# G2 SERIES 1.6-2.0 t

## **FEATURES OF** THE COMPLETED TRUCK

### 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

#### 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

#### Optimized intelligent design

- ZAPI travelling motor controller

- ZAPI litting motor controller
  ZAPI steering motor controller
  CAPI steering motor controller
  CAPI steering motor controller
  CAPI 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

#### Easy operated thumb switch

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









#### Sealed cab (optional)

- Tempered glass for cab
- The interior of the cab is packed by uphostery, prevent frostbite.

  Heater improves the temperature inside of cab.
- Electrical heating seat provides comfortable working
- environment for operator.
- Glass on top of the cab provides better visibility on the premise of ensuring safety
- Small window on one side of steering wheel meets ergonomics requirement.

## **Corrosion and rust prevention**

- Corrosion and rust prevention painting is used on the
- completed truck.
  Stainless steel bolts are used on key parts.
  Chromate finish is adopted on pistons of front and rear
- lifting cylinders.
- Dacromet technology is adopted on the surfaces of

#### Special parts for cold store

- Special drive tyres for cold store
- Special motors for cold store

### Special oils for cold store

- Special low temperature lubrication grease is used for
- Low temperature transmission oil is used for transmis-
- sion system.

  Hydraulic oil with low condensation point is used for

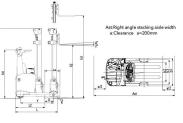
- Vehicle positioning
- Remote diagnosis
- Remote monitoring
- · Maintenance reminder Battery management
- Statistical form
- Vehicle management
- · Ldentification recognition (optional)
- Weight management (optional)
- · Collision management (optional)





WIDE	IEW FULL F	REE 3-STAG	GE MAST								
Mast model	Lifting height h3 (mm)		Load capacity (load center 600mm)(kg)		Height (mast lowered)	Free lifting height (with backrest) (mm)	Service weight(kg)				Fork tilt angle (front/rear)α/β
	CQD16-GB2SL	CQD20-GB2SL	CQD16-GB2SL	CQD20-GB2SL	h1 (mm)	(with backlest) (mm)	CQD16-GB2SL	CQD16-GB2SL	CQD20-GB2SI	CQD20-GB2SL	(ii Oily lear Ju)
ZSM460	4600	4600	1600	2000	2314	1280	3505	3675*	3564	3734°	2°/4°
ZSM480	4800	4800	1600	2000	2381	1340	3524	3694°	3583	3753°	2°/4°
ZSM540	5400	5400	1600	2000	2581	1540	3582	3752*	3641	3811*	2*/4*
ZSM570	5700	5700	1550	1900	2681	1640	3610	3789°	3669	3839°	2°/4°
ZSM630	6300	6300	1500	1900	2881	1840	3668	3838°	3727	3897a	2°/4°
ZSM675	6750	6750	1450	1800	2982	1940	3701	3871*	3760	3930°	2°/4°
ZSM700	7000	7000	1400	1700	3065	2030	3725	3895°	3784	3954°	2°/4°
ZSM715	7150	7150	1400	1700	3115	2080	3739	3909*	3798	3968*	2°/4°
ZSM750	7500	7500	1300	1700	3232	2190	3773	3943°	3832	4002°	2°/4°
ZSM800	8000	8000	1200	1500	3398	2360	3821	3991*	3880	4050°	2°/4°
ZSM850	8500	8500	1100	1300	3564	2530	3869	4039°	3928	4098°	2°/4°
ZSM900	9000		900		3730	2690	3916	4086*			2°/4°

WIDE VIEW MAST								
Mast model	Lifting height h3 (mm)	Load capacity (load center 600mm)(kg)	Height (mast lowered)	Service w	Fork tilt angle			
	CQD16-GB2SL	(load center 600mm)(kg)	h1 (mm)	CQD16-GB2SL	CQD16-GB2SL	(front/rear)α/β		
M290	2900	1600	2200	3276	3446°	2°/4°		
M320	3200	1600	2350	3295	3465°	2°/4°		
M360	3600	1600	2550	3324	3494°	2°/4°		
M380	3800	1600	2650	3338	3508°	2°/4°		
M400	4000	1600	2750	3353	3523⁰	2°/4°		
M420	4200	1600	2850	3366	3536°	2°/4°		
M440	4400	1600	2950	3379	3549°	2°/4°		
M460	4600	1600	3050	3435	3605°	2°/4°		
M500	5000	1500	3250	3463	3633*	2°/4°		



1.6 t 2.0 t 2000 1800 CAPACITY(kg) 1600 1400 1200 1000 LOAD CENTER(mm)

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%.

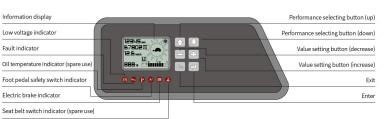


stands for load center which is calculated from the front surface of the forks to the gravity of the standard load, the standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity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

# Note: The vertical axis stands for load capacity and the horizontal axis

## HELI

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 configurati

AC travelling motor
AC tavelling motor
AC staveling motor
AC steering motor
AC steering motor
AC steering motor controller
ZAPI triffing motor controller
ZAPI tiffing 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 Polyurethane tyre LED meter

Front working light Rearview mirror with view angle Safety belt Blue waming light HE' AN seat USB

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 ltaly FAMh battery Battery charger Customer made color Battery side pulling Heating seat Heating seat Grammer seat HELI smart fleet management system Sealed cab

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 Road, Hefei, China Fax / +86-551-63639966

Tel / +86-551-63639068(America); 63639258(Europe); 63639358(Asia); 63662105(Africa & Middle East); 63639530(Key Accounts Division); 63662105(Wheel loader)



	Character							
1.01	Manufacturer						200	
1.02	Model				D16		CQD20	
L.03 L.04	Configuration number	-	lum:		2SL	GB2SL 2000		
1.04	Load capacity load center distance	Q	kg mm	60	00			
1.05	Power mode		mm		tery	600 Battery		
1.07	Driving mode					Seated		
1.08	Wheel base	Y	mm		Seated 1450		itea i15	
1.00	Tyre	- '	111111	14	100	10	113	
2.01	Tyre type			Polyun	ethane	Polyun	ethane	
2.02	Wheels, number front/rear (x=driven wheels)				√2		1x/3	
2.03	Track width, rear	p3	mm	1157		1143		
2.04	Wheel size, rear		mm	ф285x100		ф330x100		
2.05	Wheel size, front		mm	ф343х114			3x114	
	Size							
3.01	Lift height	h3	mm	46	00	46	00	
3.02	Free lift	h2	mm		180	1280		
3.03	Mast height, lowered	h1	mm	23	114	2314		
3.04	Fork size:thickness×width×length	s/e/l	mm	40x122x1150		40x122x1150		
3.05	Fork adjusting width		mm	244	~724	244~724		
3.06	Fork tilt angle (front/rear)	α/β		2°/4°		2°/4°		
3.07	Fork sideshifting		mm	±75		±75		
3.08	Truck body length (fork excluded)	L.	mm	1840	1940³	1942	2042a	
3.09	Length(the distance from the fork face to rear frame)	L2	mm	1372	1472*	1369	1469*	
3.10	Truck body width	b1	mm		70	1270		
3.11	Distance between support arms	b2	mm	900		900		
3.12	Reach distance	L4	mm	555		620		
3.13	Height of cab	h4	mm	2215		2215		
3.14	Ground clearance, below mast	m2	mm		5	75		
3.15	Turning radius	Wa	mm	1689	1788ª	1751	1851ª	
3.16	Load distance, centre of support arm wheel to face of forks	X	mm	3:			33	
3.17	Aisle width with pallet 1200x1200	Ast	mm	2960	3060*	2965	3065*	
3.18	Aisle width with pallet 1000x1200 lengthways	Ast	mm	2800	2900°	2810	2910°	
	Performance		1 0					
4.01	Travelling speed: with/without load		km/h		/12	10/11		
4.02	Lifting speed: with/without load		m/s		/0.53 /0.5	0.29/0.45		
4.03 4.04	Lowering speed: with/without load		m/s			0.5/0.5 0.11/0.11		
4.04	Reach speed, with/without load  Maximum climbing ability, with/without load		m/s	0.11,	/0.11	10/15		
4.05	Weight		90	10,	/15	10,	/15	
5.01	Total weight (with battery)		kg	3505	3675*	3564	3734*	
5.02	Axle load,fork outreached,without load,front/rear		kg	1670/1835	1760/1915°	1592/1972	1692/204	
5.03	Axle load, fork retracted, without load, front/rear		kg	2180/1325	2290/1295*	2232/1332	2332/140	
5.04	Axle load, fork outreached, with load, front/rear		kg	760/4345	785/44903	552/5012	652/5082	
5.05	Axle load, fork retracted, with load, front/rear		kg	1880/3225	1945/3340*	1962/3602	2062/367	
5.05	Battery		NB	1000/3223	1945/3340	1902/3002	2002/301	
5.01	Battery voltage/capacity Ks		V/Ah	48/	500	497	600	
5.02	Battery weight		kg		48/500 860		48/600 972	
5.03	Battery box dimension		mm		53x784	1220x352x784		
,,03	Motor and controller			122003	JUNION	1220%	J2X104	
7.01	Drive motor power (60 min)			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		
.05	Type of Lifting control			MOSFET/AC		MOSFET/AC		
7.06	Type of Steering control			MOSFET/AC		MOSFET/AC		
7.07	VI				ansmission box	HELI special tra		
7.08	Service brake		Мра	Electromagnetic brake		Electromagnetic brake		
7.09	Hydraulic system working pressure		,	17.5		20		

## HELI

