

CHL

PREMIUM

**CPD15/16/
18/20SQ**
A2LiG3-M

| Configurations | | |
|--------------------------------------|---|---|
| For safety | Steering speed limit | ● |
| | Reverse handle with horn | ● |
| | OPS | ● |
| | Safety protecting function of multiway valve overload | ● |
| | Reverse buzzer | ● |
| | Upper buffering | ● |
| | Central wide-angle rearview mirror | ● |
| | Rearview mirrors on two sides | ○ |
| | Front protective net | ○ |
| | Seat with safety belt | ○ |
| | Dry powder fire extinguisher (0.5kg) | ○ |
| | Dry powder fire extinguisher (2kg) | ○ |
| | Reverse Chinese voice speaker | ○ |
| | Reversing parking sensor (4 probes) | ○ |
| Reversing image(1 camera+ 4 probes) | ○ | |
| For driving comfort | Semi-enclosed seat | ● |
| | USB (5V/1A) | ● |
| | Steering with steering wheel start | ● |
| | Mechanical operation valve | ● |
| | Colorful instrument | ○ |
| | Full suspension seat | ○ |
| | Electromagnetic operated valve | ○ |
| | Fan | ○ |
| | Heater | ○ |
| | Panel mounted cab | ○ |
| | Front windshield | ○ |
| For cab/windshield | Rear windshield | ○ |
| | Top windshield | ○ |
| | LED lights | ● |
| For lighting | LED flickering warning lights | ● |
| | LED rear working light | ○ |
| | LED red/blue rear working light | ○ |
| | Red/blue strip lights on rear and bilateral sides | ○ |
| | LED rotating warning light | ○ |
| | LED rotating and beep warning light | ○ |
| | Metric thread | ● |
| Others | Solid tyre | ● |
| | Solid tyre without travelling marking | ○ |
| | Sleeve for tilting cylinder | ○ |
| | FCIS | ● |


Note: "●" standard; "○" optional;




LIION 1.5-2 t
G3 series front wheel dual drive
lithium battery truck (three wheel)




POWERFUL AND FLEXIBLE

 Comfort and energy saving

 Stable and Reliable

 Intelligent security

 Convenient maintenance

APPEARANCE

The appearance is grand and the colors are beautiful; The performance is excellent.

COMFORTABLE AND ENERGY-SAVING

The truck provides users with the best comfortable driving experience. The truck adopts advanced energy-saving technologies for a greener and more environmentally friendly environment

G3 series family design elements

Sheet metal stamping type side cover, side door

Wide view mast
Optimized mast improves lateral stability.

Mobile phone and water cup holder offer convenient storage.

Optimized mast improves lateral stability.

The steering wheel is sensitive, lightweight, precise, and power-saving when starting and turning.

The steering wheel is optimized with height reduction
And structure improving;
Adjustable angle; Comfortable operation

Color screen instrument

PES third gear adjustment

| | | |
|---|---------------|--|
| P | Powerful | } Multi performance modes satisfy the needs of various working conditions. |
| E | Economical | |
| S | Energy-saving | |

FRONT WHEEL DUAL DRIVE MOTORS PROVIDE MORE POWER



Strong performance:
The truck is equipped with ZF dual motor drive unit.

- 
16km/h
Driving speed
- 
20%
Maximum gradeability with load
- 
0.45m/s
Maximum lifting speed with load

- 
Good bearing capacity at high position
- 
0.6m/s
Maximum lifting speed without load

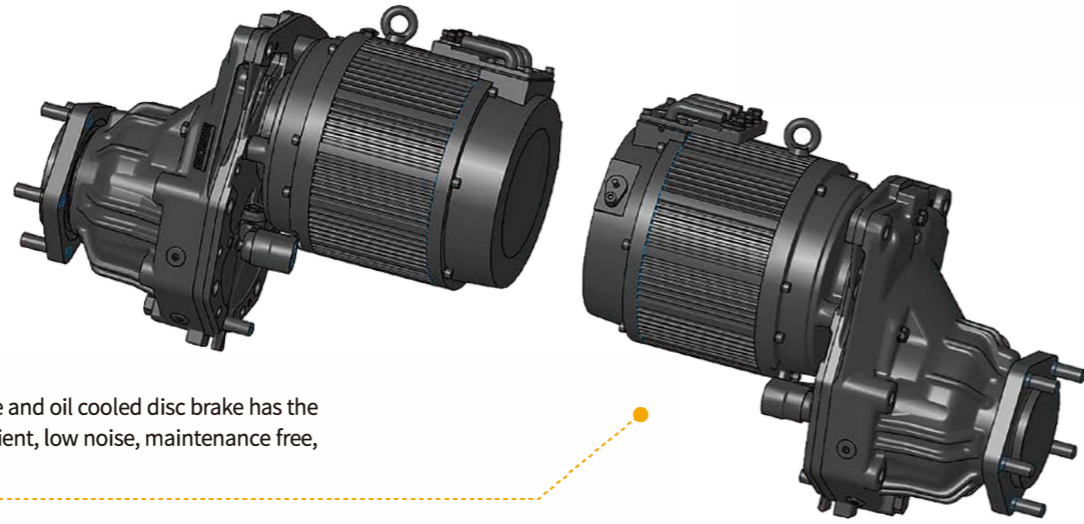
The truck has small turning radius and good passability.



The minimum turning radius is as low as 1515mm

TABLE AND RELIABLE

The product is designed with the concept of stability and reliability, and has undergone multiple rigorous tests and verifications.



Wet type service brake and oil cooled disc brake has the characteristics of efficient, low noise, maintenance free, and reliable.



National standard fast charging port supports up to 200A fast charging



The entire truck and its components meet the latest CE & UKCA requirements.

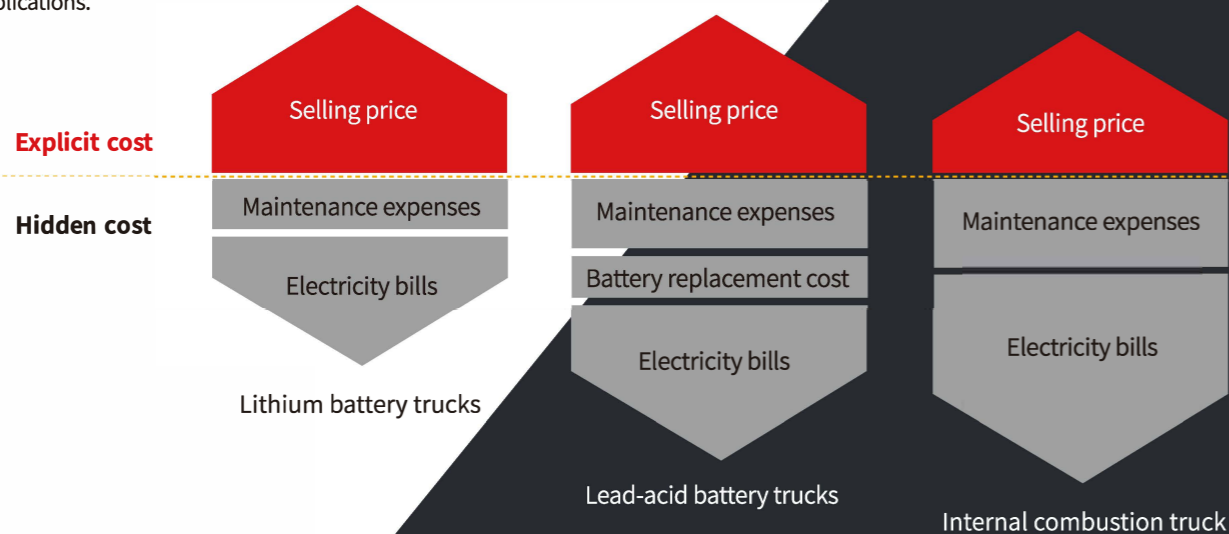


Ratchet type hand brake is safe and reliable.

OPERATING COSTS:

Lithium battery forklift truck **VS** Lead-acid battery forklift truck **VS** internal combustion forklift truck

The superiority of lithium battery forklift is more prominent in its cost of use throughout its lifecycle. Compared with lead-acid battery truck and internal combustion truck, lithium battery truck are more cost-effective due to their maintenance free and high energy conversion rates. Compared to internal combustion trucks, lithium battery trucks have advantages such as no noise, no pollution, low vibration, and simple operation. Lithium battery trucks have the characteristics of fast charging and on-demand charging compared to lead-acid battery trucks, making them more suitable for multi shift work applications.



STRICT TEST

Rain test, reliability enhancement test, vibration test, bumps test



Rain test

the truck reaches to IPX4 protection level after simulating operation under 15 min rainstorm and it meets outdoor operation requirements.



Vibration test

Conduct vibration frequency testing on the truck to optimize and improve operational comfort.



Cold storage test

The whole truck was operated alternately in a -20 °C cold storage for 6 hours, and parked in the cold storage for 12 hours. The whole truck has no faults and could operate continuously

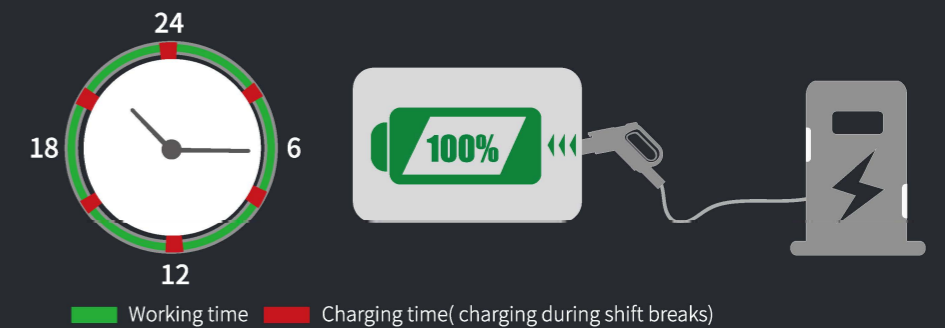


Reliability enhancement test

The truck undergoes 800 hours of enhancement test (including climbing, rain exposure, bumpy road surfaces, etc.).

FAST CHARGING AND ULTRA LONG BATTERY LIFE

- The truck is standard equipped with 202Ah lithium battery which has ultra long battery life.
- The battery satisfies uninterrupted operation during all day.
- The 2t truck model can be equipped with a maximum optional 404Ah lithium battery.



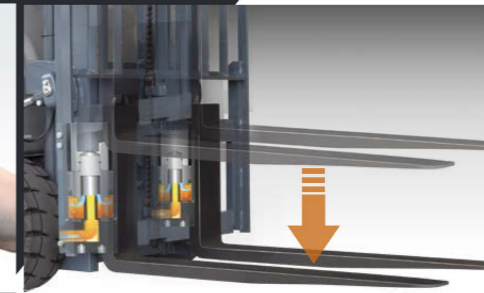
INTELLIGENT SAFETY

The product is designed with intelligent security as its core and has multiple advanced security technologies.

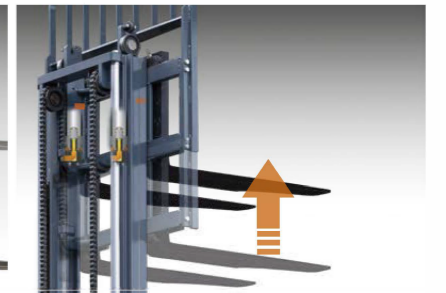
- Electric brake and wet type brake offer dual protections.
- Intelligent differential speed of left and right motors
- Hydraulic pipeline anti-burst protection, forward tilt self-locking protection
- Electrical multiple protection: dual wire system, short circuit protection, overheating protection, low battery protection, sequential protection
- Parking safety reminder
- Slope sliding reminder
- Reverse handle with horn



The integrated card swiping function of the instrument meets the requirements of TSG 81.

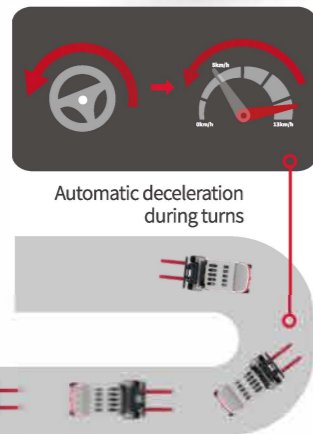


Mast lowering buffer



Mast lifting buffer

- Dual core controller
- Automatic deceleration for steering
- OPS



OPS (operator presence system) **Unmanned self-locking Intelligent protection**



The hydraulic oil tank is located on the left side for easy filling and checking.



Maintenance-free steering axle

Intelligent Fleet Management System (Standard Domestic Basic Edition)

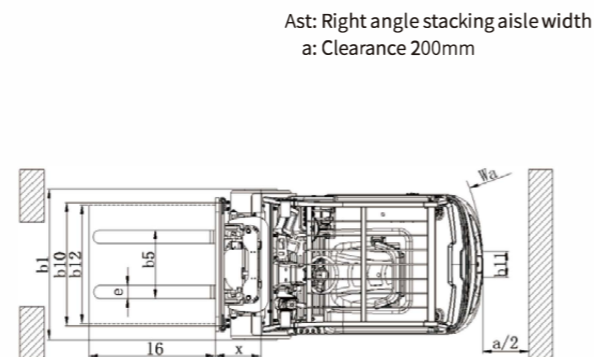
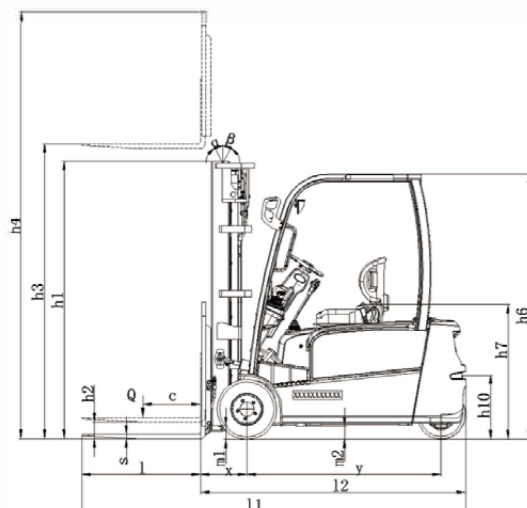
| | |
|--------------------|---------------------------------|
| Truck positioning | Statistics report |
| Remote diagnosis | Truck management |
| Remote monitoring | Identity recognition |
| Maintenance remind | Weighing management (optional) |
| Battery management | Collision management (optional) |



EASY MAINTENANCE
Time-saving, convenient and efficient

Manufacturer and Technical Data

| Characteristics | | | | | |
|----------------------|---|-------|----------|----------------------|----------------------------------|
| 1.01 | Manufacturer | | | | CHL PREMIUM |
| 1.02 | Model | | CPD15SQ | CPD16SQ | CPD18SQ CPD20SQ |
| 1.03 | Configuration number | | A2LiG3-M | A2LiG3-M | A2LiG3-M A2LiG3-M |
| 1.04 | Rated capacity | Q | kg | 1500 | 1600 1800 2000 |
| 1.05 | Load center distance | c | mm | 500 | |
| 1.06 | Power mode | | | Lithium Battery | |
| 1.07 | Driving mode | | | seated | |
| 1.08 | Front overhang | x | mm | 367 | 367 367 372 |
| 1.09 | Wheelbase | y | mm | 1292 | 1292 1292 1400 |
| Weight | | | | | |
| 2.01 | Total weight (with/without battery) | | kg | 2930/2650 | 3030/2750 3180/2900 3240/2960 |
| 2.02 | Axle load (laden,front/rear) | | kg | 3870/560 | 4035/595 4375/605 4600/640 |
| 2.03 | Axle load (unladen,front/rear) | | kg | 1365/1565 | 1360/1670 1365/1815 1360/1800 |
| Tyres | | | | | |
| 3.01 | Tyre type | | | Solid tyre | Solid tyre Solid tyre Solid tyre |
| 3.02 | Tyre size,front | | | 18×7-8 | 18×7-8 200/50-10 200/50-10 |
| 3.03 | Tyre size,rear | | | 140/55-9 | |
| 3.04 | Wheels,number front/rear(x=driven wheels) | | | 2×/2 | |
| 3.05 | Tread, front | b10 | mm | 920 | 920 930 930 |
| 3.06 | Tread, rear | b11 | mm | 205 | |
| Dimensions | | | | | |
| 4.01 | Mast tilt angle (forward/backward) | α/β | ° | 5/7 | |
| 4.02 | Height (mast lowered) | h1 | mm | 2000 | 2000 2000 2000 |
| 4.03 | Free lifting height | h2 | mm | 105 | 105 105 110 |
| 4.04 | Lifting height (standard) | h3 | mm | 3000 | |
| 4.05 | Max. height,extended (with backrest) | h4 | mm | 4038 | |
| 4.06 | Height of overhead guard | h6 | mm | 2040 | |
| 4.07 | Seat height relating to SIP (to ground) | h7 | mm | 1042 | |
| 4.08 | Towing coupling height | h10 | mm | 482 | |
| 4.09 | Overall length (with fork) | l1 | mm | 2820 | 2835 2865 2983 |
| 4.10 | Overall length (without fork) | l2 | mm | 1900 | 1915 1945 2063 |
| 4.11 | Overall width | b1 | mm | 1076 | 1076 1120 1120 |
| 4.12 | Fork size:thickness x width x length | s/e/l | mm | 35×100×920 | 35×100×920 35×100×920 40×122×920 |
| 4.13 | Fork carriage,according to ISO2328 | | | 2A | |
| 4.14 | Distance across fork-arms, Max./Min. | b5 | mm | 960/200 | 960/200 960/200 1030/200 |
| 4.15 | Ground clearance (at mast) | m1 | mm | 90 | |
| 4.16 | Ground clearance (center of wheelbase) | m2 | mm | 100 | |
| 4.17 | Right angle stacking aisle width for pallet1000 x1200mm crossways | Ast | mm | 3200 | 3220 3250 3370 |
| 4.18 | Right angle stacking aisle width for pallet800 x1200mm lengthways | Ast | mm | 3330 | 3350 3380 3500 |
| 4.19 | Min. outside turning radius | Wa | mm | 1515 | 1530 1560 1675 |
| Performance Data | | | | | |
| 5.01 | Travel speed (laden/unladen) | | km/h | 16/16 | 16/16 16/16 16/16 |
| 5.02 | Lift speed (laden/unladen) | | mm/s | 450/600 | 430/600 430/600 400/600 |
| 5.03 | Lowering speed (laden/unladen) | | mm/s | 470/500 | |
| 5.04 | Max.drawbar pull (laden) | | N | 13500 | 13500 14000 14000 |
| 5.05 | Max.gradeability (laden/unladen) | | % | 20 | 20 20 20 |
| 5.06 | Acceleration time(10 m)(laden/unladen) | | s | 5.4/5 | 5.4/5 5.4/5 5.4/5 |
| Battery | | | | | |
| 6.01 | Battery voltage/Capacity | | V/Ah | 80/202 | 80/202 80/202 80/202 |
| 6.02 | Battery weight | | kg | 280 | 280 280 280 |
| Motor and controller | | | | | |
| 7.01 | Driving motor powering (S2-60min) | | kW | 5.5×2 | 5.5×2 5.5×2 5.5×2 |
| 7.02 | Lifting motor powering (S3-15%) | | kW | 16.5 | 16.5 16.5 16.5 |
| 7.03 | Driving motor controlling mode | | | MOSFET/AC | |
| 7.04 | Lifting motor controlling mode | | | MOSFET/AC | |
| Addition data | | | | | |
| 8.01 | Service brake/Parking brake | | | Hydraulic/mechanical | |
| 8.02 | Relief pressure | | Mpa | 17.5 | 17.5 22.5 22.5 |



Ast: Right angle stacking aisle width
a: Clearance 200mm

Wide View Standard Mast

| Mast Model | Max lifting height (mm) | Load capacity (lode center 500mm)(kg) | | | | Height (mast lowered)(mm) | Free lift (with backrest) (mm) | | | Service weight (kg) | | | | Mast tilting angle(°)α/β |
|------------|-------------------------|---------------------------------------|------|------|------|---------------------------|--------------------------------|----------|------|---------------------|------|------|-----|--------------------------|
| | | 1.5t | 1.6t | 1.8t | 2t | | 1.5-2t | 1.5-1.8t | 2t | 1.5t | 1.6t | 1.8t | 2t | |
| M200 | 2000 | 1500 | 1600 | 1800 | 2000 | 1500 | 105 | 110 | 2959 | 3148 | 3255 | 3341 | 5/7 | |
| M250 | 2500 | 1500 | 1600 | 1800 | 2000 | 1750 | 105 | 110 | 2992 | 3181 | 3288 | 3374 | 5/7 | |
| M300 | 3000 | 1500 | 1600 | 1800 | 2000 | 2000 | 105 | 110 | 3025 | 3214 | 3321 | 3407 | 5/7 | |
| M330 | 3300 | 1500 | 1600 | 1800 | 2000 | 2150 | 105 | 110 | 3045 | 3234 | 3341 | 3427 | 5/7 | |
| M350 | 3500 | 1500 | 1600 | 1800 | 2000 | 2250 | 105 | 110 | 3058 | 3247 | 3354 | 3440 | 5/7 | |
| M370 | 3700 | 1500 | 1600 | 1800 | 2000 | 2350 | 105 | 110 | 3072 | 3261 | 3368 | 3454 | 5/7 | |
| M400 | 4000 | 1500 | 1600 | 1800 | 2000 | 2550 | 105 | 110 | 3123 | 3312 | 3419 | 3505 | 3/5 | |
| M425 | 4250 | 1500 | 1600 | 1750 | 1900 | 2675 | 105 | 110 | 3140 | 3329 | 3436 | 3522 | 3/5 | |
| M450 | 4500 | 1400 | 1500 | 1700 | 1850 | 2800 | 105 | 110 | 3156 | 3345 | 3452 | 3538 | 3/5 | |
| M500 | 5000 | 1300 | 1400 | 1600 | 1700 | 3050 | 105 | 110 | 3215 | 3404 | 3511 | 3597 | 3/3 | |

Wide View Full Free 2-Stage Mast

| Mast Model | Max lifting height (mm) | Load capacity (lode center 500mm)(kg) | | | | Height (mast lowered)(mm) | Free lift (with backrest) (mm) | | | Service weight (kg) | | | | Mast tilting angle(°)α/β |
|------------|-------------------------|---------------------------------------|------|------|------|---------------------------|--------------------------------|----------|------|---------------------|------|------|-----|--------------------------|
| | | 1.5t | 1.6t | 1.8t | 2t | | 1.5-2t | 1.5-1.8t | 2t | 1.5t | 1.6t | 1.8t | 2t | |
| ZM200 | 2000 | 1500 | 1600 | 1800 | 2000 | 1500 | 477 | 482 | 2953 | 3142 | 3249 | 3335 | 5/7 | |
| ZM250 | 2500 | 1500 | 1600 | 1800 | 2000 | 1750 | 727 | 732 | 2984 | 3173 | 3280 | 3366 | 5/7 | |
| ZM300 | 3000 | 1500 | 1600 | 1800 | 2000 | 2000 | 977 | 982 | 3015 | 3204 | 3311 | 3397 | 5/7 | |
| ZM330 | 3300 | 1500 | 1600 | 1800 | 2000 | 2150 | 1127 | 1132 | 3033 | 3222 | 3329 | 3415 | 5/7 | |
| ZM350 | 3500 | 1500 | 1600 | 1800 | 2000 | 2250 | 1227 | 1232 | 3045 | 3234 | 3341 | 3427 | 5/7 | |
| ZM370 | 3700 | 1500 | 1600 | 1800 | 2000 | 2350 | 1327 | 1332 | 3057 | 3246 | 3353 | 3439 | 5/7 | |
| ZM400 | 4000 | 1500 | 1600 | 1800 | 2000 | 2550 | 1527 | 1532 | 3107 | 3296 | 3403 | 3489 | 3/5 | |

Note: the free lifting height increases by 449mm without backrest.

Wide View Full Free 3-Stage Mast

| Mast Model | Max lifting height (mm) | Load capacity (lode center 500mm)(kg) | | | | Height (mast lowered)(mm) | Free lift (with backrest) (mm) | | | Service weight (kg) | | | | Mast tilting angle(°)α/β |
|------------|-------------------------|---------------------------------------|------|------|------|---------------------------|--------------------------------|----------|------|---------------------|------|------|-----|--------------------------|
| | | 1.5t | 1.6t | 1.8t | 2t | | 1.5-2t | 1.5-1.8t | 2t | 1.5t | 1.6t | 1.8t | 2t | |
| ZSM360 | 3600 | 1500 | 1600 | 1800 | 2000 | 1750 | 727 | 732 | 3134 | 3323 | 3430 | 3516 | 3/5 | |
| ZSM400 | 4000 | 1500 | 1600 | 1800 | 2000 | 1900 | 877 | 882 | 3163 | 3352 | 3459 | 3545 | 3/5 | |
| ZSM435 | 4350 | 1400 | 1500 | 1700 | 1900 | 2000 | 977 | 982 | 3183 | 3372 | 3479 | 3565 | 3/5 | |
| ZSM450 | 4500 | 1400 | 1500 | 1700 | 1850 | 2050 | 1027 | 1032 | 3193 | 3382 | 3489 | 3575 | 3/5 | |
| ZSM470 | 4700 | 1350 | 1450 | 1650 | 1750 | 2120 | 1097 | 1102 | 3207 | 3396 | 3503 | 3589 | 3/5 | |
| ZSM480 | 4800 | 1350 | 1450 | 1650 | 1750 | 2150 | 1127 | 1132 | 3213 | 3402 | 3509 | 3595 | 3/5 | |
| ZSM500 | 5000 | 1200 | 1300 | 1600 | 1700 | 2250 | 1227 | 1232 | 3233 | 3422 | 3529 | 3615 | 3/3 | |
| ZSM540 | 5400 | 1050 | 1150 | 1250 | 1400 | 2400 | 1377 | 1382 | 3262 | 3451 | 3558 | 3644 | 3/3 | |
| ZSM600 | 6000 | 800 | 900 | 1000 | 1100 | 2675 | 1652 | 1657 | 3347 | 3536 | 3643 | 3729 | 3/3 | |
| ZSM650 | 6500 | 700 | 800 | 900 | 1000 | 2850 | 1827 | 1832 | 3381 | 3570 | 3677 | 3763 | 3/3 | |

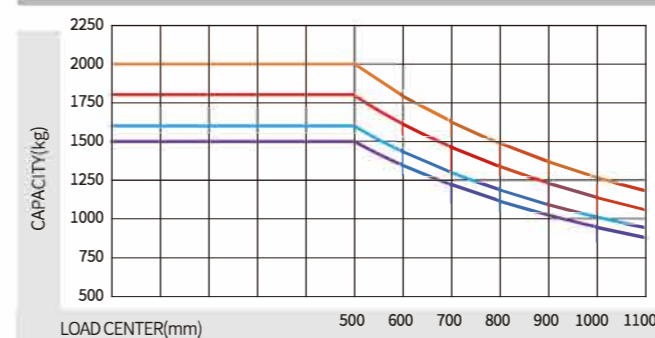
Note: the free lifting height increases by 449mm without backrest.

Lithium battery charger

| Lithium battery brand | HEDING | | | | ENEROC | | | | |
|--|--|-----|-----|-----|--------|-----|-----|-----|-----|
| | 202 | 280 | 404 | 200 | 228 | 268 | 302 | 346 | 400 |
| CPD15/16/18SQ | ● | ○ | — | ○ | ○ | ○ | ○ | — | — |
| CPD20SQ | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Low temperature heating of lithium battery | ● | | | | | | | | |
| Charger | D80V200ALi-123 (Charging gun) /D80V200ALi-423 (Charging gun) | | | | | | | | |

Note: ● standard ○ optional — non-configurable

Load curve



Note:The vertical axis stands for load capacity while the horizontal axis 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 the mast is tilted forward, the worker using nonstandard forks for 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.