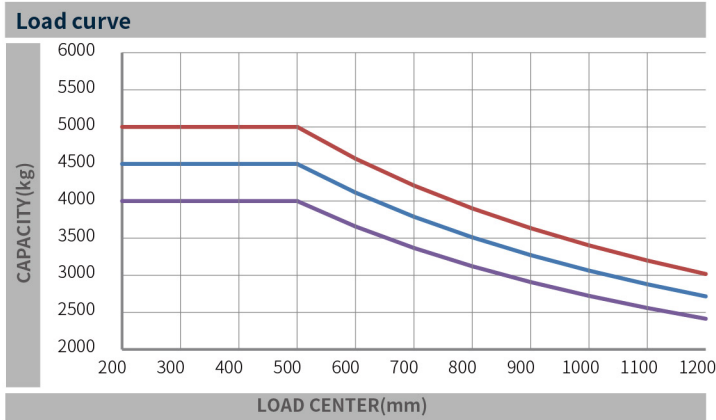




CPD40 CPD45 CPD50

**Note:**The vertical axis stands for load capacity and 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 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.

| Configurations |                                                                          |   |                     |                                                   |   |
|----------------|--------------------------------------------------------------------------|---|---------------------|---------------------------------------------------|---|
| Safety         | Steering deceleration                                                    | ● | Comfort             | Semi-enclosure seat                               | ● |
|                | Rear handle with horn for truck reversing                                | ● |                     | Full suspension seat                              | ○ |
|                | Overspeed alarm (5km/h)                                                  | ○ |                     | 1 USB interface (5V/1A)                           | ● |
|                | Overspeed alarm(8km/h)                                                   | ○ |                     | Super low torque steering unit                    | ● |
|                | Overspeed alarm (10km/h)                                                 | ○ |                     | Mechanical control valve                          | ○ |
|                | Speed limit ((no ultimate limit type)                                    | ○ |                     | Fan                                               | ○ |
|                | OPS(travelling+lifting+tilting+attachment)<br>(lowering is not included) | ● | Cab/<br>Windshields | Panel mounted cab ( with fan and wiper)           | ○ |
|                | Full set of OPS                                                          | ○ |                     | Heater                                            | ○ |
|                | Safety switch for seat belt                                              | ● |                     | Air conditioner only for cooling                  | ○ |
|                | Hydraulic valve overload protection device                               | ● |                     | Air conditioner only for cooling + heater         | ○ |
|                | Dry powder extinguisher (0.5kg)                                          | ○ |                     | Front windshield (with wiper/no blow can)         | ○ |
|                | Dry powder extinguisher (2kg)                                            | ○ |                     | Rear windshield                                   | ○ |
|                | Backward buzzer                                                          | ● | Lingts              | Top windshield (without fan)                      | ○ |
|                | Reversing speaker (Chinese)                                              | ○ |                     | LED rear working lamp (one)                       | ○ |
|                | Electronic upper buffering                                               | ○ |                     | Rear LED red/blue spot lamp                       | ○ |
|                | Wide- angle central rear view mirror                                     | ● |                     | Left, right and rear blue bar                     | ○ |
|                | Rearview mirror on two sides+<br>Center wide angle rearview mirror       | ○ |                     | Fixed type LED flicker warning lamp               | ● |
|                | Reverse radar (4 probes)                                                 | ○ |                     | Fixed type LED rotating warning lamp              | ○ |
|                | Reversing image (1 camera + 4 probes)                                    | ○ |                     | Fixed type LED rotating buzzer warning lamp       | ○ |
|                |                                                                          |   | Others              | Sleeve for steering cylinder                      | ● |
|                |                                                                          |   |                     | Sleeves for stereng cylinder and tilting cylinder | ○ |
|                |                                                                          |   |                     | FICS standard type (domestic)                     | ○ |



LITON 4-5 t

G2 series lithium battery  
powered counterbalance forklift truck



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*Based on the platform of  
internal counterbalance forklift truck*

*Integrated with electric drive,  
the truck is powerful and high efficient.*

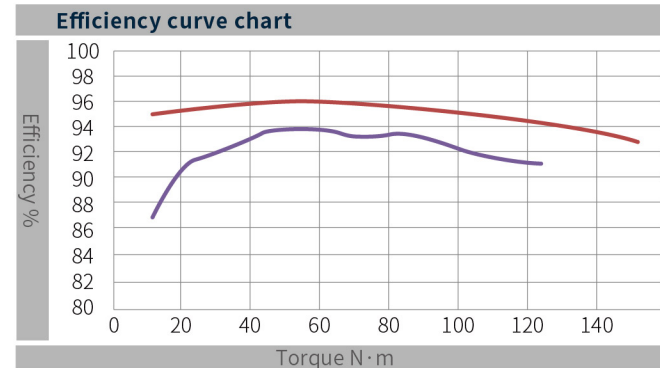


## A NEW GENERATION

Smart / Safe / High efficient / Energy saving and environmental protection

## Powerful performance, High efficiency and energy saving

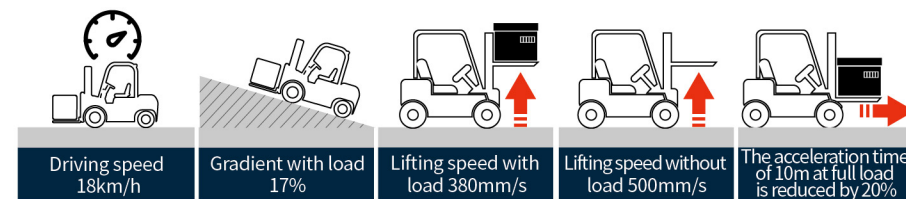
- The voltage is increased from 80V of traditional lithium battery powered truck to 153.6V. The overall energy efficiency is significantly improved by increasing of the motor power and reducing of the current of motor and controller.
- Permanent magnet synchronous motor for electric vehicle which has lighter mass compared with the same energy three-phase asynchronous motor is adopted and the comprehensive efficiency is significantly improved.
- Standard load sensing is equipped on the truck as standard which gives priority to steering and saves energy by 5%;



— Driving efficiency of three-phase asynchronous motor on flat ground  
— Driving efficiency of permanent magnet synchronous motor on flat ground



The integrated power system reduces the wiring harness which greatly reduces the loss of electric energy transmission. And the levels of parts and control modules are clear and convenient for maintenance;



**P E S**  
Powerful Economy Energy saving  
Multi gear performance modes meet your requirements for different working condition.

## Smart safety functions offer comprehensive guarantee.



Emergency power-off switch is equipped as standard to ensure safety in case of emergency;

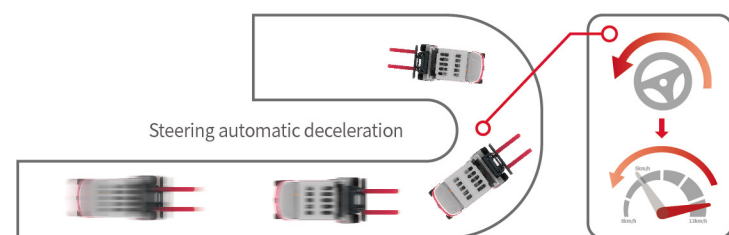


High efficiency liquid cooling and heat dissipation system is equipped as standard, which can meet the requirements of automobile S1 continuous working system;



**System level voltage safety protection:** The truck features Integrated / shortest design of voltage connection and multiple insulation monitoring protection;  
**System level voltage safety sectional design:** when the maintenance switch is pulled out, the system fails or the key is disconnected, the voltage system will be automatically disconnected, and the maximum voltage shall not be greater than 76.8v;

- **Steering deceleration function:** the standard steering automatic deceleration function can reduce the risk of tipping when steering;



**Color screen instrument:** it has the functions of full display of truck information, timely reminder and convenient operation;



### HELI smart fleet management system (domestic basic edition)

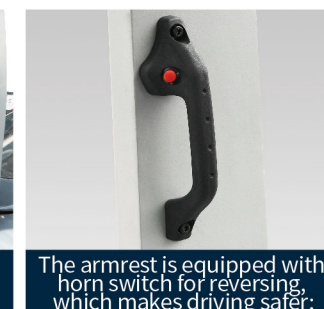
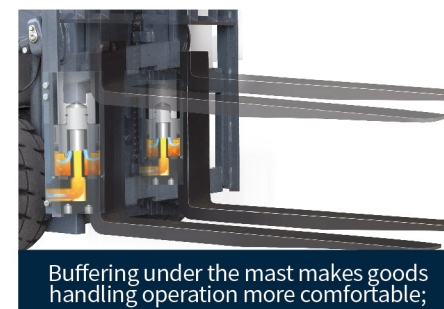
|                      |                                       |
|----------------------|---------------------------------------|
| Vehicle positioning  | Statistical form                      |
| Remote diagnosis     | Vehicle management                    |
| Remote monitoring    | Identification recognition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

## Internal combustion platform, stable and reliable

- The whole truck is developed based on the internal combustion truck platform, and all parts are mature and reliable. It has the advantages of high performance, high stability and high environmental adaptability of the internal combustion truck, as well as the green and environmental protection characteristics of the lithium truck.

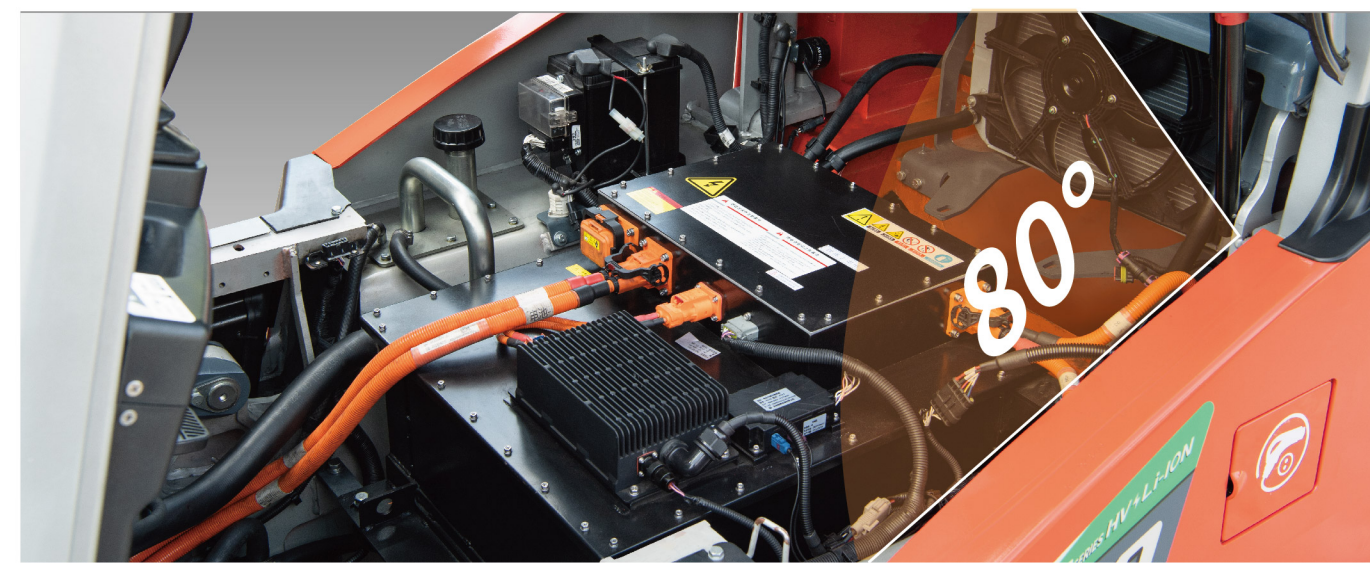


## Ergonomic design, intelligent and comfortable

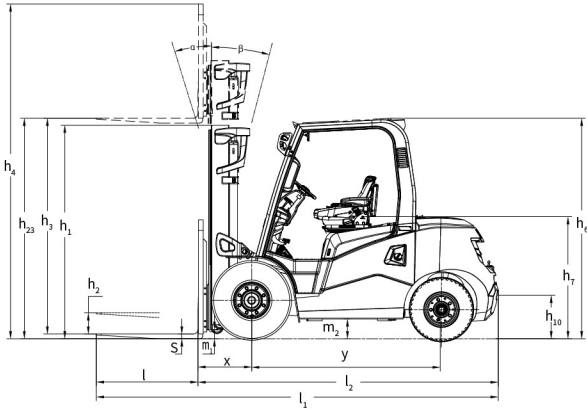
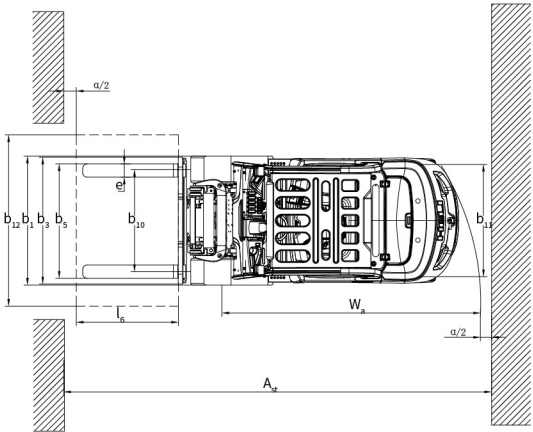


## Centralized maintenance points, fast and convenient for maintenance

- The truck features 80° hood opening angle and simple opening mechanism. The key lock is optional.
- Optimized layout of truck structure offers large internal space and convenient maintenance;
- Modular design of power assembly and electrical system offer convenient maintenance and low cost;



| Manufacturer and Technical Data |                                                                    |                 |      |                                                             |  |             |  |             |  |
|---------------------------------|--------------------------------------------------------------------|-----------------|------|-------------------------------------------------------------|--|-------------|--|-------------|--|
| Characteristics                 |                                                                    |                 |      |                                                             |  |             |  |             |  |
| 1.01                            | Manufacturer                                                       |                 |      | HELI                                                        |  |             |  |             |  |
| 1.02                            | Model                                                              |                 |      | CPD40                                                       |  | CPD45       |  | CPD50       |  |
| 1.03                            | Configuration number                                               |                 |      | G2A11LI                                                     |  |             |  |             |  |
| 1.04                            | Rated capacity                                                     | Q               | kg   | 4000                                                        |  | 4500        |  | 5000        |  |
| 1.05                            | Load center distance                                               | c               | mm   | 500                                                         |  |             |  |             |  |
| 1.06                            | Power mode                                                         |                 |      | Lithium battery                                             |  |             |  |             |  |
| 1.07                            | Driving mode                                                       |                 |      | Sit-on type                                                 |  |             |  |             |  |
| 1.08                            | Front overhang                                                     | x               | mm   | 560                                                         |  |             |  |             |  |
| 1.09                            | Wheelbase                                                          | y               | mm   | 2100                                                        |  |             |  |             |  |
| Weight                          |                                                                    |                 |      |                                                             |  |             |  |             |  |
| 2.01                            | Total weight                                                       |                 | kg   | 5890/5590                                                   |  | 6245/5945   |  | 6600/6300   |  |
| 2.02                            | Axle load (laden,front/rear)                                       |                 | kg   | 8990/900                                                    |  | 9720/1025   |  | 10430/1170  |  |
| 2.03                            | Axle load (unladen,front/rear)                                     |                 | kg   | 2970/2920                                                   |  | 2950/3295   |  | 2900/3700   |  |
| Tyres                           |                                                                    |                 |      |                                                             |  |             |  |             |  |
| 3.01                            | Tyre type                                                          |                 |      | Solid tyre                                                  |  |             |  |             |  |
| 3.02                            | Tyre size,front                                                    |                 |      | 8.25-15                                                     |  |             |  | 300-15      |  |
| 3.03                            | Tyre size,rear                                                     |                 |      | 7.00-12                                                     |  |             |  |             |  |
| 3.04                            | Wheels,number front/rear (x=driven wheels)                         |                 |      | 2X/2(Dual tyre 4X/2)                                        |  |             |  |             |  |
| 3.05                            | Tread, front                                                       | b <sub>10</sub> | mm   | 1180                                                        |  |             |  |             |  |
| 3.06                            | Tread, rear                                                        | b <sub>11</sub> | mm   | 1190                                                        |  |             |  |             |  |
| Dimensions                      |                                                                    |                 |      |                                                             |  |             |  |             |  |
| 4.01                            | Mast tilt angle (forward/backward)                                 | α/β             | °    | 6/12                                                        |  |             |  |             |  |
| 4.02                            | Height (mast lowered)                                              | h <sub>1</sub>  | mm   | 2275                                                        |  |             |  |             |  |
| 4.03                            | Free lifting height                                                | h <sub>2</sub>  | mm   | 150                                                         |  |             |  |             |  |
| 4.04                            | Lifting height (standard)                                          | h <sub>3</sub>  | mm   | 3000                                                        |  |             |  |             |  |
| 4.05                            | Max. height,extended (with backrest)                               | h <sub>4</sub>  | mm   | 4250                                                        |  |             |  |             |  |
| 4.06                            | Height of overhead guard                                           | h <sub>6</sub>  | mm   | 2350                                                        |  |             |  |             |  |
| 4.07                            | Seat height relating to SIP (to ground)                            | h <sub>7</sub>  | mm   | 1080                                                        |  |             |  |             |  |
| 4.08                            | Towing coupling height                                             | h <sub>10</sub> | mm   | 430                                                         |  |             |  |             |  |
| 4.09                            | Overall length (with fork)                                         | l <sub>1</sub>  | mm   | 4255                                                        |  | 4275        |  | 4325        |  |
| 4.10                            | Overall length (without fork)                                      | l <sub>1</sub>  | mm   | 3185                                                        |  | 3205        |  | 3255        |  |
| 4.11                            | Overall width                                                      | b <sub>1</sub>  | mm   | 1480                                                        |  |             |  |             |  |
| 4.12                            | Fork size:thickness x width x length                               | s/e/l           | mm   | 50x150x1070                                                 |  |             |  |             |  |
| 4.13                            | Fork carriage,according to ISO2328                                 |                 |      | III                                                         |  |             |  |             |  |
| 4.14                            | Distance across fork-arms, Max./Min.                               | b <sub>5</sub>  | mm   | 1340/300                                                    |  |             |  |             |  |
| 4.15                            | Ground clearance (laden,between mast)                              | m <sub>1</sub>  | mm   | 150                                                         |  |             |  |             |  |
| 4.16                            | Ground clearance (center of wheelbase)                             | m <sub>2</sub>  | mm   | 230                                                         |  |             |  |             |  |
| 4.17                            | Right angle stacking aisle width for pallet 1000 x1200mm crossways | Ast             | mm   | 4610                                                        |  | 4640        |  | 4690        |  |
| 4.18                            | Right angle stacking aisle width for pallet 800 x1200mm lengthways | Ast             | mm   | 4810                                                        |  | 4840        |  | 4890        |  |
| 4.19                            | Min. outside turning radius                                        | Wa              | mm   | 2850                                                        |  | 2880        |  | 2930        |  |
| Performance Data                |                                                                    |                 |      |                                                             |  |             |  |             |  |
| 5.01                            | Travel speed (laden/unladen)                                       |                 | km/h | 18/19                                                       |  | 18/19       |  | 18/19       |  |
| 5.02                            | Lift speed (laden/unladen)                                         |                 | m/s  | 450/500                                                     |  | 420/500     |  | 390/500     |  |
| 5.03                            | Lowering speed (laden/unladen)                                     |                 | m/s  | 470/500                                                     |  | 470/500     |  | 470/500     |  |
| 5.04                            | Max.drawbar pull (laden/unladen)                                   |                 | N    | 23000/20000                                                 |  | 23000/20000 |  | 23000/20000 |  |
| 5.05                            | Max.gradeability (laden/unladen)                                   |                 | %    | 19/20                                                       |  | 18/20       |  | 17/20       |  |
| 5.06                            | Acceleration time (10m) (laden/unladen)                            |                 | s    |                                                             |  |             |  |             |  |
| Battery                         |                                                                    |                 |      |                                                             |  |             |  |             |  |
| 6.01                            | Voltage/capacity (K5)                                              |                 | V/Ah | 153.6/230 (Optional 153.6/330)                              |  |             |  |             |  |
| 6.02                            | Mass (Min./Max.)                                                   |                 | kg   | 330/435                                                     |  |             |  |             |  |
| Motor and controller            |                                                                    |                 |      |                                                             |  |             |  |             |  |
| 7.01                            | Power of driving motor (S2-60min)                                  |                 | kW   | 25                                                          |  |             |  |             |  |
| 7.02                            | Power of lifting motor (S3-15%)                                    |                 | kW   | 20                                                          |  |             |  |             |  |
| 7.03                            | Control mode of driving motor                                      |                 |      | MOS tube / AC                                               |  |             |  |             |  |
| 7.04                            | Control mode of lifting motor                                      |                 |      | MOS tube / AC                                               |  |             |  |             |  |
| Addition data                   |                                                                    |                 |      |                                                             |  |             |  |             |  |
| 8.01                            | Service brake/Parking brake                                        |                 |      | Hydraulic power assisted braking / mechanical- ratchet type |  |             |  |             |  |
| 8.02                            | Operating pressure for attachments                                 |                 | Mpa  | 14                                                          |  |             |  |             |  |



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 tilt angle α/β (°) |
|------------|-------------------------|----------------------------------------|-------|-------|----------------------------|--------------------------------|---------------------|------|------|-------------------------|
|            |                         | 4t                                     | 4.5t  | 5t    |                            |                                | 4t                  | 4.5t | 5t   |                         |
| M250       | 2500                    | 4000                                   | 4500  | 5000  | 2000                       | 150                            | 5880                | 6140 | 6550 | 6°/12°                  |
| M300       | 3000                    | 4000                                   | 4500  | 5000  | 2250                       | 150                            | 5930                | 6190 | 6600 | 6°/12°                  |
| M330       | 3300                    | 4000                                   | 4500  | 5000  | 2400                       | 150                            | 5960                | 6220 | 6630 | 6°/12°                  |
| M350       | 3500                    | 4000                                   | 4500  | 5000  | 2500                       | 150                            | 5980                | 6240 | 6650 | 6°/12°                  |
| M370       | 3700                    | 4000                                   | 4500  | 5000  | 2600                       | 150                            | 5995                | 6255 | 6665 | 6°/12°                  |
| M400       | 4000                    | 4000                                   | 4500  | 5000  | 2800                       | 150                            | 6070                | 6330 | 6740 | 6°/12°                  |
| M425       | 4250                    | 4000                                   | 4500  | 5000  | 2925                       | 150                            | 6095                | 6355 | 6765 | 6°/6°                   |
| M450       | 4500                    | *3800                                  | *4300 | *4700 | 3050                       | 150                            | 6115                | 6375 | 6785 | 6°/6°                   |
| M475       | 4750                    | *3700                                  | *4200 | *4500 | 3175                       | 150                            | 6140                | 6400 | 6810 | 6°/6°                   |
| M500       | 5000                    | *3500                                  | *4000 | *4250 | 3300                       | 150                            | 6165                | 6425 | 6835 | 6°/6°                   |
| M550       | 5500                    | *3700                                  | *4200 | *4600 | 3600                       | 150                            | 6255                | 6515 | 6925 | 6°/6°                   |
| M600       | 6000                    | *3200                                  | *3600 | *3800 | 3850                       | 150                            | 6305                | 6565 | 6975 | 6°/6°                   |

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 tilt angle α/β (°) |
|------------|-------------------------|----------------------------------------|-------|-------|----------------------------|--------------------------------|------|---------------------|------|------|-------------------------|
|            |                         | 4t                                     | 4.5t  | 5t    |                            | 4-5t                           | 5t   | 4t                  | 4.5t | 5t   |                         |
| ZM250      | 2500                    | 4000                                   | 4500  | 5000  | 2000                       | 785                            | 640  | 5835                | 6095 | 6505 | 6°/12°                  |
| ZM300      | 3000                    | 4000                                   | 4500  | 5000  | 2250                       | 1035                           | 890  | 5895                | 6155 | 6565 | 6°/12°                  |
| ZM330      | 3300                    | 4000                                   | 4500  | 5000  | 2400                       | 1185                           | 1040 | 5935                | 6195 | 6605 | 6°/12°                  |
| ZM350      | 3500                    | 4000                                   | 4500  | 5000  | 2500                       | 1285                           | 1140 | 5955                | 6215 | 6625 | 6°/12°                  |
| ZM370      | 3700                    | 4000                                   | 4500  | 5000  | 2600                       | 1385                           | 1240 | 5980                | 6240 | 6650 | 6°/12°                  |
| ZM400      | 4000                    | 4000                                   | 4500  | 5000  | 2800                       | 1585                           | 1440 | 6070                | 6330 | 6740 | 6°/12°                  |
| ZM425      | 4250                    | 4000                                   | 4500  | 5000  | 2925                       | 1710                           | 1565 | 6110                | 6370 | 6780 | 6°/6°                   |
| ZM450      | 4500                    | *3800                                  | *4300 | *4700 | 3050                       | 1835                           | 1690 | 6150                | 6410 | 6820 | 6°/6°                   |
| ZM475      | 4750                    | *4000                                  | *4500 | *5000 | 3175                       | 1960                           | 1815 | 6190                | 6450 | 6860 | 6°/6°                   |
| ZM500      | 5000                    | *3700                                  | *4200 | *4500 | 3300                       | 2085                           | 1940 | 6230                | 6490 | 6900 | 6°/6°                   |
| ZM550      | 5500                    | *3200                                  | *3600 | *4000 | 3600                       | 2385                           | 2240 | 6340                | 6600 | 7010 | 6°/6°                   |
| ZM600      | 6000                    | *3400                                  | *4000 | *4200 | 3850                       | 2635                           | 2490 | 6395                | 6655 | 7065 | 6°/6°                   |

Note: 4-5t: The free lifting height is increased by 340 mm when there is no 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 tilt angle α/β (°) |
|------------|-------------------------|----------------------------------------|-------|-------|----------------------------|--------------------------------|---------------------|------|------|-------------------------|
|            |                         | 4t                                     | 4.5t  | 5t    |                            |                                | 4t                  | 4.5t | 5t   |                         |
| ZSM360     | 3600                    | *3800                                  | *4350 | *4800 | 1940                       | 730                            | 6045                | 6305 | 6715 | 6°/6°                   |
| ZSM400     | 4000                    | *4000                                  | *4500 | *5000 | 2080                       | 870                            | 6095                | 6355 | 6765 | 6°/6°                   |
| ZSM435     | 4350                    | *3800                                  | *4350 | *4800 | 2190                       | 980                            | 6135                | 6395 | 6805 | 6°/6°                   |
| ZSM450     | 4500                    | *3800                                  | *4350 | *4800 | 2240                       | 1030                           | 6155                | 6415 | 6825 | 6°/6°                   |
| ZSM470     | 4700                    | *3500                                  | *4000 | *4500 | 2305                       | 1095                           | 6175                | 6435 | 6845 | 6°/6°                   |
| ZSM500     | 5000                    | *3500                                  | *3800 | *4200 | 2440                       | 1230                           | 6225                | 6485 | 6895 | 6°/6°                   |
| ZSM540     | 5400                    | *3250                                  | *3700 | *4100 | 2590                       | 1380                           | 6335                | 6595 | 7005 | 6°/6°                   |
| ZSM600     | 6000                    | *3200                                  | *3400 | *3800 | 2790                       | 1580                           | 6410                | 6670 | 7080 | 6°/6°                   |
| ZSM650     | 6500                    | *2500                                  | *2800 | *3200 | 2990                       | 1780                           | 6480                | 6740 | 7150 | 6°/6°                   |
| ZSM700     | 7000                    | *1800                                  | *2000 | *2500 | 3165                       | 1955                           | 6545                | 6805 | 7215 | 6°/6°                   |

Note: 4-5t: The free lifting height is increased by 340 mm when there is no backrest.