

HELI

## Configuration Table

| Basic categories                                                     |   |
|----------------------------------------------------------------------|---|
| HELI transmission box                                                | ● |
| ZF transmission box                                                  | ○ |
| Ordinary solid tire                                                  | ● |
| Traceless solid tire                                                 | ○ |
| Mechanical operation valve                                           | ● |
| Electromagnetic operation valve (proportional valve+ thumb switch)   | ○ |
| Two piece valve                                                      | ● |
| Three or four piece valve                                            | ○ |
| Basic 3m lifting height mast                                         | ● |
| Other type and other height series mast                              | ○ |
| Standard fork                                                        | ● |
| Non standard forks and Attachments                                   | ○ |
| Standard color (silver + Heli red)                                   | ● |
| Other colors (customized)                                            | ○ |
| Categories for Safety                                                |   |
| Cornering deceleration                                               | ● |
| Rear handle with horn for truck reversing                            | ● |
| Overspeed alarm (5km/h)                                              | ○ |
| Overspeed alarm (8km/h)                                              | ○ |
| Overspeed alarm (10km/h)                                             | ○ |
| Full set of OPS                                                      | ● |
| OPS(traveling+tilting+tilting+attachment) (lowering is not included) | ○ |
| Safety switch for seat belt                                          | ○ |
| Hydraulic valve overload protection device                           | ● |
| Dry powder extinguisher (0.5kg)                                      | ○ |
| Dry powder extinguisher (2kg)                                        | ○ |
| Backward buzzer                                                      | ● |
| Reversing speaker (Chinese)                                          | ○ |
| Exclusive key                                                        | ● |
| Universal key                                                        | ○ |
| Electronic upper buffering                                           | ● |
| Wide-angle central rear view mirror                                  | ● |
| Rearview mirror on two sides+ Center wide angle rearview mirror      | ○ |
| Reverse radar (4 probes)                                             | ○ |
| Reversing image (1 camera + 4 probes)                                | ○ |

| Categories for comfort                               |   |
|------------------------------------------------------|---|
| HEAN full suspension seat                            | ● |
| GRAMMER full suspension seat                         | ○ |
| 1 USB interface (5V/1A)                              | ● |
| Super low torque steering unit                       | ● |
| Steering started by steering wheel                   | ● |
| Steering wheel with operation ball                   | ● |
| Steering wheel without operation ball                | ○ |
| Fan                                                  | ○ |
| Optional overhead guard                              |   |
| Overhead guard with protection net                   | ○ |
| Cab / Windshields                                    |   |
| Panel mounted cab( with fan and wiper)               | ○ |
| Heater                                               | ○ |
| Rear mounted air conditioner only for cooling        | ○ |
| Rear mounted air conditioner only for cooling+heater | ○ |
| Front windshield (with wiper/no blow can)            | ○ |
| Rear windshield                                      | ○ |
| Top windshield (without fan)                         | ○ |
| Lights                                               |   |
| LED rear working lamp (one)                          | ○ |
| Rear LED red/blue spot lamp                          | ○ |
| Left, right and rear blue bar                        | ○ |
| Fixed type LED flicker warning lamp                  | ● |
| Fixed type LED rotating warning lamp                 | ○ |
| Fixed type LED rotating buzzer warning lamp          | ○ |
| Others                                               |   |
| Metric screw                                         | ● |
| SAE screw                                            | ○ |
| With protective sleeves for tilting cylinder         | ○ |
| With protective sleeves for steering cylinder        | ○ |
| FICS(basic edition) (for domestic)                   | ● |

Note: "●" standard ; "○" optional

# Tymbia

Handling & Warehouse Equipment

**CPD 25/30/35**  
GE2DLI



**LITON 2.5-3.5t**

G3 series Dual-drive  
Lithium Battery Forklift Truck

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# Tymbia

Handling & Warehouse Equipment

**CPD 25/30/35**  
CE2DLI





Maximum gradeability  
with load **20%**



Driving speed **19-20km/h**



Acceleration time  
with load (10m) **5s**



Acceleration time  
without load (10m) **4.5s**



Lifting speed  
with load **0.44m/s**

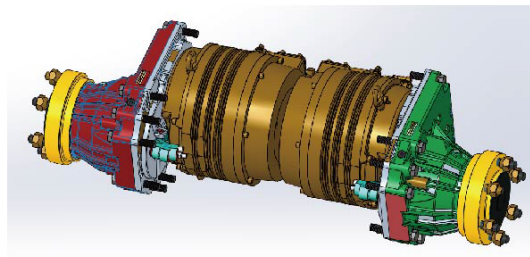


Lifting speed  
without load **0.54m/s**

Note: the data displayed are all based on the model 3.5t, and data for other trucks are shown in the table of technical parameters.

## Powerful Performance, High Efficiency

Front wheel dual drive motors offer stronger power and higher operation efficiency.



Equipped with Heli or ZF dual motor drive unit, high speed ratio reducer, high-power IP54 protection grade AC motor and oil-cooled multi disc brake, It's powerful, efficient, reliable and maintenance-free with low noise.

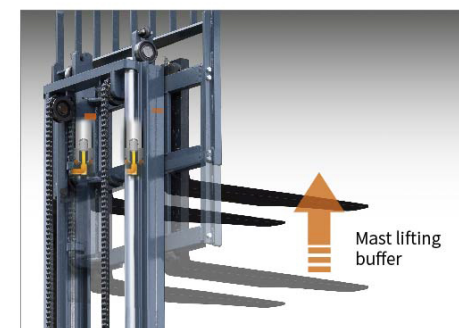
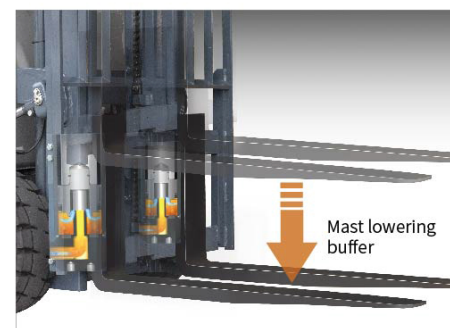
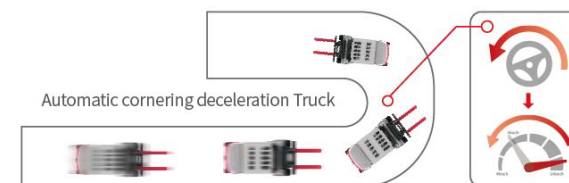
## Compact truck body, more flexible

Narrow truck width is more suitable for narrow aisle application; The large angle steering bridge makes the turning radius smaller, so the loading and unloading operation of narrow channel is free of pressure.



## Intelligent security, full-scope safeguards

- **Automatic cornering deceleration Truck:** 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 truck information at a glance.
- **Lithium battery:** Lithium battery is automatically heated at low temperature, with excellent low temperature adaptability.
- **Intelligent limit buffer:** Intelligent induction of mast lifting and lowering avoids limit impact and is safe and comfortable.
- **Intelligent operation protection:** A full set of OPS system can avoid misoperation and ensure safety.
- **Intelligent control strategy:** Dual core controller is in line with the latest EU safety requirements.
- **Battery box locking perception:** The battery box is not locked and the vehicle does not start, so as to avoid safety accidents caused by careless operation.



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

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



## Optimized Ergonomic Design, Better Driving Comfort



Right positioned control valve is more comfortable.



Enlarged boarding space and foot operation space offer more comfortable operation.



The rear handle and warning horn are designed for safer reversing operation.



The wide front vision and the instrument layout based on ergonomics ensure safe and comfortable operation.



Grammer full suspension seat is optional for more comfortable driving. The multifunctional armrest integrates fingertip switch, direction switch, steering switch, PES gear, horn button, emergency power-off switch, etc., to realize convenient operation and precise control of electromagnetic proportion.



Stamped integral overhead guard with transparent rainproof cover ensures operation in rainy days.



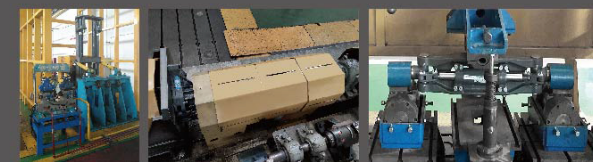
- USB power supply design is more thoughtful.
- Newtype of ratchet hand brake reduces operating force by 17%.
- PES Three-speed mode: Choose multiple speed modes according to working conditions, guarantee work efficiency.

CPD 25/30/35  
CE2DLI

20%

## High Quality & High Reliability

Reinforced casting drive axle housing and steering axle body, optimized design of mast system, has passed durability test which has reliable quality to ensure operation safety.



## Tested in Rough Operating Environment



The truck passed simulation experiment of bumpy road.



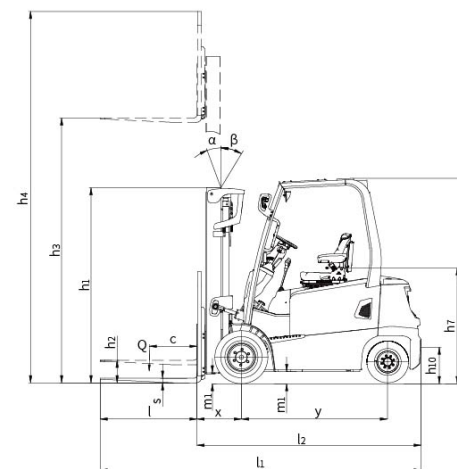
IPX4 waterproof: the vehicle is powered on to simulate a 15min short-time 5000L rainstorm test, and the vehicle can continue to run without failures.

## Centralized Checkpoints, Easy Maintenance

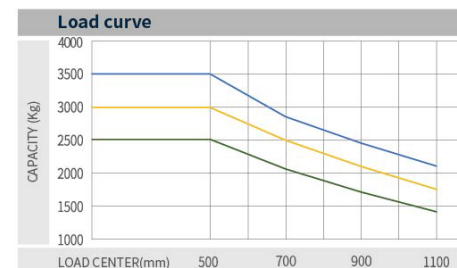
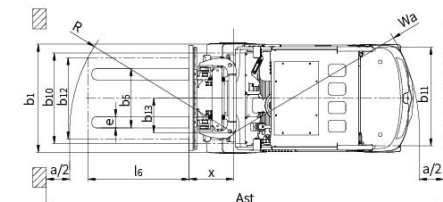


- The electrical design is concentrated on the top of counterweight, which is reliable for heat dissipation and convenient for inspection and maintenance.
- Side battery is easy to replace and maintain.

| Manufacturer and Technical Data |                                                                   |       |      |                      |             |             |
|---------------------------------|-------------------------------------------------------------------|-------|------|----------------------|-------------|-------------|
| Characteristics                 |                                                                   |       |      |                      |             |             |
| 1.01                            | Manufacturer                                                      |       |      | TYMBIA               |             |             |
| 1.02                            | Model                                                             |       |      | CPD25                | CPD30       | CPD35       |
| 1.03                            | Configuration number                                              |       |      | GE2DLI               | GE2DLI      | GE2DLI      |
| 1.04                            | Rated capacity                                                    | Q     | kg   | 2500                 | 3000        | 3500        |
| 1.05                            | Load center distance                                              | c     | mm   | 500                  | 500         | 500         |
| 1.06                            | Power mode                                                        |       |      | Lithium battery      |             |             |
| 1.07                            | Driving mode                                                      |       |      | Seated               |             |             |
| 1.08                            | Load distance, center of drive axle to fork                       | x     | mm   | 474                  | 485         | 490         |
| 1.09                            | Wheelbase                                                         | y     | mm   | 1615                 | 1615        | 1615        |
| Weight                          |                                                                   |       |      |                      |             |             |
| 2.01                            | Total weight (with/without battery)                               |       | kg   | 4360/4075            | 4905/4525   | 5300/4920   |
| 2.02                            | Axle load (laden,front/rear)                                      |       | kg   | 6061/799             | 6982/922    | 7864/936    |
| 2.03                            | Axle load (unladen,front/rear)                                    |       | kg   | 2014/2346            | 2139/2766   | 2211/3089   |
| Tyres                           |                                                                   |       |      |                      |             |             |
| 3.01                            | Tyre type                                                         |       |      | SE                   |             |             |
| 3.02                            | Tyre size, front                                                  |       |      | 23x9-10              | 23x10-12    | 23x10-12    |
| 3.03                            | Tyre size, rear                                                   |       |      | 18x7-8               | 200/50-10   | 200/50-10   |
| 3.04                            | Wheels, number front/rear (x=driven wheels)                       |       |      | 2x/2                 | 2x/2        | 2x/2        |
| 3.05                            | Tread, front                                                      | b10   | mm   | 990                  | 975         | 975         |
| 3.06                            | Tread, rear                                                       | b11   | mm   | 1000                 | 990         | 990         |
| Dimensions                      |                                                                   |       |      |                      |             |             |
| 4.01                            | Mast tilt angle (forward/backward)                                | α/β   | °    | 6/8                  | 6/8         | 6/8         |
| 4.02                            | Height (mast lowered)                                             | h1    | mm   | 2155                 | 2155        | 2155        |
| 4.03                            | Free lifting height                                               | h2    | mm   | 140                  | 145         | 150         |
| 4.04                            | Lifting height (standard)                                         | h3    | mm   | 3000                 | 3000        | 3000        |
| 4.05                            | Max. height, extended                                             | h4    | mm   | 4030                 | 4217        | 4217        |
| 4.06                            | Height of overhead guard                                          | h6    | mm   | 2260                 | 2260        | 2260        |
| 4.07                            | Height of seat                                                    | h7    | mm   | 1260                 | 1260        | 1260        |
| 4.08                            | Towing coupling height                                            | h10   | mm   | 395                  | 395         | 395         |
| 4.09                            | Overall length (with fork)                                        | l1    | mm   | 3495                 | 3540        | 3545        |
| 4.10                            | Overall length (without fork)                                     | l2    | mm   | 2425                 | 2470        | 2475        |
| 4.11                            | Overall width                                                     | b1    | mm   | 1195/1197            | 1195/1222   | 1195/1222   |
| 4.12                            | Fork carriage, DIN standard                                       |       |      | 2A                   | 3A          | 3A          |
| 4.13                            | Fork size: thickness x width x length                             | s/e/l | mm   | 40/122/1070          | 45/125/1070 | 50/125/1070 |
| 4.14                            | Distance between fork-arms, Max./Min.                             | b5    | mm   | 1060/250             | 1060/250    | 1060/250    |
| 4.15                            | Ground clearance (laden,between mast)                             | m1    | mm   | 105                  | 105         | 105         |
| 4.16                            | Ground clearance (center of wheelbase)                            | m2    | mm   | 135                  | 135         | 135         |
| 4.17                            | Right angle stacker aisle width for pallet 1200 x1200mm crossways | Ast   | mm   | 3715                 | 3760        | 3760        |
| 4.18                            | Right angle stacker aisle width for pallet 800 x1200mm lengthways | Ast   | mm   | 3900                 | 3940        | 3950        |
| 4.19                            | Min. outside turning radius                                       | Wa    | mm   | 2024                 | 2057        | 2057        |
| Performance Data                |                                                                   |       |      |                      |             |             |
| 5.01                            | Travel speed (laden/unladen)                                      |       | km/h | 20/20                | 19/20       | 19/20       |
| 5.02                            | Lift speed (laden/unladen)                                        |       | m/s  | 0.5/0.60             | 0.5/0.60    | 0.44/0.54   |
| 5.03                            | Lowering speed (laden/unladen)                                    |       | m/s  | 0.58/0.53            | 0.55/0.45   | 0.55/0.45   |
| 5.04                            | Max.drawbar pull (laden/unladen)                                  |       | N    | 23000/15000          | 27000/17000 | 28000/17000 |
| 5.05                            | Max.gradeability (laden/unladen)                                  |       | %    | 25/29                | 21/29       | 20/27       |
| 5.06                            | Acceleration time (10 m)(laden/unladen)                           |       | s    | 5.2/5                | 4.8/4.4     | 5/4.5       |
| Lithium Battery                 |                                                                   |       |      |                      |             |             |
| 6.01                            | Lithium battery voltage/Capacity                                  |       | V/Ah | 80/272               | 80/404      | 80/404      |
| 6.02                            | Lithium battery weight (Min./Max.)                                |       | kg   | 285/485              | 380/485     | 380/485     |
| Motor and Controller            |                                                                   |       |      |                      |             |             |
| 7.01                            | Driving motor powering (S2-60min)                                 |       | kW   | 10X2                 | 10X2        | 10X2        |
| 7.02                            | Lifting motor powering (S3-15%)                                   |       | kW   | 26                   | 26          | 26          |
| 7.03                            | Driving motor controlling mode                                    |       |      | MOSFET/AC            |             |             |
| 7.04                            | Lifting motor controlling mode                                    |       |      | MOSFET/AC            |             |             |
| Other Information               |                                                                   |       |      |                      |             |             |
| 8.01                            | Service brake/ Parking brake                                      |       |      | Hydraulic/Mechanical |             |             |
| 8.02                            | Operating pressure for attachments                                |       | Mpa  | 14                   | 14          | 14          |



Ast : Right angle stacking aisle width  
a : Clearance  
l<sub>6</sub> : Load length  
b<sub>12</sub> : Load width



— 3.5t  
— 3.0t  
— 2.5t

**Note:** The vertical axis stands for load capacity while the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load means a cubic with 1000mm edge length. When the mast is tilted forward, the worker using nonstandard forks for loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

| Lithium battery                            |                                        |           |           |           |           |           |           |           |
|--------------------------------------------|----------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Lithium battery brand                      | HELI                                   |           |           |           | CATL      |           |           |           |
| Voltage/Capacity                           | 80V/272Ah                              | 80V/404Ah | 80V/544Ah | 80V/606Ah | 80V/271Ah | 80V/404Ah | 80V/542Ah | 80V/600Ah |
| 2.5t                                       | ●                                      | ○         | ○         | ○         | ○         | ○         | ○         | ○         |
| 3.0t                                       | —                                      | ●         | ○         | ○         | —         | ○         | ○         | ○         |
| 3.5t                                       | —                                      | ●         | ○         | ○         | —         | ○         | ○         | ○         |
| Lithium battery heating in low temperature | ●:standard ○:optional —:not applicable |           |           |           |           |           |           |           |
| Note                                       |                                        |           |           |           |           |           |           |           |

| Charger                             |  |                                                                                                                                                                                                                                                                                                                                                                              |         |                                                                                                      |
|-------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------|
| Charger model                       |  | D80V-200A-LI-123/D80V-200A-LI-423/<br>D80V200ALi-123 (Single module) /D80V200ALi-423 (Single module)                                                                                                                                                                                                                                                                         |         | D80V-100A-LI-125/D80V-100A-LI-425/<br>D80V100ALi-125 (Single module) /D80V100ALi-425 (Single module) |
| Suitable battery model              |  | 48 / 80V lithium battery, recommended capacity greater than 240Ah                                                                                                                                                                                                                                                                                                            |         | 48 / 80V lithium battery, recommended capacity less than 240Ah                                       |
| Wiring connection                   |  | Three-phase four-wire system                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                                      |
| Charger power                       |  | KVA                                                                                                                                                                                                                                                                                                                                                                          | 22      | 10                                                                                                   |
| Air-switch model of higher-up power |  | A                                                                                                                                                                                                                                                                                                                                                                            | 63      | 32                                                                                                   |
| Input voltage range                 |  | Vac                                                                                                                                                                                                                                                                                                                                                                          | 380±15% |                                                                                                      |
| Input current                       |  | A                                                                                                                                                                                                                                                                                                                                                                            | <40     | <20                                                                                                  |
| Output current                      |  | A                                                                                                                                                                                                                                                                                                                                                                            | 0~200   | 0~100                                                                                                |
| Protection degree                   |  | (Use indoors)                                                                                                                                                                                                                                                                                                                                                                |         |                                                                                                      |
| Working environment temperature     |  | °C                                                                                                                                                                                                                                                                                                                                                                           | -20~+45 |                                                                                                      |
| Power connections                   |  | National standard charging gun                                                                                                                                                                                                                                                                                                                                               |         |                                                                                                      |
| Charger                             |  | Full charge time = required charging capacity of lithium battery / charging current + 0.2 hours<br>For example: the standard battery capacity of 3T lithium battery forklift is 80V / 404ah. If the lithium battery capacity has been consumed to the instrument alarm and charged with a 200A charger, the full charge time is 404 ÷ 0.9 / 200 + 0.2 hours = about 2 hours. |         |                                                                                                      |

## WIDE VIEW 2-STAGE MAST

| Mast model | Max lifting height (mm) | Load capacity (lode center 500mm) (kg) |      |      | Mast overall height (mm) |      |      | Free lifting height (with backrest) (mm) |     |      | Service weight (kg) |      |      | Mast tilt angle $\alpha/\beta(^{\circ})$ |
|------------|-------------------------|----------------------------------------|------|------|--------------------------|------|------|------------------------------------------|-----|------|---------------------|------|------|------------------------------------------|
|            |                         | 2.5t                                   | 3t   | 3.5t | 2.5t                     | 3t   | 3.5t | 2.5t                                     | 3t  | 3.5t | 2.5t                | 3t   | 3.5t |                                          |
| M200       | 2000                    | 2500                                   | 3000 | 3500 | 1655                     | 1655 | 1655 | 140                                      | 145 | 150  | 4252                | 4797 | 5192 | 6/8                                      |
| M250       | 2500                    | 2500                                   | 3000 | 3500 | 1905                     | 1905 | 1905 | 140                                      | 145 | 150  | 4310                | 4855 | 5250 | 6/8                                      |
| M270       | 2700                    | 2500                                   | 3000 | 3500 | 2005                     | 2005 | 2005 | 140                                      | 145 | 150  | 4325                | 4870 | 5265 | 6/8                                      |
| M300       | 3000                    | 2500                                   | 3000 | 3500 | 2155                     | 2155 | 2155 | 140                                      | 145 | 150  | 4360                | 4905 | 5300 | 6/8                                      |
| M330       | 3300                    | 2500                                   | 3000 | 3500 | 2305                     | 2305 | 2305 | 140                                      | 145 | 150  | 4391                | 4936 | 5331 | 6/8                                      |
| M350       | 3500                    | 2500                                   | 3000 | 3500 | 2405                     | 2405 | 2405 | 140                                      | 145 | 150  | 4396                | 4941 | 5336 | 6/8                                      |
| M370       | 3700                    | 2500                                   | 3000 | 3500 | 2505                     | 2505 | 2505 | 140                                      | 145 | 150  | 4398                | 4943 | 5338 | 6/5                                      |
| M400       | 4000                    | 2500                                   | 3000 | 3500 | 2705                     | 2705 | 2705 | 140                                      | 145 | 150  | 4498                | 5043 | 5438 | 6/5                                      |
| M425       | 4250                    | 2500                                   | 2900 | 3350 | 2830                     | 2830 | 2830 | 140                                      | 145 | 150  | 4511                | 5066 | 5461 | 6/5                                      |
| M450       | 4500                    | 2400                                   | 2800 | 3200 | 2955                     | 2955 | 2955 | 140                                      | 145 | 150  | 4545                | 5090 | 5485 | 6/5                                      |
| M475       | 4750                    | 2300                                   | 2600 | 3150 | 3180                     | 3180 | 3180 | 140                                      | 145 | 150  | 4569                | 5114 | 5509 | 6/5                                      |
| M500       | 5000                    | 2100                                   | 2500 | 2900 | 3205                     | 3205 | 3205 | 140                                      | 145 | 150  | 4589                | 5138 | 5533 | 6/5                                      |
| M550       | 5500                    | 1500                                   | 2250 | 2350 | 3505                     | 3505 | 3505 | 140                                      | 145 | 150  | 4686                | 5233 | 5628 | 3/5                                      |
| M600       | 6000                    | 1200                                   | 1550 | 1650 | 3755                     | 3755 | 3755 | 140                                      | 145 | 150  | 4732                | 5279 | 5674 | 3/5                                      |

## WIDE VIEW FULL FREE 2-STAGE MAST

| Mast model | Max lifting height (mm) | Load capacity (lode center 500mm) (kg) |      |      | Mast overall height (mm) |      |      | Free lifting height (with backrest) (mm) |      |      | Service weight (kg) |      |      | Mast tilt angle $\alpha/\beta(^{\circ})$ |
|------------|-------------------------|----------------------------------------|------|------|--------------------------|------|------|------------------------------------------|------|------|---------------------|------|------|------------------------------------------|
|            |                         | 2.5t                                   | 3t   | 3.5t | 2.5t                     | 3t   | 3.5t | 2.5t                                     | 3t   | 3.5t | 2.5t                | 3t   | 3.5t |                                          |
| ZM200      | 2000                    | 2500                                   | 3000 | 3500 | 1655                     | 1655 | 1655 | 640                                      | 470  | 475  | 4256                | 4811 | 5206 | 6/8                                      |
| ZM250      | 2500                    | 2500                                   | 3000 | 3500 | 1905                     | 1905 | 1905 | 890                                      | 720  | 725  | 4322                | 4877 | 5272 | 6/8                                      |
| ZM270      | 2700                    | 2500                                   | 3000 | 3500 | 2005                     | 2005 | 2005 | 990                                      | 820  | 825  | 4344                | 4899 | 5294 | 6/8                                      |
| ZM300      | 3000                    | 2500                                   | 3000 | 3500 | 2155                     | 2155 | 2155 | 1140                                     | 970  | 975  | 4370                | 4925 | 5320 | 6/8                                      |
| ZM330      | 3300                    | 2500                                   | 3000 | 3500 | 2305                     | 2305 | 2305 | 1290                                     | 1120 | 1125 | 4401                | 4956 | 5351 | 6/8                                      |
| ZM350      | 3500                    | 2500                                   | 3000 | 3500 | 2405                     | 2405 | 2405 | 1390                                     | 1220 | 1225 | 4408                | 4963 | 5358 | 6/8                                      |
| ZM370      | 3700                    | 2500                                   | 3000 | 3500 | 2505                     | 2505 | 2505 | 1490                                     | 1320 | 1325 | 4414                | 4969 | 5364 | 6/5                                      |
| ZM400      | 4000                    | 2500                                   | 3000 | 3500 | 2705                     | 2705 | 2705 | 1690                                     | 1520 | 1525 | 4548                | 5073 | 5468 | 6/5                                      |
| ZM425      | 4250                    | 2500                                   | 2900 | 3350 | 2830                     | 2830 | 2830 | 1815                                     | 1645 | 1650 | 4556                | 5091 | 5486 | 6/5                                      |
| ZM450      | 4500                    | 2400                                   | 2800 | 3200 | 2955                     | 2955 | 2955 | 1940                                     | 1770 | 1775 | 4562                | 5117 | 5512 | 6/5                                      |
| ZM475      | 4750                    | 2300                                   | 2600 | 3150 | 3180                     | 3180 | 3180 | 2165                                     | 1995 | 2000 | 4578                | 5133 | 5528 | 6/5                                      |
| ZM500      | 5000                    | 2100                                   | 2500 | 2900 | 3205                     | 3205 | 3205 | 2190                                     | 2020 | 2025 | 4603                | 5158 | 5553 | 6/5                                      |
| ZM550      | 5500                    | 1500                                   | 2250 | 2350 | 3505                     | 3505 | 3505 | 2490                                     | 2320 | 2325 | 4681                | 5244 | 5638 | 3/5                                      |
| ZM600      | 6000                    | 1200                                   | 1550 | 1650 | 3755                     | 3755 | 3755 | 2740                                     | 2570 | 2575 | 4712                | 5267 | 5662 | 3/5                                      |

NOTE: (1)2.5t, free lifting height 370 mm increased without backrest.  
(2)3-3.5t, free lifting height 396 mm increased without backrest.

## WIDE VIEW FULL FREE 3-STAGE MAST

| Mast model | Max lifting height (mm) | Load capacity (lode center 500mm) (kg) |      |      | Mast overall height (mm) |      |      | Free lifting height (with backrest) (mm) |      |      | Service weight (kg) |      |      | Mast tilt angle $\alpha/\beta(^{\circ})$ |
|------------|-------------------------|----------------------------------------|------|------|--------------------------|------|------|------------------------------------------|------|------|---------------------|------|------|------------------------------------------|
|            |                         | 2.5t                                   | 3t   | 3.5t | 2.5t                     | 3t   | 3.5t | 2.5t                                     | 3t   | 3.5t | 2.5t                | 3t   | 3.5t |                                          |
| ZSM360     | 3600                    | 2500                                   | 3000 | 3500 | 1895                     | 1895 | 1895 | 880                                      | 710  | 715  | 4436                | 5002 | 5397 | 6/5                                      |
| ZSM400     | 4000                    | 2500                                   | 3000 | 3500 | 2030                     | 2030 | 2030 | 1015                                     | 845  | 850  | 4471                | 5039 | 5434 | 6/5                                      |
| ZSM435     | 4350                    | 2400                                   | 2900 | 3250 | 2145                     | 2145 | 2145 | 1130                                     | 960  | 965  | 4501                | 5076 | 5471 | 6/5                                      |
| ZSM450     | 4500                    | 2300                                   | 2750 | 3050 | 2195                     | 2195 | 2195 | 1180                                     | 1010 | 1015 | 4511                | 5091 | 5486 | 6/5                                      |
| ZSM470     | 4700                    | 2250                                   | 2600 | 2950 | 2245                     | 2245 | 2245 | 1230                                     | 1060 | 1065 | 4516                | 5096 | 5491 | 6/5                                      |
| ZSM480     | 4800                    | 2200                                   | 2550 | 2900 | 2295                     | 2295 | 2295 | 1280                                     | 1110 | 1115 | 4556                | 5122 | 5517 | 6/5                                      |
| ZSM500     | 5000                    | 2050                                   | 2400 | 2750 | 2355                     | 2355 | 2355 | 1340                                     | 1170 | 1175 | 4576                | 5150 | 5545 | 6/5                                      |
| ZSM540     | 5400                    | 1500                                   | 2150 | 2300 | 2505                     | 2505 | 2505 | 1490                                     | 1320 | 1325 | 4616                | 5187 | 5582 | 3/5                                      |
| ZSM600     | 6000                    | 1100                                   | 1500 | 1650 | 2720                     | 2720 | 2720 | 1705                                     | 1535 | 1540 | 4716                | 5291 | 5686 | 3/5                                      |
| ZSM650     | 6500                    | 950                                    | 1300 | 1400 | 2905                     | 2905 | 2905 | 1990                                     | 1720 | 1725 | 4781                | 5347 | 5742 | 3/3                                      |
| ZSM700     | 7000                    | 850                                    | 1100 | 1200 | 3155                     | 3155 | 3155 | 2140                                     | 1970 | 1975 | 4876                | 5439 | 5834 | 3/3                                      |

NOTE: (1)2.5t, free lifting height 350 mm increased without backrest.  
(2)3-3.5t, free lifting height 400 mm increased without backrest.

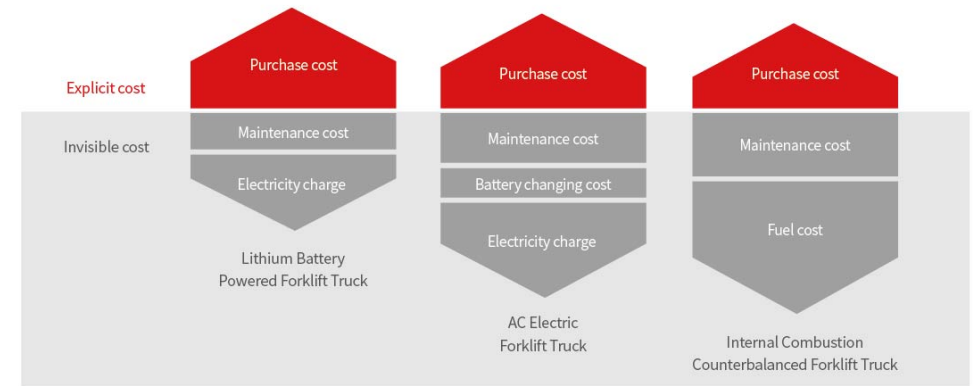
## Operating Cost Comparison: Lithium battery forklift **vs.** Lead-acid battery forklift **vs.** IC forklift

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

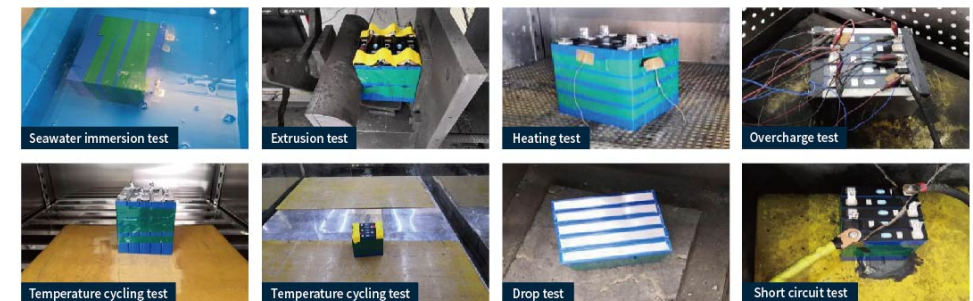
Compared with internal combustion forklift truck, lithium battery forklift truck has the advantages of no noise, no pollution, small vibration and simple operation.

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



- 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 filled in 2 hours;
- 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: the normal charging and discharging cycles is more than 3000 times or 5 years, and capacity retention rate is more than 75%;
- 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.