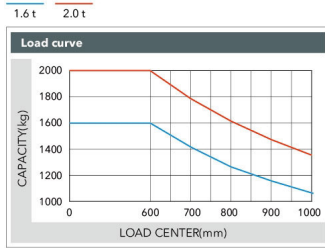
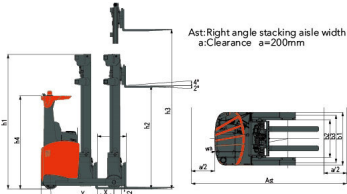


**WIDE VIEW FULL FREE 3-STAGE MAST**

Mast model	Lifting height (mm) h3		Free lifting height (mm) h2		Mast height, lowered (mm) h1		Load capacity (kg)		Total weight (kg)		Fork tilt angle (front/rear) α/β
	CQD16	CQD20	CQD16	CQD20	CQD16	CQD20	CQD16	CQD20	CQD16	CQD20	
ZSM460	4600	4600	1280	1280	2314	2314	1600	2000	3395	3560	2°/4°
ZSM480	4800	4800	1340	1340	2381	2381	1600	2000	3410	3580	2°/4°
ZSM540	5400	5400	1540	1540	2581	2581	1600	2000	3454	3640	2°/4°
ZSM570	5700	5700	1640	1640	2681	2681	1550	1900	3476	3670	2°/4°
ZSM630	6300	6300	1840	1840	2881	2881	1500	1900	3521	3730	2°/4°
ZSM675	6750	6750	1940	1940	2982	2982	1450	1800	3576	3775	2°/4°
ZSM700	7000	7000	2030	2030	3065	3065	1400	1700	3595	3800	2°/4°
ZSM715	7150	7150	2080	2080	3115	3115	1400	1700	3606	3820	2°/4°
ZSM750	7500	7500	2190	2190	3232	3232	1300	1700	3633	3850	2°/4°
ZSM800	8000	8000	2360	2360	3398	3398	1200	1500	3669	3900	2°/4°
ZSM850	8500	8500	2530	2530	3564	3564	1100	1300	3706	3950	2°/4°
ZSM900	9000	9000	2690	2690	3730	3730	900	1100	3742	4000	2°/4°
ZSM950	9500	9500	2860	2860	3898	3898	800	1000	3780	4050	2°/4°
ZSM1000	-	10000	-	3030	-	4064	-	850	-	4100	2°/4°
ZSM1050	-	10500	-	3190	-	4230	-	800	-	4150	2°/4°
ZSM1080	-	10800	-	3290	-	4330	-	750	-	4180	2°/4°
ZSM1100	-	11000	-	3360	-	4398	-	700	-	4200	2°/4°
ZSM1150	-	11500	-	3530	-	4564	-	650	-	4250	2°/4°
ZSM1200	-	12000	-	3690	-	4730	-	550	-	4300	2°/4°
ZSM1250	-	12500	-	3860	-	4898	-	500	-	4350	2°/4°

**WIDE VIEW MAST**

Mast model	Lifting height (mm) h3		Free lifting height (mm) h2		Mast height, lowered (mm) h1		Load capacity (kg)		Total weight (kg)		Fork tilt angle (front/rear) α/β
	CQD16	CQD20	CQD16	CQD20	CQD16	CQD20	CQD16	CQD20	CQD16	CQD20	
M290	2900	2900	80	80	2200	2200	1600	2000	3140	3660	2°/4°
M320	3200	3200	80	80	2350	2350	1600	2000	3150	3370	2°/4°
M360	3600	3600	80	80	2550	2550	1600	2000	3180	3400	2°/4°
M380	3800	3800	80	80	2650	2650	1600	2000	3200	3420	2°/4°
M400	4000	4000	80	80	2750	2750	1600	2000	3210	3430	2°/4°
M420	4200	4200	80	80	2850	2850	1600	2000	3230	3450	2°/4°
M440	4400	4400	80	80	2950	2950	1600	2000	3240	3460	2°/4°
M460	4600	4600	80	80	3050	3050	1600	2000	3300	3510	2°/4°
M500	5000	5000	80	80	3250	3250	1500	1900	3320	3540	2°/4°



**↑15%**  
THE PERFORMANCE OF BATTERY INCREASES

**Renewable energy technologies**

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

**Note:** The vertical axis denotes capacity and the horizontal axis denotes load center, which is calculated from front face of fork to centre of load. Standard load is one cubic metre hence 500mm load centre. When tilting forward or using non-standard forks, the capacity will be reduced as load center is increased.

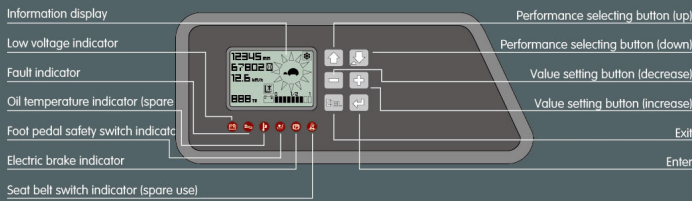
**Manufacturer's Data and Design Characteristics**

Character		HELI	
1.01	Manufacturer		
1.02	Model	CQD16	CQD20
1.03	Configuration number	GB25	GB25
1.04	Load capacity	1600	2000
1.04	Load center distance		600
1.06	Power mode		Battery
1.07	Driving mode		Seated
1.08	Wheel base	Y mm	1450
<b>Type</b>			
2.01	Tyre type		Polyurethane
2.02	Wheels, number front/rear (x=driven wheels)		1x/2
2.03	Track width, rear	b3 mm	1157
2.04	Wheel size, rear		mm 4285x100
2.05	Wheel size, front		mm 4343x114
<b>Size</b>			
3.01	Lift height	h3 mm	4600
3.02	Free lift	h2 mm	1280
3.03	Mast height, lowered	h1 mm	2314
3.04	Fork size: thickness*width*length	s/e/l mm	40x122x1150
3.05	Fork adjusting width		0-724
3.06	Fork tilt angle (front/rear)	α/β °	2°/4°
3.07	Fork sideshifting		±75
3.08	Truck body length (fork excluded)	L mm	1840
3.09	Truck body width	b1 mm	1270
3.10	Distance between support arms	b2 mm	900
3.11	Reach distance	L4 mm	606
3.12	Height of overhead guard (cab)	h4 mm	2215
3.13	Ground clearance, below mast	m2 mm	75
3.14	Turning radius	Wa mm	1689
3.15	Load distance, centre of support arm wheel to face of forks	X mm	369
3.16	Aisle width with pallet 1200 x 1200 across forks	Aat mm	2914
3.17	Aisle width with pallet 1000 x 1200 across forks	Ast mm	2760
<b>Performance</b>			
4.01	Travelling speed: with/without load	km/h	11/12
4.02	Lifting speed: with/without load	m/s	0.34/0.53
4.03	Lowering speed: with/without load	m/s	0.5/0.5
4.04	Reach speed: with/without load	m/s	0.11/0.11
4.05	Maximum climbing ability, with/without load	%	10/15
<b>Weight</b>			
5.01	Total weight (with battery)	kg	3395
5.02	Axle load, fork retracted, without load, front/rear	kg	1500/1895
5.03	Axle load, fork retracted, with load, front/rear	kg	2013/1383
5.04	Axle load, fork retracted, with load, front/rear	kg	578/4415
5.05	Axle load, fork retracted, with load, front/rear	kg	1759/3234
<b>Battery</b>			
6.01	Battery voltage/capacity Ks	V/Ah	48/450
6.02	Battery weight	kg	750
6.03	Battery box dimension	mm	1220x283x784
<b>Motor and controller</b>			
7.01	Drive motor power	kW	6
7.02	Lifting motor power	kW	11
7.03	Steering motor power	kW	0.4
7.04	Type of driving control		MOSFET/AC
7.05	Type of lifting control		MOSFET/AC
7.06	Type of steering control		MOSFET/AC
7.07	Transmission box		HELI special transmission box
7.08	Service brake		Electromagnetic brake
7.09	Hydraulic system working pressure	Mpa	17.5

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



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
- AC lifting motor
- AC steering motor
- ZAPI travelling motor controller
- ZAPI lifting motor controller
- ZAPI steering motor controller
- Electromagnetic brake
- 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

**OPTIONAL DEVICE**

- Three-stage full free lift mast (other lifting height)
- fork with other length
- Fork extension
- Lifting height pre-selector
- Monitoring system
- Other battery
- Germany hoppecker battery
- Italy FAAM battery
- Battery charger
- Customer made color

\* Details of specifications and equipment are based on information available at time of printing and may change without notice.



**ANHUI HELI CO., LTD.**  
ADD: NO.668 Fangxing Street, Economical Development Zone, Hefei, P.R.China  
TEL: (86 551) 63639068 (America) 63639258 (Europe) 63639258 (Asia)  
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**HELI**  
LIFTING THE FUTURE  
SINCE 1958

**1.6-2.0t G2 series**  
**AC Electric Reach Truck**  
**Sit Down Type (High Efficiency)**



# 1.6-2.0t G2 series

## AC Electric Reach Truck Sit Down Type (High Efficiency)

### FEATURES OF THE COMPLETED TRUCK

#### 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

**G series** / INTELLIGENT  
ENVIRONMENT-FRIENDLY

#### Optimized intelligent design

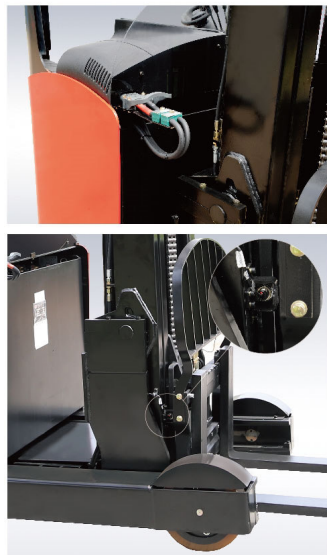
- > ZAPI travelling motor controller
- > ZAPI lifting motor controller
- > ZAPI steering motor controller
- > CAN bus technology
- > Emergency power off of both main circuit and control circuit
- > Parking brake on slope
- > Operation sequence protection
- > Travelling speed control
- > Electric controller 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



#### 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
- > Labor hour display
- > Time
- > Fork height display (optional)

#### 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

#### Comfort cab

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

#### Overhead guard

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