

## CPD15/18/20/25 /30/35/38

GB2LI-H GB2LI-M GB2LI-S GE2LI-S  
GB6LI-H GB6LI-S GE6LI-S



**LI-ION** **3000-7500 lbs**  
G2 Series Lithium-ion Battery  
Forklift Truck

\* Details of specifications and equipment are based on information available at time of printing and may change without notice.

### HELI AMERICA INC

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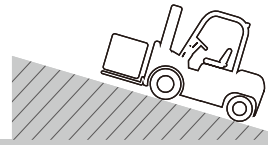
Fearless of Any Rough Application,  
**HELI New Series Lithium Forklift,**  
Your Best Choice





## Powerful Performance, High Efficiency

Customers can freely choose from the 3 different configurations: S, M, H. Especially M and H configurations are comparable with internal combustion trucks in terms of comprehensive performance.



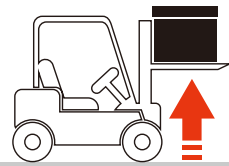
**22%**

Maximum gradeability with load



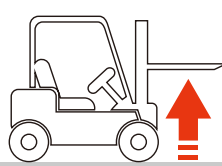
**19-20km/h**

Driving speed



**0.48m/s**

Lifting speed with load



**0.6m/s**

Lifting speed without load

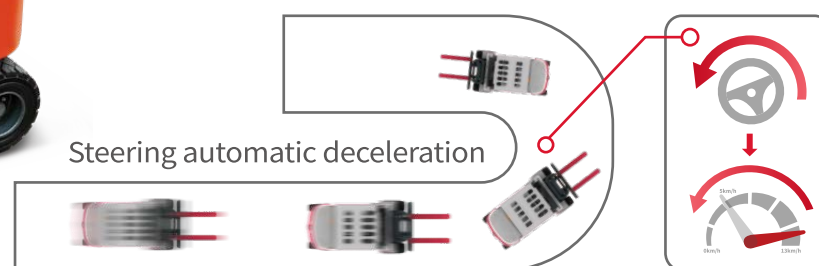
Note: the data displayed are all based on the model CPD30-GB2Li-H, and data for other trucks are shown in the table of technical parameters.

## Smart and Safe, Ease In All Aspects

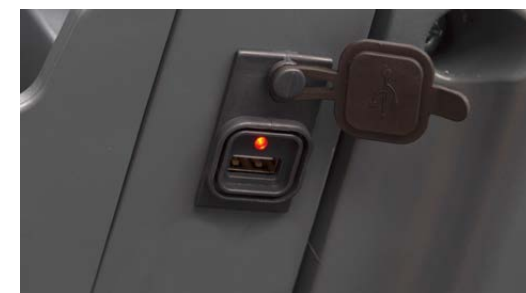
- Steering deceleration: Auto steering deceleration reduces the risk of turning over;
- Steering started by steering wheel: the steering wheel can directly start the steering function and provides the required oil quantity according to the steering wheel speed;
- Color screen instrument: Bilingual (CN/EN) options, full vehicle information at a glance;
- PES Three-speed mode: Choose multiple speed modes according to working conditions, guarantee work efficiency;
- Rear handle with horn switch for safer reversing;
- Lithium battery is automatically heated at low temperature, with excellent low temperature adaptability.



Steering automatic deceleration



- Optimized mast and pressed overhead guard for improved visibility and safety.
- Ultra-low torque steering gear and lighter steering operation reduces driving fatigue.



USB power supply design is more thoughtful

## Optimized Ergonomic Design, Better Driving Comfort



Large boarding space and foot operation space for more comfortable operation



New type of ratchet hand brake reduces operating force by 17%.

Brake fluid within reach, easy to check and refill



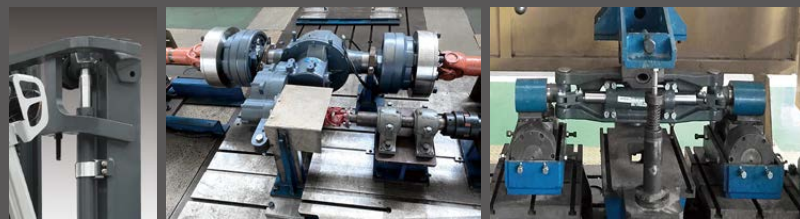
IC truck type control valve stem, better fit to the driver's habits



Gradient  
20%

## High Quality & High Reliability

The integrated cast drive axle and reinforced cast steering axle have been proven in the market and are mature and reliable. The mast force optimization design improves the overall performance and effectively ensures the operation safety.



## Tested in Rough Operating Environment



IPX4 waterproof: the vehicle is powered on to simulate a 15min short-time 5000L rainstorm test, and the vehicle can continue to run without failures.



After 10mins wading test, the vehicle has no failure. (Water depth 200mm)

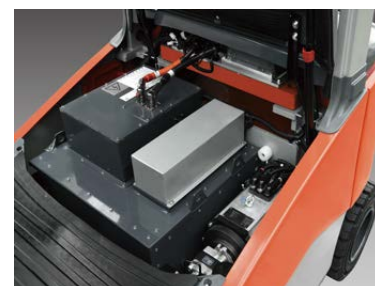


The whole vehicle can be operated alternately in -20°C cold storage for 6 hours and parked in the cold storage for 12 hours without any failure and can continue to work.



The truck passed simulation experiment of bumpy road.

## Centralized Checkpoints, Easy Maintenance



The electrical design is concentrated on the top of lithium battery, and the maintenance points are centralized, which is convenient for inspection and maintenance.

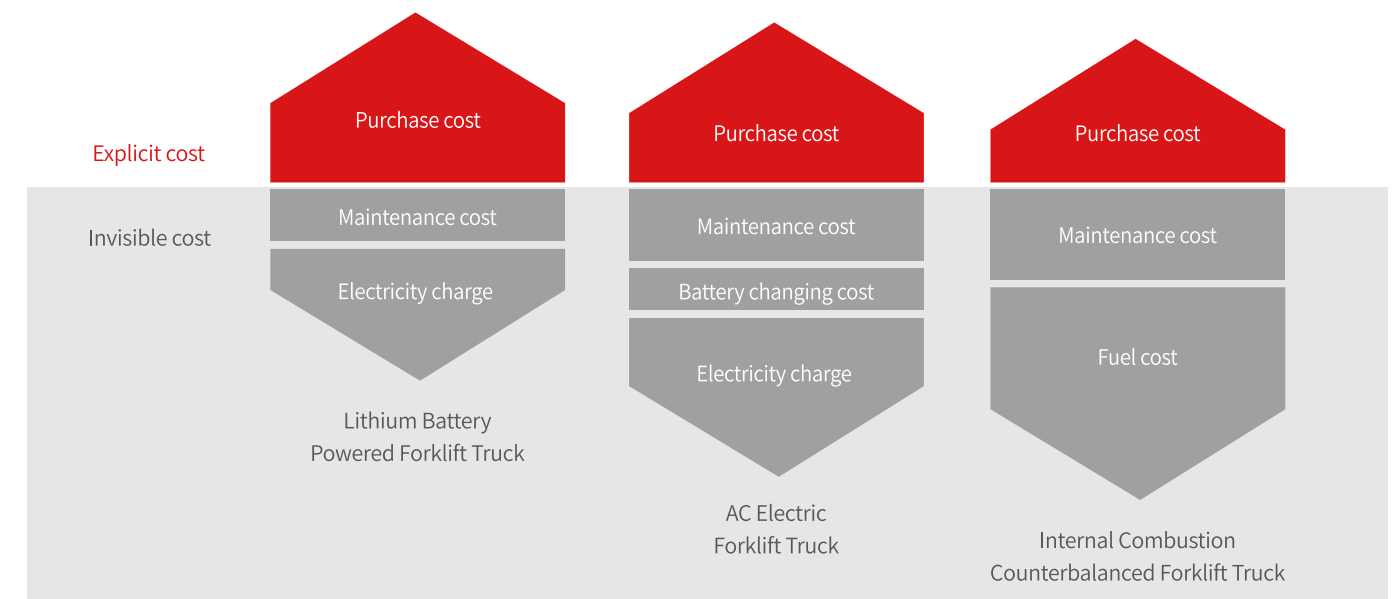
## Operating Cost Comparison: Lithium battery forklift **vs.** Lead-acid battery forklift **vs.** IC forklift

The advantages of HELI lithium battery forklift trucks are more prominent in the life cycle cost.

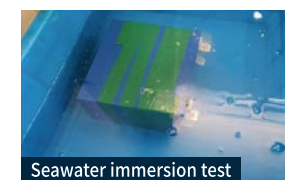
Compared with internal combustion forklift truck, lithium battery forklift truck has the advantages of no noise, no pollution, small vibration and simple operation.

Compared with the lead-acid battery forklift truck, lithium battery forklift has the characteristics of fast charging and charging at any time, which is more suitable for multi shift operation.

Besides, HELI lithium battery forklift is maintenance free, high power conversion efficiency, and economical overall operation cost.



### Lithium Battery Advantages



Seawater immersion test



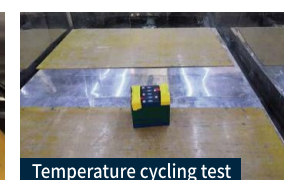
Extrusion test



Heating test



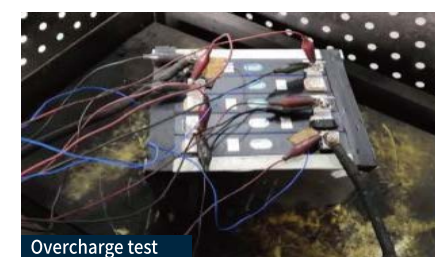
Temperature cycling test



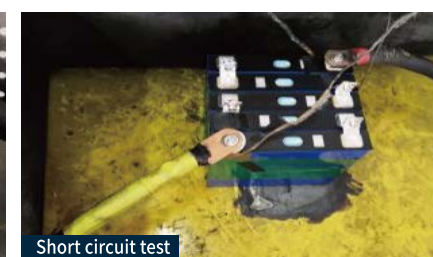
Temperature cycling test



Drop test



Overcharge test



Short circuit test

- The truck selects mature and economical square iron phosphate lithium battery core and module used by large numbers of commercial vehicles;
- The module adopts aluminum alloy plate frame, which is firm, light in weight and has good heat dissipation effect;
- Fast charging: fast charging makes truck gapless operation possible, and it can be fully charged in up to one hour;
- High efficiency and safety: The charging and discharging efficiency is up to 98%, and temperature of thermal runaway is over 600 °C;
- Low temperature adaptability: Standard configuration of heating function ensures normal operation of low temperature environment;
- Long service life: Over 75% capacity reserved after 5 years or ten thousand hours.
- Maintenance free: the battery does not need manual maintenance and does not need to add distilled water electrolyte;
- Green and clean: no pollution and zero emission.



| Manufacturer and Technical Data(Tabulation1) |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
|----------------------------------------------|--------------------------------------------------------------------|-------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Characteristics                              |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 1.01                                         | Manufacturer                                                       |       |       | HELI                 |                      |                      |                      |                      |                      |
| 1.02                                         | Model                                                              |       |       | CPD15                | CPD18                | CPD15                | CPD18                | CPD20                |                      |
| 1.03                                         | Configuration number                                               |       |       | GB2LI-H*<br>GB6LI-H  | GB2LI-H*<br>GB6LI-H  | GB2LI-M              | GB2LI-M              | GB2LI-S*<br>GB6LI-S  | GE2LI-S*<br>GE6LI-S  |
| 1.04                                         | Rated capacity                                                     | Q     | lbs   | 3000                 | 3500                 | 3000                 | 3500                 | 3000                 | 4000                 |
| 1.05                                         | Load center distance                                               | c     | in    | 24                   | 24                   | 24                   | 24                   | 24                   | 24                   |
| 1.06                                         | Power mode                                                         |       |       | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      |
| 1.07                                         | Driving mode                                                       |       |       | Seated               | Seated               | Seated               | Seated               | Seated               | Seated               |
| 1.08                                         | Front overhang                                                     | x     | in    | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   |
| 1.09                                         | Wheelbase                                                          | y     | in    | 56                   | 56                   | 56                   | 56                   | 56                   | 56                   |
| Weight                                       |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 2.01                                         | Total weight (with/without battery)                                |       | lbs   | 5900/5440            | 6360/5900            | 5900/5440            | 6360/5900            | 5900/5440            | 6560/6100            |
| 2.02                                         | Axle load (laden,front/rear)                                       |       | lbs   | 7620/1280            | 8580/1380            | 7620/1280            | 8580/1380            | 7620/1280            | 9300/1260            |
| 2.03                                         | Axle load (unladen,front/rear)                                     |       | lbs   | 1340/1610            | 1330/1850            | 1340/1610            | 1330/1850            | 1340/1610            | 1360/1920            |
| Tyres                                        |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 3.01                                         | Tyre type                                                          |       |       | Pneumatic tyre       | Pneumatic tyre       | Pneumatic tyre       | Pneumatic tyre       | Pneumatic tyre       | Pneumatic tyre       |
| 3.02                                         | Tyre size,front                                                    |       |       | 6.5-10-12PR          | 6.5-10-12PR          | 6.5-10-12PR          | 6.5-10-12PR          | 6.5-10-12PR          | 6.5-10-12PR          |
| 3.03                                         | Tyre size,rear                                                     |       |       | 16×6-8-10PR          | 16×6-8-10PR          | 16×6-8-10PR          | 16×6-8-10PR          | 16×6-8-10PR          | 16×6-8-10PR          |
| 3.04                                         | Wheels,number front/rear (x=driven wheels)                         |       |       | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  |
| 3.05                                         | Tread, front                                                       | b10   | in    | 37                   | 37                   | 37                   | 37                   | 37                   | 37                   |
| 3.06                                         | Tread, rear                                                        | b11   | in    | 37                   | 37                   | 37                   | 37                   | 37                   | 37                   |
| Dimensions                                   |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 4.01                                         | Mast tilt angle (forward/backward)                                 | α/β   | °     | 6/10                 | 6/10                 | 6/10                 | 6/10                 | 6/10                 | 6/10                 |
| 4.02                                         | Height (mast lowered)                                              | h1    | in    | 79                   | 79                   | 79                   | 79                   | 79                   | 79                   |
| 4.03                                         | Free lifting height                                                | h2    | in    | 6                    | 6                    | 6                    | 6                    | 6                    | 6                    |
| 4.04                                         | Lifting height (standard)                                          | h3    | in    | 118                  | 118                  | 118                  | 118                  | 118                  | 118                  |
| 4.05                                         | Max. height, extended (with backrest)                              | h4    | in    | 158                  | 158                  | 158                  | 158                  | 158                  | 158                  |
| 4.06                                         | Height of overhead guard                                           | h6    | in    | 84                   | 84                   | 84                   | 84                   | 84                   | 84                   |
| 4.07                                         | Seat height relating to SIP (to ground)                            | h7    | in    | 44                   | 44                   | 44                   | 44                   | 44                   | 44                   |
| 4.08                                         | Towing coupling height                                             | h10   | in    | 10                   | 10                   | 10                   | 10                   | 10                   | 10                   |
| 4.09                                         | Overall length (with fork)                                         | l1    | in    | 120                  | 120                  | 120                  | 120                  | 120                  | 120                  |
| 4.10                                         | Overall length (without fork)                                      | l2    | in    | 84                   | 84                   | 84                   | 84                   | 84                   | 84                   |
| 4.11                                         | Overall width                                                      | b1    | in    | 44                   | 44                   | 44                   | 44                   | 44                   | 44                   |
| 4.12                                         | Fork size:thickness x width x length                               | s/e/l | in    | 1×4×36               | 1×4×36               | 1×4×36               | 1×4×36               | 1×4×36               | 2×4×36               |
| 4.13                                         | Fork carriage, according to ISO2328                                |       |       | 2A                   | 2A                   | 2A                   | 2A                   | 2A                   | 2A                   |
| 4.14                                         | Distance across fork-arms, Max./Min.                               | b5    | in    | 38/8                 | 38/8                 | 38/8                 | 38/8                 | 38/8                 | 38/8                 |
| 4.15                                         | Ground clearance (at mast)                                         | m1    | in    | 4                    | 4                    | 4                    | 4                    | 4                    | 4                    |
| 4.16                                         | Ground clearance (center of wheelbase)                             | m2    | in    | 5                    | 5                    | 5                    | 5                    | 5                    | 5                    |
| 4.17                                         | Right angle stacking aisle width for pallet 1000 x1200mm crossways | Ast   | in    | 137                  | 137                  | 137                  | 137                  | 137                  | 137                  |
| 4.18                                         | Right angle stacking aisle width for pallet 800 x1200mm lengthways | Ast   | in    | 144                  | 144                  | 144                  | 144                  | 144                  | 144                  |
| 4.19                                         | Min. outside turning radius                                        | Wa    | in    | 73                   | 73                   | 73                   | 73                   | 73                   | 73                   |
| Performance data                             |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 5.01                                         | Travel speed (laden/unladen)                                       |       | mph   | 12/13                | 12/13                | 11/11                | 11/11                | 9/9                  | 9/9                  |
| 5.02                                         | Lift speed (laden/unladen)                                         |       | fpm   | 116/118              | 98/118               | 95/118               | 87/118               | 73/98                | 61/98                |
| 5.03                                         | Lowering speed (laden/unladen)                                     |       | fpm   | 93/98                | 93/98                | 93/98                | 93/98                | 93/98                | 93/98                |
| 5.04                                         | Max.drawbar pull (laden)                                           |       | N     | 14000                | 14000                | 12800                | 12800                | 10000                | 10000                |
| 5.05                                         | Max.gradeability (laden/unladen)                                   |       | %     | 22/25                | 20/22                | 20/22                | 20/20                | 17/20                | 15/20                |
| 5.06                                         | Acceleration time(10 m)(laden/unladen)                             |       | s     | 5.0/4.5              | 5.0/4.5              | 5.0/4.5              | 5.0/4.5              | 5.5/5.0              | 5.5/5.0              |
| Battery                                      |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 6.01                                         | Battery voltage/Capacity                                           |       | V/ Ah | 80/202               | 80/202               | 80/202               | 80/202               | 80/150               | 80/150               |
| 6.02                                         | Battery weight                                                     |       | lbs   | 460                  | 460                  | 460                  | 460                  | 460                  | 460                  |
| Motor and controller                         |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 7.01                                         | Driving motor powering (S2-60min)                                  |       | hp    | 8                    | 8                    | 7                    | 7                    | 6                    | 6                    |
| 7.02                                         | Lifting motor powering (S3-15%)                                    |       | hp    | 13                   | 13                   | 12                   | 12                   | 8                    | 8                    |
| 7.03                                         | Driving motor controlling mode                                     |       |       | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            |
| 7.04                                         | Lifting motor controlling mode                                     |       |       | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            |
| Addition data                                |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 8.01                                         | Service brake/Parking brake                                        |       |       | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical |
| 8.02                                         | Operating pressure for attachments                                 |       | Mpa   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   |

Note:  
(1) In the configuration number, 2 refers to ZAPI controller, 6 refers to HELI technology controller.  
(2) h7 is the value for standard configuration. For He'an suspension seat, h7 is 1in increased; for Grammer's suspension seat, h7 is 2in increased

| Manufacturer and Technical Data(Tabulation2) |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
|----------------------------------------------|--------------------------------------------------------------------|-------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Characteristics                              |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 1.01                                         | Manufacturer                                                       |       |       | HELI                 |                      |                      |                      |                      |                      |
| 1.02                                         | Model                                                              |       |       | CPD20                | CPD25                | CPD20                | CPD25                | CPD20                | CPD25                |
| 1.03                                         | Configuration number                                               |       |       | GB2LI-H*<br>GB6LI-H  | GB2LI-H*<br>GB6LI-H  | GB2LI-M              | GB2LI-M              | GB2LI-S*<br>GB6LI-S  | GB2LI-S*<br>GB6LI-S  |
| 1.04                                         | Rated capacity                                                     | Q     | lbs   | 4000                 | 5000                 | 4000                 | 5000                 | 4000                 | 5000                 |
| 1.05                                         | Load center distance                                               | c     | in    | 24                   | 24                   | 24                   | 24                   | 24                   | 24                   |
| 1.06                                         | Power mode                                                         |       |       | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      |
| 1.07                                         | Driving mode                                                       |       |       | Seated               | Seated               | Seated               | Seated               | Seated               | Seated               |
| 1.08                                         | Front overhang                                                     | x     | in    | 18                   | 18                   | 18                   | 18                   | 18                   | 18                   |
| 1.09                                         | Wheelbase                                                          | y     | in    | 65                   | 65                   | 65                   | 65                   | 65                   | 65                   |
| Weight                                       |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 2.01                                         | Total weight (with/without battery)                                |       | lbs   | 7140/6700            | 7920/7480            | 7140/6700            | 7920/7480            | 7140/6700            | 7920/7480            |
| 2.02                                         | Axle load (laden,front/rear)                                       |       | lbs   | 9920/1220            | 11500/1420           | 9920/1220            | 11500/1420           | 9920/1220            | 11500/1420           |
| 2.03                                         | Axle load (unladen,front/rear)                                     |       | lbs   | 3600/3540            | 3600/4320            | 3600/3540            | 3600/4320            | 3600/3540            | 3600/4320            |
| Tyres                                        |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 3.01                                         | Tyre type                                                          |       |       | Pneumatic tyre       | Pneumatic tyre       | Pneumatic tyre       | Pneumatic tyre       | Pneumatic tyre       | Pneumatic tyre       |
| 3.02                                         | Tyre size,front                                                    |       |       | 7.00-12-14PR         | 7.00-12-14PR         | 7.00-12-14PR         | 7.00-12-14PR         | 7.00-12-14PR         | 7.00-12-14PR         |
| 3.03                                         | Tyre size,rear                                                     |       |       | 18×7-8-14PR          | 18×7-8-14PR          | 18×7-8-14PR          | 18×7-8-14PR          | 18×7-8-14PR          | 18×7-8-14PR          |
| 3.04                                         | Wheels,number front/rear (x=driven wheels)                         |       |       | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  |
| 3.05                                         | Tread, front                                                       | b10   | in    | 38                   | 38                   | 38                   | 38                   | 38                   | 38                   |
| 3.06                                         | Tread, rear                                                        | b11   | in    | 38                   | 38                   | 38                   | 38                   | 38                   | 38                   |
| Dimensions                                   |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 4.01                                         | Mast tilt angle (forward/backward)                                 | α/β   |       | 6/12                 | 6/12                 | 6/12                 | 6/12                 | 6/12                 | 6/12                 |
| 4.02                                         | Height (mast lowered)                                              | h1    | in    | 79                   | 79                   | 79                   | 79                   | 79                   | 79                   |
| 4.03                                         | Free lifting height                                                | h2    | in    | 6                    | 6                    | 6                    | 6                    | 6                    | 6                    |
| 4.04                                         | Lifting height (standard)                                          | h3    | in    | 118                  | 118                  | 118                  | 118                  | 118                  | 118                  |
| 4.05                                         | Max. height,extended (with backrest)                               | h4    | in    | 159                  | 159                  | 159                  | 159                  | 159                  | 159                  |
| 4.06                                         | Height of overhead guard                                           | h6    | in    | 85                   | 85                   | 85                   | 85                   | 85                   | 85                   |
| 4.07                                         | Seat height relating to SIP (to ground)                            | h7    | in    | 45                   | 45                   | 45                   | 45                   | 45                   | 45                   |
| 4.08                                         | Towing coupling height                                             | h10   | in    | 11                   | 11                   | 11                   | 11                   | 11                   | 11                   |
| 4.09                                         | Overall length (with fork)                                         | l1    | in    | 132                  | 132                  | 132                  | 132                  | 132                  | 132                  |
| 4.10                                         | Overall length (without fork)                                      | l2    | in    | 96                   | 96                   | 96                   | 96                   | 96                   | 96                   |
| 4.11                                         | Overall width                                                      | b1    | in    | 46                   | 46                   | 46                   | 46                   | 46                   | 46                   |
| 4.12                                         | Fork size:thickness x width x length                               | s/e/l | in    | 2×5×36               | 2×5×42               | 2×5×36               | 2×5×42               | 2×5×36               | 2×5×42               |
| 4.13                                         | Fork carriage,according to ISO2328                                 |       |       | 2A                   | 2A                   | 2A                   | 2A                   | 2A                   | 2A                   |
| 4.14                                         | Distance across fork-arms, Max./Min.                               | b5    | in    | 41/10                | 41/10                | 41/10                | 41/10                | 41/10                | 41/10                |
| 4.15                                         | Ground clearance (at mast)                                         | m1    | in    | 5                    | 5                    | 5                    | 5                    | 5                    | 5                    |
| 4.16                                         | Ground clearance (center of wheelbase)                             | m2    | in    | 5                    | 5                    | 5                    | 5                    | 5                    | 5                    |
| 4.17                                         | Right angle stacking aisle width for pallet 1000 x1200mm crossways | Ast   | in    | 146                  | 146                  | 146                  | 146                  | 146                  | 146                  |
| 4.18                                         | Right angle stacking aisle width for pallet 800 x1200mm lengthways | Ast   | in    | 154                  | 154                  | 154                  | 154                  | 154                  | 154                  |
| 4.19                                         | Min. outside turning radius                                        | Wa    | in    | 81                   | 81                   | 81                   | 81                   | 81                   | 81                   |
| Performance Data                             |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 5.01                                         | Travel speed (laden/unladen)                                       |       | mph   | 12/13                | 12/13                | 11/12                | 11/12                | 9/9                  | 9/9                  |
| 5.02                                         | Lift speed (laden/unladen)                                         |       | fpm   | 96/118               | 93/118               | 91/110               | 87/110               | 75/96                | 69/96                |
| 5.03                                         | Lowering speed (laden/unladen)                                     |       | fpm   | 93/98                | 93/98                | 93/98                | 93/98                | 93/98                | 93/98                |
| 5.04                                         | Max.drawbar pull (laden)                                           |       | N     | 22500                | 22500                | 19000                | 19000                | 16500                | 16500                |
| 5.05                                         | Max.gradeability (laden/unladen)                                   |       | %     | 25/28                | 24/28                | 22/28                | 20/28                | 18/25                | 16/25                |
| 5.06                                         | Acceleration time(10 m)(laden/unladen)                             |       | S     | 5.5/4.8              | 5.8/5.1              | 5.8/5.1              | 6.0/5.3              | 6.0/5.3              | 6.4/5.6              |
| Battery                                      |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 6.01                                         | Battery voltage/Capacity                                           |       | V/ Ah | 80/271               | 80/271               | 80/271               | 80/271               | 80/202               | 80/202               |
| 6.02                                         | Battery weight                                                     |       | lbs   | 440                  | 440                  | 440                  | 440                  | 440                  | 440                  |
| Motor and controller                         |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 7.01                                         | Driving motor powering (S2-60min)                                  |       | hp    | 13                   | 13                   | 12                   | 12                   | 11                   | 11                   |
| 7.02                                         | Lifting motor powering (S3-15%)                                    |       | hp    | 19                   | 19                   | 19                   | 19                   | 16                   | 16                   |
| 7.03                                         | Driving motor controlling mode                                     |       |       | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            |
| 7.04                                         | Lifting motor controlling mode                                     |       |       | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            |
| Addition data                                |                                                                    |       |       |                      |                      |                      |                      |                      |                      |
| 8.01                                         | Service brake/Parking brake                                        |       |       | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical |
| 8.02                                         | Operating pressure for attachments                                 |       | Mn2   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   |

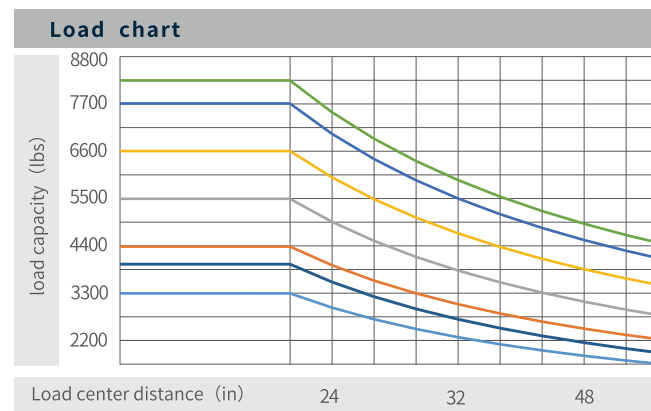
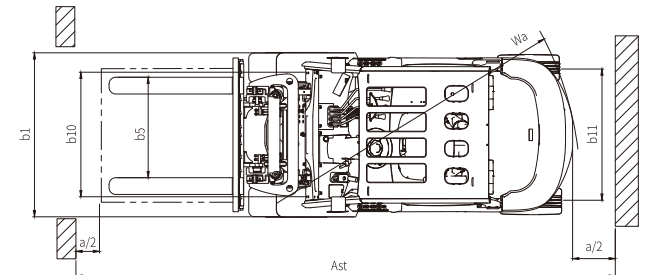
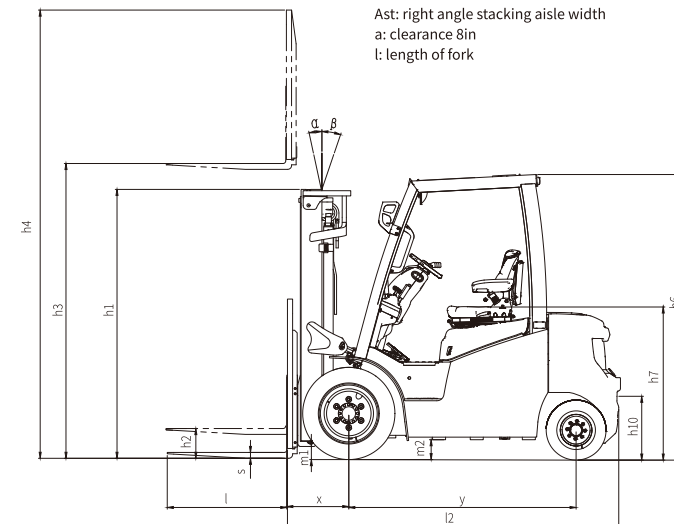
Note:  
(1) In the configuration number, 2 refers to ZAPI controller, 6 refers to HELI technology controller.  
(2) h7 is the value for standard configuration. For He'an suspension seat, h7 is 1in increased; for Grammer's suspension seat, h7 is 2in increased

| Manufacturer and Technical Data(Tabulation3) |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
|----------------------------------------------|---------------------------------------------------------------------|-------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Characteristics                              |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
| 1.01                                         | Manufacturer                                                        |       |       | <b>HELI</b>          |                      |                      |                      |                      |                      |                      |
| 1.02                                         | Model                                                               |       |       | CPD30                | CPD35                | CPD30                | CPD35                | CPD30                | CPD35                | CPD38                |
| 1.03                                         | Configuration number                                                |       |       | GB2LI-H*<br>GB6LI-H  | GB2LI-H*<br>GB6LI-H  | GB2LI-M              | GB2LI-M              | GB2LI-S*<br>GB6LI-S  | GB2LI-S*<br>GB6LI-S  | GB2LI-S*<br>GB6LI-S  |
| 1.04                                         | Rated capacity                                                      | Q     | lbs   | 6000                 | 7000                 | 6000                 | 7000                 | 6000                 | 7000                 | 7500                 |
| 1.05                                         | Load center distance                                                | c     | in    | 24                   | 24                   | 24                   | 24                   | 24                   | 24                   | 24                   |
| 1.06                                         | Power mode                                                          |       |       | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      | Lithium battery      |
| 1.07                                         | Driving mode                                                        |       |       | Seated               | Seated               | Seated               | Seated               | Seated               | Seated               | Seated               |
| 1.08                                         | Front overhang                                                      | x     | in    | 19                   | 19                   | 19                   | 19                   | 19                   | 19                   | 19                   |
| 1.09                                         | Wheelbase                                                           | y     | in    | 69                   | 69                   | 69                   | 69                   | 69                   | 70                   | 70                   |
| Weight                                       |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
| 2.01                                         | Total weight (with/without battery)                                 |       | lbs   | 9160/8460            | 10000/9300           | 9160/8460            | 10000/9300           | 9160/8460            | 10000/9300           | 10460/9760           |
| 2.02                                         | Axle load (laden, front/rear)                                       |       | lbs   | 13460/1700           | 15160/1840           | 13460/1700           | 15160/1840           | 13460/1700           | 15160/1840           | 16256/1804           |
| 2.03                                         | Axle load (unladen, front/rear)                                     |       | lbs   | 4100/5060            | 4224/5776            | 4100/5060            | 4224/5776            | 4100/5060            | 4224/5776            | 4456/6004            |
| Tyres                                        |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
| 3.01                                         | Tyre type                                                           |       |       | Pneumatic/Solid tyre | Solid tyre           | Pneumatic/Solid tyre | Solid tyre           | Pneumatic/Solid tyre | Solid tyre           | Pneumatic/Solid tyre |
| 3.02                                         | Tyre size, front                                                    |       |       | 28×9-15-14PR         | 28×9-15              | 28×9-15-14PR         | 28×9-15              | 28×9-15-14PR         | 28×9-15              | 28×12.5-15-24PR      |
| 3.03                                         | Tyre size, rear                                                     |       |       | 200/50-10            | 200/50-10            | 200/50-10            | 200/50-10            | 200/50-10            | 200/50-10            | 200/50-10            |
| 3.04                                         | Wheels, number front/rear (x=driven wheels)                         |       |       | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  |
| 3.05                                         | Tread, front                                                        | b10   | in    | 39                   | 39                   | 39                   | 39                   | 39                   | 39                   | 43                   |
| 3.06                                         | Tread, rear                                                         | b11   | in    | 38                   | 38                   | 38                   | 38                   | 38                   | 38                   | 38                   |
| Dimensions                                   |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
| 4.01                                         | Mast tilt angle (forward/backward)                                  | α/β   | °     | 6/12                 | 6/12                 | 6/12                 | 6/12                 | 6/12                 | 6/12                 | 6/12                 |
| 4.02                                         | Height (mast lowered)                                               | h1    | in    | 81                   | 83                   | 81                   | 83                   | 81                   | 83                   | 86                   |
| 4.03                                         | Free lifting height                                                 | h2    | in    | 6                    | 6                    | 6                    | 6                    | 6                    | 6                    | 6                    |
| 4.04                                         | Lifting height (standard)                                           | h3    | in    | 118                  | 118                  | 118                  | 118                  | 118                  | 118                  | 118                  |
| 4.05                                         | Max. height, extended (with backrest)                               | h4    | in    | 166                  | 166                  | 166                  | 166                  | 166                  | 166                  | 166                  |
| 4.06                                         | Height of overhead guard                                            | h6    | in    | 86                   | 86                   | 86                   | 86                   | 86                   | 86                   | 86                   |
| 4.07                                         | Seat height relating to SIP (to ground)                             | h7    | in    | 45                   | 45                   | 45                   | 45                   | 45                   | 45                   | 45                   |
| 4.08                                         | Towing coupling height                                              | h10   | in    | 13                   | 13                   | 13                   | 13                   | 13                   | 13                   | 13                   |
| 4.09                                         | Overall length (with fork)                                          | l1    | in    | 143                  | 143                  | 143                  | 143                  | 143                  | 143                  | 145                  |
| 4.10                                         | Overall length (without fork)                                       | l2    | in    | 101                  | 101                  | 101                  | 101                  | 101                  | 101                  | 103                  |
| 4.11                                         | Overall width                                                       | b1    | in    | 48                   | 48                   | 48                   | 48                   | 48                   | 48                   | 55                   |
| 4.12                                         | Fork size: thickness x width x length                               | s/e/l | in    | 2×5×42               | 2×5×42               | 2×5×42               | 2×5×42               | 2×5×42               | 2×5×42               | 2×5×42               |
| 4.13                                         | Fork carriage, according to ISO2328                                 |       |       | 3A                   | 3A                   | 3A                   | 3A                   | 3A                   | 3A                   | 3A                   |
| 4.14                                         | Distance across fork-arms, Max./Min.                                | b5    | in    | 42/10                | 42/10                | 42/10                | 42/10                | 42/10                | 42/10                | 42/10                |
| 4.15                                         | Ground clearance (at mast)                                          | m1    | in    | 5                    | 5                    | 5                    | 5                    | 5                    | 5                    | 5                    |
| 4.16                                         | Ground clearance (center of wheelbase)                              | m2    | in    | 6                    | 6                    | 6                    | 6                    | 6                    | 6                    | 6                    |
| 4.17                                         | Right angle stacking aisle width for pallet 1000 x 1200mm crossways | Ast   | in    | 153                  | 153                  | 153                  | 153                  | 153                  | 155                  | 155                  |
| 4.18                                         | Right angle stacking aisle width for pallet 800 x 1200mm lengthways | Ast   | in    | 161                  | 161                  | 161                  | 161                  | 161                  | 163                  | 163                  |
| 4.19                                         | Min. outside turning radius                                         | Wa    | in    | 87                   | 87                   | 87                   | 87                   | 87                   | 89                   | 89                   |
| Performance data                             |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
| 5.01                                         | Travel speed (laden/unladen)                                        |       | mph   | 12/13                | 12/13                | 11/12                | 11/12                | 9/9                  | 9/9                  | 11/11                |
| 5.02                                         | Lift speed (laden/unladen)                                          |       | fpm   | 95/118               | 87/106               | 81/106               | 77/106               | 73/96                | 67/89                | 75/100               |
| 5.03                                         | Lowering speed (laden/unladen)                                      |       | fpm   | 93/98                | 93/98                | 93/98                | 93/98                | 93/98                | 93/98                | 93/98                |
| 5.04                                         | Max. drawbar pull (laden)                                           |       | N     | 23500                | 23500                | 21500                | 21500                | 17500                | 17500                | 21500                |
| 5.05                                         | Max. gradeability (laden/unladen)                                   |       | %     | 22/28                | 20/28                | 20/28                | 18/28                | 16/25                | 15/25                | 17/25                |
| 5.06                                         | Acceleration time(10 m)(laden/unladen)                              |       | s     | 5.5/4.8              | 5.8/5.1              | 5.8/5.1              | 6.0/5.3              | 6.0/5.3              | 6.4/5.6              | 5.7/5                |
| Battery                                      |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
| 6.01                                         | Battery voltage/Capacity                                            |       | V/ Ah | 80/404               | 80/404               | 80/404               | 80/404               | 80/280               | 80/280               | 80/346               |
| 6.02                                         | Battery weight                                                      |       | lbs   | 700                  | 700                  | 700                  | 700                  | 700                  | 700                  | 700                  |
| Motor and controller                         |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
| 7.01                                         | Driving motor powering (S2-60min)                                   |       | kW    | 12.7                 | 12.7                 | 12.4                 | 12.4                 | 11.2                 | 11.2                 | 12.7                 |
| 7.02                                         | Lifting motor powering (S3-15%)                                     |       | kW    | 19.4                 | 19.4                 | 19.0                 | 19.0                 | 15.7                 | 15.7                 | 19.4                 |
| 7.03                                         | Driving motor controlling mode                                      |       |       | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            |
| 7.04                                         | Lifting motor controlling mode                                      |       |       | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            |
| Addition data                                |                                                                     |       |       |                      |                      |                      |                      |                      |                      |                      |
| 8.01                                         | Service brake/Parking brake                                         |       |       | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical |
| 8.02                                         | Operating pressure for attachments                                  |       | Mpa   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   | 16                   |

Note:

(1) In the configuration number, 2 refers to ZAPI controller, 6 refers to HELI technology controller.

(2) h7 is the value for standard configuration. For He'an suspension seat, h7 is 1in increased; for Grammer's suspension seat, h7 is 2in increased.



3300lbs 3900lbs 4400lbs 5500lbs  
6600lbs 7700lbs 8300lbs

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 40in dimension in length, width and height. The load capacity should be down, if the mast tilts forward, using non-standard forks or loading goods with extra width. Please notice the different load capacity between different load centers according to the load chart.

| Color Options (the color of truck body can be customized) |                        |                     |                     |
|-----------------------------------------------------------|------------------------|---------------------|---------------------|
| Model                                                     | Standard configuration | Selective assembly1 | Selective assembly2 |
| H                                                         |                        |                     |                     |
| M                                                         |                        |                     |                     |
| S                                                         |                        |                     |                     |

Note: The color of the appearance of model CPD15/18/20/25/30/35-GB6LI-H is the same with that of model M and S.



| Wide View Standard Mast (Tabulation1) |                         |                                         |       |       |       |       |       |       |                            |       |       |       |       |       |
|---------------------------------------|-------------------------|-----------------------------------------|-------|-------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-------|-------|
| Mast model                            | Max. 11ft1ng height(in) | Load capacity ( lode center 24in)( lbs) |       |       |       |       |       |       | Height ( mast lowered)(in) |       |       |       |       |       |
|                                       |                         | CPD15                                   | CPD18 | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 | CPD15-18                   | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 |
| M200                                  | 79                      | 3000                                    | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 59                         | 59    | 59    | 62    | 64    | 66    |
| M250                                  | 98                      | 3000                                    | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 69                         | 69    | 69    | 72    | 74    | 76    |
| M300                                  | 118                     | 3000                                    | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 75                         | 79    | 79    | 81    | 83    | 86    |
| M330                                  | 130                     | 3000                                    | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 84                         | 85    | 85    | 87    | 89    | 92    |
| M350                                  | 138                     | 3000                                    | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 88                         | 88    | 88    | 91    | 93    | 96    |
| M370                                  | 146                     | 3000                                    | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 92                         | 92    | 92    | 95    | 97    | 100   |
| M400                                  | 157                     | 3000                                    | 3600  | 4000  | 5000  | 6000  | 7000  | 7300  | 100                        | 100   | 100   | 103   | 105   | 107   |
| M425                                  | 167                     | 3000                                    | 3600  | 3900  | 4900  | 5700  | 6600  | 7000  | 105                        | 105   | 105   | 108   | 110   | 112   |
| M450                                  | 177                     | 2900                                    | 3300  | 3800  | 4600  | 5500  | 6300  | 6700  | 110                        | 110   | 110   | 113   | 115   | 117   |
| M500                                  | 197                     | 2400                                    | 2800  | 3600  | 4200  | 4800  | 5700  | 6000  | 120                        | 120   | 120   | 123   | 125   | 127   |
| M550                                  | 216                     | 2000                                    | 2200  | 2800  | 3000  | 3500  | 4500  | 5400  | 132                        | 132   | 132   | 135   | 137   | 139   |
| M600                                  | 236                     | 1600                                    | 1800  | 2100  | 2300  | 3000  | 3300  | 4400  | 141                        | 142   | 142   | 144   | 146   | 149   |
|                                       |                         | *2400                                   | *2900 | *3200 | *3600 | *4400 | *4800 | *5400 |                            |       |       |       |       |       |

Note: (1) \* refers to the rated load capacity of double-tyres for front wheels;  
(2) When the front wheel of 3300-3900lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 128lbs and 229lbs respectively.  
(3) When the front wheel of 4400-5500lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 209lbs and 341lbs respectively.  
(4) When the front wheel of 6600-7700lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 308lbs and 458lbs respectively.  
(5) When the front wheel of 8300lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre),the service weight is increased by 227lbs and 552lbs respectively.

| Wide View Full Free 2-Stage Mast (Tabulation1) |                         |                                        |       |       |       |       |       |       |                            |       |       |       |       |       |
|------------------------------------------------|-------------------------|----------------------------------------|-------|-------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-------|-------|
| Mast model                                     | Max. 11ft1ng height(in) | Load capacity ( lode center 24in)(lbs) |       |       |       |       |       |       | Height ( mast lowered)(in) |       |       |       |       |       |
|                                                |                         | CPD15                                  | CPD18 | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 | CPD15-18                   | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 |
| ZM200                                          | 79                      | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 59                         | 59    | 59    | 62    | 64    | 66    |
| ZM250                                          | 98                      | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 69                         | 69    | 69    | 72    | 74    | 76    |
| ZM300                                          | 118                     | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 75                         | 79    | 79    | 81    | 83    | 86    |
| ZM330                                          | 130                     | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 84                         | 85    | 85    | 87    | 89    | 92    |
| ZM350                                          | 138                     | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 88                         | 88    | 88    | 91    | 93    | 96    |
| ZM370                                          | 146                     | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 92                         | 92    | 92    | 95    | 97    | 100   |
| ZM400                                          | 157                     | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7300  | 100                        | 100   | 100   | 103   | 105   | 107   |
| ZM425                                          | 167                     | 3000                                   | 3600  | 3900  | 4900  | 5700  | 6600  | 7000  | 105                        | 105   | 105   | 108   | 110   | 112   |
| ZM450                                          | 177                     | 2900                                   | 3300  | 3800  | 4600  | 5500  | 6300  | 6700  | 110                        | 110   | 110   | 113   | 115   | 117   |
| ZM500                                          | 197                     | 2400                                   | 2800  | 3600  | 4200  | 4800  | 5700  | 6000  | 120                        | 120   | 120   | 123   | 125   | 127   |
| ZM550                                          | 216                     | 2000                                   | 2200  | 2800  | 3000  | 3500  | 4500  | 5400  | 132                        | 132   | 132   | 135   | 137   | 139   |
| ZM600                                          | 236                     | 1600                                   | 1800  | 2100  | 2300  | 3000  | 3300  | 4400  | 141                        | 142   | 142   | 144   | 146   | 149   |
|                                                |                         | *2400                                  | *2900 | *3200 | *3600 | *4400 | *4800 |       |                            |       |       |       |       |       |

Note: (1) \* refers to the rated load capacity of double-tyres for front wheels;  
(2) When the front wheel of 3300-3900lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 128lbs and 229lbs respectively.  
(3) When the front wheel of 4400-5500lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 209lbs and 341lbs respectively.  
(4) When the front wheel of 6600-7700lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 308lbs and 458lbs respectively.  
(5) When the front wheel of 8300lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 227lbs and 552lbs respectively.  
(6) 4400-5500lbs: the free lifting height increases by 15in without backrest  
(7) 6600lbs: the free lifting height increases by 19in without backrest  
(8) 7700-8300lbs: the free lifting height increases by 16in without backrest

| Wide View Full Free 3-Stage Mast (Tabulation1) |                         |                                        |       |       |       |       |       |       |                           |       |       |       |       |       |
|------------------------------------------------|-------------------------|----------------------------------------|-------|-------|-------|-------|-------|-------|---------------------------|-------|-------|-------|-------|-------|
| Mast model                                     | Max. lifting height(in) | Load capacity ( lode center 24in)(lbs) |       |       |       |       |       |       | Height (mast lowered)(in) |       |       |       |       |       |
|                                                |                         | CPD15                                  | CPD18 | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 | CPD15-18                  | CPD20 | CPD25 | CPD30 | CPD25 | CPD38 |
| ZSM360                                         | 142                     | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7600  | 70                        | 71    | 71    | 74    | 74    | 76    |
| ZSM400                                         | 157                     | 3000                                   | 3600  | 4000  | 5000  | 6000  | 7000  | 7300  | 76                        | 77    | 77    | 80    | 80    | 81    |
| ZSM435                                         | 171                     | 2900                                   | 3400  | 3800  | 4800  | 5700  | 6400  | 7000  | 80                        | 81    | 81    | 83    | 83    | 86    |
| ZSM450                                         | 177                     | *3000                                  | *3600 | *4000 | *5000 | *5800 | *6700 | *7100 | 82                        | 83    | 83    | 85    | 85    | 88    |
| ZSM470                                         | 185                     | 2900                                   | 3300  | 3700  | 4600  | 5400  | 6100  | 6700  | 85                        | 85    | 85    | 88    | 88    | 90    |
| ZSM480                                         | 189                     | *3000                                  | *3500 | *3800 | *4700 | *5700 | *6400 | *7000 | 86                        | 87    | 87    | 89    | 89    | 92    |
| ZSM500                                         | 197                     | 2400                                   | 2800  | 3600  | 4400  | 5300  | 5800  | 6200  | 90                        | 91    | 91    | 93    | 93    | 96    |
| ZSM540                                         | 213                     | 2000                                   | 2200  | 2900  | 3000  | 3500  | 4500  | 5400  | 95                        | 94    | 94    | 97    | 97    | 101   |
| ZSM600                                         | 236                     | 1600                                   | 1800  | 2000  | 2200  | 2800  | 3300  | 4400  | 104                       | 102   | 102   | 105   | 105   | 109   |
| ZSM650                                         | 256                     | *2400                                  | *2900 | *3200 | *3600 | *4400 | *4800 | *5200 | 112                       | 110   | 110   | 113   | 113   | —     |
| ZSM700                                         | 276                     | *1800                                  | *1900 | *2300 | *2600 | *3600 | *4000 | —     | 119                       | 117   | 117   | 120   | 120   | —     |
| ZSM750                                         | 295                     | —                                      | —     | *1900 | *2100 | *2400 | *2600 | —     | —                         | 124   | 124   | 133   | 133   | —     |

Note: (1) \* refers to the rated load capacity of double-tyres for front wheels;  
(2) When the front wheel of 3300-3900lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 128lbs and 229lbs respectively.  
(3) When the front wheel of 4400-5500lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 209lbs and 341lbs respectively.  
(4) When the front wheel of 6600-7700lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 308lbs and 458lbs respectively.  
(5) When the front wheel of 8300lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 227lbs and 552lbs respectively.  
(6) 4400-5500lbs: the free lifting height increases by 15in without backrest  
(7) 6600lbs: the free lifting height increases by 19in without backrest  
(8) 7700-8300lbs: the free lifting height increases by 16in without backrest

| Wide View Standard Mast (Tabulation2) |                                |       |       |       |       |       |                      |       |       |       |       |       |       |                         |          |  |
|---------------------------------------|--------------------------------|-------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|-------|-------------------------|----------|--|
| Mast model                            | Free lift (with backrest) (in) |       |       |       |       |       | Service weight (lbs) |       |       |       |       |       |       | Mast tilt angle α/β (°) |          |  |
|                                       | CPD15-18                       | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 | CPD15                | CPD18 | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 | CPD15-18                | CPD20-38 |  |
| M200                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 5772                 | 6232  | 6960  | 7740  | 8968  | 9788  | 10280 | 6/10                    | 6/12     |  |
| M250                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 5836                 | 6296  | 7050  | 7830  | 9064  | 9894  | 10370 | 6/10                    | 6/12     |  |
| M300                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 5900                 | 6360  | 7140  | 7920  | 9160  | 10000 | 10460 | 6/10                    | 6/12     |  |
| M330                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 5938                 | 6398  | 7194  | 7974  | 9218  | 10064 | 10520 | 6/10                    | 6/12     |  |
| M350                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 5964                 | 6424  | 7230  | 8010  | 9256  | 10106 | 10560 | 6/10                    | 6/12     |  |
| M370                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 5990                 | 6450  | 7266  | 8046  | 9294  | 10148 | 10594 | 6/6                     | 6/6      |  |
| M400                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 6086                 | 6546  | 7420  | 8200  | 9454  | 10316 | 10740 | 6/6                     | 6/6      |  |
| M425                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 6120                 | 6580  | 7466  | 8246  | 9502  | 10368 | 10784 | 6/6                     | *6/12    |  |
| M450                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 6152                 | 6612  | 7510  | 8290  | 9550  | 10422 | 10828 | *6/10                   | *6/12    |  |
| M500                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 6216                 | 6676  | 7600  | 8380  | 9646  | 10528 | 10920 | *6/6                    | *6/6     |  |
| M550                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 6340                 | 6800  | 7790  | 8570  | 9842  | 10736 | 11100 | *3/6                    | *3/6     |  |
| M600                                  | 6                              | 6     | 6     | 6     | 6     | 6     | 6404                 | 6864  | 7880  | 8660  | 9938  | 10842 | 11192 | 3/8                     | *3/6     |  |

Note: (1) \* refers to the rated load capacity of double-tyres for front wheels;  
(2) When the front wheel of 3300-3900lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 128lbs and 229lbs respectively.  
(3) When the front wheel of 4400-5500lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 209lbs and 341lbs respectively.  
(4) When the front wheel of 6600-7700lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 308lbs and 458lbs respectively.  
(5) When the front wheel of 8300lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre),the service weight is increased by 227lbs and 552lbs respectively.

| Wide View Full Free 2-Stage Mast (Tabulation2) |                               |       |       |       |       |       |                      |       |       |       |       |       |       |                         |          |  |
|------------------------------------------------|-------------------------------|-------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|-------|-------------------------|----------|--|
| Mast model                                     | Free lift( with backrest)(in) |       |       |       |       |       | Service weight (lbs) |       |       |       |       |       |       | Mast tilt angle α/β (°) |          |  |
|                                                | CPD15-18                      | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 | CPD15                | CPD18 | CPD20 | CPD25 | CPD30 | CPD35 | CPD38 | CPD15-18                | CPD20-38 |  |
| ZM200                                          | 19                            | 20    | 20    | 13    | 17    | 20    | 5870                 | 6330  | 6984  | 7764  | 9010  | 9822  | 10386 | 6/10                    | 6/12     |  |
| ZM250                                          | 29                            | 29    | 29    | 23    | 27    | 30    | 5934                 | 6394  | 7080  | 7860  | 9110  | 9928  | 10496 | 6/10                    | 6/12     |  |
| ZM300                                          | 985                           | 39    | 39    | 33    | 37    | 39    | 6002                 | 6462  | 7174  | 7954  | 9210  | 10036 | 10606 | 6/10                    | 6/12     |  |
| ZM330                                          | 39                            | 45    | 45    | 39    | 43    | 45    | 6046                 | 6506  | 7234  | 8014  | 9274  | 10102 | 10672 | 6/10                    | 6/12     |  |
| ZM350                                          | 49                            | 49    | 49    | 43    | 47    | 49    | 6076                 | 6536  | 7270  | 8050  | 9314  | 10144 | 10716 | 6/10                    | 6/12     |  |
| ZM370                                          | 53                            | 53    | 53    | 47    | 51    | 53    | 6100                 | 6560  | 7310  | 8090  | 9354  | 10186 | 10760 | 6/6                     | 6/6      |  |
| ZM400                                          | 60                            | 61    | 61    | 55    | 59    | 61    | 6196                 | 6656  | 7462  | 8242  | 9510  | 10346 | 10900 | 6/6                     | 6/6      |  |
| ZM425                                          | 65                            | 66    | 66    | 60    | 64    | —     | 6234                 | 6694  | 7510  | 8290  | 9562  | 10400 | —     | 6/6                     | —        |  |
| ZM450                                          | 70                            | 71    | 71    | 65    | 69    | —     | 6272                 | 6732  | 7562  | 8342  | 9618  | 10458 | —     | *6/10                   | —        |  |
| ZM500                                          | 80                            | 81    | 81    | 74    | 78    | —     | 6340                 | 6800  | 7664  | 8444  | 9726  | 10570 | —     | *6/6                    | —        |  |
| ZM550                                          | 92                            | 92    | 92    | 86    | 90    | —     | 6462                 | 6922  | 7858  | 8638  | 9924  | 10776 | —     | *3/6                    | —        |  |
| ZM600                                          | 102                           | 102   | 102   | 96    | 100   | —     | 6530                 | 6990  | 7958  | 8738  | 10030 | 10888 | —     | 3/8                     | —        |  |

Note: (1) \* refers to the rated load capacity of double-tyres for front wheels;  
(2) When the front wheel of 3300-3900lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 128lbs and 229lbs respectively.  
(3) When the front wheel of 4400-5500lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 209lbs and 341lbs respectively.  
(4) When the front wheel of 6600-7700lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 308lbs and 458lbs respectively.  
(5) When the front wheel of 8300lbs truck is double-tyres (pneumatic tyre) and double tyre (solid tyre), the service weight is increased by 227lbs and 552lbs respectively.  
(6) 4400-5500lbs: the

| Lithium battery (Tabulation1) |               |            |            |            |            |            |            |            |            |            |               |            |            |            |            |
|-------------------------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|
| Battery brand                 | ENEROC (CATL) |            |            |            |            |            |            |            |            |            | HELI (LISHEN) |            |            |            |            |
| Voltage/Capacity              | 80V/150Ah*    | 80V/202Ah* | 80V/228Ah* | 80V/271Ah* | 80V/302Ah* | 80V/346Ah* | 80V/404Ah* | 80V/456Ah* | 80V/542Ah* | 80V/604Ah* | 80V/150Ah*    | 80V/202Ah* | 80V/280Ah* | 80V/404Ah* | 80V/560Ah* |
| 1.5-1.8-2t(E)S                | ○             | ○          | ○          | ○          | ○          | —          | —          | —          | —          | —          | ●             | ○          | ○          | —          | —          |
| 1.5-1.8t M                    | —             | ○          | ○          | ○          | ○          | —          | —          | —          | —          | —          | —             | ●          | ○          | —          | —          |
| 1.5-1.8t H                    | —             | ○          | ○          | ○          | ○          | —          | —          | —          | —          | —          | —             | ●          | ○          | —          | —          |
| 2-2.5t S                      | —             | ○          | ○          | ○          | ○          | ○          | ○          | ○          | —          | —          | —             | ●          | ○          | ○          | —          |
| 2-2.5t M                      | —             | —          | —          | ○          | ○          | ○          | ○          | ○          | —          | —          | —             | —          | ●          | ○          | —          |
| 2-2.5t H                      | —             | —          | —          | ○          | ○          | ○          | ○          | ○          | —          | —          | —             | —          | ●          | ○          | —          |
| 3-3.5t S                      | —             | —          | —          | ○          | ○          | ○          | ○          | ○          | ○          | ○          | —             | —          | ●          | ○          | ○          |
| 3-3.5t M                      | —             | —          | —          | —          | —          | ○          | ○          | ○          | ○          | ○          | —             | —          | —          | ●          | ○          |
| 3-3.5t H                      | —             | —          | —          | —          | —          | ○          | ○          | ○          | ○          | ○          | —             | —          | —          | ●          | ○          |
| 3.8t S                        | —             | —          | —          | ○          | ○          | ○          | ○          | ○          | ○          | ○          | —             | —          | ●          | ○          | ○          |
| 3.8t M                        | —             | —          | —          | —          | —          | ○          | ○          | ○          | ○          | ○          | —             | —          | —          | ●          | ○          |
| Heating at low Temperature    | ●             |            |            |            |            |            |            |            |            |            |               |            |            |            |            |

Note: “●”standard ; “○”optional ; “—” non-configurable;

| Lithium battery (Tabulation2) |             |            |            |            |            |            |           |           |           |           |           |
|-------------------------------|-------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|
| Battery brand                 | HELI (CATL) |            |            |            |            |            | EIKTO     |           |           |           |           |
| Voltage/Capacity              | 80V/150Ah*  | 80V/228Ah* | 80V/302Ah* | 80V/346Ah* | 80V/456Ah* | 80V/604Ah* | 80V/150Ah | 80V/220Ah | 80V/270Ah | 80V/300Ah | 80V/350Ah |
| 1.5-1.8-2t(E)S                | ○           | ○          | ○          | —          | —          | —          | ○         | ○         | ○         | —         | —         |
| 1.5-1.8t M                    | —           | ○          | ○          | —          | —          | —          | —         | —         | —         | —         | —         |
| 1.5-1.8t H                    | —           | ○          | ○          | —          | —          | —          | —         | —         | —         | —         | —         |
| 2-2.5t S                      | —           | ○          | ○          | ○          | ○          | —          | —         | ○         | —         | ○         | ○         |
| 2-2.5t M                      | —           | —          | ○          | ○          | ○          | —          | —         | —         | —         | —         | —         |
| 2-2.5t H                      | —           | —          | ○          | ○          | ○          | —          | —         | —         | —         | —         | —         |
| 3-3.5t S                      | —           | —          | ○          | ○          | ○          | ○          | —         | —         | —         | ○         | ○         |
| 3-3.5t M                      | —           | —          | —          | ○          | ○          | ○          | —         | —         | —         | —         | —         |
| 3-3.5t H                      | —           | —          | —          | ○          | ○          | ○          | —         | —         | —         | —         | —         |
| 3.8t S                        | —           | —          | ○          | ○          | ○          | ○          | —         | —         | —         | ○         | ○         |
| 3.8t M                        | —           | —          | —          | ○          | ○          | ○          | —         | —         | —         | —         | —         |
| Heating at low Temperature    | ●           |            |            |            |            |            |           |           |           |           |           |

Note: “●”standard ; “○”optional ; “—” non-configurable;

| Charger                               |     |                                                                                                                                                                                                                                                  |                                                                  |
|---------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Model                                 |     | D80V200ALi-123<br>D80V200ALi-423                                                                                                                                                                                                                 | D80V-100A-Li-123<br>D80V-100A-Li-423                             |
| Applied battery type                  |     | 48/80V lithium battery recommendation: capacity higher than 240Ah                                                                                                                                                                                | 48/80V lithium battery recommendation: capacity lower than 240Ah |
| Wiring type                           |     | Three-phase four-wiring type                                                                                                                                                                                                                     |                                                                  |
| Power of charger                      | KVA | 22                                                                                                                                                                                                                                               | 10                                                               |
| Air switch model of Upper level power | A   | 63                                                                                                                                                                                                                                               | 32                                                               |
| Input voltage range                   | Vac | 380±15%                                                                                                                                                                                                                                          |                                                                  |
| Input current                         | A   | <40                                                                                                                                                                                                                                              | <20                                                              |
| Output current                        | A   | 0~200                                                                                                                                                                                                                                            | 0~100                                                            |
| Protection level                      |     | (For indoor use )                                                                                                                                                                                                                                |                                                                  |
| Working ambient temperature           | °C  | -20~+45                                                                                                                                                                                                                                          |                                                                  |
| Plugs and sockets                     |     | Charger meeting national standard                                                                                                                                                                                                                |                                                                  |
| Charger                               |     | Full charging time=required chaging capacity/charging current+0.2h<br>For example: the battery capacity is 80V/404Ah, and the discharging state is alarmed by instrument, The charger is 200A, thus the full charging time is 404*0.9/200+0.2≈2h |                                                                  |

| Optional                |                                                                         |   |    |    |
|-------------------------|-------------------------------------------------------------------------|---|----|----|
| Model                   |                                                                         | S | M  | H  |
| Safety                  | Steering automatic deceleration                                         | ● | ●  | ●  |
|                         | Reversing handle with horn button                                       | ● | ●  | ●  |
|                         | Over speed alarm (5km/h)                                                | ○ | ○  | ○  |
|                         | Over speed alarm (8km/h)                                                | ○ | ○  | ○  |
|                         | Over speed alarm (10km/h)                                               | ○ | ○  | ○  |
|                         | OPS (excluding descent)                                                 | ● | ●  | ○  |
|                         | OPS                                                                     | ○ | ○  | ●  |
|                         | Seat switch                                                             | ○ | ○  | ○  |
|                         | Multi way valve overload                                                | ● | ●  | ●  |
|                         | Dry-powder fire extinguisher (0.5kg)                                    | ○ | ○  | ○  |
|                         | Dry-powder fire extinguisher (2kg)                                      | ○ | ○  | ○  |
|                         | Backward buzzer                                                         | ● | ●  | ●  |
|                         | Reversing chinese language speaker                                      | ○ | ○  | ○  |
|                         | Electronic upper buffer                                                 | — | ○  | ○  |
|                         | Rearview mirror with angle in the middle                                | ● | ●  | ●  |
|                         | Left and right rearview mirror+rearview mirror with angle in the middle | ○ | ○  | ○  |
|                         | Reversing radar (4 probes)                                              | ○ | ○  | ○  |
|                         | Reversing image (1 camera +4 probes)                                    | ○ | ○  | ○  |
| Comfort                 | Semi-enclosed seat                                                      | ● | ●  | ●  |
|                         | Suspension seat                                                         | ○ | ○  | ○  |
|                         | USB                                                                     | ● | ●  | ●  |
|                         | Steer activated by steering wheel                                       | ● | ●  | ●  |
|                         | Mechanical valve                                                        | ● | ●  | ●  |
|                         | Electro-magnetic valve(proportion valve+thumb switch)                   | — | ○* | ○* |
|                         | Fan                                                                     | ○ | ○  | ○  |
| Optional overhead guard | Height of overhead guard 50mm increased                                 | ○ | ○  | ○  |
|                         | Overhead guard with protection net                                      | ○ | ○  | ○  |
| Cab/Windshield          | Panel-mounted cab (with fan +windshield wiper)                          | ○ | ○  | ○  |
|                         | With heater                                                             | ○ | ○  | ○  |
|                         | With cooling air conditioner (rear installed type)                      | ○ | ○  | ○  |
|                         | With cooling air conditioner (rear installed type) +heater              | ○ | ○  | ○  |
|                         | With front windshield glass (with wiper)                                | ○ | ○  | ○  |
|                         | With rear windshield glass                                              | ○ | ○  | ○  |
|                         | With top rainshield glass (without fan)                                 | ○ | ○  | ○  |
|                         | LED rear working light                                                  | ○ | ○  | ○  |
| Lights                  | Front LED red/blue spotlight                                            | ○ | ○  | ○  |
|                         | Rear LED red/blue spot light                                            | ○ | ○  | ○  |
|                         | Three sides (left, right and rear) red/blue bar light                   | ○ | ○  | ○  |
|                         | Fixed LED flickering warning light                                      | ● | ●  | ●  |
|                         | Fixed LED rotating warning light                                        | ○ | ○  | ○  |
|                         | Fixed LED rotating and buzzer alarm light                               | ○ | ○  | ○  |
|                         | Single tyre (front wheel)                                               | ● | ●  | ●  |
| Others                  | Dual tyres (front wheel)                                                | ○ | ○  | ○  |
|                         | All climate tyre                                                        | ○ | ○  | ○  |
|                         | Metric thread                                                           | ● | ●  | ●  |
|                         | American thread                                                         | ○ | ○  | ○  |
|                         | Sleeve for tilting cylinder                                             | ● | ●  | ●  |
|                         | Sleeve for tilting cylinder and steering cylinder                       | ○ | ○  | ○  |
|                         | HELI FICS system                                                        | ○ | ○  | ○  |
|                         |                                                                         |   |    |    |

Note: “●”standard ; “○”optional ; “—” non-configurable; \*:only ZAPI controller