

**NEW  UPGRADE**

**3-3.5 t** G series  
AC Electric Forklift Truck



**HELI**  
LIFTING THE FUTURE

** series** / INTELLIGENT  
ENVIRONMENT-FRIENDLY



# G 3-3.5t AC Electric Forklift Truck

**G series** / INTELLIGENT  
ENVIRONMENT-FRIENDLY

## Improved driver's view

- > Standard configuration of wide view mast, compact structure of mast and tube pulley block.
- > Large arc roof frame, increasing the driving space.

## Improved operating comfort

- > Foot operation comfort is increased through optimized brake pedal height and accelerating pedal height for comfort shifting.
- > Super low torque steering unit makes steering light and easy.
- > Rear handle with horn button ensures safe and comfortable operation while reverse driving.
- > Mast and rear axle buffering improve driving comfort largely.
- > Ratchet hand brake has different brake force on slope and ground, reducing driver's fatigue.

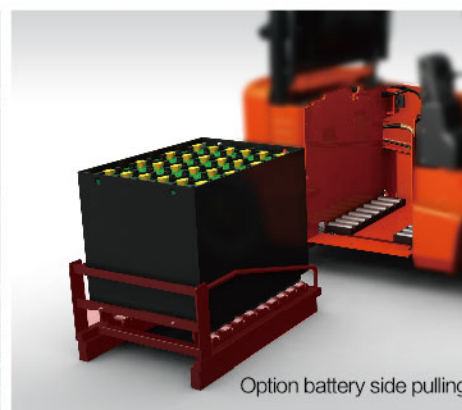


## Optimized maintainability and safety

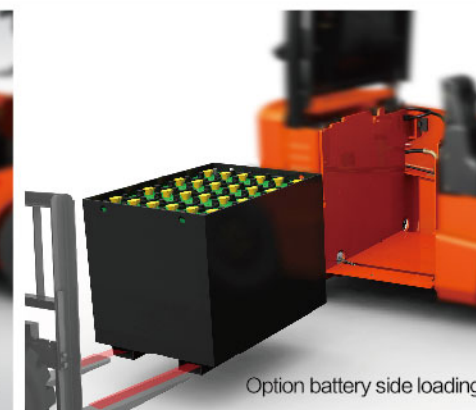
- > Special side plate and top cover structure is easy for assembly and disassembly.
- > Highly-mounted rear axle increasing transversal stability by 2.1%.
- > Three driving modes offer optional choices to different working condition.
- > Automatic deceleration when steering is optional so as to ensure the operation safety.

## High efficiency and energy-saving

- > The use of electric truck dedicated tire with pattern saves more than 10% of the energy during travelling.
- > LED lamps save 80% of the energy.
- > The professional matching design of the components prolongs the battery working time about 10%.
- > Battery side lift and customized battery side pulling make battery changing easier.



Option battery side pulling



Option battery side loading

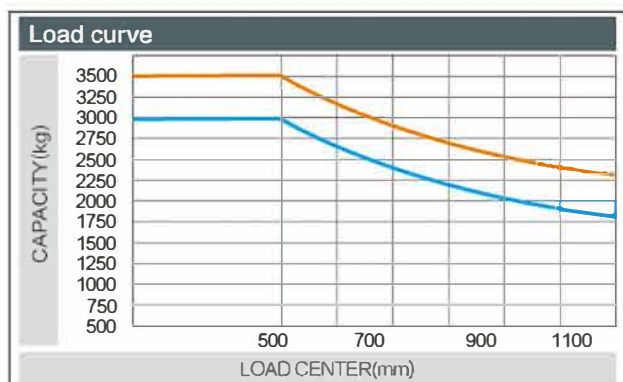
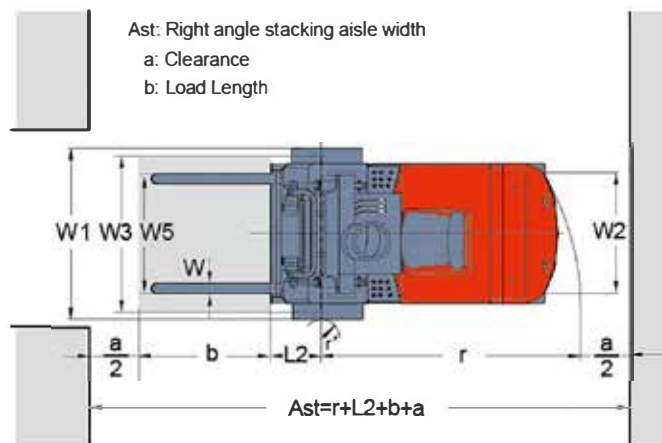
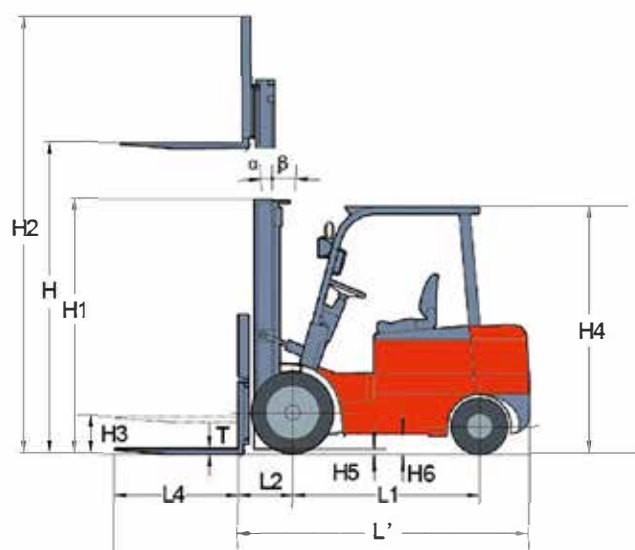




## Manufacturer's Data and Design Characteristics

| character            |                                                                       | HELI           |             |                      |                      |                      |                      |                      |                      |                      |
|----------------------|-----------------------------------------------------------------------|----------------|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1.01                 | manufacturer                                                          |                |             |                      |                      |                      |                      |                      |                      |                      |
| 1.02                 | model                                                                 |                | CPD30       | CPD30                | CPD30                | CPD30                | CPD35                | CPD35                | CPD35                | CPD35                |
| 1.03                 | configuration number                                                  |                | GC1/GC2/GC3 | GD1/GD2/GD3          | GC1P/GC2P/GC3P       | GD1P/GD2P/GD3P       | GC1/GC2/GC3          | GD1/GD2/GD3          | GC1P/GC2P/GC3P       | GD1P/GD2P/GD3P       |
| 1.04                 | rated capacity                                                        | Q              | kg/Lbs      | 3000/6000            | 3000/6000            | 3000/6000            | 3000/6000            | 3500/7000            | 3500/7000            | 3500/7000            |
| 1.05                 | load center distance                                                  | c              | mm/in       | 500/24               | 500/24               | 500/24               | 500/24               | 500/24               | 500/24               | 500/24               |
| 1.06                 | power mode                                                            |                |             | Battery              | Battery              | Battery              | Battery              | Battery              | Battery              | Battery              |
| 1.07                 | driving mode                                                          |                |             | Seated               | Seated               | Seated               | Seated               | Seated               | Seated               | Seated               |
| 1.08                 | wheel base                                                            | L1             | mm          | 1685                 | 1685                 | 1685                 | 1685                 | 1685                 | 1685                 | 1685                 |
| tyre                 |                                                                       |                |             |                      |                      |                      |                      |                      |                      |                      |
| 2.01                 | tyre type                                                             |                |             | Pneumatic            | Pneumatic            | Pneumatic            | Pneumatic            | SE                   | SE                   | SE                   |
| 2.02                 | wheel number(front/rear)                                              |                |             | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  | 2/2                  |
| 2.03                 | front wheel base                                                      | W3             | mm          | 1000                 | 1000                 | 1000                 | 1000                 | 1000                 | 1000                 | 1000                 |
| 2.04                 | rear wheel base                                                       | W2             | mm          | 950                  | 950                  | 950                  | 950                  | 950                  | 950                  | 950                  |
| 2.05                 | tyre (front)                                                          |                |             | 28X9-15-14PR         | 28X9-15-14PR         | 28X9-15-14PR         | 28X9-15-14PR         | 28X9-15              | 28X9-15              | 28X9-15              |
| 2.06                 | tyre(rear)                                                            |                |             | 18X7-8-14PR          | 18X7-8-14PR          | 18X7-8-14PR          | 18X7-8-14PR          | 18X7-8               | 18X7-8               | 18X7-8               |
| size                 |                                                                       |                |             |                      |                      |                      |                      |                      |                      |                      |
| 3.01                 | front overhang                                                        | L2             | mm          | 485                  | 485                  | 485                  | 485                  | 490                  | 490                  | 490                  |
| 3.02                 | mast tilt angle , front/rear                                          | $\alpha/\beta$ | °           | 6/10                 | 6/10                 | 6/10                 | 6/10                 | 6/10                 | 6/10                 | 6/10                 |
| 3.03                 | height with mast retraction                                           | H1             | mm          | 2075                 | 2075                 | 2075                 | 2075                 | 2180                 | 2180                 | 2180                 |
| 3.04                 | free lifting height                                                   | H3             | mm          | 145                  | 145                  | 145                  | 145                  | 150                  | 150                  | 150                  |
| 3.05                 | Max. lifting height                                                   | H              | mm          | 3000                 | 3000                 | 3000                 | 3000                 | 3000                 | 3000                 | 3000                 |
| 3.06                 | Max. height under working condition                                   | H2             | mm          | 4230                 | 4230                 | 4230                 | 4230                 | 4230                 | 4230                 | 4230                 |
| 3.07                 | overhead guard height                                                 | H4             | mm          | 2215                 | 2215                 | 2215                 | 2215                 | 2215                 | 2215                 | 2215                 |
| 3.08                 | fork size:thickness×width×length                                      | T×W×L4         | mm          | 45 × 125 × 1070      | 45 × 125 × 1070      | 45 × 125 × 1070      | 45 × 125 × 1070      | 50 × 125 × 1070      | 50 × 125 × 1070      | 50 × 125 × 1070      |
| 3.09                 | Lateral Fork Adjustment (Outside of Forks) Max./Min.                  | W5             | mm          | 1060/250             | 1060/250             | 1060/250             | 1060/250             | 1060/250             | 1060/250             | 1060/250             |
| 3.10                 | fork arm carrier, DIN standard                                        |                |             | 3A                   | 3A                   | 3A                   | 3A                   | 3A                   | 3A                   | 3A                   |
| 3.11                 | truck body length (fork excluded)                                     | L'             | mm          | 2490                 | 2490                 | 2490                 | 2490                 | 2560                 | 2560                 | 2560                 |
| 3.12                 | truck body width                                                      | W1             | mm          | 1241                 | 1241                 | 1241                 | 1241                 | 1241                 | 1241                 | 1241                 |
| 3.13                 | turning radius                                                        | r              | mm          | 2210                 | 2210                 | 2210                 | 2210                 | 2270                 | 2270                 | 2270                 |
| 3.14                 | clearance between mast and ground                                     | H5             | mm          | 135                  | 135                  | 135                  | 135                  | 135                  | 135                  | 135                  |
| 3.15                 | clearance between wheel base center and ground(loaded)                | H6             | mm          | 145                  | 145                  | 145                  | 145                  | 145                  | 145                  | 145                  |
| 3.16                 | right angle stacking aisle width (pallet1000x1000mm, clearance 200mm) | Ast            | mm          | 3895                 | 3895                 | 3895                 | 3895                 | 3960                 | 3960                 | 3960                 |
| 3.17                 | right angle stacking aisle width (pallet1200x1200mm, clearance 200mm) | Ast            | mm          | 4095                 | 4095                 | 4095                 | 4095                 | 4160                 | 4160                 | 4160                 |
| performance          |                                                                       |                |             |                      |                      |                      |                      |                      |                      |                      |
| 4.01                 | travelling speed: loaded/unloaded                                     |                | km/h        | 15/15.5              | 15/15.5              | 15/15.5              | 15/15.5              | 14.5/15              | 14.5/15              | 14.5/15              |
| 4.02                 | lifting speed: loaded/unloaded                                        |                | m/s         | 0.28/0.46            | 0.34/0.46            | 0.28/0.46            | 0.34/0.46            | 0.27/0.44            | 0.325/0.46           | 0.325/0.46           |
| 4.03                 | lowering speed: loaded/unloaded                                       |                | m/s         | 0.48                 | 0.48                 | 0.48                 | 0.48                 | 0.42                 | 0.42                 | 0.42                 |
| 4.04                 | gradeability (loaded)                                                 |                | %           | 17/17/15             | 17/17/17             | 17/17/15             | 17/17/17             | 15/15/12             | 15/15/15             | 15/15/15             |
| 4.05                 | Max. traction force (loaded)                                          |                | N           | 15600                | 15600                | 15600                | 15600                | 15600                | 15600                | 15600                |
| 4.06                 | acceleration time (10m) loaded/unloaded                               |                | s           | 5.75/5.2             | 5.75/5.2             | 5.75/5.2             | 5.75/5.2             | 5.75/5.2             | 5.75/5.2             | 5.75/5.2             |
| weight               |                                                                       |                |             |                      |                      |                      |                      |                      |                      |                      |
| 5.01                 | total weight (with /without battery)                                  |                | kg          | 4810/3460            | 4810/3460            | 4810/3460            | 4810/3460            | 5500/3950            | 5500/3950            | 5500/3950            |
| 5.02                 | axle load: unloaded, front/rear                                       |                | kg          | 2320/2490            | 2320/2490            | 2320/2490            | 2320/2490            | 2640/2860            | 2640/2860            | 2640/2860            |
| 5.03                 | axle load: loaded, front/rear                                         |                | kg          | 7055/755             | 7055/755             | 7055/755             | 7055/755             | 8145/855             | 8145/855             | 8145/855             |
| battery              |                                                                       |                |             |                      |                      |                      |                      |                      |                      |                      |
| 6.01                 | battery voltage/capacity K5                                           | V/Ah           |             | 80/480               | 80/480               | 80/480               | 80/480               | 80/560               | 80/560               | 80/560               |
| 6.02                 | battery weight                                                        | kg             |             | 1350(1350-1626)      | 1350(1350-1626)      | 1350(1350-1626)      | 1350(1350-1626)      | 1550(1350-1650)      | 1550(1350-1650)      | 1550(1350-1650)      |
| 6.03                 | battery, DIN standard                                                 |                |             | 43536A               | 43536A               | 43536A               | 43536A               | 43536A               | 43536A               | 43536A               |
| motor and controller |                                                                       |                |             |                      |                      |                      |                      |                      |                      |                      |
| 7.01                 | drive motor power-60 minutes                                          |                | kW          | 16.6                 | 16.6                 | 16.6                 | 16.6                 | 16.6                 | 16.6                 | 16.6                 |
| 7.02                 | lifting motor power(S3-15%)                                           |                | kW          | 13.0                 | 13.5                 | 13.0                 | 13.5                 | 13.0                 | 13.5                 | 13.5                 |
| 7.03                 | drive motor controlling mode                                          |                |             | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            | MOSFET/AC            |
| 7.04                 | lifting motor controlling mode                                        |                |             | MOSFET/DC            | MOSFET/AC            | MOSFET/DC            | MOSFET/AC            | MOSFET/DC            | MOSFET/AC            | MOSFET/AC            |
| 7.05                 | service brake/parking brake                                           |                |             | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical | Hydraulic/Mechanical |
| 7.06                 | hydraulic system working pressure                                     |                | Mpa         | 21                   | 21                   | 21                   | 21                   | 21                   | 21                   | 21                   |

NOTE:(1)\*Detailed information about battery, please contact our salesmen or engineer. (2)\*P": battery side extraction(side pulling or side loading ),side loading for standard. (3)For configuration number, 1: CURTIS Controller; 2: ZAPI Controller; 3: Inmotion Controller.



3.0t

3.5t

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

## WIDE VIEW MAST

| Mast model | Max. lifting height<br>mm | Load capacity<br>(load center 500mm)(kg) |               | Mast overall height(mm) |      | Service weight(kg) |      | Mast tilt angle<br>(°) α/β |
|------------|---------------------------|------------------------------------------|---------------|-------------------------|------|--------------------|------|----------------------------|
|            |                           | 3t                                       | 3.5t          | 3t                      | 3.5t | 3t                 | 3.5t |                            |
| M200       | 2000                      | 3000                                     | 3500          | 1570                    | 1680 | 4715               | 5400 | 6/10                       |
| M250       | 2500                      | 3000                                     | 3500          | 1820                    | 1930 | 4755               | 5450 | 6/10                       |
| M300       | 3000                      | 3000                                     | 3500          | 2070                    | 2180 | 4810               | 5500 | 6/10                       |
| M330       | 3300                      | 3000                                     | 3500          | 2220                    | 2330 | 4840               | 5530 | 6/10                       |
| M350       | 3500                      | 3000                                     | 3500          | 2320                    | 2430 | 4860               | 5550 | 6/10                       |
| M370       | 3700                      | 3000                                     | 3400          | 2420                    | 2530 | 4890               | 5570 | 6/6<br>*6/10               |
| M400       | 4000                      | 2950                                     | 3350          | 2620                    | 2730 | 4955               | 5645 | 6/6<br>*6/10               |
| M425       | 4250                      | 2850                                     | 3250          | 2745                    | 2855 | 4980               | 5670 | 6/6<br>*6/10               |
| M450       | 4500                      | 2750                                     | 3100          | 2870                    | 2980 | 5005               | 5695 | 6/6<br>*6/10               |
| M500       | 5000                      | 2400<br>*2550                            | 2650<br>*2800 | 3120                    | 3230 | 5055               | 5745 | 6/6<br>*6/6                |
| M550       | 5500                      | 2250<br>*2450                            | 2500<br>*2600 | 3420                    | 3530 | 5135               | 5835 | 3/6<br>*3/6                |
| M600       | 6000                      | 1500<br>*2200                            | 1550<br>*2400 | 3670                    | 3780 | 5185               | 5880 | 3/6<br>*3/6                |

NOTE: (1)\* refers to rated capacity with double tires;



**WIDE VIEW FULL FREE 2-STAGE MAST**

| Mast model | Max. lifting height<br>mm | Load capacity<br>(load center 500mm)(kg) |               | Mast overall height(mm) |      | Free lifting height<br>(with backrest)(mm) |      | Service weight(kg) |      | Mast tilt angle<br>(°) α/β |
|------------|---------------------------|------------------------------------------|---------------|-------------------------|------|--------------------------------------------|------|--------------------|------|----------------------------|
|            |                           | 3t                                       | 3.5t          | 3t                      | 3.5t | 3t                                         | 3.5t | 3t                 | 3.5t |                            |
| ZM200      | 2000                      | 3000                                     | 3500          | 1570                    | 1680 | 388                                        | 503  | 4756               | 5466 | 6/10                       |
| ZM250      | 2500                      | 3000                                     | 3500          | 1820                    | 1930 | 638                                        | 753  | 4800               | 5510 | 6/10                       |
| ZM300      | 3000                      | 3000                                     | 3500          | 2070                    | 2180 | 888                                        | 1003 | 4846               | 5555 | 6/10                       |
| ZM330      | 3300                      | 3000                                     | 3500          | 2220                    | 2330 | 1038                                       | 1153 | 4873               | 5582 | 6/10                       |
| ZM350      | 3500                      | 3000                                     | 3500          | 2320                    | 2430 | 1138                                       | 1253 | 4891               | 5600 | 6/10                       |
| ZM370      | 3700                      | 3000                                     | 3400          | 2420                    | 2530 | 1238                                       | 1353 | 4909               | 5618 | 6/6                        |
| ZM400      | 4000                      | 2950                                     | 3350          | 2620                    | 2730 | 1438                                       | 1553 | 4981               | 5692 | *6/10                      |
| ZM425      | 4250                      | 2850                                     | 3250          | 2745                    | 2855 | 1563                                       | 1678 | 5003               | 5714 | 6/6                        |
| ZM450      | 4500                      | 2750                                     | 3100          | 2870                    | 2980 | 1688                                       | 1803 | 5026               | 5737 | *6/10                      |
| ZM500      | 5000                      | 2400<br>*2900                            | 2650<br>*3050 | 3120                    | 3230 | 1938                                       | 2053 | 5071               | 5782 | 6/6                        |
| ZM550      | 5500                      | 2250<br>*2700                            | 2500<br>*2850 | 3420                    | 3530 | 2238                                       | 2353 | 5161               | 5874 | *3/6                       |
| ZM600      | 6000                      | 1600<br>*2300                            | 1650<br>*2500 | 3670                    | 3780 | 2488                                       | 2603 | 5208               | 5920 | 3/6                        |

NOTE: (1)\* refers to rated capacity with double tires.

(2)3-3.5T: free lifted height 365mm increased without backrest.

**WIDE VIEW FULL FREE 3-STAGE MAST**

| Mast model | Max. lifting height<br>mm | Load capacity<br>(load center 500mm)(kg) |               | Mast overall height(mm) | Free lifting height<br>(with backrest)(mm) |      | Service weight (kg) |      | Mast tilt angle<br>(°) α/β |
|------------|---------------------------|------------------------------------------|---------------|-------------------------|--------------------------------------------|------|---------------------|------|----------------------------|
|            |                           | 3t                                       | 3.5t          |                         | 3t                                         | 3.5t | 3t                  | 3.5t |                            |
| ZSM360     | 3600                      | 3000                                     | 3400          | 1930                    | 748                                        | 753  | 5065                | 5725 | 6/6                        |
| ZSM400     | 4000                      | 2900                                     | 3250          | 2055                    | 873                                        | 878  | 5100                | 5760 | 6/6                        |
| ZSM435     | 4350                      | 2750                                     | 3150          | 2180                    | 998                                        | 1003 | 5135                | 5795 | 6/6                        |
| ZSM450     | 4500                      | 2700                                     | 3000          | 2230                    | 1048                                       | 1053 | 5151                | 5811 | 6/6                        |
| ZSM470     | 4700                      | 2700                                     | 2900          | 2230                    | 1048                                       | 1053 | 5155                | 5815 | 6/6                        |
| ZSM480     | 4800                      | 2600                                     | 2800          | 2330                    | 1148                                       | 1153 | 5180                | 5840 | 6/6                        |
| ZSM500     | 5000                      | 2400<br>*2850                            | 2650          | 2430                    | 1248                                       | 1253 | 5209                | 5869 | 6/6                        |
| ZSM540     | 5400                      | 2250<br>*2650                            | 2500          | 2555                    | 1373                                       | 1378 | 5244                | 5904 | *3/6                       |
| ZSM600     | 6000                      | 1550<br>*2500                            | 1600<br>*2700 | 2780                    | 1598                                       | 1603 | 5343                | 6003 | 3/6                        |
| ZSM650     | 6500                      | 1250<br>*2200                            | 1300<br>*2500 | 2970                    | 1788                                       | 1793 | 5396                | 6056 | *3/3                       |
| ZSM700     | 7000                      | 850<br>*2100                             | 1000<br>*2300 | 3240                    | 2058                                       | 2063 | 5480                | 6140 | 3/3                        |

NOTE: (1)\* refers to rated capacity with double tires.

(2)3-3.5T: free lifted height 397mm increased without backrest.

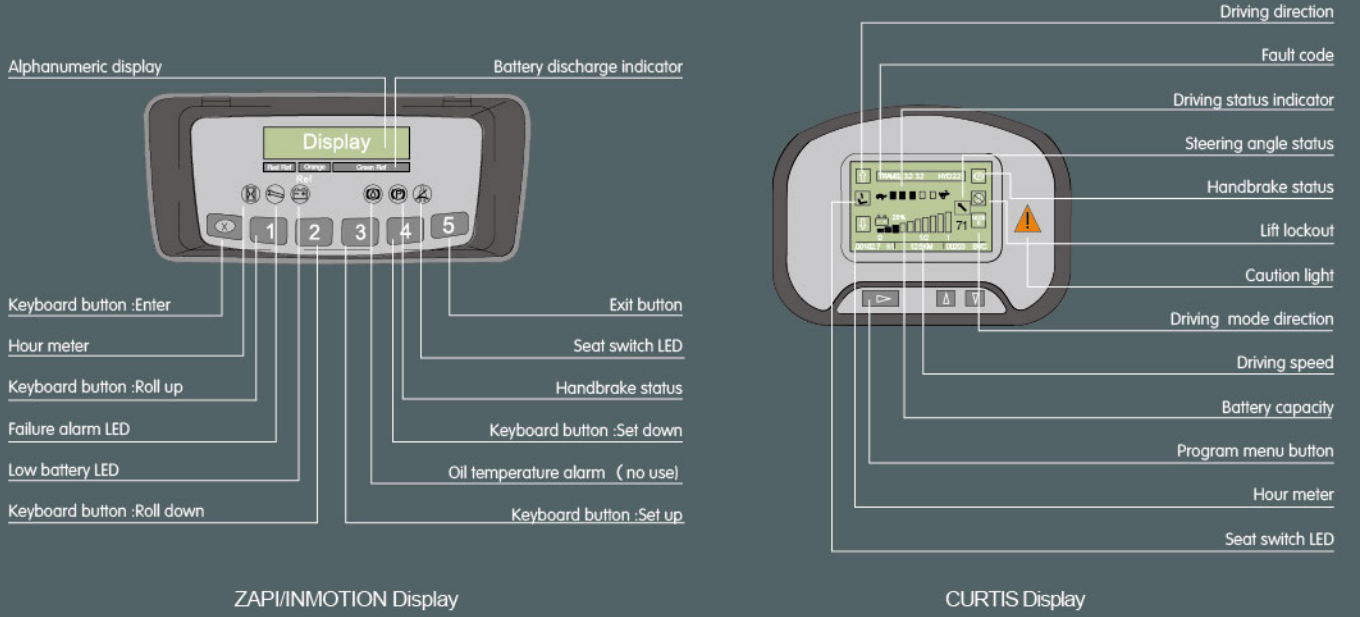

**Renewable energy technologies**

With the use of the excellent load-sensing steering system and AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

**↑15%**

THE PERFORMANCE OF BATTERY INCREASES

The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.



## Standard configuration

Wide view standard mast  
Standard fork  
Class III carriage  
Backrest  
Control valve  
Battery  
Standard seat  
Overhead guard  
LCD combined instrument  
Horn alert function on rear handle  
Traction pin  
Driver's tool  
Flashing light

## Optional device

String rod  
Driver's cab  
Lifting hook  
Cargo boom  
Tip-over fork  
Side shifter  
Paper roll clamp  
Warning light (rotating or buzzing)  
solid tyre  
Rear working light  
Steel protection net  
Multipurpose drum clamp  
Load stabilizer

Wide carriage  
Lengthening fork  
Load pusher  
Lengthening fork extension  
Rotating flat clamp  
Dual-tyre with protection device  
Auxiliary hydraulic valve component  
Tilting/steering cylinder sleeve  
Non marking tyre  
wide view two/three stage full free mast  
Customer made color  
Sensor operated power steering  
Turn automatic deceleration function

**ÖZISMAK**

**SMZ**  
Lift + Vehicle

## ÖZISMAK İSTİF MAKİNELERİ SANAYİ ve TİC. LTD. ŞTİ.

Merkez Adres : İkitelli O.S.B. Dolapdere San. Sit. 25. Ada No:14 Başakşehir/İstanbul  
Telefon : +90 (212) 671 50 24 pbx Fax : +90 (212) 671 49 82  
Fabrika Adres : Türkgücü Mah. Türkgücü O.S.B. Yılmaz Alpaslan Cad. No:64 Çorlu/Tekirdağ  
Telefon : +90 (282) 681 80 77 pbx E-mail : info@ozismak.com www.ozismak.com