



**X SERIES** ELECTRIC SIT-ON REACH TRUCK  
RT16 / RT20 / RT25

Load capacity: 1,600 kg / 2,000 kg / 2,500 kg



# Overview

Designed for high-density storage, it offers efficient maneuverability and efficiency in narrow aisles. Suitable for high-level rack warehousing, cold chain/pharmaceutical storage, logistics distribution centers, production line handling, e-commerce, and 3PL operations. The X Series delivers greater productivity and enhanced operator comfort for most challenging jobsites.



## Efficiency

### ■ AC Motor & Digital Control Efficiency

- The combination of AC drive and lift motors with an advanced digital controller ensures optimal performance matching and high energy efficiency.

### ■ High-Efficiency Working Speeds

- Maximum travel speed reaches up to 14 km/h, and maximum mast lifting speed reaches 0.45 m/s.

### ■ Energy Regeneration

- Features a regenerative braking function that recovers energy during deceleration, significantly extending battery autonomy.



### ■ Precision Control

- Standard Mini Lever, integrated sideshift, and a fork height positioning system allow for easily and accurately, greatly speeding up work.



### ■ Flexible Battery Solutions

- Lead-acid battery standard with a side-changed for convenient replacement and maintenance. High-performance Lithium batteries are optional, featuring a side-charging port for opportunity charging—fast, convenient, and available on-demand.



# Reliability & Safety

## ■ Robust Structure & High IP grade Protection

- The heavy-duty chassis and rigid mast construction ensure an extended service life and superior structural stability. Key electrical components, including motors and electronic controllers designed with High IP grade Protection to guarantee reliable operation under harsh working conditions.

## ■ Triple Braking System

- Equips a comprehensive triple-braking system: hydraulic load-wheel braking, regenerative braking, and electromagnetic parking brake. Service braking combines hydraulic and regenerative actions for short stopping distances without inertial shock. The electromagnetic parking brake engages automatically stopping, Prevent truck from rolling down on the slope.



## ■ Enhanced Visibility & Quad-Cushioning



- The offset mast assembly offers an excellent forward view. Standard features include an integrated sideshifter, fork tilting, and a "Mast buffering" system (mast reach in-out buffering, mast staging cushioning, Lifting end buffering, and forks soft-landing) to protect fragile cargo and ensure safe operation.

## ■ Intelligent Safety Assistance

- **Active Stability Control (ASC) System (Optional)**
  - Minimizes truck swaying and vibrations during mast lifting or reaching, enhancing high-level operating precision.

### • Curve Speed Control (Standard):

- Automatically decelerates the truck during cornering based on the steering angle to prevent tip-over risks.

## ■ Advanced Diagnostics

- CAN-bus communication technology, the system monitors motor speed, temperature, and vital parameters in real-time to achieve precise closed-loop control.

# Serviceability

## ■ Conveniently -Access Maintenance

- The integrated seat support design can be fully pulled open to the side, giving a clear view of all electrical controls, motors, hydraulic units, drive and brake systems — making maintenance quick and easy.



## ■ Real-Time Diagnostics & Intelligent CAN-bus

- The intelligent onboard monitoring system continuously checks the truck's status in real-time and reports error code information instantly via the display, enabling quickly troubleshooting. The CAN-bus simplifies electrical wiring, reduces connection failures, and streamlines fault diagnosis.

## ■ Battery Maintenance Made Easy

- The battery can be moved out horizontally together with the mast reach out, supported by the standard side-extraction mechanism, streamlining daily inspection, watering, or replacement.

# Ergonomics



## Versatile Steering Modes

- The 180°/360° steering mode can be changed via display, perfectly adapting to different application requirements and habits.

## Easy Cabin Access

- A two-level step and a handle design for 3-point access allow the driver to mount and dismount the truck safely and effortlessly.

## Excellent -Style Controls

- 3-pedal layout (Safety Pedal, Brake Pedal, and Accelerator Pedal) contributes to load handling and excellent driving control. An adjustable steering column and adjustable suspension seat (equipped with a standard seat switch for safety) reduce physical fatigue and allow drivers to find their natural posture.

## Premium Operator Interface

- Features a large 9-inch color touchscreen display. This large LCD provides clear, comprehensive, and easy-to-read truck to the operator. Keyless one-touch start combined with password PIN-code login offers enhanced convenience and authorized security access.

## Driver Comfort & Amenities

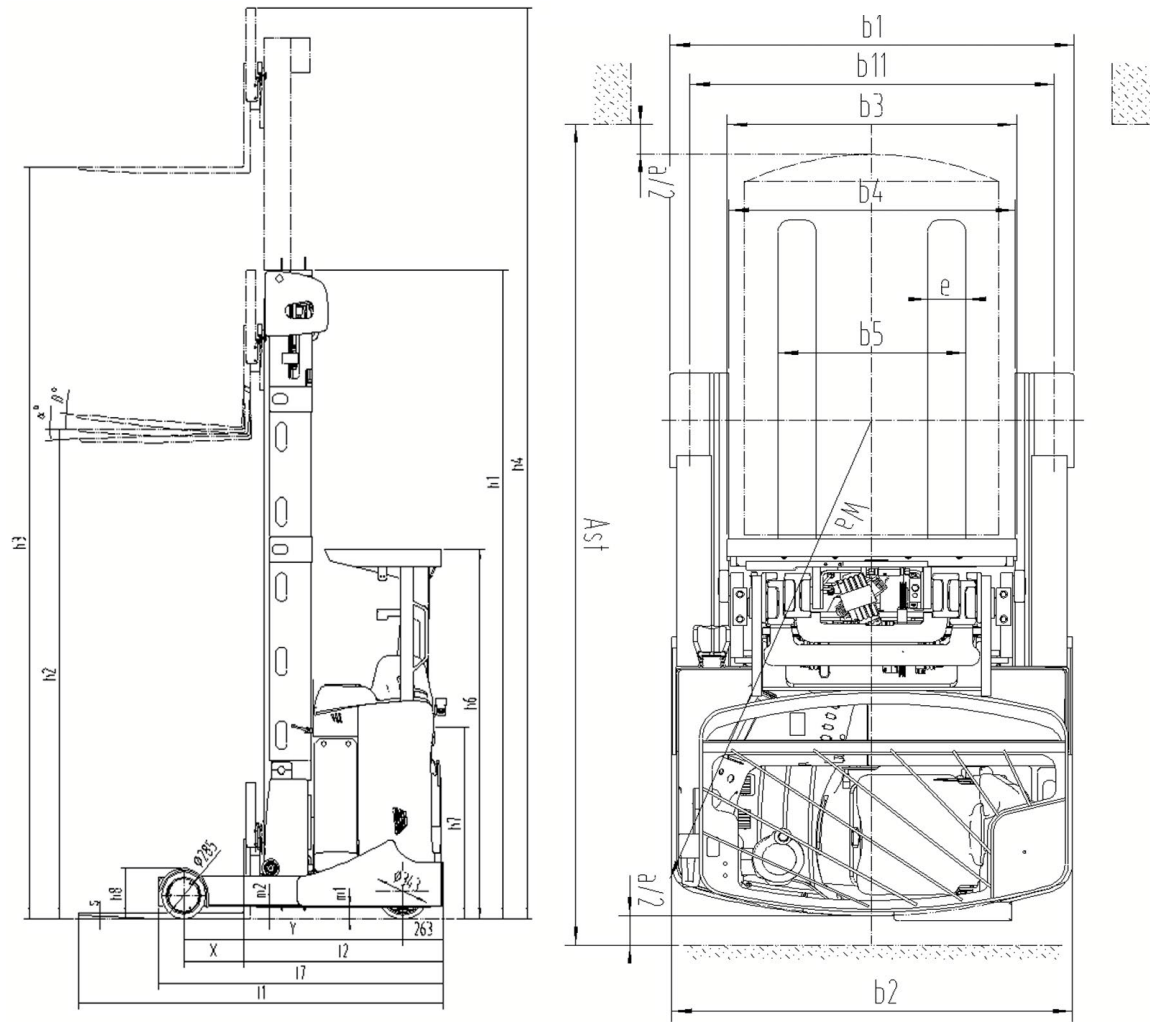
- Ergonomic mini lever places all mast controls within arm's reach for relaxed operation. An onboard USB charger is conveniently integrated for charging mobile phones and other electronic devices. Standard Electric Power Steering (EPS) with automatic wheel centering facilitates agile turning for truck conveniently used.



# RT16-25 Specification

|                     |        |                                                            |                 |                          |                          |              |
|---------------------|--------|------------------------------------------------------------|-----------------|--------------------------|--------------------------|--------------|
| Distinguishing mark | 1.2    | Manufacturer's type designation                            |                 | RT16-MZX                 | RT20-MZX                 | RT25-MZX     |
|                     | 1.3    | Power unit                                                 |                 | Battery                  | Battery                  | Battery      |
|                     | 1.4    | Operator type:hand,pedestrian,standing,seated,order-picker |                 | Seated                   | Seated                   | Seated       |
|                     | 1.5    | Rated capacity/Ratedload                                   | Q (kg)          | 1600                     | 2000                     | 2500         |
|                     | 1.6    | Load centre distance                                       | c (mm)          | 600                      | 600                      | 600          |
|                     | 1.8    | Load distance,centre of drive axle to fork                 | x (mm)          | 391                      | 377                      | 378          |
|                     | 1.9    | Wheelbase                                                  | y (mm)          | 1420                     | 1510                     | 1650         |
|                     | 2.1    | Service weight                                             | kg              | 4250                     | 3605                     | 5590         |
|                     | 2.2    | Axle loading,fork advanced,unladen,driver/load             | kg              | 1700/2570                | 1435/2170                | 2850/3180    |
| Weight              | 2.3    | Axle loading,fork retracted,unladen,driver/load            | kg              | 2590/1670                | 2245/1360                | 2350/3750    |
|                     | 2.4    | Axle loading,fork advanced,laden,driver/load               | kg              | 710/5200                 | 727/4878                 | 1150/6950    |
|                     | 2.5    | Axle loading,fork retracted,laden,driver/load              | kg              | 2390/3520                | 2030/3575                | 2850/5330    |
|                     | 3.1    | Tyres:driver/load                                          |                 | Polyurethane             | Polyurethane             | Polyurethane |
|                     | 3.2    | Tyres size,driver                                          | mm              | Φ343×140                 | Φ343×140                 | Φ343×140     |
| Tyres / chassis     | 3.3    | Tyres size,load                                            | mm              | Φ285×100                 | Φ343×114                 | Φ343×140     |
|                     | 3.5    | Wheels number,front/rear(x=driven wheels)                  |                 | 1x/2                     | 1x/2                     | 1x/2         |
|                     | 3.7    | Tread,load                                                 | b11 (mm)        | 1146                     | 1146                     | 1195         |
| Dimensions          | 4.1    | Tilt of mast/fork carriage,forward/backward                | a/b (°)         | 2/4                      | 2/4                      | 2/4          |
|                     | 4.2    | Height of mast,lowered                                     | h1 (mm)         | 2340                     | 2340                     | 2340         |
|                     | 4.3    | Free lift                                                  | h2 (mm)         | 1345                     | 1400                     | 1400         |
|                     | 4.4    | Lift                                                       | h3 (mm)         | 5000                     | 5000                     | 5000         |
|                     | 4.5    | Height,mast extended                                       | h4 (mm)         | 5965                     | 5940                     | 5940         |
|                     | 4.7    | Height of overhead guard(cabin)                            | h6 (mm)         | 2210                     | 2210                     | 2210         |
|                     | 4.19   | Overall length                                             | l1 (mm)         | 2362                     | 2466                     | 2610         |
|                     | 4.20   | Length to face of fork                                     | l2 (mm)         | 1292                     | 1396                     | 1536         |
|                     | 4.21   | Overall width                                              | b1/b2 (mm)      | 1270/1260                | 1270/1260                | 1345/1260    |
|                     | 4.22   | Fork dimensions DIN ISO 2331                               | s / e / l (mm)  | 40/120/1070              | 40/120/1070              | 45/125/1070  |
|                     | 4.23   | Fork carriage DIN 15 173,class/type A,B                    |                 | 2B                       | 2B                       | 2B           |
|                     | 4.24   | Fork carriage width                                        | b3 (mm)         | 911                      | 928                      | 928          |
|                     | 4.25   | Distance between fork-arms min/max                         | b5 (mm)         | 748                      | 708                      | 330/688      |
|                     | 4.26   | Distance between wheel-arms/loading surfaces               | b4 (mm)         | 900                      | 900                      | 900          |
|                     | 4.28   | Reach distance                                             | l4 (mm)         | 585                      | 600                      | 600          |
|                     | 4.31   | Ground clearance,laden,below mast                          | m1 (mm)         | 88                       | 80                       | 70           |
|                     | 4.34.1 | Aisle width for pallets 1000mmx1200mm crossways            | Ast (mm)        | 2740                     | 2849                     | 2980         |
|                     | 4.34.2 | Aisle width for pallets 800mmx1200mm Lengthwise            | Ast (mm)        | 2780                     | 2899                     | 3025         |
|                     | 4.35   | Turning radius                                             | Wa (mm)         | 1683                     | 1783                     | 1920         |
| Performance data    | 4.37   | Length across wheel arms                                   | l7 (mm)         | 1843                     | 1960                     | 2100         |
|                     | 5.1    | Travel speed,laden/unladen                                 | km/h            | 14/14                    | 10.5/11                  | 10/12        |
|                     | 5.2    | Lift speed,laden/unladen                                   | m/s             | 0.29/0.45<br>(0.40/0.45) | 0.29/0.45<br>(0.35/0.45) | 0.35/0.58    |
|                     | 5.3    | Lowering speed,laden/unladen                               | m/s             | 0.55/0.50                | 0.5/0.5                  | 0.45/0.45    |
|                     | 5.4    | Reaching speed,laden/unladen                               | m/s             | 0.12/0.12                | 0.12/0.12                | 0.12/0.12    |
|                     | 5.8    | Gradeability,laden/unladen                                 | %               | 10/10                    | 10/10                    | 10/11        |
| Combustion -engine  | 5.10   | Service brae                                               |                 | Electric                 | Electric                 | Electric     |
|                     | 6.1    | Drive motor,S2 60 minute rating                            | kW              | 6.5(AC)                  | 6.5(AC)                  | 6.5(AC)      |
|                     | 6.2    | Lift motor,S3 15% rating                                   | kW              | 8.2/(12)(AC)             | 8.2/(12)(AC)             | 15(AC)       |
|                     | 6.4    | Battery voltage/nominal capacity K5                        | (V)/(Ah) or kWh | 48/420                   | 48/500                   | 48/700       |
|                     | 6.5    | Battery weight                                             | kg              | 650                      | 870                      | 1000         |
|                     | 10.7   | Sound pressure level at the driver's seat                  | dB (A)          | 65                       | 65                       | 69.7         |

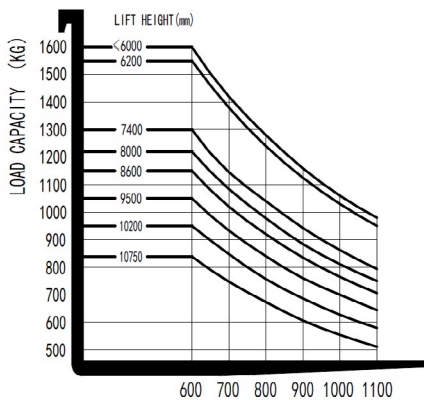
TRUCK DIMENSION DIAGRAM



Load Capacity Chart

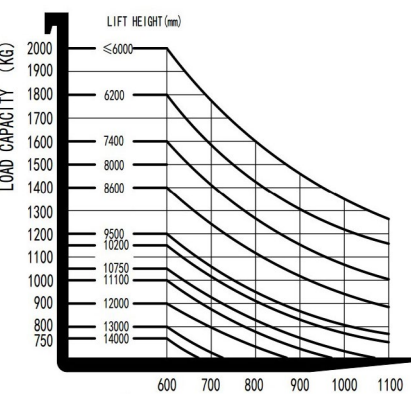
RT16-MZX

LIFTING HEIGHT - LOAD



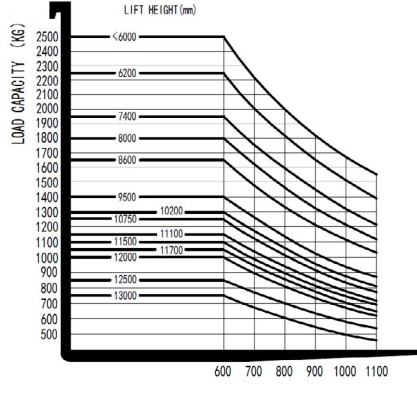
RT20-MZX

LIFTING HEIGHT - LOAD



RT25-MZX

LIFTING HEIGHT - LOAD



RT16-MZX

|                                           |        |      |      |      |      |      |      |      |      |       |       |       |       |
|-------------------------------------------|--------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| Lift                                      | h3(mm) | 5000 | 5500 | 6200 | 7000 | 7400 | 8000 | 8600 | 9000 | 9500  | 10200 | 10750 | 10750 |
| Lift capacity                             | kg     | 1600 | 1600 | 1550 | 1380 | 1300 | 1220 | 1150 | 1100 | 1050  | 950   | 840   | 840   |
| Height of mast,lowered                    | h1(mm) | 2340 | 2400 | 2740 | 3007 | 3190 | 3390 | 3590 | 3724 | 3890  | 4190  | 4375  | 4375  |
| Free lift (with load backrest)            | h2(mm) | 1345 | 1405 | 1745 | 2012 | 2195 | 2395 | 2595 | 2729 | 2895  | 3195  | 3380  | 3380  |
| Free lift (without load backrest)         | h2(mm) | 1736 | 1803 | 2036 | 2303 | 2536 | 2736 | 2936 | 3070 | 3236  | 3516  | 3700  | 3700  |
| Height,mast extended (with load backrest) | h4(mm) | 5965 | 6465 | 7165 | 7965 | 8365 | 8965 | 9565 | 9965 | 10465 | 11165 | 11715 | 11715 |

RT20-MZX

|                                           |        |      |      |      |      |      |      |      |      |       |       |       |       |       |
|-------------------------------------------|--------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| Lift                                      | h3(mm) | 5000 | 5500 | 6200 | 7000 | 7400 | 8000 | 8600 | 9000 | 9500  | 10200 | 11100 | 12000 | 12500 |
| Lift capacity                             | kg     | 2000 | 2000 | 1800 | 1700 | 1600 | 1500 | 1400 | 1300 | 1200  | 1150  | 1000  | 900   | 850   |
| Height of mast,lowered                    | h1(mm) | 2340 | 2507 | 2740 | 3010 | 3190 | 3390 | 3590 | 3724 | 3890  | 4190  | 4490  | 4790  | 4956  |
| Free lift (with load backrest)            | h2(mm) | 1400 | 1567 | 1800 | 2070 | 2250 | 2450 | 2650 | 2784 | 2950  | 3250  | 3550  | 3850  | 4016  |
| Free lift (without load backrest)         | h2(mm) | 1736 | 1902 | 2136 | 2406 | 2536 | 2736 | 2936 | 3068 | 3236  | 3600  | 3900  | 4200  | 4366  |
| Height,mast extended (with load backrest) | h4(mm) | 5940 | 6440 | 7140 | 7940 | 8340 | 8940 | 9540 | 9940 | 10440 | 11140 | 12040 | 12940 | 13440 |

RT25-MZX

|                                           |        |      |      |      |      |      |      |      |      |       |       |       |       |       |
|-------------------------------------------|--------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| Lift                                      | h3(mm) | 5000 | 5500 | 6200 | 7000 | 7400 | 8000 | 8600 | 9000 | 9500  | 10200 | 11700 | 12500 | 13200 |
| Lift capacity                             | kg     | 2500 | 2500 | 2250 | 2050 | 1950 | 1800 | 1650 | 1500 | 1400  | 1300  | 1050  | 850   | 710   |
| Height of mast,lowered                    | h1(mm) | 2340 | 2507 | 2740 | 3010 | 3190 | 3390 | 3590 | 3724 | 3890  | 4220  | 4720  | 4990  | 5257  |
| Free lift (with load backrest)            | h2(mm) | 1400 | 1567 | 1800 | 2070 | 2250 | 2450 | 2650 | 2784 | 2950  | 3283  | 3783  | 4053  | 4320  |
| Free lift (without load backrest)         | h2(mm) | 1736 | 1902 | 2136 | 2406 | 2536 | 2736 | 2936 | 3068 | 3236  | 3600  | 4100  | 4368  | 4602  |
| Height,mast extended (with load backrest) | h4(mm) | 5940 | 6440 | 7140 | 7940 | 8340 | 8940 | 9540 | 9940 | 10440 | 11140 | 12640 | 13440 | 14140 |

Maximal RT16/20/25 CONFIGURATION

| PERFORMANCE                                                  | STD | OPT |
|--------------------------------------------------------------|-----|-----|
| Driving Motor 6.5kw/ Lifting Motor 8.2kw/15Kw                | ●   |     |
| Big power motor with quick lift for 1.6/2.0t                 |     | ●   |
| Lead-Acid Battery                                            | ●   |     |
| Lithium battery                                              |     | ●   |
| High-performance charger                                     | ●   |     |
| Digital Controller                                           | ●   |     |
| Cold Store Protect FOR TRUCK-25°C                            |     | ●   |
| DRIVE                                                        | STD | OPT |
| PU Drive Wheel / PU Load Wheel                               | ●   |     |
| Speed limited (Four-speed 7/8/9/10km/h limit set on display) | ●   |     |
| Load wheel brake                                             | ●   |     |
| Safety Pedal                                                 | ●   |     |
| Auto-parking brake                                           | ●   |     |
| Speed Limit when Mast is raised                              |     | ●   |
| Speed reduce when turning                                    | ●   |     |
| LIFT                                                         | STD | OPT |
| 3 stage limited freelifst mast                               | ●   |     |
| 2° forward /4° back tilt                                     | ●   |     |
| HANDLING                                                     | STD | OPT |
| Mini Lever                                                   | ●   |     |
| Manual Multi-way valve control (only for 2t truck)           |     | ●   |
| Selection of alternative fork lengths                        |     | ●   |
| Height positioning system                                    | ●   |     |
| High select system                                           | ●   |     |
| Camera system (Wired /Wireless)                              |     | ●   |
| Integrate Side shifter                                       | ●   |     |
| Load Backrest                                                | ●   |     |
| Mast buffering (Landing/Lifting end/Stage/Reach in-out)      | ●   |     |
| Mast lifting with reach in-out                               | ●   |     |
| Forklift scale (only for 2t truck)                           |     | ●   |
| ASC Stabilization system                                     |     | ●   |
| ERGONOMICS                                                   | STD | OPT |
| Overhead guard                                               | ●   |     |
| Top Screen PE                                                |     | ●   |

| ERGONOMICS                                                                                                              | STD | OPT |
|-------------------------------------------------------------------------------------------------------------------------|-----|-----|
| Electrical power steering                                                                                               | ●   |     |
| 180 Degree steering                                                                                                     | ●   |     |
| 360 Degree steering                                                                                                     |     | ●   |
| USB Charger 5V 2.1A/1A                                                                                                  | ●   |     |
| Password start                                                                                                          | ●   |     |
| Cup Holder                                                                                                              | ●   |     |
| Operator fan                                                                                                            |     | ●   |
| Piping for Water Refill for Lead-Acid battery                                                                           |     | ●   |
| Lateral battery Change std for lead-acid battery                                                                        | ●   |     |
| Lateral battery Change option for lithium battery                                                                       |     | ●   |
| Suspended seat with Seat switch with armrest                                                                            | ●   |     |
| High backrest woven seat (without armrests, with seat switch)                                                           |     | ●   |
| Safety Belt                                                                                                             |     | ●   |
| Multifunction color display panel                                                                                       | ●   |     |
| Adjustable steering column                                                                                              | ●   |     |
| VISIBILITY                                                                                                              | STD | OPT |
| Internal Mirror Panorama                                                                                                | ●   |     |
| LED Work Light, pair for Front                                                                                          |     | ●   |
| LED Work Light, One piece for rear                                                                                      |     | ●   |
| Flashing Beacon                                                                                                         | ●   |     |
| Buzzer leading forks                                                                                                    | ●   |     |
| Blue spot lights                                                                                                        |     | ●   |
| Red light (left, right)                                                                                                 |     | ●   |
| OPERATION                                                                                                               | STD | OPT |
| Horn                                                                                                                    |     | ●   |
| Seatbelt interlock for truck start and truck operation                                                                  |     | ●   |
| APPEARANCE                                                                                                              | STD | OPT |
| Maximal Red&Black                                                                                                       | ●   |     |
| Maximal White&Black - Lithium Version                                                                                   |     | ●   |
| SUPPLEMENTAL                                                                                                            | STD | OPT |
| CE Requirement                                                                                                          |     | ●   |
| Literature package                                                                                                      | ●   |     |
| Operator’s manual                                                                                                       | ●   |     |
| Warranty: Whole truck 14 Months / 2,000 hours parts manufacturer’s warranty; Lithium battery: 5 years/10000hrs warranty | ●   |     |



CE



ISO 14001



ISO 9001

#### Контакты продавца

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