

CLGA20~35-S

C SERIES BATTERY FORKLIFT



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TOUGH WORLD. TOUGH EQUIPMENT.

COMFORTABLE

Comfortable operate space, ergonomics, spacious seat, comfortable seat, low noise, wide visibility give comfortable driving experience for operators.



ADJUSTABLE STEERING COLUMN

- Auto-return to preferred position ;
- Φ300mm Small diameter steering wheel for educe fatigue.



COMFORTABLE OPERATE SPACE

- Operate space increase 15% than industry.
- V-shaped design of luxury instrument panel increases the space for getting on and off.



DIRECTION CONTROL

- Locate on left side of steering column easy to touch and control by finger.



WIDER HANDLE

- Steel material extended type.



COMFORTABLE SEAT

- Enough space for the seat forward and backward, suitable for different height operator .
- Spacious seat.
- Option gremmar seat have weight adjust model forward and reverse adjustarm adjust full spension seat.



BACK HANDLE (OPTION)

- Back handle with horn switch.



INSTRUMENT

- Instruemnt on instrument on plate easy to see and seting.



CONTROL OPTIMIZATION DESIGN

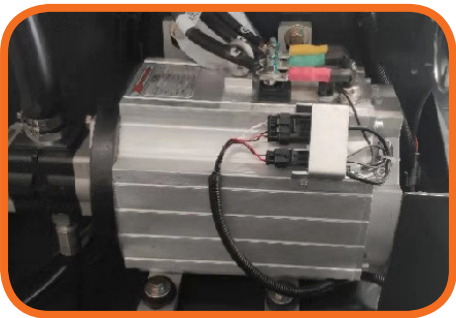
- New handle, reduced operating force 15%.

CAPABLE

Full AC motor, Work model select, battery fast exchange function, lithium battery fast charging function Improve production efficiency.

FULL AC MAINTENANCE FREE MOTOR

- Traction motor and pump motor are AC motor ;
- No carbon brush, completely maintenance free ;
- All aluminum housing design has good heat dissipation performance ;
- High torque, fast acceleration.



WORK MODEL SELECT

- Instrument have forklifts work models function;
- S-standard (12KM/h)
- P-Power (15KM/h)
- E-Economy (8KM/h)
- Tortoise speed (5KM/h).



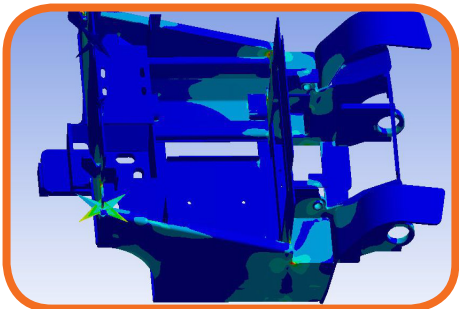
LED LIGHT

- Use LED lights,High brightness, life up to 20000 hours;
- Save energy over 50%,extended endurance;
- LED lamps with plexiglass mask, can be used in food manufacturing industry with strict restrictions on the use of glass.



HEAVY DUTY COMPONENTS

- Frame CAE analysis and improve design;
- Bigger brake shoes;
- Improvement mast hinge position to improve stability.



BATTERY FAST EXCHANGE FUNCTION

- Battery hood big open angle,easy for battery hang out and service.
- Left and right wing type side plates convenient for battery quick replace and maintenance, lifting replace battery can be finished within 5 minutes.
- Optional battery side extract replace function,no need hange, can be finished in 4 minutes.



LITHIUM BATTERY (OPTIONAL)

- Lithium battery has fast charging function, charging can be finished in 2 hours,reduce downtime for charging.
- Protect degree IP54;
- BMS management system ensures safety;
- Charging efficiency is over 90%, much higher than lead-acid battery.



APPLIATION



Food manufacturing industry



Logistics and warehousing industry



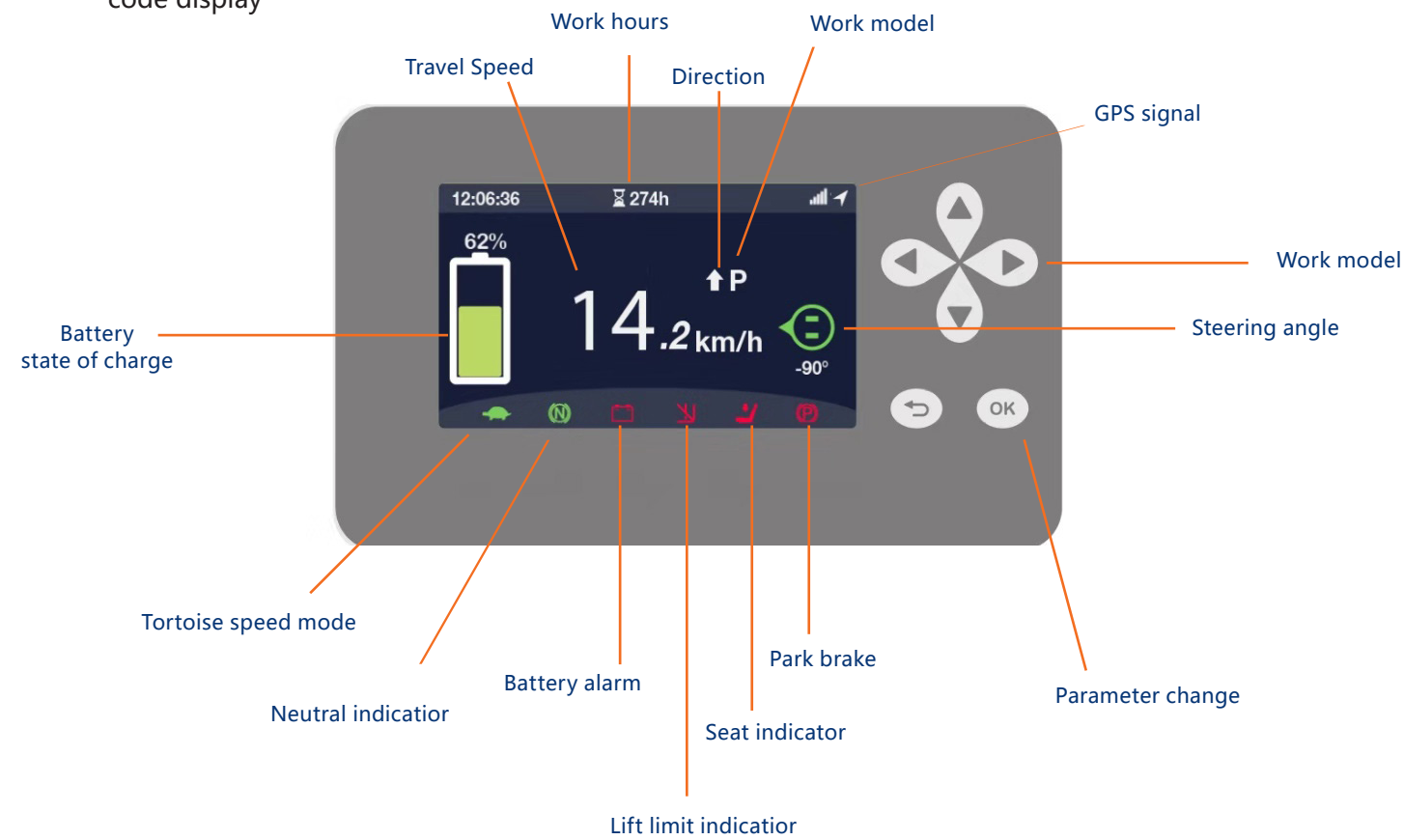
Automobile and machinery manufacturing industry



CLEVER

Multi function big screen display, Standard with fleet management system better for fleet manage.

- 4 inch Multi function big screen display have work model seting、forklift Status monitoring and error code display



FLEET MANAGEMENT SYSTEM

Internet of things is applied to the forklift, status monitoring, forklifts remote control and diagnosis, forklifts tracking, help customers with intelligent management.

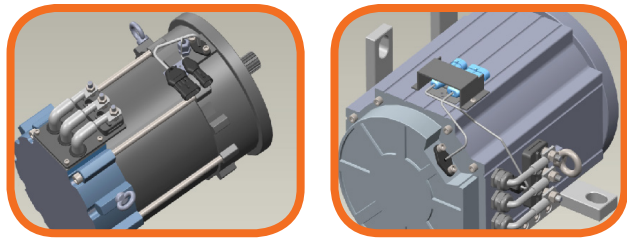
FORKLIFT GPS POSITIONING	REMOTE FAULT DIAGNOSIS	REMOTE DATA MONITORING	MAINTENANCE REMINDER
WORK REPORT MANAGEMENT	AUTHENTICATION AND AUTHORITY CONTROL (OPTIONAL)	REMOTE SPEED LIMIT, REMOTE LOCKING	

CAREFREE

Full AC maintenance free motor, Electrical wiring waterproof design, Mature and reliable core components, Global service network.

FULL AC MAINTENANCE FREE MOTOR

- No carbon brush and maintenance free for whole life;
- Motors have temperature protection function,will not be burn out.



ELECTRICAL WIRING WATERPROOF DESIGN

- AMP waterproof connector,IP 65;
- Controller protect degree IP65;
- Key covering parts sealed with waterproof rubber strips;
- Passed the severe rain test and meets the requirements of working in light rain.



Rain Test

MATURE AND RELIABLE CORE COMPONENTS

- Transmission mature use over 20thousand hours.
- Controller service life over 20 thousand.
- Gear pump life over 12 thousand hours.
- Accelerator use Contactless Hall sensor,service life over 500 thousand.

GLOBAL SERVICE NETWORK

- More than 130 countries and regions
- 11 Sub corporation (3 Forklift factory)
- 7 Part centre





SAFETY

OPS system, Low center of gravity design, large brake, turning speed automatic limit function, the vehicle is safer.

OPS OPERATOR PRESENCE SENSING SYSTEM

- After the driver leaves the seat, the travel was locked
- After the driver leaves the seat, lift and tilt function was lock
- After the driver leaves the seat, down function was lock.(Option)



BIG BRAKE SHOSE STRONG BRAKING ABILITY

- Use same brake shose with IC forklift,brake friction area is bigger about 30% than small tire.Brake distance is shorter.



LOW CENTER OF GRAVITY DESIGN

- The battery sinks completely.
- Counter balance weight low center of gravity design.
- Low center of gravity, safer driving.



Battery sink down

TURNING SPEED AUTOMATIC LIMIT FUNCTION

- Controller monitor steering angle,limit speed according to steering angle,higher driving safety.



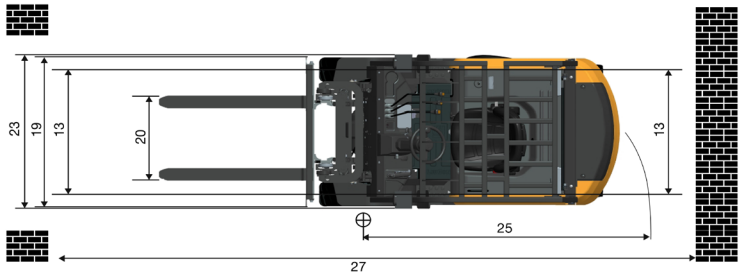
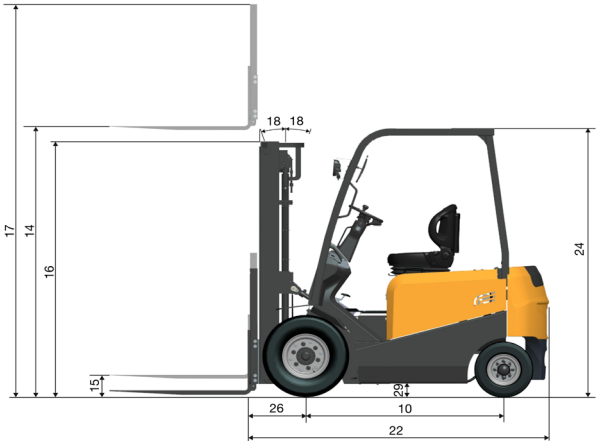
SPECIFICATION

General	Model	1			CLGA20-S/C	CLGA25-S/C	CLGA30-S/C	CLGA35-S/C
	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	3675	4080	4860	5260
	Axle Load	6	loaded / unloaded, front	kg	4995/1735	5850/1815	6980/2220	7770/2280
		7	loaded / unloaded, rear	kg	680/1940	730/2265	880/2640	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	with 2-stage / full-free 3-stage mast	mm	3000	3000	3000	3000
	Free lift	15	with 2-stage / full-free 3-stage mast	mm	110	110	80	80
	Height, Upright Lowered	16	with 2-stage / full-free 3-stage mast	mm	2090	2090	2083	2083
	Height, Upright Extended	17	with 2-stage / full-free 3-stage mast	mm	4040	4040	4143	4143
	Mast Tilt, Fwd/Back	18	with 2-stage / full-free 3-stage mast	deg	6/12	6/12	6/12	6/12
	Carriage	19	width	mm	1040	1040	1100	1100
	Fork Spread	20	minimum / maximum	mm	222/1010	222/1010	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	460	471	476
	Right Angle Stack	27	add load length and clearance	mm	3775	3780	3975	4060
	Ground Clearance	28	minimum loaded	mm	120	120	140	140
		29	center of wheelbase	mm	85	85	155	155
	Battery Compartment	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	14/15	14/15	15/15.5	15/15.5
	Lift Speed	32	loaded / unloaded	m/s	0.30/0.45	0.30/0.45	0.30/0.45	0.26/0.45
	Lower Speed	33	loaded / unloaded	m/s	≤0.55/ (0.30≤~≤0.60)	≤0.55/ (0.30≤~≤0.60)	0.44/0.43	0.44/0.43
	Max. Drawbar Pull	34	loaded	kg	1170/220	1620/355	1633/336	1531/336
	Max. Gradeability	35	loaded / unloaded	%	15/20	15/20	15	12
Systems	Controllers	36	manufacturer		AC/AC	AC/AC	AC/AC	AC/AC
		38	drive output (60 min. rating)	kw	11	11	12	12
		39	hydraulic output (15 min. rating)	kw	11	11	13	13
	Battery	40	type		lead-acid	lead-acid	lead-acid	lead-acid
		41	voltage	V	48	48	80	80
		42	standard capacity (5 hour rating)	Ah	560	560	500	500
		43	weight, minimum / maximum	kg	900/1200	900/1200	1440/1740	1440/1740



CAPACITY

Mast type	Maximum Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Freee Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity				Total Weight with Standard Forks	
					With Standard Forks		With Sideshifter			
						CLGA20-S	CLGA25-S	CLGA20-S	CLGA25-S	CLGA20-S
Standard 2-Stage	mm	mm	mm	°	kg @ (500mm)		kg @ (500mm)		Kg	
	2000	1740	110	6 / 10	2000	2500	1850	2300	3606	4011
	2300	1690	110	6 / 12	2000	2500	1850	2300	3626	4031
	2500	1840	110	6 / 12	2000	2500	1850	2300	3641	4046
	2700	1940	110	6 / 12	2000	2500	1850	2300	3655	4060
	3000	2090	110	6 / 12	2000	2500	1850	2300	3675	4080
	3300	2240	110	6 / 12	2000	2500	1850	2300	3696	4101
	3500	2340	110	6 / 12	2000	2500	1850	2300	3709	4114
4000	2640	110	6 / 12	1890	2390	1700	2190	3783	4188	
Mast type	Maximum Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Freee Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity				Total Weight with Standard Forks	
					With Standard Forks		With Sideshifter			
						CLGA20-S	CLGA25-S	CLGA20-S	CLGA25-S	CLGA20-S
Full Free 2-Stage	mm	mm	mm	°	kg @ (500mm)		kg @ (500mm)		Kg	
	2700	1940	860	6 / 12	2000	2500	1850	2300	3683	4088
	3000	2090	1010	6 / 12	2000	2500	1850	2300	3705	4110
	3300	2240	1160	6 / 12	2000	2500	1850	2300	3727	4132
	3500	2340	1260	6 / 12	2000	2500	1850	2300	3742	4147
	4000	2640	1560	6 / 6	1890	2390	1700	2190	3807	4212
Mast type	Maximum Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Freee Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity				Total Weight with Standard Forks	
					With Standard Forks		With Sideshifter			
						CLGA20-S	CLGA25-S	CLGA20-S	CLGA25-S	CLGA20-S
Full Free 3-Stage	mm	mm	mm	°	kg @ (500mm)		kg @ (500mm)		Kg	
	4500	2130	1070	6 / 6	1700	2100	1500	1900	3890	4295
	4700	2200	1140	6 / 6	1620	1900	1420	1700	3906	4311
	4800	2230	1170	6 / 6	1580	1800	1380	1600	3914	4319
	5000	2300	1240	3 / 6	1500	1600	1300	1400	3928	4333
	5500	2520	1640	3 / 6	1200	1300	1000	1100	3995	4400
	6000	2680	1620	3 / 6	900	1000	700	800	4032	4437



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	CLGA35-S	CLGA30-S	CLGA35-S	CLGA30-S
Standard 2-Stage	mm	mm	mm	°	kg @ (500mm)		kg @ (500mm)		Kg	
	3000	2120	80	6 / 12	3000	3500	2750	3250	4800	5200
	3300	2270	80	6 / 12	3000	3450	2750	3200	4826	5226
	3500	2370	80	6 / 12	2750	3250	2600	3100	4849	5249
	4000	2670	80	6 / 6	2600	3100	2500	3000	4939	5339
	4500	2920	80	6 / 6	2400	2900	2300	2800	4983	5383
	5000	3220	80	3 / 6	2200	2700	2100	2600	5027	5427
	5500	3670	80	3 / 6	2100	2600	2000	2500	5080	5480
6000	4020	80	3 / 6	2000	2500	1900	2400	5125	5525	
Mast type	Maximu Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Free Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity				Total Weight withStandard Forks	
					With Standard Forks		With Sideshifter			
						CLGA30-S	CLGA35-S	CLGA30-S	CLGA35-S	CLGA30-S
Full Free 2-Stage	mm	mm	mm	°	kg @ (500mm)		kg @ (500mm)		Kg	
	2500	1870	714	6 / 12	2500	3000	2250	2750	4800	5200
	3000	2120	964	6 / 12	3000	3500	2750	3250	4840	5240
	3500	2370	1214	6 / 12	2750	3250	2600	3100	4889	5289
Mast type	Maximu Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Freee Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity				Total Weight with Standard Forks	
					With Standard Forks		With Sideshifter			
						CLGA30-S	CLGA35-S	CLGA30-S	CLGA35-S	CLGA30-S
Full Free 3-Stage	mm	mm	mm	°	kg @ (500mm)		kg @ (500mm)		Kg	
	3600	1815	659	6/6	2650	3150	2450	2950	5025	5425
	4000	1950	794	6/6	2450	2950	2250	2750	5060	5460
	4500	2120	964	6/6	2250	2750	2050	2550	5100	5500
	4700	2190	1034	6/6	2100	2600	1950	2350	5120	5520
	5000	2295	1134	3/6	1900	2400	1600	2100	5270	5670
	5500	2450	1304	3/6	1700	2200	1450	1950	5450	5850
6000	2630	1474	3/6	1500	2000	1300	1800	5500	5900	

