

**LONKING**



**1.6-2t**

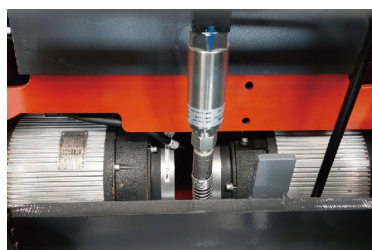
**N Series Three Wheel  
Counterbalance Electric Forklift Truck**



- Advanced AC dual drive motor, which can produce strong traction and power.
- Ultra-small turning radius, improve passability and space utilization.
- Regenerative braking function, prolong effective using time of battery.
- Intelligent LCD, can display the fault code, improve the maintenance efficiency.
- Powerful AC pump motor provides greater torque, making lifting and dropping of forks more smooth.
- Anti-skid function of ramp enables machine to slide smoothly and automatically on ramp.



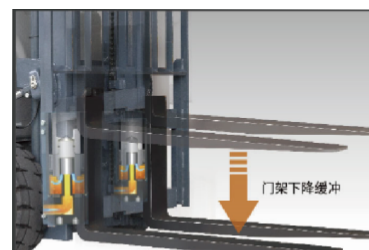
## Product details and advantages



High-power drive motor provides strong power; dual motors drive the front wheels independently.



Using electromagnetic parking brake, it can realize automatic parking function on slopes and flat areas.



The lifting system is equipped with a descending buffer device to reduce the impact and vibration of the mast.



Use advanced power display meter, timing meter and fault self-diagnosis meter to accurately display under harsh working conditions.



Wide field of view mast design, battery sunken design, low center, good stability.



It can be rotated forward and reverse, with small turning radius and good maneuverability.

| Character                     |                                                   |       |      |                 |           |           |
|-------------------------------|---------------------------------------------------|-------|------|-----------------|-----------|-----------|
| 1.01                          | Manufacturer                                      |       |      | LONKING         |           |           |
| 1.02                          | Model                                             |       |      | LG16BE3         | LG18BE3   | LG20BE3   |
| 1.03                          | Power type                                        |       |      | Electrical (AC) |           |           |
| 1.04                          | Rated capacity                                    | Q     | kg   | 1600            | 1800      | 2000      |
| 1.05                          | Load center                                       | J     | mm   | 500             | 500       | 500       |
| Dimensions                    |                                                   |       |      |                 |           |           |
| 2.01                          | Max. height (with backrest)                       | H2    | mm   | 4030            | 4030      | 4030      |
| 2.02                          | STD Max lifing height                             | H     | mm   | 3000            | 3000      | 3000      |
| 2.03                          | Overhead guard height                             | H4    | mm   | 2044            | 2044      | 2044      |
| 2.04                          | Overall length (with fork)                        | L     | mm   | 2875            | 2875      | 2983      |
| 2.05                          | Wheelbase                                         | L1    | mm   | 1400            | 1400      | 1508      |
| 2.06                          | Front overhang                                    | L2    | mm   | 365             | 365       | 365       |
| 2.07                          | Rear overhang                                     | L3    | mm   | 190             | 190       | 190       |
| 2.08                          | Min ground clearance (Chassis/Mast)               | m1/m2 | mm   | 105/85          | 105/85    | 100/85    |
| 2.09                          | Overall width (outside)                           | W1    | mm   | 1060            | 1060      | 1120      |
| 2.10                          | Fork adjustment range                             |       | mm   | 200-960         | 200-960   | 200-960   |
| 2.11                          | Fork size(STD)                                    |       | mm   | 920×100×35      |           |           |
| 2.12                          | Front wheel tread                                 | S     | mm   | 910             | 910       | 920       |
| 2.13                          | Rear wheel tread                                  | P     | mm   | 175             | 175       | 175       |
| 2.14                          | Min turning radius(outside)                       | r     | mm   | 1590            | 1590      | 1698      |
| 2.15                          | Min aisle width for pallet<br>1000x1200,crossways | Ast   | mm   | 3280            | 3280      | 3388      |
| 2.16                          | Min aisle width for pallet<br>800x1200.lengthways | Ast   | mm   | 3400            | 3400      | 3508      |
| Tyres                         |                                                   |       |      |                 |           |           |
| 3.01                          | Capital W (F/R, X=Driven wheels)                  |       |      | X=2/1           |           |           |
| 3.02                          | Tyres type (F/R)                                  |       |      | Solid           |           |           |
| 3.03                          | Tyres size,front                                  |       |      | 18×7-8          | 18×7-8    | 200/50-10 |
| 3.04                          | Tyres size,rear                                   |       |      | 15×4.5-8        | 15×4.5-8  | 15×4.5-8  |
| Performance and other details |                                                   |       |      |                 |           |           |
| 4.01                          | Max. travelling speed,loaded/unloaded             |       | km/h | 16/16           | 16/16     | 16/16     |
| 4.02                          | Lifting speed, loaded/unloaded                    |       | mm/s | 330/440         | 300/440   | 300/440   |
| 4.03                          | Lowering speed,loaded/unloaded                    |       | mm/s | ≤600/≥300       |           |           |
| 4.04                          | MAX. gradeability,loaded/unloaded                 |       | %    | 20/20           | 20/20     | 20/20     |
| 4.05                          | Service weight(with oil & water)                  |       | kg   | 2900            | 3290      | 3380      |
| 4.06                          | Axle load, F/R(loaded)                            |       | kg   | 4300/620        | 4570/605  | 4920/545  |
| 4.07                          | Axle load, F/R(unloaded)                          |       | kg   | 1600/1600       | 1600/1710 | 1710/1690 |
| 4.08                          | Drive motor                                       |       | kw   | 5.4×2           | 5.4×2     | 5.4×2     |
| 4.09                          | Lift motor                                        |       | kw   | 14              | 14        | 14        |
| 4.10                          | Controller                                        |       |      | inmotion        | inmotion  | inmotion  |
| 4.11                          | Lead-acid battery(voltage/capacity)               |       | V/Ah | 80/250          | 80/250    | 80/250    |
|                               | Lithium battery(voltage/capacity)                 |       | V/Ah | 80/205          | 80/205    | 80/205    |

| Mast type             | Mast model | H2 Max lifting height (mm) | Load capacity (J=500mm) (kg) |       |       | H1 Lowered Mast Height(mm) | H3 Free lifting Height (mm) | Mast tilting angle (°)α/β |
|-----------------------|------------|----------------------------|------------------------------|-------|-------|----------------------------|-----------------------------|---------------------------|
|                       |            |                            | 16BE3                        | 18BE3 | 20BE3 |                            |                             |                           |
| 2 Stage Standard Mast | M200       | 2000                       | 1600                         | 1750  | 2000  | 1510                       | 85                          | 5/7                       |
|                       | M250       | 2500                       | 1600                         | 1750  | 2000  | 1760                       | 85                          | 5/7                       |
|                       | M270       | 2700                       | 1600                         | 1750  | 2000  | 1860                       | 85                          | 5/7                       |
|                       | M300       | 3000                       | 1600                         | 1750  | 2000  | 2010                       | 85                          | 5/7                       |
|                       | M330       | 3300                       | 1600                         | 1750  | 2000  | 2160                       | 85                          | 5/7                       |
|                       | M350       | 3500                       | 1600                         | 1750  | 2000  | 2260                       | 85                          | 5/7                       |
|                       | M370       | 3700                       | 1600                         | 1750  | 2000  | 2360                       | 85                          | 5/7                       |
|                       | M400       | 4000                       | 1600                         | 1750  | 1950  | 2560                       | 85                          | 3/5                       |
|                       | M425       | 4250                       | 1600                         | 1750  | 1900  | 2685                       | 85                          | 3/5                       |
|                       | M450       | 4500                       | 1500                         | 1700  | 1850  | 2810                       | 85                          | 3/5                       |
|                       | M475       | 4750                       | 1400                         | 1650  | 1750  | 2935                       | 85                          | 3/5                       |
|                       | M500       | 5000                       | 1400                         | 1600  | 1700  | 3060                       | 85                          | 3/5                       |
|                       | M550       | 5500                       | 1200                         | 1400  | 1400  | 3360                       | 85                          | 3/3                       |
|                       | M600       | 6000                       | 900                          | 1000  | 1100  | 3610                       | 85                          | 3/3                       |

|                   |                                                          |      |      |      |      |      |      |     |
|-------------------|----------------------------------------------------------|------|------|------|------|------|------|-----|
| 2 Stage Free Mast | ZM200                                                    | 2000 | 1600 | 1750 | 2000 | 1510 | 875  | 5/7 |
|                   | ZM250                                                    | 2500 | 1600 | 1750 | 2000 | 1760 | 1125 | 5/7 |
|                   | ZM275                                                    | 2750 | 1600 | 1750 | 2000 | 1885 | 1250 | 5/7 |
|                   | ZM300                                                    | 3000 | 1600 | 1750 | 2000 | 2010 | 1375 | 5/7 |
|                   | ZM330                                                    | 3300 | 1600 | 1750 | 2000 | 2160 | 1525 | 5/7 |
|                   | ZM350                                                    | 3500 | 1600 | 1750 | 2000 | 2260 | 1625 | 5/7 |
|                   | ZM375                                                    | 3750 | 1600 | 1750 | 2000 | 2385 | 1750 | 5/7 |
|                   | ZM400                                                    | 4000 | 1600 | 1750 | 2000 | 2560 | 1925 | 3/5 |
|                   | ZM450                                                    | 4500 | 1600 | 1750 | 1950 | 2810 | 2175 | 3/5 |
|                   | Note: The free lifting height with backrest minus 368mm. |      |      |      |      |      |      |     |

|                   |                                                          |      |      |      |      |      |      |     |
|-------------------|----------------------------------------------------------|------|------|------|------|------|------|-----|
| 3 Stage Free Mast | ZSM360                                                   | 3600 | 1600 | 1750 | 2000 | 1790 | 1145 | 3/5 |
|                   | ZSM400                                                   | 4000 | 1600 | 1750 | 2000 | 1828 | 1283 | 3/5 |
|                   | ZSM435                                                   | 4350 | 1500 | 1700 | 1900 | 2040 | 1395 | 3/5 |
|                   | ZSM450                                                   | 4500 | 1500 | 1700 | 1850 | 2090 | 1445 | 3/5 |
|                   | ZSM470                                                   | 4700 | 1450 | 1650 | 1750 | 2162 | 1515 | 3/5 |
|                   | ZSM480                                                   | 4800 | 1450 | 1650 | 1750 | 2190 | 1545 | 3/5 |
|                   | ZSM500                                                   | 5000 | 1300 | 1600 | 1700 | 2290 | 1645 | 3/5 |
|                   | ZSM540                                                   | 5400 | 1150 | 1250 | 1400 | 2415 | 1770 | 3/3 |
|                   | ZSM600                                                   | 6000 | 900  | 1000 | 1100 | 2640 | 1995 | 3/3 |
|                   | ZSM650                                                   | 6500 | 800  | 900  | 1000 | 2840 | 2195 | 3/3 |
|                   | Note: The free lifting height with backrest minus 358mm. |      |      |      |      |      |      |     |

Note: Load capacity is reduced 150kg with optional side shifter for 1.6-2t forklift.



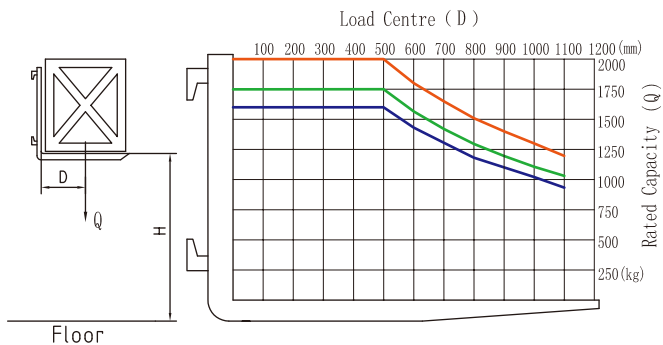
## Configuration Option Sheet

## Three Wheel

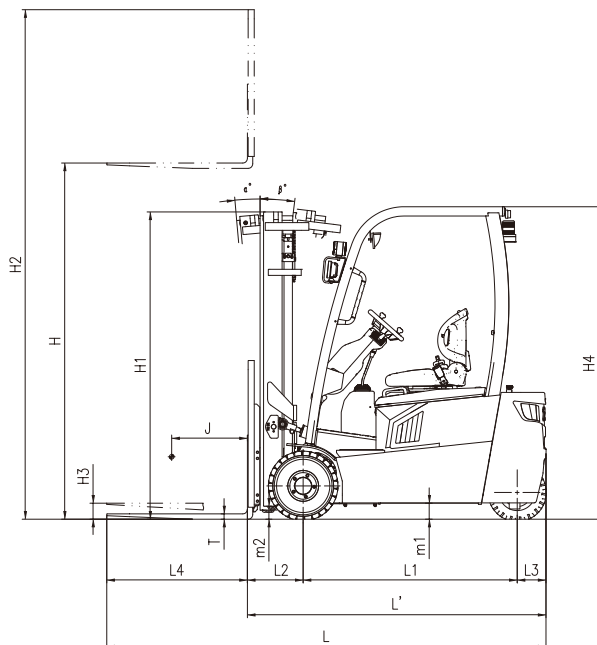
|               |                                                    |                                              |                                        |                             |                                 |
|---------------|----------------------------------------------------|----------------------------------------------|----------------------------------------|-----------------------------|---------------------------------|
| Configuration | Multi Function Display                             | Driving/lifting/steering Computer Controlled | Pedal Rubber                           | Lead Acid & Lithium Battery | Emergency Stop Switch           |
|               | Safety seat                                        | Full-hydraulic Power Steering                | Standard Forks                         | Adjustable Steering Column  | Lift, Tilt, Levers              |
|               | Two-piece Multiplex Valve                          | Driving OPS                                  | Wide view mast                         | Gear Pump with Low Noise    | Energy Efficient Dynamic Signal |
|               | Load Sensing Hydraulic System                      | Roof Weather Canopy                          | Charging Indicator                     | Electric Horn               | Reversing Buzzer                |
|               | Traction Pin                                       | Tool Box                                     | Solid Tyres                            | Full Set of LED Lights      |                                 |
| Optional      | Rear Working Light                                 | Warning Light                                | Suspension Seat                        | Non Marking Tyres           | 2 Stage Full Free Lift Mast     |
|               | 3 Stage Full Free Lift Mast                        | Lifting Potentiometer                        | Rotating Buzzer Warning Light          | Battery Charger             | Valve and piping Reserving      |
|               | Three sides(left,right and rear)red/blue bar light | Rear Blue Light                              | Full Set OPS(Including drive and lift) | Tailored backrest           | Widen Fork Carriage             |
|               | Fork Extensions                                    | Tilt cylinder protection                     | Steering cylinder protection           | Custom Colours              | Multiple Hydraulic Attachments  |
|               | Transparent Roof Cover                             |                                              |                                        |                             |                                 |

## Load Curve

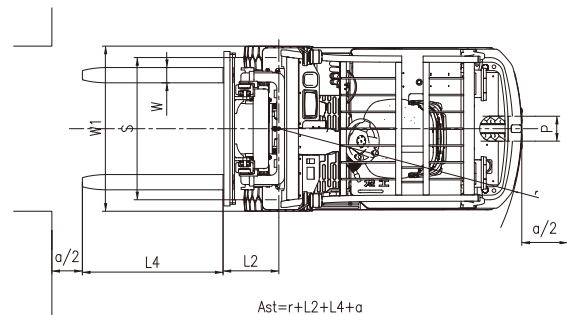
Load Curve



## Structure Diagram



Ast : Right Angle Stacking Aisle Width  
a : Clearance





# LONKING



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ISO14001:2015



ISO9001:2015



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