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HELI

# OPD10/14 A3RLIG

## G Series Medium and High-Level Lithium Battery Order Picker


COMFORT AND ENERGY SAVING

STABLE AND RELIABLE

INTELLIGENT SECURITY

CONVENIENT MAINTENANCE

# OPD10/14
## A3RLIG

### Performance

The small overall dimensions, making the vehicle more suitable for order picking operations in narrow spaces. Travel speed and lifting speed reach the first-class level in the industry.

### Appearance

The whole vehicle incorporates the family-style design concept, adopts a streamlined outline, and uses continuous straight lines or curves to run through the body, which combines dynamics and aesthetics and has higher recognition.

### Safety

Independently developed "HELI Active Safety Control System" provides comprehensive safety protection for users and the entire vehicle.

### Reliability

Solid and durable vehicle structure, with excellent ergonomics. Key components are independently developed. Both the whole vehicle and components have passed strict strengthen testing.

**G Series 1-1.4t**
Medium and High-Level Lithium Battery Order Picker

# Driving Comfort

Standard equipped with fan and reading light, etc. More comfortable and convenient during high-level order picking operations.

Broad vision enables the driver to have better overall control during operation.

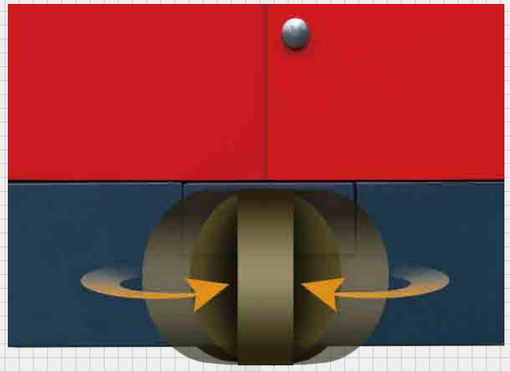
The steering force of the steering wheel can be adjusted according to users' needs. Effort-saving and reassuring.

All components in the driving cabin are within easy reach. The integrated operation control panel is concise and orderly, ensuring smooth and natural operation.

Polyurethane foaming processed floor mat, making long - time standing driving more comfortable.

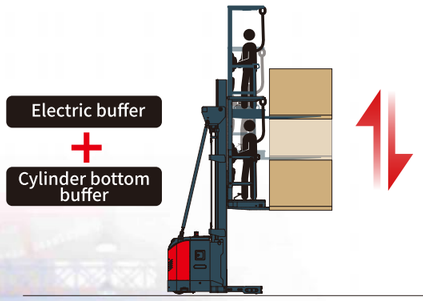



The technology of absorbing hydraulic pulsation with accumulators is adopted to reduce the hydraulic shock of the entire vehicle



When starting up, the drive wheels automatically return to the center, enhancing the driving experience

Superposition method of "electric buffer" and "cylinder bottom buffer" are adopted to reduce the impact of mast stroke at the end of the mast.



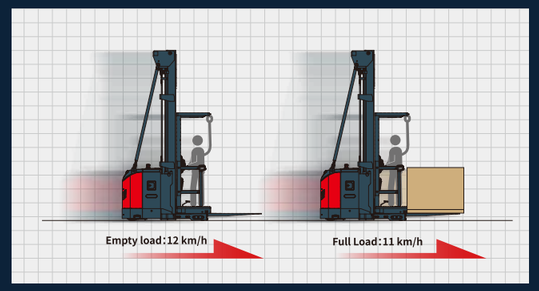


Side - pull battery, making battery replacement more convenient.

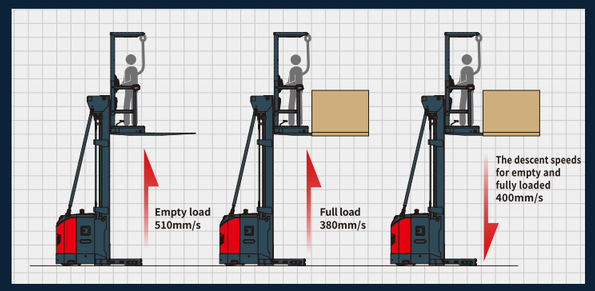
Side charging port making daily charging more convenient.

# Powerful Performance

Maximum traveling speed at low cargo position
**without load: 12km/h**
Maximum driving speed at low cargo position when **fully loaded: 11km/h**



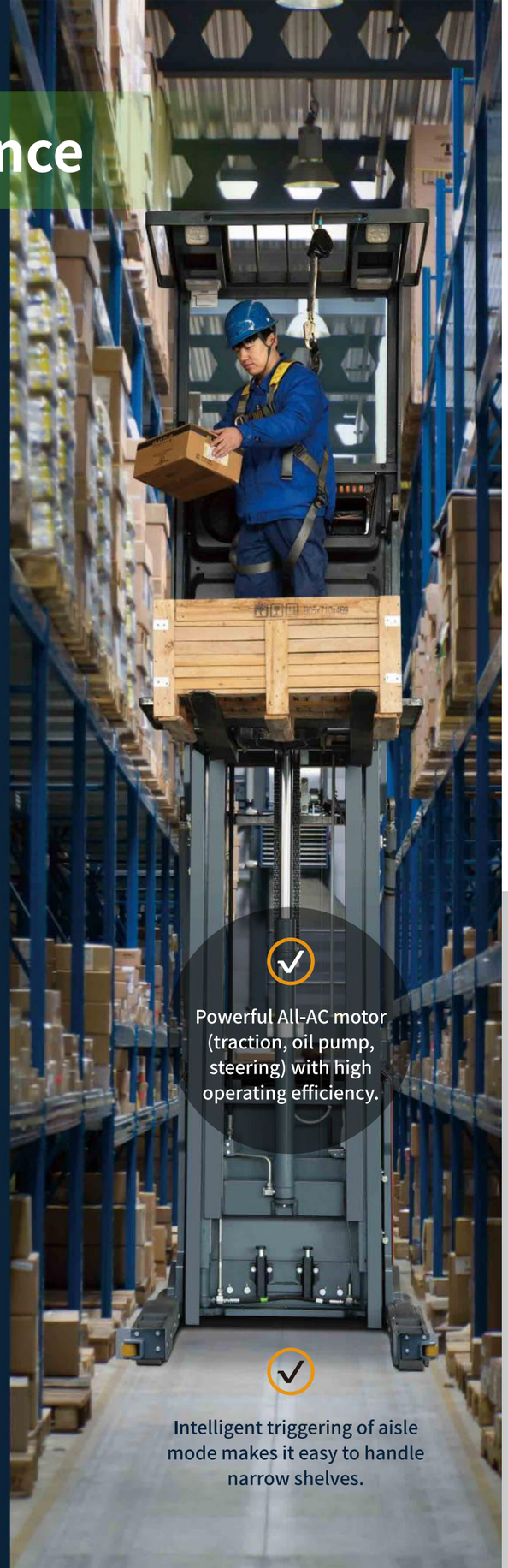

Empty load lifting speed:510mm/s, full load lifting speed:380mm/s, high operating efficiency. The descent speeds for both empty and fully loaded conditions are both 400mm/s.




Climbing ability with empty or fully load: 5%.

Standard battery life **8-10h**
The battery capacity is abundant. The battery box dimensions of the entire platform are consistent, allowing for arbitrary replacement.

| Battery Configuration Table |
| --- |
| 80V/202Ah、80V/250Ah、80V/300Ah |
| **Battery box dimension** |
| 930mm×360mm×750mm |



Powerful All-AC motor (traction, oil pump, steering) with high operating efficiency.

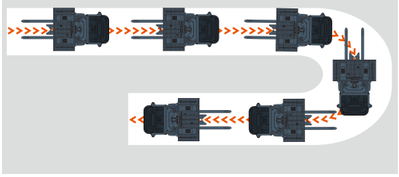
Intelligent triggering of aisle mode makes it easy to handle narrow shelves.



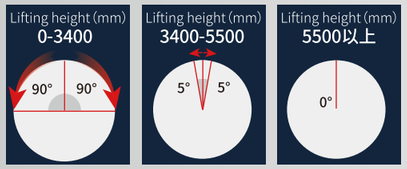
# Safe and Intelligent

A mechanical descent switch is configured to ensure that operators can quickly return to the ground even in emergency situations.

The overall vehicle speed is related to the turning angle, and there is an intelligent speed limit when turning.



The steering angle of the whole vehicle is associated with the lifting height. When driving at a high level, the steering angle is intelligently limited.



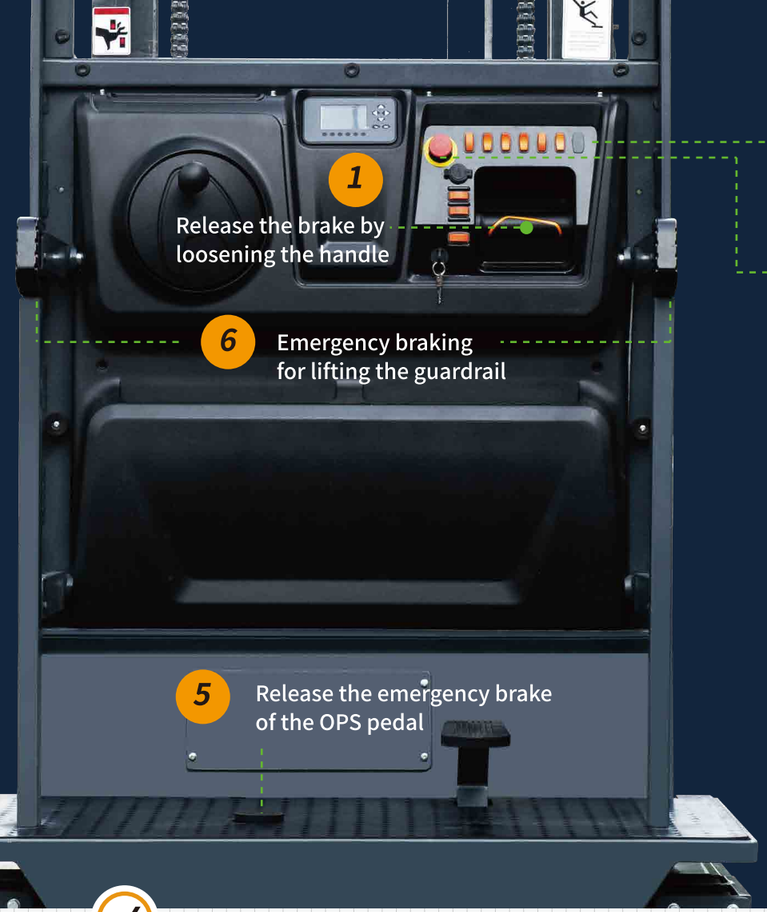

Thickened safety belt beam, solid and durable, enhancing a sense of security.

Advanced EPS (Electronic Power Steering), the steering input sensor adopts redundant design, providing double safety protection.

Equipped with anti-fall safety belts that meet the latest EU standards, doubling safety protection.

When operator fails to correctly step on the foot OPS switch, the whole vehicle automatically cuts off the power output.

Mechanical pallet fork to prevent goods from tilting and sliding.



1 Release the brake by loosening the handle

2 Press the parking brake when the parking button is pressed

3 Press the emergency stop button for emergency braking

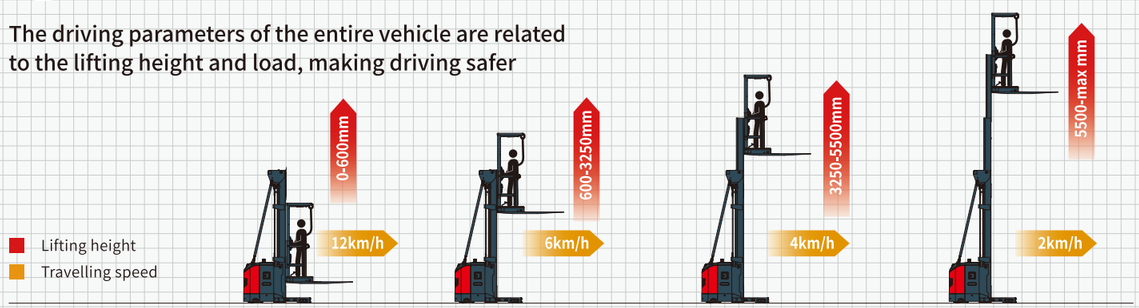
4 Automatic parking brake on slopes

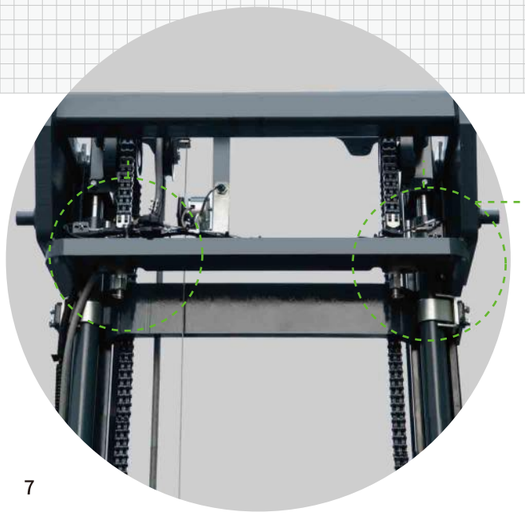
5 Release the emergency brake of the OPS pedal

6 Emergency braking for lifting the guardrail

Multiple braking systems safeguard driving safety

The driving parameters of the entire vehicle are related to the lifting height and load, making driving safer



By applying chain loosening detection technology, the condition of the chain is detected in real time to ensure the safety of the lifting system



# Adequate Testing


**400**-hour
Rigorous vehicle reinforcement test

**80,000**
Mast fatigue tests

**1,000,000**
operation control panel reliability tests

**1,000,000**
OPS switch reliability tests

**300,000**
reliability test of fork clamps

**1,000,000**
fork fatigue test

**4200**-kg load
Yield limit test of fork under

# Stable and Reliable

Equipped with dual CPU controllers that meet the latest EU standards, with reliable performance and high control precision.

The proportional valve speed control technology is applied in the descent to enhance the stability of the descent speed.

The high-position picking vehicle adopts a double pull rod design to reduce the shaking of the mast.

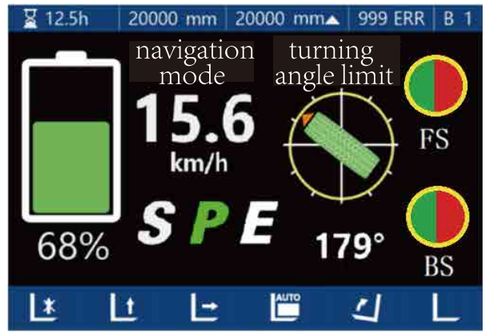


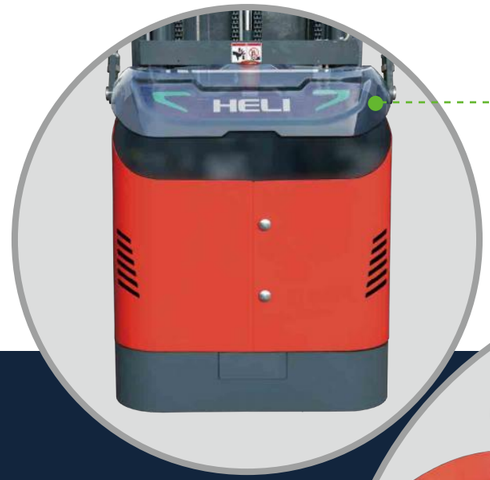

The strict mast roller clearance control process standards ensure stable and reliable operation at high altitudes.



# Convenient Maintenance

High-definition color screen instrument panel features a clear and simple interface layout, making information reading effortless and allowing for precise judgment of vehicle status.




Quick-detachable upper cover, facilitating daily maintenance of the whole vehicle.

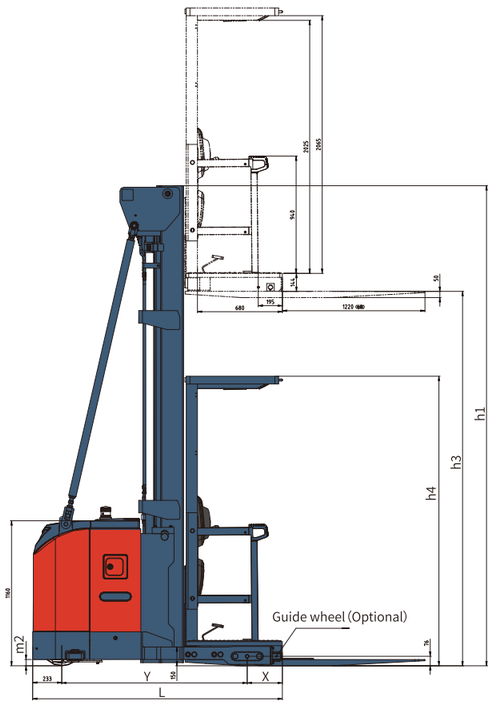
Controllers, motors, gearboxes and other components are centrally arranged, making maintenance easy.

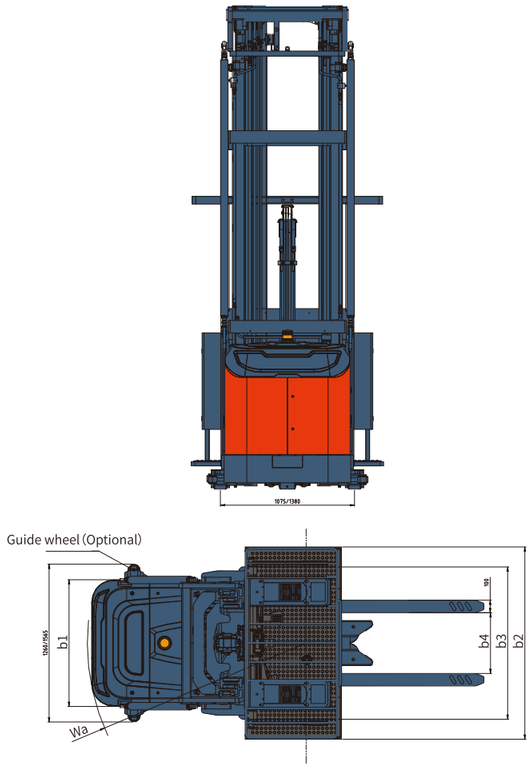
Removable open side door.

## Manufacturer's Data and Design Characteristics

| | | | | | |
|---|---|---|---|---|---|
| | Character | | | | |
| 1.01 | Manufacturer | | | HELI | |
| 1.02 | Model | | | OPD10 | OPD14 |
| 1.03 | Configuration number | | | A3RLIG | |
| 1.04 | Load capacity | Q | kg | 1000 | 1400 |
| 1.05 | Load center distance | C | mm | 600 | |
| 1.06 | Power mode | | | Lithium Battery | |
| 1.07 | Driving mode | | | Man-up order picking | |
| 1.08 | Wheel base | Y | mm | 1485 | 1485 |
| | Tyre | | | | |
| 2.01 | Tyre type | | | Polyurethane | |
| 2.02 | Wheels number,drive/load(X=driven wheels) | | | 1X/2 | |
| 2.03 | Track width,load | b3 | mm | Tab 1 | |
| 2.04 | Wheel size, load | | mm | ø152x99 | |
| 2.05 | Wheel size, drive | | mm | ø343x135 | |
| 2.06 | Wheel size, Front guide (optional) | | mm | ø65x50 | |
| 2.07 | Wheel size, Rear guide (optional) | | mm | ø100x50 | |
| | Size | | | | |
| 3.01 | Lift height | h3 | mm | 3500 | 5300 |
| 3.02 | Free lift | h2 | mm | / | 230 |
| 3.03 | Mast height, lowered | h1 | mm | 2300 | 2486 |
| 3.04 | Fork size, thickness/width/length | s/e/l | mm | 50x100x1220 | |
| 3.05 | Fork adjusting width | | mm | 380～600 | |
| 3.07 | Truck body length(fork excluded) | L | mm | 2000 | 2000 |
| 3.08 | Truck body width | b1 | mm | Tab 2 | |
| 3.09 | Front overhang | | mm | 280 | 280 |
| 3.10 | Height of overhead guard | h4 | mm | 2215 | |
| 3.11 | Ground clearance,below mast | m2 | mm | 50 | |
| 3.12 | Turning radius | Wa | mm | 1750 | 1750 |
| | Performance | | | | |
| 4.01 | Travelling speed,with/without load | | km/h | Tab 2 | |
| 4.02 | Lifting speed,with/without load | | m/s | 0.38/0.51 | 0.38/0.51 |
| 4.03 | Lowering speed,with/without load | | m/s | 0.4/0.4 | 0.4/0.4 |
| 4.04 | Maximum climbing ability,with/without load (S2-5min) | | % | 5/5 | 5/5 |
| | Weight | | | | |
| 5.01 | Total weight (with battery) | | | 3210 | 3670 |
| 5.02 | Battery weight | | kg | 450 | 450 |
| | Battery | | | | |
| 6.01 | Battery voltage/capacity | | V/Ah | 80/202 | 80/250 |
| 6.02 | Battery box dimension | | mm | 930×360×750 | 930×360×750 |
| | Moter and controller | | | | |
| 7.01 | Drive motor power (S2-60min) | | kw | 6 | 6 |
| 7.02 | Lifting motor power (S3-15%) | | kw | 18 | 18 |
| 7.03 | Steering motor power (S3-15%) | | kw | 0.75 | 0.75 |
| | Type of control | | | | |
| 8.01 | Transmission box | | | HELI special transmission box | |
| 8.02 | Service brake | | | Electrical | |

NOTE：Detailed information about lithium battery,please contact our salesmen or engineer.




### Tab 1

| Mast Height | Wheelbase (mm) | Overall Vehicle Width bl/b2 (mm) |
|---|---|---|
| 3500 | 1075 | 1015/1220 |
| 4000 | 1075 | 1015/1220 |
| 4500 | 1075 | 1015/1220 |
| 4700 | 1075 | 1015/1220 |
| 5000 | 1075 | 1015/1220 |
| 5300 | 1075 | 1015/1220 |
| 6000 | 1075 | 1015/1220 |
| 7000 | 1075 | 1015/1525 |
| 7500 | 1380 | 1015/1525 |
| 8000 | 1380 | 1015/1525 |
| 8500 | 1380 | 1015/1525 |
| 9000 | 1380 | 1015/1525 |
| 9300 | 1380 | 1015/1525 |

### Tab 2

| Lifting Height (mm) | Travelling Speed (km/h) |
|---|---|
| 0-600 | 12 |
| 600-3400 | 6 |
| 3400-5500 | 4 |
| 5500-max | 2 |

## WIDE VIEW MAST

| Mast model | Lifting height (mm) | Load capacity(kg) | Mast height(mm) | Service weight(kg) |
|---|---|---|---|---|
| | | OPD10-A3RLIG | OPD10-A3RLIG | OPD10-A3RLIG |
| M350 | 3500 | 1000 | 2300 | 3210 |
| M400 | 4000 | 1000 | 2550 | 3260 |
| M450 | 4500 | 1000 | 2800 | 3310 |
| M500 | 5000 | 1000 | 3200 | 3450 |

## WIDE VIEW FULL FREE 3-STAGE MAST

| Mast model | Lifting height (mm) | Load capacity(kg) | | Mast height, lowerd(mm) | Free lifting height(mm) | Weight(kg) | |
|---|---|---|---|---|---|---|---|
| | | OPD10-A3RLIG | OPD14-A3RLIG | | | OPD10-A3RLIG | OPD14-A3RLIG |
| ZSM470 | 4700 | 1000 | / | 2286 | 30 | 3950 | / |
| ZSM500 | 5000 | 1000 | / | 2386 | 130 | 3970 | / |
| ZSM530 | 5300 | / | 1400 | 2486 | 230 | / | 3670 |
| ZSM600 | 6000 | / | 1400 | 2720 | 460 | / | 3730 |
| ZSM700 | 7000 | / | 1250 | 3053 | 790 | / | 3780 |
| ZSM750 | 7500 | / | 1150 | 3220 | 960 | / | 3830 |
| ZSM800 | 8000 | / | 1050 | 3387 | 1130 | / | 4265 |
| ZSM850 | 8500 | / | 950 | 3603 | 1340 | / | 4315 |
| ZSM900 | 9000 | / | 870 | 3770 | 1510 | / | 4365 |
| ZSM930 | 9300 | / | 850 | 3870 | 1610 | / | 4390 |

## Standard Configuration

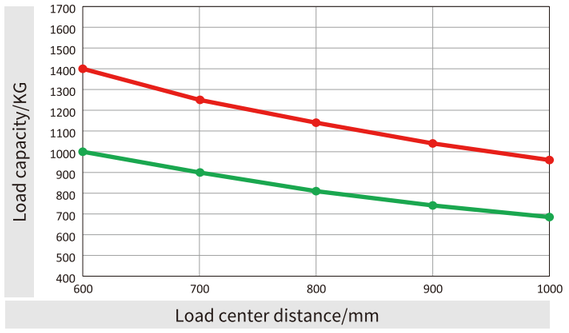
| | |
|---|---|
| AC travelling motor | Front working light |
| AC Lifting motor | Reading light |
| AC steering motor | Fan |
| Electrical brake | Rearview mirror |
| DC/DC converter | Metric thread |
| Low noisy gear pump | Without guide wheel |
| 3500mm wide view stage mast (OPD10) | Side - pull battery |
| 5300mm three-stage full free mast (OPD14) | Key start |
| Anti - fall systemm | LED flashing warning light |
| Operation console pallet clamp | Backward buzzer |
| Standard fork | HELI package |
| Polyurethane tyre | Integrated operation handle |

| Configuration Nunber | Configuration |
|---|---|
| A3RLIG | Electromagnetic multi - way valve |
| | Inmotion travel motor controller |
| | Inmotion lifting motor controller |
| | Inmotion steerig motor controller |

## Optional Device

| |
|---|
| Three-stage full free lift mast(other lifting height) |
| Fork with other length |
| American thread |
| Guide wheel |
| Electromagnetic navigation |
| Card - swiping start |
| Fire extinguisher |
| Truck networking |
| Neutral packagmg |
| Other lithium battery |
| Alternative color schemes |
| Other lights |

## Load - capacity curve diagram(Standard Mast)




NOTE: The vertical axis represents the load capacity, and the horizontal axis represents the load center. The load center is calculated from the front of the fork. The base point of the standard load refers to the center position of the cube with a load side length of 1200 millimeters. When using non-standard forks or loading loads that exceed the normal width, the carrying capacity will be reduced. Through the load curve graph, one can promptly understand the load-bearing capacity of the standard gantry at various load centers.