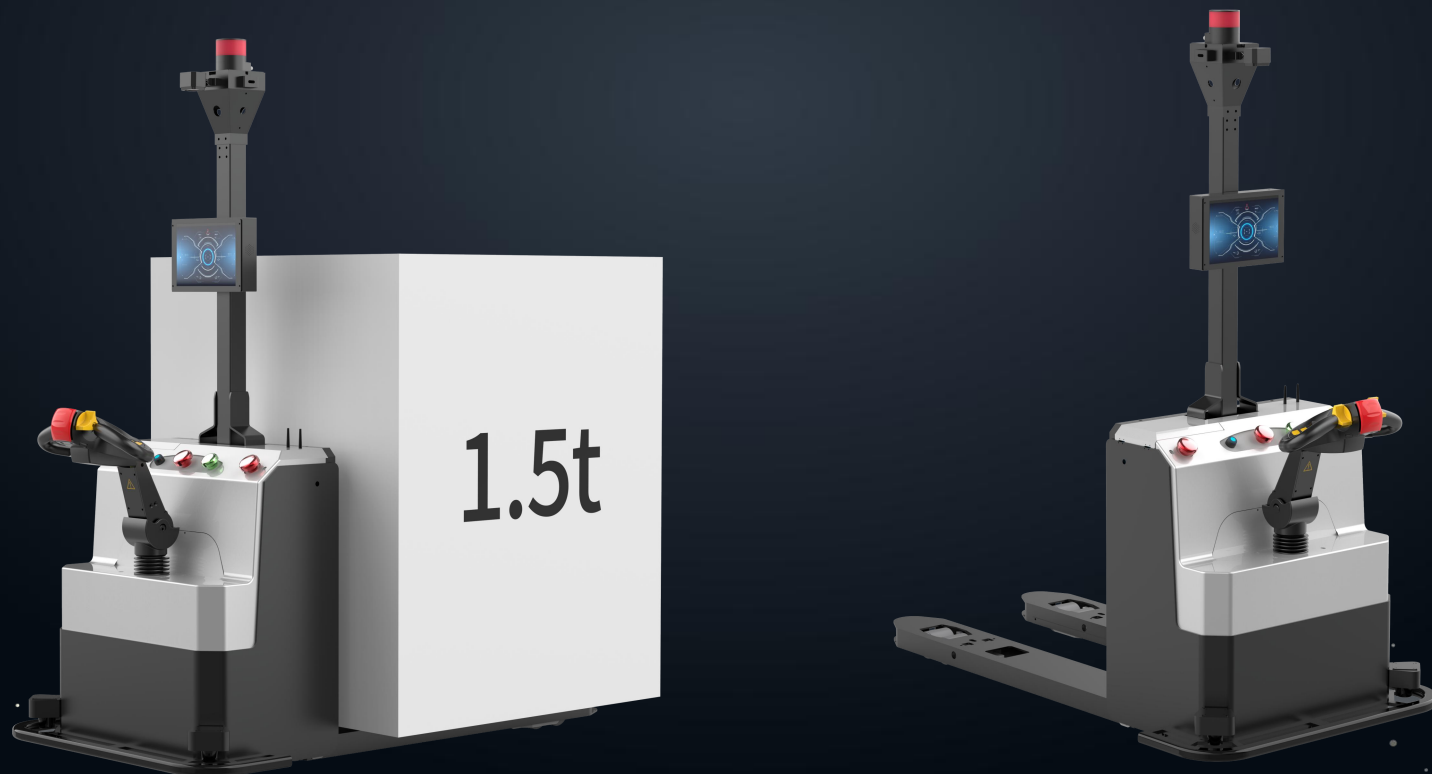
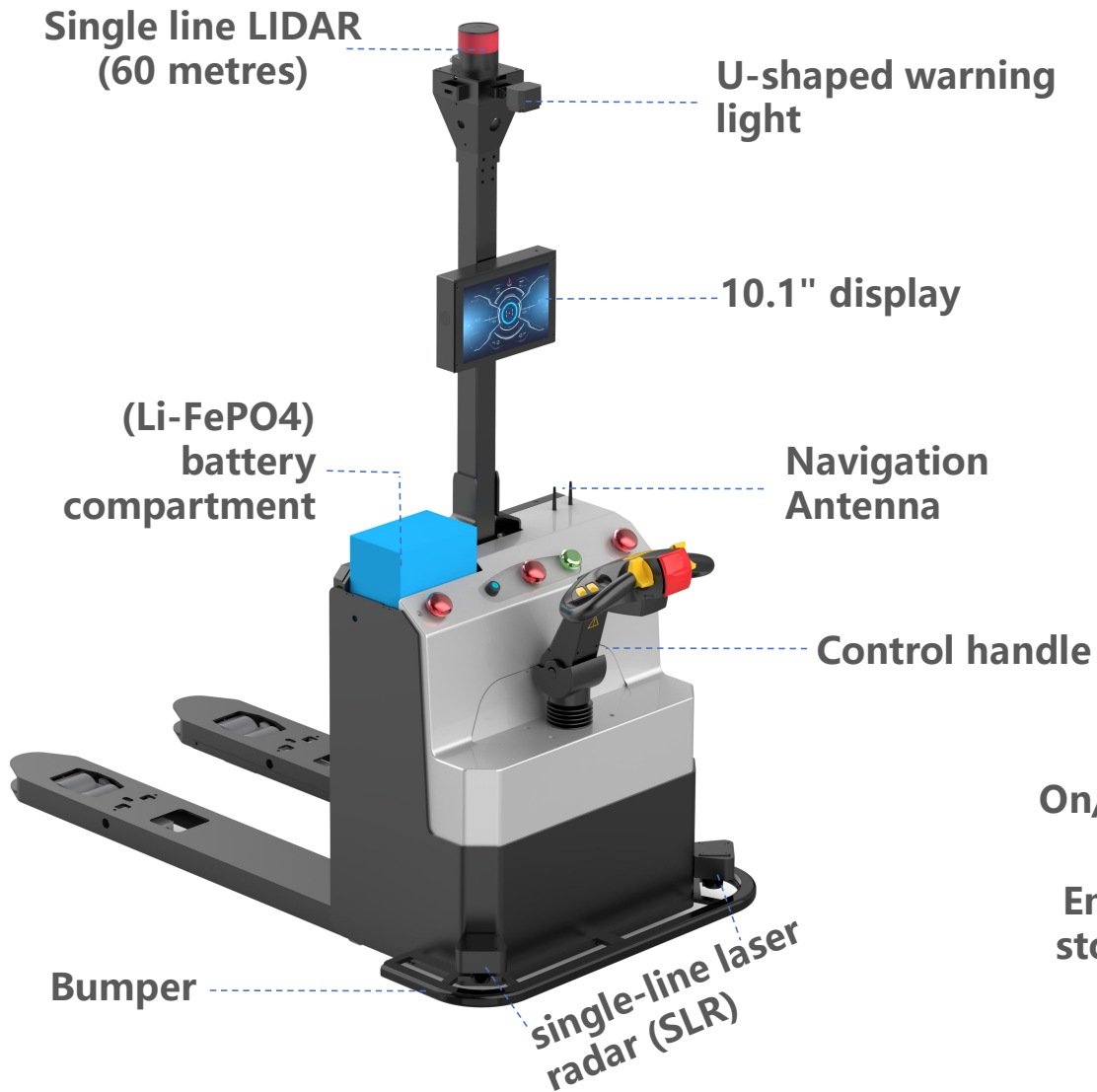


ATEAGO L0 Autonomous Forklift

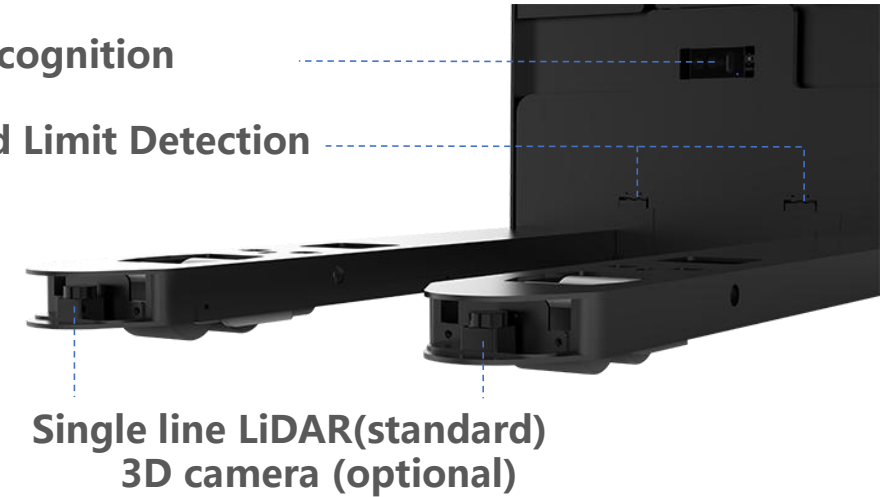


Product Mix Overview



3D visual recognition

Cardboard Limit Detection



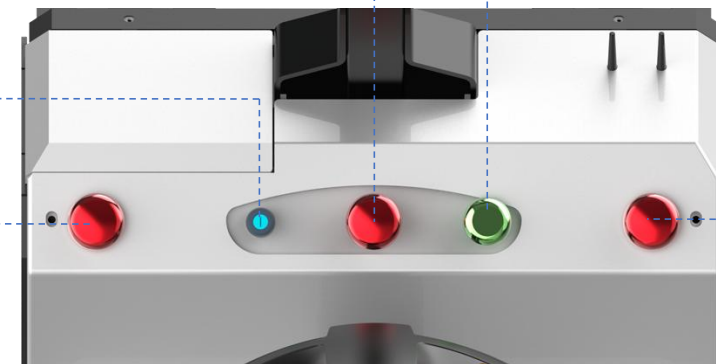
Emergency stop switch

One Click Delivery

On/Off Key

Emergency stop switch

Emergency stop switch



Products introduce



ATEAGO L0

—Autonomous Forklift

ATEAGO L0 Autonomous Forklift, built-in forklift special PLC actuation system and special industrial control machine, maximum load capacity of 1.5T, laser SLAM navigation, without reflectors, more convenient deployment; pallet recognition, accurate forklift; slim figure, small turning radius, adapt to narrow channel applications; with 3D obstacle avoidance, safety touch edge and other sensors for 360 ° three-dimensional safety protection, it is the best choice for pallet cargo handling and material transport and other work requirements. With 3D obstacle avoidance, safety touch and other sensors for 360° three-dimensional safety protection, it is the perfect choice for pallet cargo handling, material transport and other work requirements.

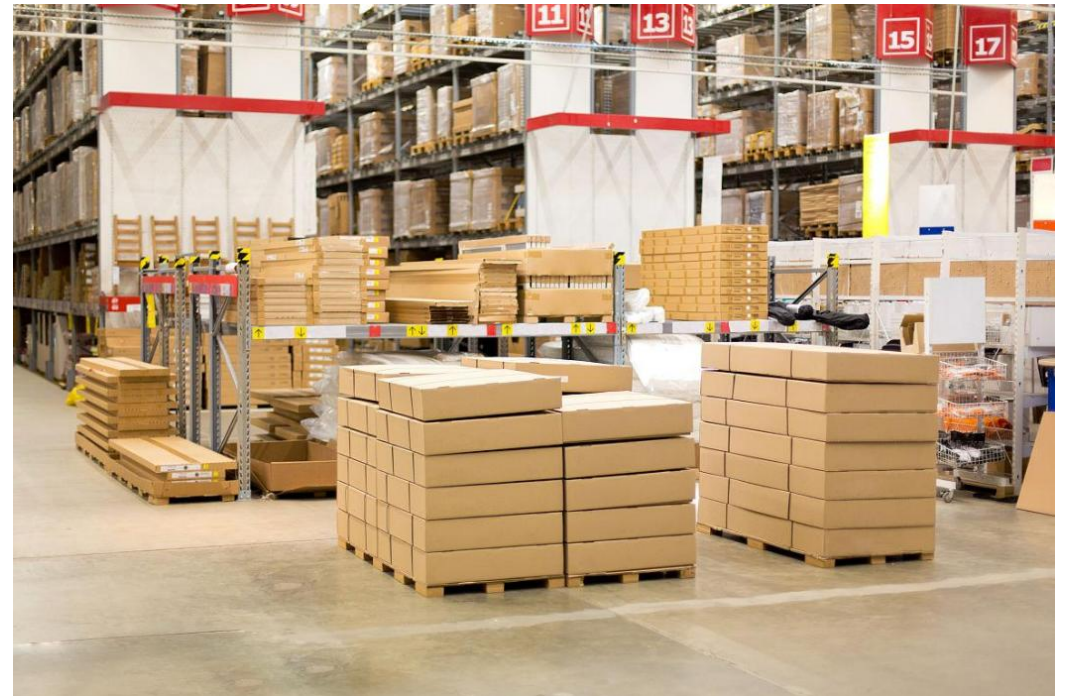
Pain Point Issues Facing Robotics Companies



1. High labour costs for business inputs

2. Difficulty in managing the work of porters

3. High work intensity and susceptibility to accidents



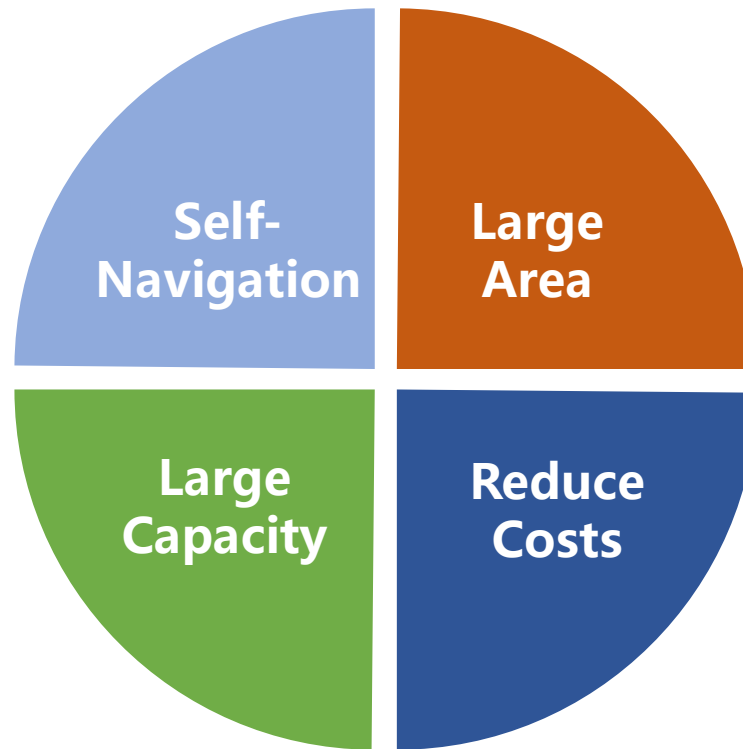
Product Advantage

Autonomous navigation, no coding required

Real laser SLAM navigation, high-precision navigation and positioning, no coding required for robot deployment
More convenient and easier

1.5T super large load capacity

Built-in special PLC execution system and special industrial computer for forklifts, with a maximum load capacity of 1.5T
Can lift cargo 12cm.



A large area of 40,000 square meters

Adopting single line LIDAR, 60m detection distance, to meet the needs of 40,000 square metres of large and complex environments.

Help factories reduce costs and increase efficiency

ATEAGO L0 Forklift has mature and stable navigation solutions to help companies achieve automated robot handling and reduce factory operating costs.

Functional features



01 Ultra-large capacity

1.5T large capacity, sheet metal structure, solid and not deformed, can lift the cargo 12cm high

02 Active Obstacle Avoidance

3D camera + LIDAR, all-round autonomous obstacle avoidance, flexible steering, and

03 Travelling in both directions, no need to turn round

1.7 metres narrow aisle, unobstructed, easy to deal with a variety of complex environments in the factory

04 Single line LiDAR

60 metres detection range, meet the needs of 40,000 square metres factory environment navigation and use of the map

05 Autonomous Dispatch System

The robot speed can be dynamically adjusted according to the task priority to achieve efficient and stable delivery.

06 Quick Change & Extreme Charging

Removable battery design, low battery automatic recharge, support super fast charging, 1 hour charging complete

1.5T Large load capacity

1.5T large load capacity, suitable for a variety of places

Equipped with various specification fork styles, the minimum height of the fork surface from the ground is 84mm, with super dual-drive power, bi-directional driving, strong load-bearing capacity, can be loaded with a maximum of 1.5 tonnes, to meet the needs of unmanned forklift trucks for use in factory scenarios.



Quick Change & Extreme Charging

Custom set the minimum power value, when the robot's power is lower than the minimum value, it will automatically return to charge without manual operation.

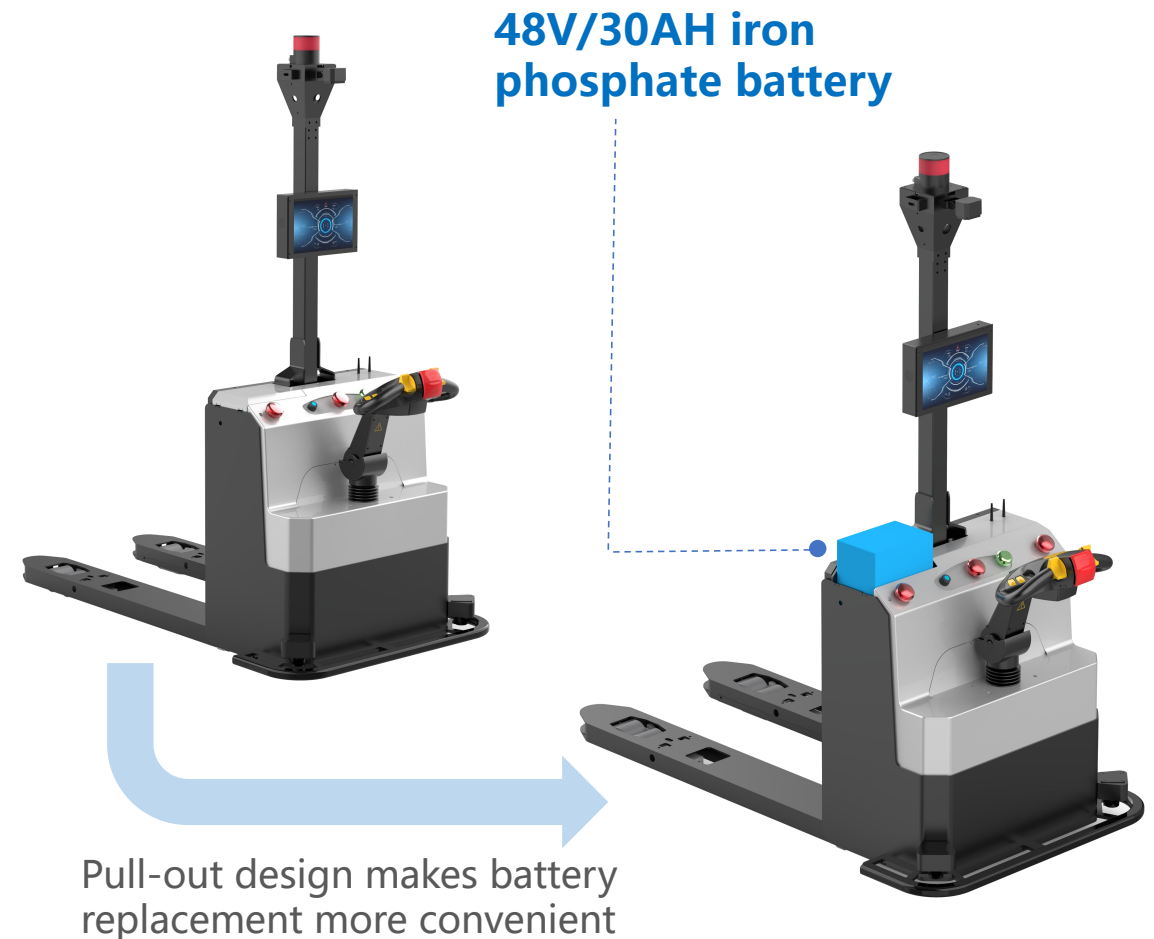
Quick battery swap

Charging and usage scenarios are separated, quick-detachable design, and battery can be quickly replaced to achieve 24-hour working status.

Extremely fast charging

The maximum output current of the charger is 30A DC, which only requires
After 1 hour, the battery will automatically return to charging when the battery level drops below 20%.

* Full load range of up to 6 hours



Single-line laser radar (SLR)

60m detection range, 40,000m² of complex factory environment, easily accomplished

ATEAGO L0 forklift is equipped with vehicle-grade single-line LIDAR on the top, with stable operation and accurate data. Standard X86 industrial host, powerful computing power to meet multiple scenarios, stable operation of industrial host.



single-line laser radar (SLR)



Multi-sensor fusion technology

Equipped with ATEAGO's self-developed SLAM synchronous positioning and mapping system, high-precision navigation and positioning, multi-sensor fusion technology such as LIDAR + 3D camera + cardboard limit detection, all-round perception of the surrounding environment, efficient and stable operation.

3D visual recognition

Cardboard Limit Detection



single-line laser radar (SLR)

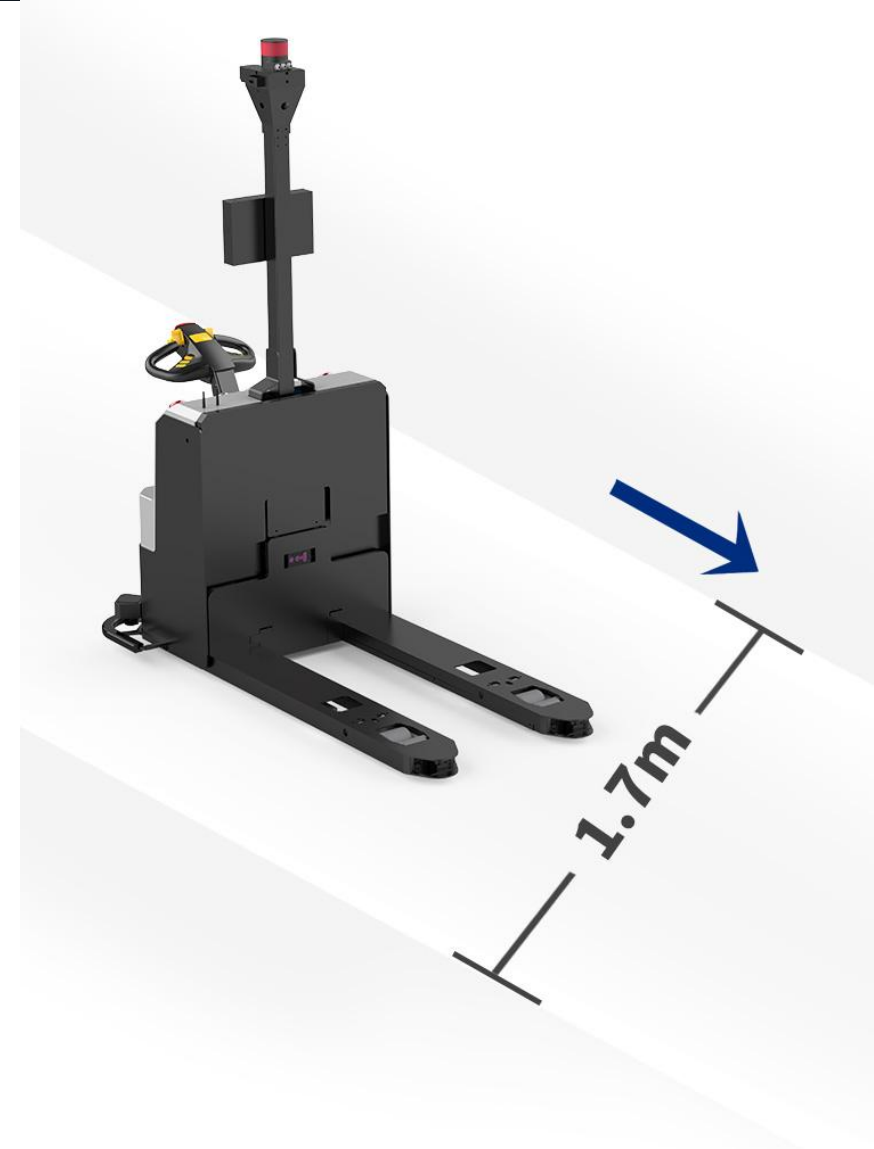


Single line LiDAR (standard)
3D camera (optional)

Two way traffic, no need to turn round

1.7m narrow aisle, free to walk through

The 94cm wide and slim body has an ultra-low turning radius and no need to turn around when driving in both directions, meeting the needs of driving in narrow aisles.



Real laser SLAM, no coding required

No need for reflectors, magnetic strips, or QR codes, simpler navigation and deployment, high-precision pallet positioning of $\pm 30\text{mm}$, pallet identification, and accurate forklift.

- Robot navigation deployment eliminates the need to post codes for auxiliary positioning, saving labor costs
- There is no need to stick codes on the ceiling and it will not affect the appearance of the decoration.
- Customized planning of delivery routes makes the operation easier
- It has a mature and stable navigation algorithm and accurate positioning.
- Lidar + 3D camera multi-sensor fusion technology to sense the surrounding environment in real time



Hand-to-hand integration, easy switching

Fully functional, use it however you want

Autonomous navigation, remote mapping, manual mapping, Hand-to-automatic switching is easy to meet the needs of different scenarios.

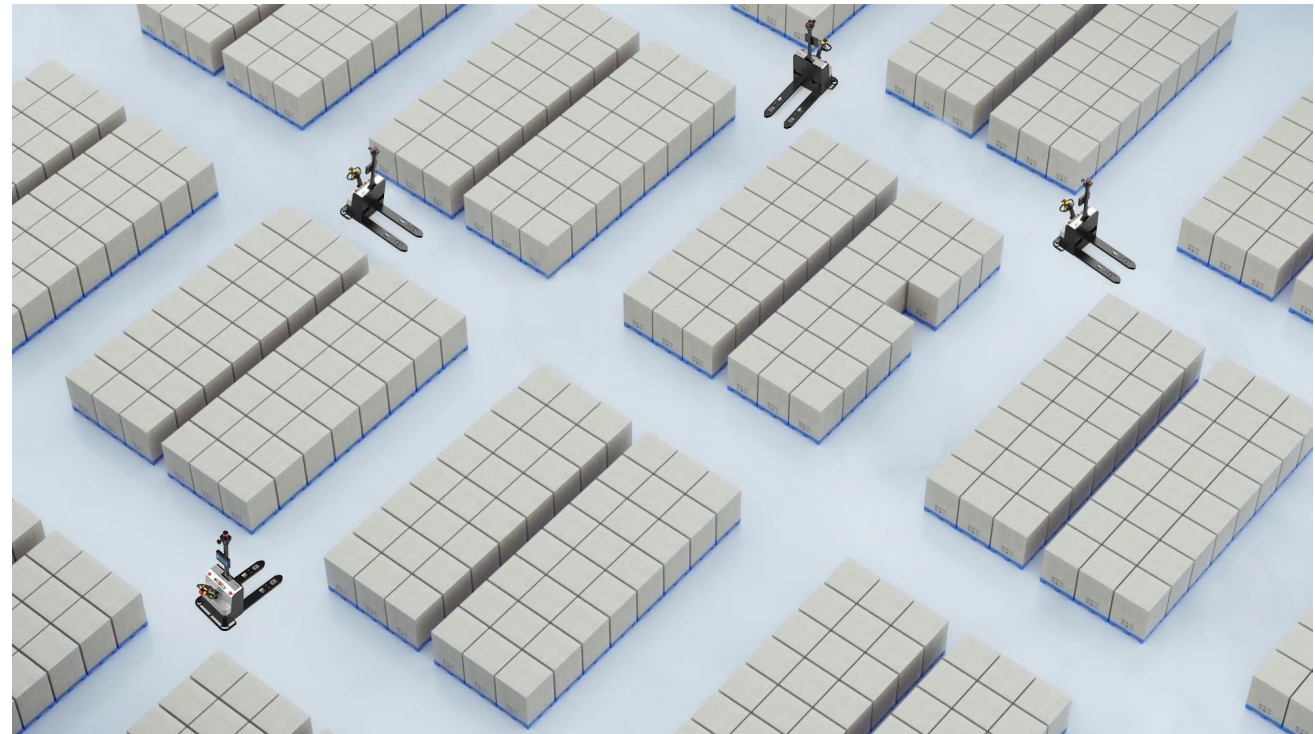
*Freely switch between multiple modes to make driverless forklifts more usable



Central Dispatch System

Multi-computer collaboration for orderly operation

The built-in scheduling system and multi-machine collaboration can dynamically adjust the body speed and delivery path according to task priority to achieve efficient, safe, stable and reliable delivery efficiency.



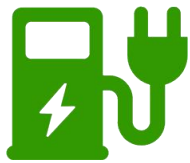
Lithium iron phosphate safety battery



High temperature resistance, non-burning, safe enough



Long battery life, discharge cycle up to 2000 times



Support fast charging, charging faster



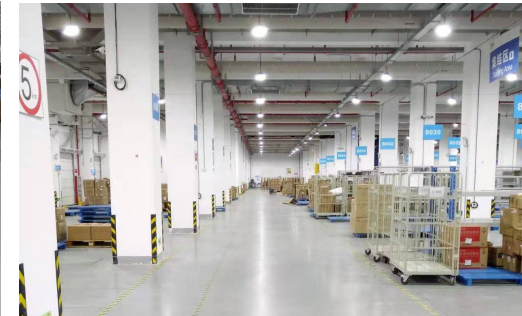
Green, energy saving, environmental protection

48V/30AH
iron phosphate
battery



Wide range of applications

Products are widely used in modern logistics, manufacturing, factory workshops, ports, stations, airports, freight yards, warehouses, circulation centers and distribution centers, etc...



Product parameters

Rated load	1500KG
Load center distance	600mm
Vehicle weight (battery included)	380KG
Body size	1715mm(L)x940mm(W)x2080mm(H)
Fork size	1150mm/182mm/55mm
Fork outside distance	685mm
Lifting height	120mm
Minimum height of fork surface from ground	84cm
body ground clearance	50mm
Wheelbase	1115mm
Turning radius	1350mm
tire type Carrying wheel/driving wheel/auxiliary wheel	organosilicon
tire size, load wheel	82mmx96mm
tire size, drive wheel	230mmx75mm

tire size, training wheels	100mmx40mm
Number of wheels Carrying wheel/driving wheel (x=driving wheel)+auxiliary wheel	4/1x+2
wheel base, drive side	518mm
Wheel base, load-bearing side	515mm
Right angle stacking channel width (Pallet 1000×1200) 1200 across fork direction	2176mm
Right angle stacking channel width (Pallet 800×1200)1200 along the direction of the fork	2103mm
Travel speed, full/empty	0.8m/s, 1m/s
Lifting speed, full/empty	40mm/s, 40mm/s
Descending speed, full/empty	70mm/s, 60mm/s
Maximum climbing ability Full/Empty	5%, 10%
Braking method	electromagnetic

Product parameters

Drive motor power	0.9Kw
Lifting motor power	0.8Kw
Steering motor power	0.4Kw
Lithium battery voltage	48V
Lithium battery capacity	30Ah
Manual operation mode	handle
Top single line LiDAR	60m
Single-line laser obstacle avoidance radar*4	8m
Industrial grade pallet image recognition (IP65)*1	8m
Highly accurate 3-axis attitude	1Pcs
HD touch display integrated screen size	10.1 inches





Thanks for watching

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