

CLGA20~35-S

C series battery forklift



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LG-C-SERIES 042020-ENG

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TOUGH WORLD. TOUGH EQUIPMENT.

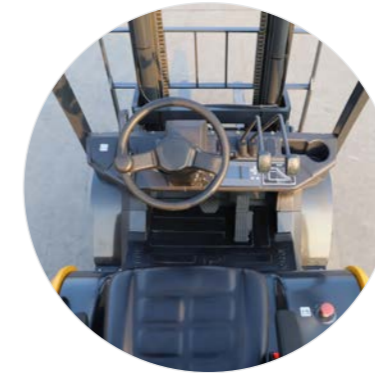
COMFORTABLE

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



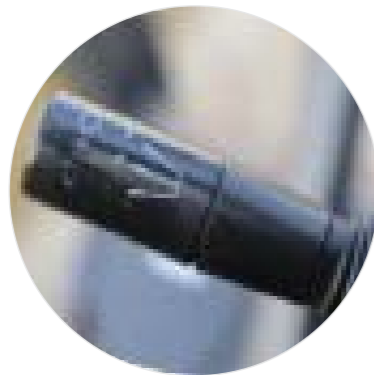
ADJUSTABLE STEERING COLUMN

- 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.



BACK HANDLE (OPTION)

- Back handle with horn switch.



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 adjust , arm adjust full spension seat.



INSTRUMENT

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



CONTROL OPTIMIZATION DESIGN

- New handle, reduced operating force 15%.

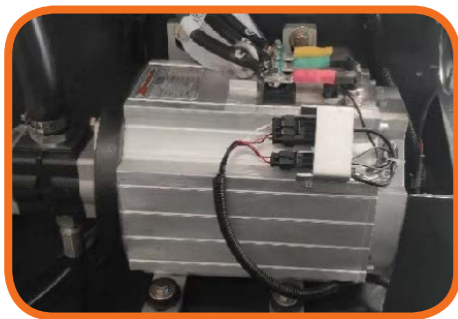


CAPABLE

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

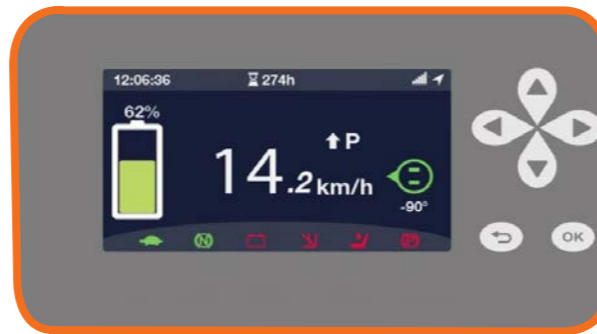
FULL AC MAINTENANCE FREE MOTOR

- 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).



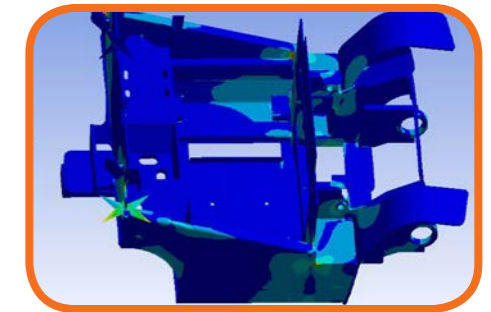
LED LIGHT

- 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

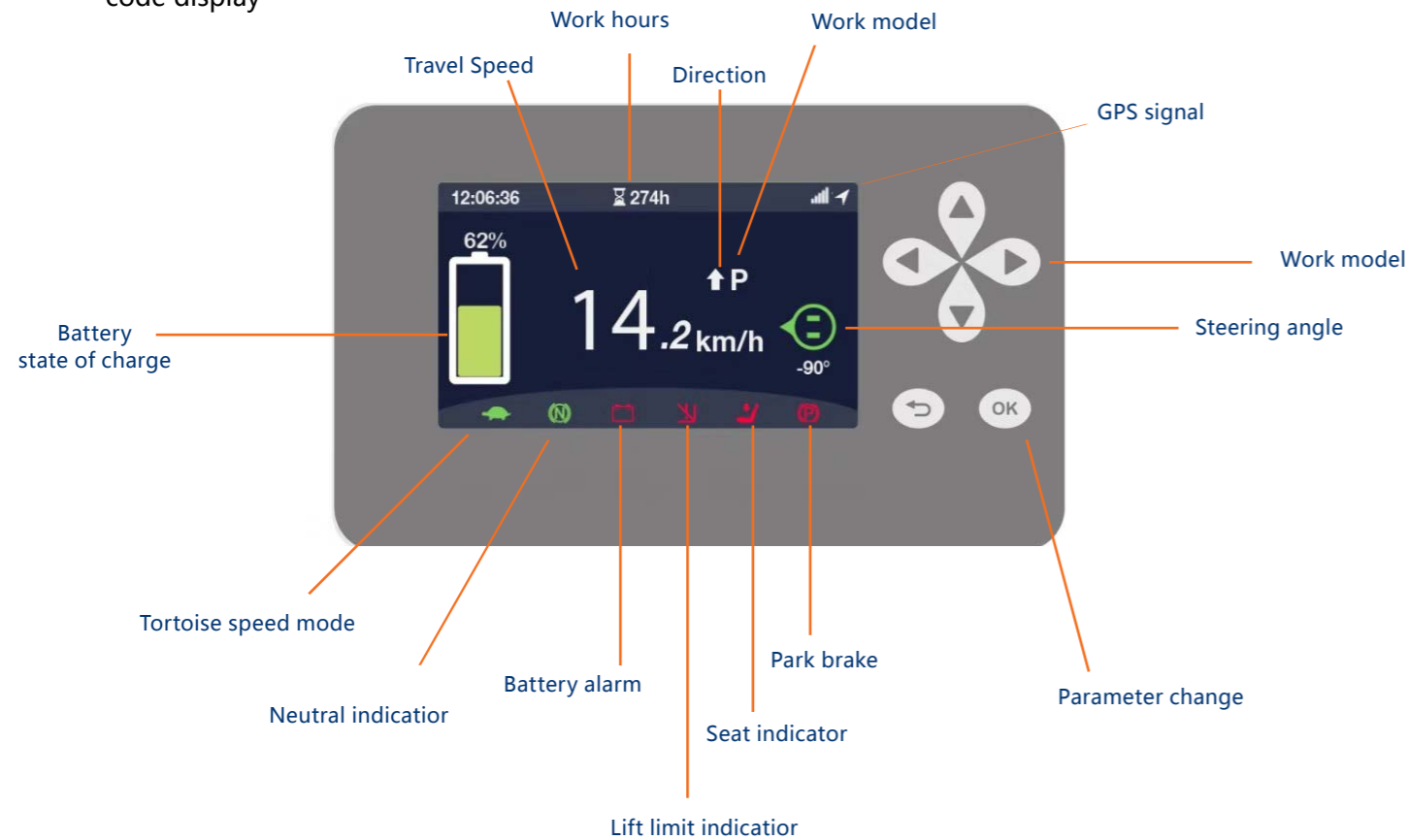


Automobile and machinery manufacturing industry

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)

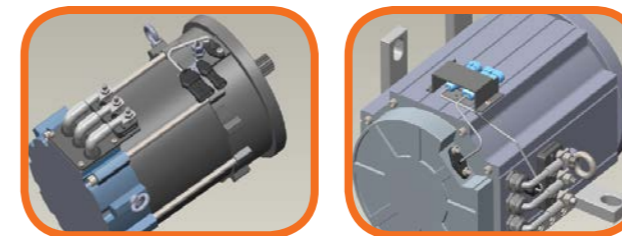
REMOTE SPEED LIMIT, REMOTE LOCKING

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 20 thousand 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).



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

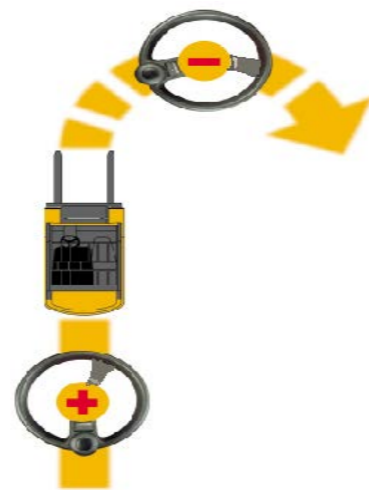
BIG BRAKE SHOES, STRONG BRAKING ABILITY

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



TURNING SPEED AUTOMATIC LIMIT FUNCTION

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



SPECIFICATION

| | | | CLGA20-S | CLGA25-S | CLGA30-S | CLGA35-S | | | |
|-------------------|--------------------------|---------------------|---------------------------------------|-------------------|-----------------|-----------------|--------------|--------------|-----------------|
| | Model | 1 | | | | | | | |
| General | 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 | |
| | Service Weight | 5 | unloaded | kg | 3650 | 4100 | 4860 | 5260 | |
| Weights | Axle Load | 6 | loaded / unloaded, front | kg | 5000/1770 | 5850/1780 | 6980/2220 | 7800/2280 | |
| | | 7 | loaded / unloaded, rear | kg | 650/1880 | 750/2320 | 880/2640 | 960/2980 | |
| | Tire Type | 8 | | | cushion | cushion | cushion | cushion | |
| Tires | Wheels | 9 | front / rear | | 2 / 2 | 2 / 2 | 2/2 | 2/2 | |
| | Wheelbase | 10 | | mm | 1542 | 1542 | 1700 | 1700 | |
| | Tire Size | 11 | front | | 7.00-12-12PR | 7.00-12-12PR | 28x9-15 | 23x9-10-16PR | |
| | | 12 | rear | | 18x7-8-14PR | 18x7-8-14PR | 6.5-10 | 6.5-10-10PR | |
| | Tread Width | 13 | front / rear | | 966/880 | 966/880 | 1005/980 | 1005/980 | |
| 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 | 60 | |
| | 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 | 4005 | 4005 | 4143 | 4143 | |
| | Mast Tilt, Fwd/Back | 18 | with 2-stage / full-free 3-stage mast | o | 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 100 x 1070 | 45 x 100 x 1070 | 45x122x1070 | 50x122x1070 | |
| Chassis | Length to Fork Face | 22 | with 2-stage / full-free 3-stage mast | mm | 2350 | 2355 | 2593 | 2593 | |
| | Overall Width | 23 | | mm | 1150 | 1150 | 1264 | 1264 | |
| | Overhead Guard Height | 24 | | mm | 2160 | 2160 | 2215 | 2215 | |
| | Turning Radius | 25 | minimum outside | mm | 2050 | 2050 | 2375 | 2375 | |
| | Fork Overhang | 26 | with 2-stage / full-free 3-stage mast | mm | 455 | 460 | 471 | 471 | |
| | Right Angle Stack | 27 | add load length and clearance | mm | 3775 | 3780 | 4116 | 4116 | |
| | Ground Clearance | 28 | minimum loaded | mm | 100 | 100 | 122 | 122 | |
| | | 29 | center of wheelbase | mm | 85 | 85 | 176 | 176 | |
| | Performance | Travel Speed | 30 | loaded / unloaded | mm | 570*1028*780 | 570*1028*780 | 680x1138x790 | 680x1138x790 |
| | | Lift Speed | 31 | loaded / unloaded | km/h | 14/15 | 14/15 | 15/15.5 | 15/15 |
| Lower Speed | | 32 | loaded / unloaded | m/s | 0.30/0.45 | 0.30/0.45 | 300/450 | 260/450 | |
| Max. Drawbar Pull | | 33 | loaded | m/s | 0.52/0.48 | 0.52/0.48 | 0.46/0.4 | 0.46/0.4 | |
| Max. Gradeability | | 34 | loaded / unloaded | kg | 1170 | 1550 | 1633 | 1531 | |
| Systems | | Brakes | 35 | service | kg | 220 | 355 | 336 | 336 |
| | 36 | | parking | % | 15 | 15 | 15 | 12 | |
| | Engine | manufacturer | 37 | | | Inmotion, AC | Inmotion, AC | AC/AC | AC/AC |
| | | model | 38 | | kw | 8 | 10 | 12 | 12 |
| | | emission compliance | 39 | | kw | 11 | 11 | 13 | 13 |
| | | cylinders | 40 | | | Lead Acid | Lead Acid | Lead Acid | Lithium battery |
| | | displacement | 41 | | V | 48 | 48 | 80 | 80 |
| | | rated power | 42 | | Ah | 560 | 560 | 500 | 356 |
| | | Max. torque | 43 | | kg | 930/1200 | 930/1200 | 1440/1740 | 1440/1740 |

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 | CLGA25-s | CLGA20-s | CLGA25-s | CLGA20-s | CLGA25-s |
| | mm | mm | mm | ° | kg @ (500mm) | | kg @ (500mm) | | Kg | |
| Standard 2-Stage | 2000 | 1580 | 140 | 6 / 10 | 2000 | 2500 | 1850 | 2350 | 3580 | 4030 |
| | 2500 | 1830 | 140 | 6 / 12 | 2000 | 2500 | 1850 | 2350 | 3615 | 4065 |
| | 3000 | 2080 | 140 | 6 / 12 | 2000 | 2500 | 1850 | 2350 | 3650 | 4100 |
| | 3300 | 2230 | 140 | 6 / 12 | 2000 | 2500 | 1850 | 2350 | 3670 | 4120 |
| | 3500 | 2330 | 140 | 6 / 12 | 2000 | 2500 | 1850 | 2350 | 3685 | 4135 |
| | 4000 | 2630 | 140 | 6 / 6 | 2000 | 2300 | 1750 | 2150 | 3795 | 4245 |
| | 4500 | 2880 | 140 | 6 / 6 | 1920 | 2100 | 1650 | 1950 | 3900 | 4350 |
| | 5000 | 3130 | 140 | 3 / 6 | 1660 | 1900 | 1450 | 1750 | 4005 | 4455 |

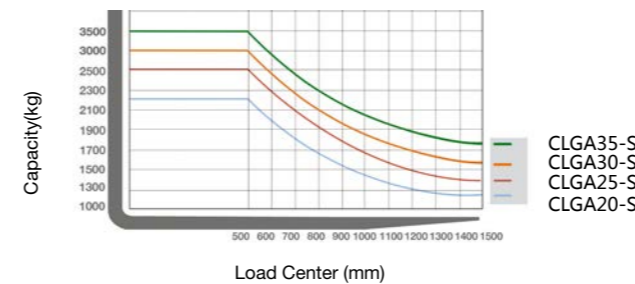
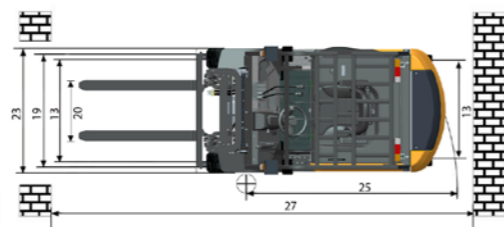
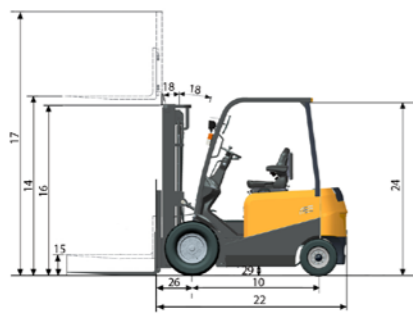
| Mast type | Maximum Fork Height (MFH) | Mast Overall Lowered Height (OAL) | Free Lift with Load Backrest | Mast Tilt Angle (F/B) | Rated Load Capacity | | | | Total Weight with Standard Forks | |
|-------------------|---------------------------|-----------------------------------|------------------------------|-----------------------|---------------------|----------|------------------|----------|----------------------------------|----------|
| | | | | | With Standard Forks | | With Sideshifter | | | |
| | | | | | CLGA20-s | CLGA25-s | CLGA20-s | CLGA25-s | CLGA20-s | CLGA25-s |
| | mm | mm | mm | ° | kg @ (500mm) | | kg @ (500mm) | | Kg | |
| Full Free 3-Stage | 2700 | 1930 | 830 | 6 / 12 | 2000 | 2500 | 1850 | 1850 | 3645 | 4095 |
| | 3000 | 2080 | 980 | 6 / 12 | 2000 | 2500 | 1850 | 2350 | 3680 | 4130 |
| | 3300 | 2230 | 1130 | 6 / 12 | 2000 | 2500 | 1850 | 2350 | 3700 | 4150 |
| | 3500 | 2330 | 1230 | 6 / 12 | 2000 | 2500 | 1850 | 2350 | 3760 | 4210 |
| | 4000 | 2630 | 1530 | 6 / 6 | 2000 | 2300 | 1750 | 2150 | 3825 | 4225 |

| 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 | CLGA25-s | CLGA20-s | CLGA25-s | CLGA20-s | CLGA25-s |
| | mm | mm | mm | ° | kg @ (500mm) | | kg @ (500mm) | | Kg | |
| Full Free 3-Stage | 3600 | 1820 | 781 | 6 / 6 | 1800 | 2300 | 1650 | 2150 | 3875 | 4325 |
| | 4000 | 1950 | 911 | 6 / 6 | 1800 | 2150 | 1650 | 2000 | 3910 | 4360 |
| | 4300 | 2050 | 1011 | 6 / 6 | 1800 | 2100 | 1650 | 1950 | 3940 | 4390 |
| | 4500 | 2120 | 1081 | 6 / 6 | 1700 | 2000 | 1550 | 1850 | 3960 | 4410 |
| | 4700 | 2190 | 1151 | 6 / 6 | 1500 | 1900 | 1350 | 1750 | 3970 | 4420 |
| | 5000 | 2290 | 1251 | 3 / 6 | 1500 | 1800 | 1350 | 1650 | 4120 | 4570 |
| | 5500 | 2380 | 1341 | 3 / 6 | 1200 | 1500 | 1050 | 1350 | 4300 | 4750 |
| | 6000 | 2540 | 1501 | 3 / 6 | 900 | 1200 | 750 | 1050 | 4350 | 4800 |

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|------------------|---------------------------|-----------------------------------|------------------------------|-----------------------|---------------------|----------|------------------|----------|----------------------------------|----------|
| | | | | | With Standard Forks | | With Sideshifter | | | |
| | | | | | CLGA30-s | CLGA35-s | CLGA30-s | CLGA35-s | CLGA30-s | CLGA35-s |
| | mm | mm | mm | ° | kg @ (500mm) | | kg @ (500mm) | | Kg | |
| Standard 2-Stage | 2000 | 1560 | 80 | 6/12 | 3000 | 3500 | 2750 | 3250 | 4702 | 4492 |
| | 2300 | 1710 | 80 | 6/12 | 3000 | 3500 | 2750 | 3250 | 4728 | 4718 |
| | 2500 | 1810 | 80 | 6/12 | 3000 | 3500 | 2750 | 3250 | 4751 | 4951 |
| | 2700 | 1910 | 80 | 6/12 | 3000 | 3500 | 2750 | 3250 | 4774 | 4974 |
| | 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 | 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 | CLGA35-s |
| | mm | mm | mm | ° | kg @ (500mm) | | kg @ (500mm) | | Kg | |
| Full Free 3-Stage | 3000 | 2120 | 964 | 6 / 12 | 3000 | 3500 | 2750 | 3250 | 4840 | 5240 |
| | 3500 | 2370 | 1214 | 6 / 12 | 2750 | 3250 | 2600 | 3100 | 4889 | 5289 |

| 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 | CLGA35-s |
| | mm | mm | mm | ° | kg @ (500mm) | | kg @ (500mm) | | Kg | |
| Full Free 3-Stage | 3600 | 1815 | 659 | 6/6 | 2650 | 3150 | 2450 | 2950 | 5025 | 5460 |
| | 4000 | 1950 | 794 | 6/6 | 2450 | 2950 | 2250 | 2750 | 5060 | 5500 |
| | 4500 | 2120 | 964 | 6/6 | 2250 | 2750 | 2050 | 2550 | 5100 | 5520 |
| | 4700 | 2190 | 1034 | 6/6 | 2100 | 2600 | 1950 | 2350 | 5120 | 5670 |
| | 5000 | 2295 | 1134 | 3/6 | 1900 | 2400 | 1600 | 2100 | 5270 | 5850 |
| | 5500 | 2450 | 1304 | 3/6 | 1700 | 2200 | 1450 | 1950 | 5450 | 5900 |
| | 6000 | 2630 | 1474 | 3/6 | 1500 | 2000 | 1300 | 1800 | 5500 | 4750 |
| | 6000 | 2540 | 1501 | 3 / 6 | 900 | 1200 | 750 | 1050 | 4350 | 4800 |



Note:
Vertical axle stands for load capacity while horizontal axle stands for load center, Load center is the distance counted from the front of the fork. The base point of the standard load is the center point of the cubic with the same 1000mm(39.4in) dimension in length, width and height. The load capacity should be down if mast tilt forward or using non-standard forks of loading goods with extra width. Please realize the different load capacity between different load centers according to load chart.