

锂电
Li-ion battery

**Liugong new lithium
battery forklift**

CLGA20~35S/CEL
LITHIUM BATTERY COUNTERWEIGHT
FORKLIFT

LIUGONG



LIUGONG
TOUGH WORLD. TOUGH EQUIPMENT.

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TOUGH WORLD. TOUGH EQUIPMENT.

COMFORTABLE

Comfortable operating space, ergonomic design layout, to bring the operator a comfortable driving experience.



TILTABLE STEERING COLUMN

- Automatic return of steering wheel, $\Phi 300\text{mm}$ small diameter steering wheel for easy steering.



PARKING BREAK

- New hand brake, reduced operating force by 15% easy to pull up.



WIDER HANDLE

- The widen handrail.



FOOT PEDAL

- Easy and lower foot pedal.



COMFORTABLE OPERATE SPACE

- Ergonomic layout and control space increased by 20%.



COMFORTABLE SEAT

- Enough space for the seat forward and backward, suitable for different height operator.
- Spacious seat.
- The optional adjustable Grammer seat, with body weight adjust, forward and backward adjustable full-suspension seat, ensures the operator remains comfortable over long time.



REVERSE HANDLE (OPTIONAL)

- Reverse handrail with horn button.



BRAKING

- The braking friction area increased by 30%, smaller braking control force, stronger braking performance.



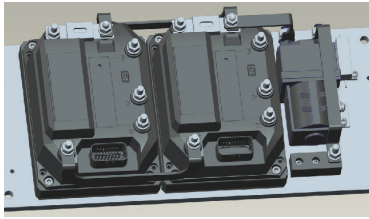
High visibility mast

- Spacious mast view, increased by 10%.



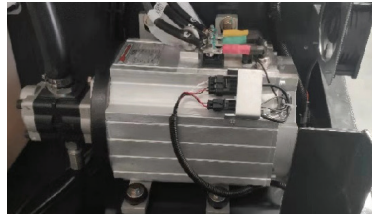
CAPABLE

Inherit the DNA representing Liugong's high-end equipment, with excellent performance, intelligence safety, and inherit the reliable and durable quality of Liugong's machinery and equipment.



FULL AC CONTROL SYSTEM

- with self protection and self diagnosis functions, mature technology and high reliability.



FULL AC HIGH PERFORMANCE MOTOR

- AC asynchronous motor, no carbon brush, maintenance-free, aluminum motor shell, large heat dissipation fins, good heat dissipation performance and high reliability.



METAL COVER

- The body, battery cover and controller cover are all made of metal, which are strong and durable.

WORKING



MAST

- The distance of the mast tilt cylinder support from the ground is increased, and the mast is more stable, which can meet the load-bearing requirements of different attachments, with more reliability and durability.

LED LIGHT

- Use LED light, high brightness, long life, energy saving.

TYRE

- 3.5t standard solid core large tire with longer service life.

INTELLIGENT

The application of vehicle intelligent technology improves the efficiency of vehicle use and management.

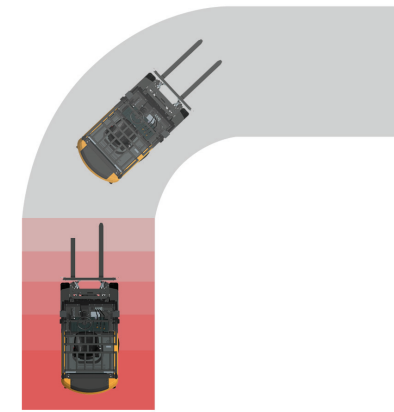
INTELLIGENT INSTRUMENT

- A: Vehicle operation mode switching, with page-turning function.
- B: Vehicle information display, with page turning function.
- C: Screen input password, press key 3.
- D: After entering the password, with return function.



TURNING AUTOMATIC DECELERATION (OPTIONAL)

- Automatic Curve Deceleration System (OPTIONAL).



NEW LITHIUM BATTERY

Li-ion Automobile grade lithium battery cell and BMS battery management system.



ENVIRONMENTAL

- No pollution during charging.
- More suitable for cold storage and other low-temperature environments.



MAINTENANCE

- Maintenance free throughout the life cycle.
- No maintenance, no need to add distilled water.



CONVENIENT CHARGING

- Charge for 1.5 hours and use for one shift.
- There is no need to build a special charging place.

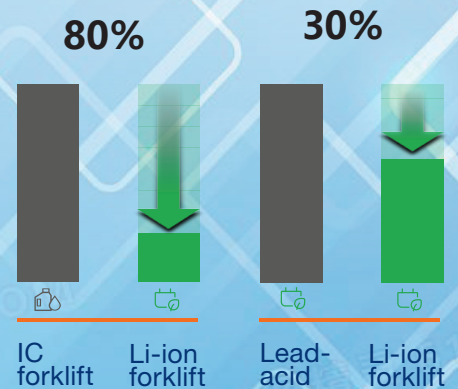


SUPER WARRANTY

- Lithium battery warranty: 5 years or 10000h.
- After 4000 cycles of charge and discharge, 75% of the battery capacity remains.



COST SAVING



- The combined cost is 80% lower than the IC forklift, and 30% lower than the ordinary Lead-acid forklift.



SPECIFICATION

				CLGA20-S/CEL	CLGA25-S/CEL	CLGA30-S/CEL	CLGA35-S/CEL		
General	Model	1		CLGA20-S/CEL	CLGA25-S/CEL	CLGA30-S/CEL	CLGA35-S/CEL		
	Power Type	2		Electric	Electric	Electric	Electric		
	Base Capacity	3	@rated load center	kg	2000	2500	3000	3500	
	Load Center	4		mm	500	500	500	500	
Weights	Service Weight	5	unloaded	kg	3489	3966	4614	5260	
	Axle Load	6	loaded / unloaded, front	kg	4831/1647	5850/1815	6762/2108	7770/2280	
7		loaded / unloaded, rear	kg	658/1842	730/2265	852/2506	960/2980		
Tires	Tire Type	8			Pneumatic	Pneumatic	Pneumatic	Cushion	
	Wheels	9	front / rear		2 / 2	2 / 2	2/2	2/2	
	Wheelbase	10		mm	1542	1542	1650	1650	
	Tire Size	11	front		7.00-12-12PR	7.00-12-12PR	28×9-15-14PR	28×9-15	
		12	rear		18×7-8-14PR	18×7-8-14PR	18×7-8-14PR	18×7-8	
	Tread Width	13	front / rear	mm	966/880	966/880	1005/956	1005/956	
	Mast	Max. Fork Height	14		mm	3000	3000	3000	3000
Free lift		15		mm	110	110	80	80	
Height, Upright Lowered		16		mm	2080	2080	2083	2083	
Height, Upright Extended		17		mm	4040	4040	4143	4143	
Mast Tilt, Fwd/Back		18		deg	6/12	6/12	6/12	6/12	
Carriage		19	width	mm	1040	1040	1100	1100	
Fork Spread		20	minimum / maximum	mm	244/1032	244/1032	272/1072	272/1072	
Fork Dimensions		21	T x W x L	mm	40 x 122 x 1070	40 x 122 x 1070	45×122×1070	50×122×1070	
Chassis		Length to Fork Face	22	with 2-stage / full-free 3-stage mast	mm	2350	2355	2543	2548
		Overall Width	23		mm	1150	1150	1264	1264
	Overhead Guard Height	24		mm	2150	2150	2215	2215	
	Turning Radius	25	minimum outside	mm	2050	2050	2210	2210	
	Fork Overhang	26	with 2-stage / full-free 3-stage mast	mm	455	455	471	476	
	Right Angle Stack	27	add load length and clearance	mm	3705	3705	3881	3886	
	Ground Clearance	28	minimum loaded	mm	120	120	140	140	
		29	center of wheelbase	mm	85	85	155	155	
		30	length / width / height	mm	1028×570×780	1028×570×780	1138×680×760	1138×680×760	
	Performance	Travel Speed	31	loaded / unloaded	km/h	14/14	14/14	14/15	14/15
Lift Speed		32	loaded / unloaded	mm/s	280/430	280/430	280/400	280/400	
Lower Speed		33	loaded / unloaded	mm/s	500/450	500/450	440/430	440/430	
Max. Drawbar Pull		34	5-minute working system	kg	1170	1620	1633	1531	
		35	60-minute working system	kg	220	355	336	336	
Max. Gradeability	36	5-minute working system	%	15	15	15	15		
Systems	Controllers	37	brand		Jiachen	Jiachen	Jiachen	Jiachen	
		38	drive output (60 min. rating)	kw	11	11	16	16	
		39	hydraulic output (15 min. rating)	kw	15	15	16	16	
	Battery	40	type		lithium battery	lithium battery	lithium battery	lithium battery	
		41	voltage	V	80	80	80	80	
		42	standard capacity (5 hour rating)	Ah	202/272/404	202/272/404	272/404/544	272/404/544	

STANDARD CONFIGURATION

POWER SYSTEM

- lithium battery 202Ah(CLGA20-25-S/CML)
- lithium battery 272Ah(CLGA30-35-S/CML)
- AC control system
- AC drive motor
- AC pump motor
- 350A battery plug

ELECTRICAL SYSTEM

- Chinese and English large screen LCD Meter
- LED headlamp
- LED rear combination lamp
- Emergency stop button
- Electric horn
- Reversing buzzer

OPERATION CABIN

- Overhead guard
- Seat
- Adjustable steering column
- Double rearview mirror
- AC pump motor
- Non slip floor
- Cup holder
- 300mm small diameter steering wheel

HYDRAULIC SYSTEM

- Low noise pump
- Oil suction filter
- Oil return filter element
- Two way valve
- Speed limiting valve
- Explosion proof valve
- Load sensing steering system

CHASSIS SYSTEM

- Pneumatic tire
- H-type reduction gearbox
- Traction pin
- 3.5t standard solid tire

MAST SYSTEM

- 3.0m standard 2-stage mast.
- Carriage
- Load backrest
- Fork

OPTIONAL CONFIGURATION

BATTERY

- lithium battery 272AH \ 404AH (CLGA20-25-S/CML)
- lithium battery 404AH \ 544AH (CLGA30-35-S/CML)

ELECTRICAL SYSTEM

- Warning light
- Reversing blue light
- Area warning light
- Automatic deceleration for turning
- Ops operator presence sensing system

MAST SYSTEM

- Standard 2-stage mast
- Full Free 2-stage mast
- Full Free 3-stage mast

HYDRAULIC SYSTEM

- 3-Function control valve
- 4-Function control valve

CHASSIS

- Solid tire
- Non-marking solid tire
- Electrostatic discharge tape

ACCESSORY

- Fork length (optional)
- Sideshifter
- Fork positioner
- Clamp

CAPACITY

Mast type	Maximum Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Free Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity				Total Weight with Standard Forks	
					With Standard Forks		With Sideshifter			
					CLGA20-S/CEL	CLGA25-S/CEL	CLGA20-S/CEL	CLGA25-S/CEL	CLGA20-S/CEL	CLGA25-S/CEL
	mm	mm	mm	°	kg @ (500mm)		kg @ (500mm)		Kg	
Standard 2-Stage	2000	1740	110	6 / 10	2000	2500	1850	2300	3420	3897
	2300	1690	110	6 / 12	2000	2500	1850	2300	3440	3917
	2500	1840	110	6 / 12	2000	2500	1850	2300	3455	3932
	2700	1940	110	6 / 12	2000	2500	1850	2300	3469	3946
	3000	2090	110	6 / 12	2000	2500	1850	2300	3489	3966
	3300	2240	110	6 / 12	2000	2500	1850	2300	3510	3987
	3500	2340	110	6 / 12	2000	2500	1850	2300	3523	4000
	4000	2640	110	6 / 12	1890	2390	1700	2190	3597	4074
Full Free 2-Stage	2700	1940	860	6 / 12	2000	2500	1850	2300	3497	3974
	3000	2090	1010	6 / 12	2000	2500	1850	2300	3519	3996
	3300	2240	1160	6 / 12	2000	2500	1850	2300	3541	4018
	3500	2340	1260	6 / 12	2000	2500	1850	2300	3556	4033
	4000	2640	1560	6 / 6	1890	2390	1700	2190	3621	4098
Full Free 3-Stage	4500	2130	1070	6 / 6	1700	2100	1500	1900	3704	4181
	4700	2200	1140	6 / 6	1620	1900	1420	1700	3720	4197
	4800	2230	1170	6 / 6	1580	1800	1380	1600	3728	4205
	5000	2300	1240	3 / 6	1500	1600	1300	1400	3742	4219
	5500	2520	1640	3 / 6	1200	1300	1000	1100	3809	4286
	6000	2680	1620	3 / 6	900	1000	700	800	3846	4323

CAPACITY

Mast type	Maximum Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Free Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity				Total Weight with Standard Forks	
					With Standard Forks		With Sideshifter			
					CLGA30-S/CEL	CLGA35-S/CEL	CLGA30-S/CEL	CLGA35-S/CEL	CLGA30-S/CEL	CLGA35-S/CEL
	mm	mm	mm	°	kg @ (500mm)		kg @ (500mm)		Kg	
Standard 2-Stage	3000	2120	80	6 / 12	3000	3500	2750	3250	4614	5260
	3300	2270	80	6 / 12	3000	3450	2750	3200	4640	5286
	3500	2370	80	6 / 12	2750	3250	2600	3100	4663	5309
	4000	2670	80	6 / 6	2600	3100	2500	3000	4740	5386
	4500	2920	80	6 / 6	2400	2900	2300	2800	4754	5400
	5000	3220	80	3 / 6	2200	2700	2100	2600	4828	5474
	5500	3670	80	3 / 6	2100	2600	2000	2500	4875	5521
	6000	4020	80	3 / 6	2000	2500	1900	2400	4950	5596
Full Free 2-Stage	2500	1870	714	6 / 12	2500	3000	2250	2750	4630	5276
	3000	2120	964	6 / 12	3000	3500	2750	3250	4674	5320
	3500	2370	1214	6 / 12	2750	3250	2600	3100	4723	5369
	4000	2640	1560	6 / 6	2500	3000	2250	2750	4630	5276
Full Free 3-Stage	3600	1815	659	6/6	2650	3150	2450	2950	4800	5455
	4000	1950	794	6/6	2450	2950	2250	2750	4809	5490
	4500	2120	964	6/6	2250	2750	2050	2550	4884	5530
	4700	2190	1034	6/6	2100	2600	1950	2350	4904	5550
	5000	2295	1134	3/6	1900	2400	1600	2100	4954	5600
	5500	2450	1304	3/6	1700	2200	1450	1950	5044	5690
6000	2630	1474	3/6	1500	2000	1300	1800	5094	5740	

