

Provide full-scenario AI intelligent flexible logistics solutions

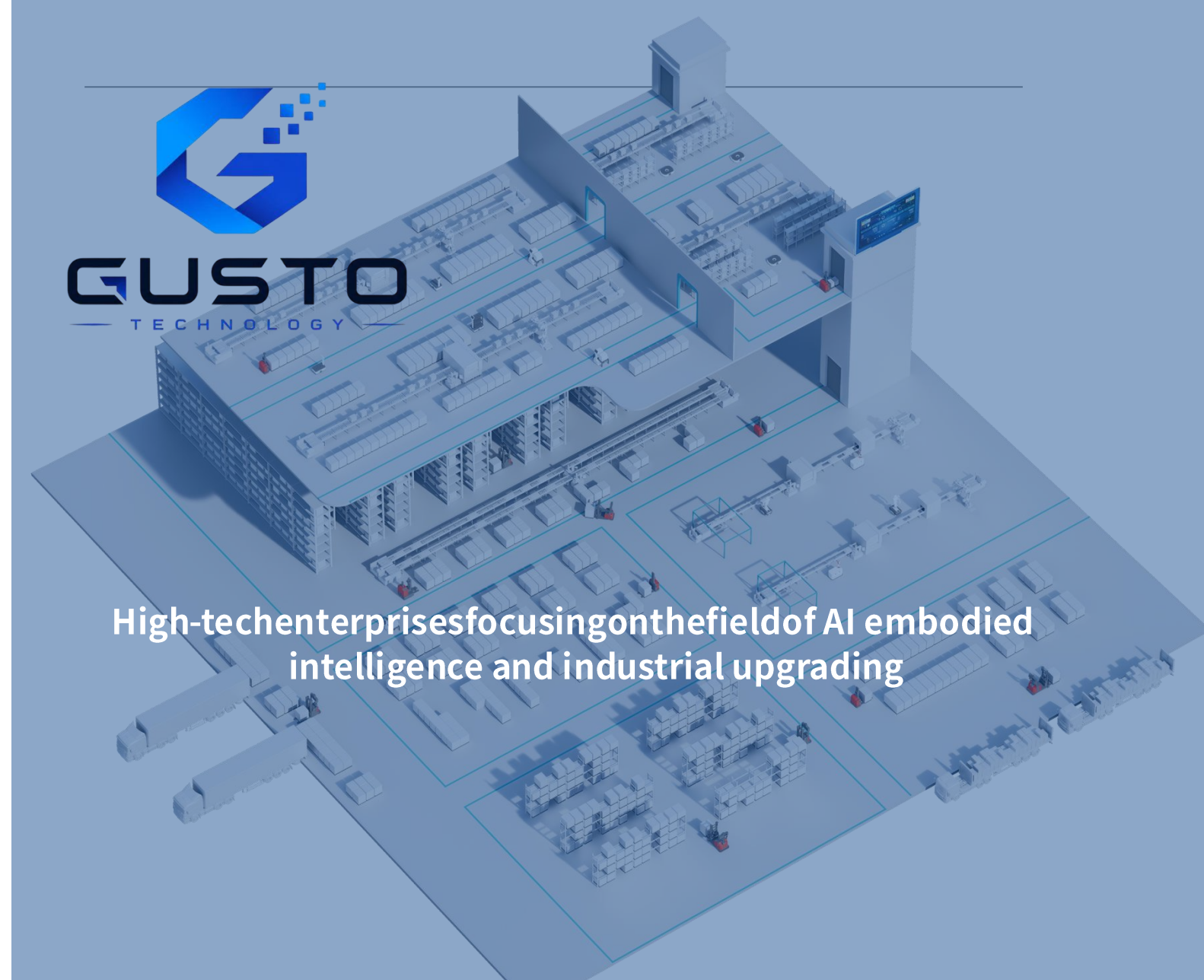
Looking forward to working with you to create a better
future!

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High-tech enterprises focusing on the field of AI embodied
intelligence and industrial upgrading

Gusto Technology

Gusto Technology Co., Ltd.

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Company Introduction

Shenzhen EGO Robotics Co., Ltd., as a high-tech enterprise focusing on the field of AI embodied intelligence and industrial upgrading, relies on the integrated core technology of "perception-decision-execution" to build a full-stack embodied intelligence product and solution system, facilitating the comprehensive upgrade of industries from "automation" to "intelligence".



Relying on over ten years of experience in core technology research and development and project implementation, and adhering to the dual-wheel drive of "self-research technology + deep cultivation of scenarios", as well as the dual-track application layout of "industry + service", the company has built a full-chain service capability ranging from the supply of core technology modules to customized solutions for industry application scenarios. It not only provides core general-purpose modules and technical support that can be further developed for machine manufacturers, but also offers full-process embodied intelligence application solutions for industrial integrators, warehousing and logistics, and service sector customers.

3000+

Global solution users

50+

Global partners

500+

Global terminal application cases

15+

The product covers various sub-industries

Introduction to enterprise development

01 Possess good corporate creditworthiness

- National High-tech Enterprise Certificate
- Software Enterprise Certificate Encouraged by the State
- Certification of "Specialized, Fine, Unique, and Innovative" Enterprises in Shenzhen
- Certification of technology-based enterprises
- Certification of Innovative Small and Medium-sized Enterprises in Shenzhen



02 Possess a comprehensive quality management system

- Quality management system
- CE Certification
- TUV Certification
- ISO9001 Quality Management Certification



03 Possess an excellent corporate reputation

- Participating unit of the Blue Book on the Development of the Forklift Mobile Robot Industry
- Industry Annual Investment Value Enterprise Award
- Industry Annual Excellent Supplier Award
- Industry Annual Excellent Product Award
- Shenzhen Advanced Manufacturing Industry Red Sail Award - Industry Innovation Award



Patents and copyright certificates

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Patent Certificate

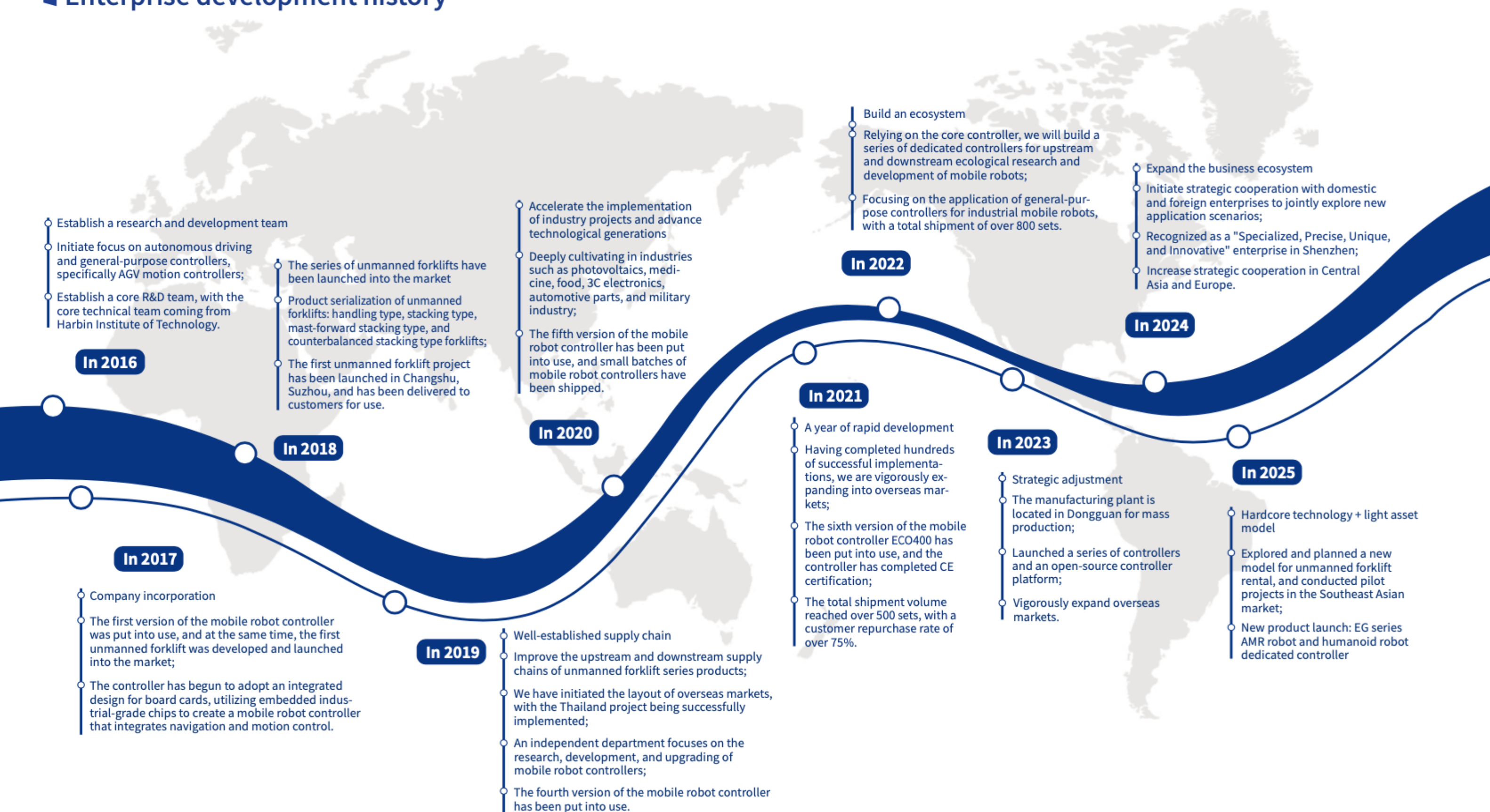
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Software Copyright



"EGO Robotics" continuously innovates in product development ideas and increases R&D investment, boasting over 70 utility model patents and software copyrights with independent intellectual property rights.

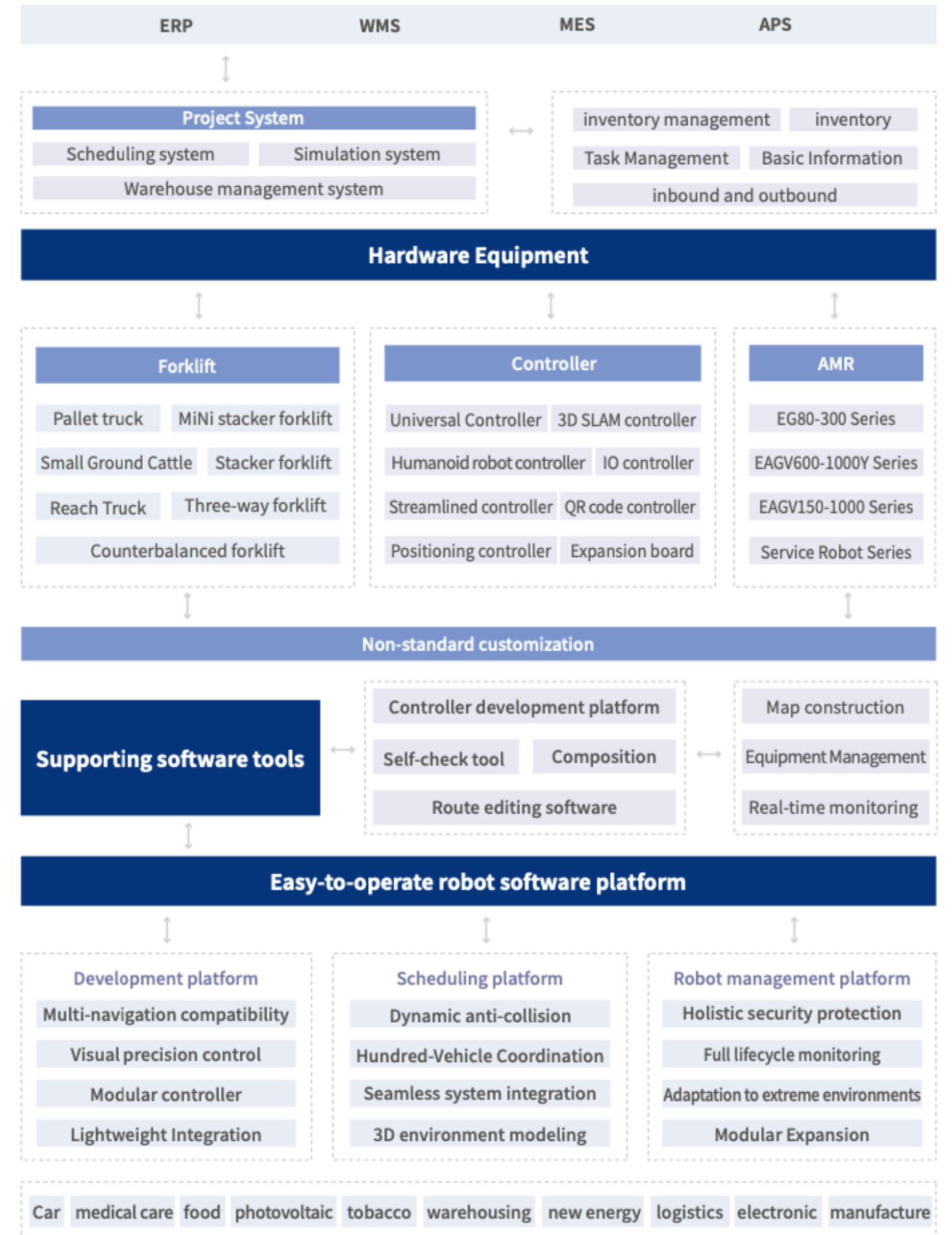


Enterprise development history



02 INTELLIGENT MANUFACTURING PRODUCTS

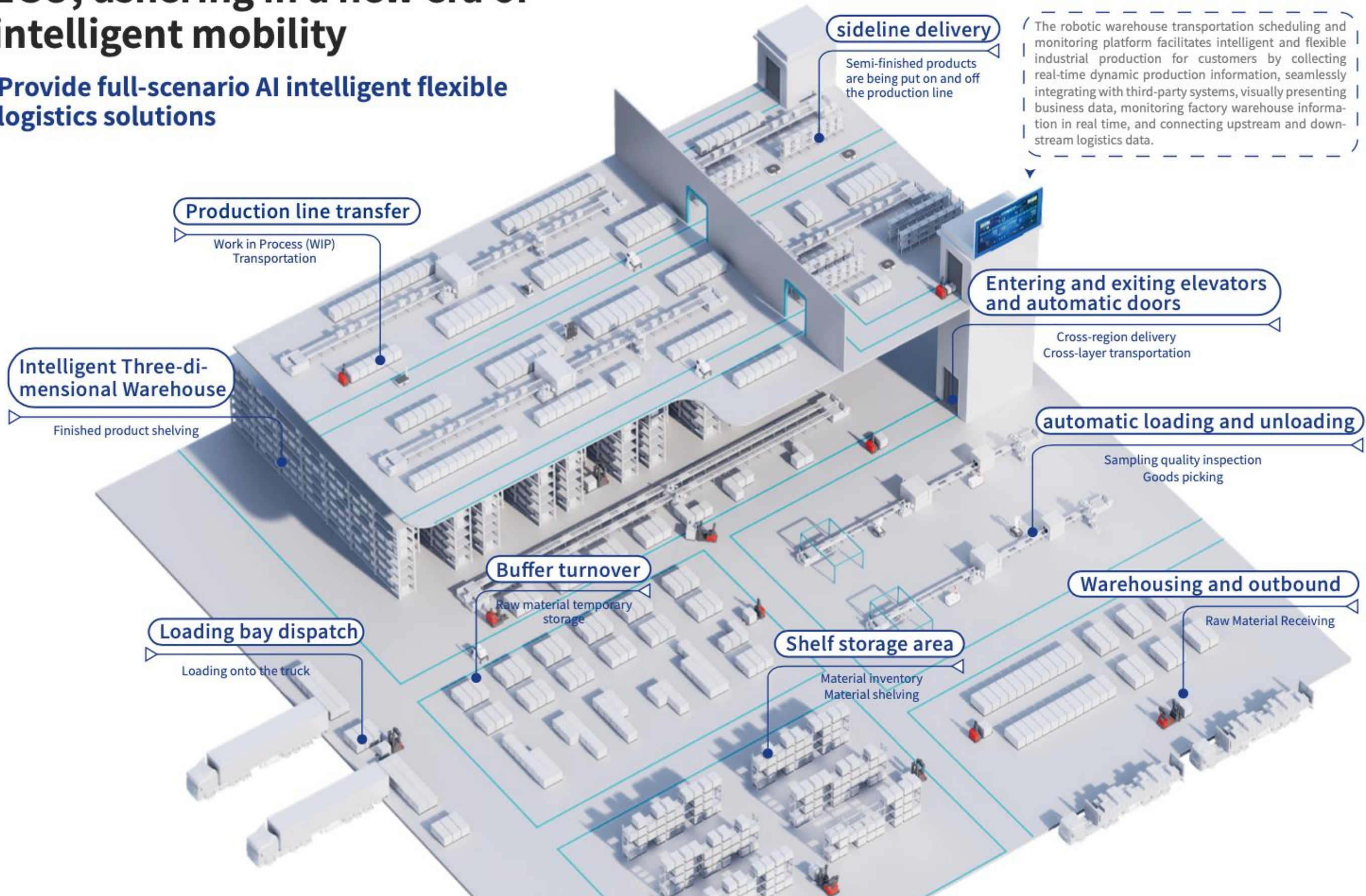
Structural framework



Company Introduction

EGO, ushering in a new era of intelligent mobility

Provide full-scenario AI intelligent flexible logistics solutions





Fully Integrated Intelligent Logistics System

Utilizing EGO robotics' forklift AGV, AMR robots, scheduling system, warehouse management system, and supporting hardware and software products, we achieve intelligent logistics management and transportation throughout the entire factory. This includes intelligent three-dimensional warehouses, automated inbound and outbound operations in three-dimensional warehouses, flat warehouse management and automated inbound and outbound operations, line-side distribution, automatic loading and unloading, and material turnover, both inside and outside the factory. This reduces the involvement of material distribution personnel in the production process, thereby enhancing production efficiency and production management levels.



Core controller component

- Universal controller
- Compact controller
- 3D SLAM controller
- QR code controller
- Positioning controller
- IO controller
- Expansion board



Core hardware products

- Unmanned forklift
- AMR robot
- AGV robot
- Service robot
- Non-standard customized robot



Self-developed core software platform

- Development platform
- Scheduling platform
- Robot management platform

EBY15 Small Ground Cattle

Product Introduction

The EBY15 Small Ground Cattle unmanned forklift AGV integrates advanced navigation technology, high-precision perception capabilities, and a modular controller system. It offers both standalone and system modes, boasts high safety, efficient scheduling, and excellent flexible deployment capabilities, supporting indoor and outdoor full-scenario applications.

Functional features

• Intelligent navigation and precise positioning: Utilizing 3D SLAM technology, high-precision positioning and navigation can be achieved without the need for on-site modifications.

• Multiple safety protections: multi-vehicle safety protection warning, dual lasers in front of the vehicle + anti-collision rubber strip + high-position protective laser + emergency stop button.

• Flexible operation: Supports automatic charging (timing/low battery return), ensuring 24-hour efficient operation.

Applicable scenarios

Suitable for short-distance pallet handling in flat ware- houses and workshops, commonly found in manufactur- ing warehouses, e-commerce storage rooms, etc



Basic Parameters			
Overall dimensions (L*W*H) (mm)	1615*892*1800	Minimum turning radius (mm)	1150
Self-weight (including battery) (kg)	240	Maximum gradeability Full load/Empty load (%)	4/8
Load capacity (kg)	1500	Mode of exercise	Forward and backward movement, left and right turns, and spinning in place
Standard lifting height (mm)	120	Minimum channel width (mm)	2000
Fork size (s/e/l) (customizable) (mm)	50/150/1150	Lithium battery type	Lithium iron phosphate
Fork outer width (mm)	540/600/685	Battery capacity	48V/50AH
Fork face height above ground (mm)	85	Rated operating time (h)	4-8
Operating speed (adjustable in stages) (mm/s)	0-1200	Fully charged duration (h)	2
Navigation method	2D SLAM Navigation / 3D SLAM Navigation	Laser anti-collision	Standard configuration
Repeat positioning accuracy (mm)	±10	Fork tine detection (photoelectric/ultrasonic)	Standard configuration
Lifting speed Full load/No load (m/s)	40/50	Mechanical anti-collision	Standard configuration
Descending speed Full load/No load (m/s)	50/40	Emergency stop button, audible and visual alarm, cargo detection	Standard configuration

MINI Stacker Forklift

Product Introduction

A compact electric handling equipment designed for stacking and short-distance transportation of goods in spaces with limited clearance. This model has a load capacity of 1.4 tons and features an ultra-narrow body design, allowing it to operate efficiently in narrow aisles and compact storage areas.

Functional features

• Compact and flexible: With a compact body design, its overall size is significantly smaller than that of ordinary forklifts

• Flexible and customizable lifting height: The lifting height ranges from 1.25 meters to 3 meters, and can be customized according to actual needs

• Flexible operation: Mini stacking forklifts typically feature a small turning radius, allowing for easy operation in high-density storage and narrow aisles



Applicable scenarios

Suitable for short-distance pallet handling in flat ware- houses and workshops, commonly found in manufactur- ing warehouses, e-commerce warehouses, etc

Basic Parameters			
Overall dimensions (L*W*H) (mm)	1560*882*1800	Minimum turning radius (mm)	1130
Self-weight (including battery) (kg)	680	Maximum gradeability Full load/Empty load (%)	3/5
Load capacity (kg)	1400	Mode of exercise	Forward and backward movement, left and right turns, and spinning in place
Standard lifting height (mm)	125-3000	Minimum channel width (mm)	2500
Fork size (s/e/l) (customizable) (mm)	55/180/1150	Lithium battery type	Lithium iron phosphate
Fork outer width (mm)	680	Battery capacity	24V/180AH
Fork face height above ground (mm)	85	Rated operating time (h)	6-8
Operating speed (adjustable in stages) (mm/s)	0-1500	Fully charged duration (h)	2
Navigation method	2D SLAM Navigation / 3D SLAM Navigation	Laser anti-collision	Standard configuration
Repeat positioning accuracy (mm)	±10	Fork tine detection (photoelectric/ultrasonic)	Standard configuration
Lifting speed Full load/No load (m/s)	115/170	Mechanical anti-collision	Standard configuration
Descending speed Full load/No load (m/s)	160/125	Emergency stop button, audible and visual alarm, cargo detection	Standard configuration

Pallet truck

Product Introduction

The pallet truck (also known as a pallet carrier) is an industrial vehicle specialized in horizontal material handling. Its primary function is to transport goods over short distances in warehouses, workshops, and other locations

Functional features

- Flexible and Efficient: Compact and flexible, suitable for narrow aisles; AGV models support 24-hour unmanned operation
- Easy to operate: One-button start and stop, intelligent models equipped with automatic navigation and path planning
- Flexible operation: Supports automatic charging (timing/low battery return), ensuring 24-hour efficient operation

Applicable scenarios

Suitable for short-distance transfer of palletized goods in e-commerce warehouses and distribution centers; material distribution and inter-process turnover on production lines; cold chain warehouses (designed for low temperature resistance), clean workshops (dust and static prevention); supermarket back-end goods replenishment, inventory management



Basic Parameters			
Overall dimensions (L*W*H) (mm)	1900*800*2000	Minimum turning radius (mm)	1627
Self-weight (including battery) (kg)	750	Maximum gradeability Full load/Empty load (%)	5/8
Load capacity (kg)	2000/3000	Mode of exercise	Forward and backward movement, left and right turns, and spinning in place
Standard lifting height (mm)	125	Minimum channel width (mm)	2900
Fork size (s/e/l) (customizable) (mm)	64/170/1150	Lithium battery type	Lithium iron phosphate
Fork outer width (mm)	540/680	Battery capacity	24V/202AH
Fork face height above ground (mm)	85	Rated operating time (h)	6-8
Operating speed (adjustable in stages) (mm/s)	0-1500	Fully charged duration (h)	2
Navigation method	2D SLAM Navigation / 3D SLAM Navigation	Laser anti-collision	Standard configuration
Repeat positioning accuracy (mm)	±10	Fork tine detection (photoelectric/ultrasonic)	Standard configuration
Lifting speed Full load/No load (m/s)	47/65	Mechanical anti-collision	Standard configuration
Descending speed Full load/No load (m/s)	75/70	Emergency stop button, audible and visual alarm, cargo detection	Standard configuration

Stacker forklift

Product Introduction

The stacker forklift is a specialized storage equipment designed for accessing goods stored on racks. It possesses vertical lifting capabilities and is suitable for operations on medium and high racks

Functional features

- Enhance high flexibility: Support stacking heights ranging from 2 to 5.5 meters, fully utilizing the vertical space of the warehouse
- High operational accuracy: Equipped with a side shifter and distance adjustment wheel, the fork positioning accuracy reaches ±10mm, ensuring stability during high-level operations
- Flexible operation: Supports automatic charging (timing/low battery return), ensuring 24-hour efficient operation

Applicable scenarios

Suitable for three-dimensional shelf areas in e-commerce warehouses and logistics centers; narrow aisle racks, mobile rack warehouses; material distribution for production lines; Cross-floor operation



Basic Parameters			
Overall dimensions (L*W*H) (mm)	2200*800*2000	Minimum turning radius (mm)	1662
Self-weight (including battery) (kg)	1450	Maximum gradeability Full load/Empty load (%)	5/8
Load capacity (kg)	1600 (configurable 1200, 1400, 2000)	Mode of exercise	Forward and backward movement, left and right turns, and spinning in place
Standard lifting height (mm)	2700 (configurable 2000-5500)	Minimum channel width (mm)	3200
Fork size (s/e/l) (customizable) (mm)	60/185/1150	Lithium battery type	Lithium iron phosphate
Fork outer width (mm)	570/680	Battery capacity	24V/202AH
Fork face height above ground (mm)	90	Rated operating time (h)	6-8
Operating speed (adjustable in stages) (mm/s)	0-1500	Fully charged duration (h)	2
Navigation method	2D SLAM Navigation / 3D SLAM Navigation	Laser anti-collision	Standard configuration
Repeat positioning accuracy (mm)	±10	Fork tine detection (photoelectric/ultrasonic)	Standard configuration
Lifting speed Full load/No load (m/s)	108/160	Mechanical anti-collision	Standard configuration
Descending speed Full load/No load (m/s)	185/155	Emergency stop button, audible and visual alarm, cargo detection	Standard configuration

Reach Truck

Product Introduction

The reach truck is an electric forklift specifically designed for high-bay racking warehouses. Its notable feature is that the mast or forks can move forward to the outer edge of the body, allowing for the retrieval and placement of goods without requiring the entire vehicle to move forward, greatly optimizing the efficiency of narrow aisle operations

Functional features

- Enhanced flexibility Supporting stackin heights ranging from 2.7 to 4.5 meters, the gantry can be fully extended or retracted, maximizing the use of vertical storage space
- High operational accuracy: The positioning accuracy of the forks reaches $\pm 10\text{mm}$, ensuring stability during high-level operations
- Flexible operation: featuring a smaller body and turning radius, and higher efficiency

Applicable scenarios

It is suitable for scenarios where the warehouse aisles are narrow and medium-to-high-level stacking is required, such as in the light industry, tobacco industry, textile industry, food industry, supermarket industry, and other related fields



Basic Parameters			
Overall dimensions (L*W*H) (mm)	2350*988*2000	Minimum turning radius (mm)	1600
Self-weight (including battery) (kg)	1800	Maximum gradeability Full load/Empty load (%)	6/10
Load capacity (kg)	1200/1500	Mode of exercise	Forward and backward movement, left and right turns, and spinning in place
Standard lifting height (mm)	3000 (configurable 2700-4500)	Minimum channel width (mm)	3400
Fork size (s/e/l) (customizable) (mm)	40/100/1070	Lithium battery type	Lithium iron phosphate
Fork outer width (mm)	200-650	Battery capacity	24V/230AH
Fork face height above ground (mm)	40	Rated operating time (h)	6-8
Operating speed (adjustable in stages) (mm/s)	0-1500	Fully charged duration (h)	2
Navigation method	2D SLAM Navigation / 3D SLAM Navigation	Laser anti-collision	Standard configuration
Repeat positioning accuracy (mm)	± 10	Fork tine detection (photoelectric/ultrasonic)	Standard configuration
Lifting speed Full load/No load (m/s)	110/180	Mechanical anti-collision	Standard configuration
Descending speed Full load/No load (m/s)	220/210	Emergency stop button, audible and visual alarm, cargo detection	Standard configuration

Counterbalanced forklift

Product Introduction

Counterbalanced forklifts are the most common and classic type of forklifts. The front of the vehicle body is equipped with forks for loading, unloading, and moving goods; the rear of the vehicle body is fitted with a heavy cast iron block (i.e., counterweight) to balance the weight of the goods in front and prevent the vehicle from tipping. The unmanned version adds automatic navigation and control systems to the traditional structure

Functional features

- Strong carrying capacity: With a carrying range of 0.8t-2t, it can meet the majority of heavy object handling needs
- High operation accuracy: The positioning accuracy of the forks reaches $\pm 10\text{mm}$, ensuring stability during high-level operations
- High stability: Relying on the counterweight at the rear, it can maintain excellent stability when handling goods within its rated weight capacity

Applicable scenarios

Suitable for indoor and outdoor settings such as ports, logistics parks, and warehouse storage, where heavy material handling and stacking are required



Basic Parameters			
Overall dimensions (L*W*H) (mm)	2700*1030*2000	Minimum turning radius (mm)	1600
Self-weight (including battery) (kg)	2350	Maximum gradeability Full load/Empty load (%)	6/10
Load capacity (kg)	1200	Mode of exercise	Forward and backward movement, left and right turns, and spinning in place
Standard lifting height (mm)	2700 (configurable 2000-5500)	Minimum channel width (mm)	3700
Fork size (s/e/l) (customizable) (mm)	35/100/1070	Lithium battery type	Lithium iron phosphate
Fork outer width (mm)	210-680	Battery capacity	24V/202AH
Fork face height above ground (mm)	35	Rated operating time (h)	6-8
Operating speed (adjustable in stages) (mm/s)	0-1500	Fully charged duration (h)	2
Navigation method	2D SLAM Navigation / 3D SLAM Navigation	Laser anti-collision	Standard configuration
Repeat positioning accuracy (mm)	± 10	Fork tine detection (photoelectric/ultrasonic)	Standard configuration
Lifting speed Full load/No load (m/s)	145/220	Mechanical anti-collision	Standard configuration
Descending speed Full load/No load (m/s)	200/200	Emergency stop button, audible and visual alarm, cargo detection	Standard configuration

Three-way forklift

Product Introduction

The three-way forklift, fully known as the "three-way stacking forklift", is an efficient storage equipment specifically designed for operations in extremely narrow passageways. Its core innovation lies in the forks, which can rotate 180 degrees, allowing the forklift to stack and retrieve goods directly to the left and right without turning, as well as moving forward and backward conventionally

Functional features

·Enhanced flexibility: Supports stacking heights ranging from 2.5 to 9 meters, fully utilizing storage space

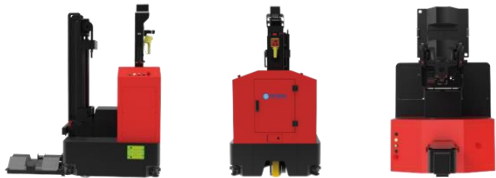
·High operational accuracy: The positioning accuracy of the forks reaches ±10mm, ensuring stability during high-level operations

·Three-operation capability The driver way can complete operations on both sides of the passage without turning around, resulting in high operational efficiency



Applicable scenarios

Specially designed for high-bay narrow aisle warehouses that pursue extremely high warehouse space utilization, commonly found in dense storage warehouses, such as food, beverage, chemical, electronics, and other industries



Basic Parameters			
Overall dimensions (L*W*H) (mm)	3000*1550*3160	Minimum turning radius (mm)	1980
Self-weight (including battery) (kg)	5600	Maximum gradeability Full load/Empty load (%)	5/8
Load capacity (kg)	1500	Mode of exercise	Forward and backward movement, left and right turns, and spinning in place
Standard lifting height (mm)	4500 (configurable2500-9000)	Minimum channel width (mm)	1650
Fork size (s/e/l) (customizable) (mm)	50/125/1200	Lithium battery type	Lithium iron phosphate
Fork outer width (mm)	265-760	Battery capacity	48V/125AH
Fork face height above ground (mm)	50	Rated operating time (h)	6-8
Operating speed (adjustable in stages) (mm/s)	0-1000	Fully charged duration (h)	2
Navigation method	2D SLAM Navigation / 3D SLAM Navigation	Laser anti-collision	Standard configuration
Repeat positioning accuracy (mm)	±10	Fork tine detection (photoelectric/ultrasonic)	Standard configuration
Lifting speed Full load/No load (m/s)	200/250	Mechanical anti-collision	Standard configuration
Descending speed Full load/No load (m/s)	340/340	Emergency stop button, audible and visual alarm, cargo detection	Standard configuration

Mobile robot series products

Pack-mounted stealth robot - EG series products

The Lurk Robot Chassis Vehicle is a robot platform equipped with upper-layer expansion capabilities and chassis mobility. Equipped with 3D visual recognition, it can automatically navigate around obstacles; 2D/3D laser pure SLAM navigation, without the need to lay magnetic tapes or QR codes on the ground; it can adapt to various upper-layer expansion needs, such as rollers, inspection cameras, shelves, environmental detection equipment, etc., with rich secondary development and expansion capabilities, and can be widely applied in various industrial, warehousing logistics, intelligent manufacturing, and other scenarios.

The lifting model is an automated logistics equipment capable of independent loading, lifting, and transportation. It is characterized by the provision of a lifting device that can elevate goods from the ground to a higher position, thereby facilitating tasks such as handling and storage.



Model		EG80	EG300	EG300Pro
Overall Dimensions (L*W*H) (mm)	Including pole	798*498*1300	798*498*1300	800*470*1300
	Does not include a pole	798*498*280	798*498*280	800*470*225
Self-weight (including battery) (kg)		85	90	90
Load capacity (kg)		80	300	300
Standard lifting height (mm)		No lifting/lifting 50mm	No lifting/lifting 50mm	No lifting/lifting 50mm
Operating speed (adjustable in sections) (mm/s)		0-1200	0-1200	0-1200
Navigation method		Laser navigation	Laser navigation	Laser navigation
Repeat positioning accuracy (mm)		±20mm~30mm	±10mm~30mm	±10mm~30mm
mode of exercise		Forward and backward movement, left and right turns, and spinning in place	Forward and backward movement, left and right turns, and spinning in place	Forward and backward movement, left and right turns, and spinning in place
Lithium battery type		Lithium iron phosphate	Lithium iron phosphate	Ternary lithium
battery capacity		48V/15AH	48V/15AH	48V/15AH
Rated operating time (h)		6-8	6-8	6-8
Fully charged duration (h)		2	2	2
in-vehicle display		10-inch Android touch screen	10-inch Android touch screen	10-inch Android touch screen
Charging mode		Manual/Automatic	Manual/Automatic	Manual/Automatic/Quick replacement

Pack-on-back Unmanned Handling Vehicle - EAGV Series Products

The piggyback AGV (Automated Guided Vehicle) is an automatic guided vehicle specifically designed for automated material transfer. Its core function is to directly carry racks, bins, or pallets through its top carrying platform. It navigates through preset markers (magnetic strips, QR codes, etc.) or fixed laser reflectors to perform point-to-point transportation, achieving automation of "goods-to-person" or line-side logistics.



Model	EAGV300	EAGV600Y	EAGV1000Y
Outline dimensions (L*W*H) (mm)	954*594*268	950*650*250	1150*820*260
Rotating diameter (mm)	1044	963	1201
Self-weight (kg)	150	130	180
Rated load (kg)	300	600	1000
Ground clearance of chassis (mm)	35	25	25
Lifting panel size (mm)	900*540	850*600	1030*770
Human-computer interaction mode	Computer	10-inch Android touch screen	10-inch Android touch screen
lifting drive	Electric	Electric	Electric
Lifting height (mm)	50/No jacking	60	60
Rated operating speed/no-load (m/s)	1.5	1.5	1.5
Rated operating speed/rated load (m/s)	1.5	1.5	1.5
Rotating speed/no-load (°/s)	200	200	200
Rotating speed/full load (°/s)	100	100	70
Drive Type	Differential drive	Differential drive	Differential drive
Navigation method	Laser SLAM/QR code	Laser SLAM/QR code	Laser SLAM/QR code
Battery Type	lithium iron phosphate	lithium iron phosphate	lithium iron phosphate
Capacity/Rated Voltage (Ah/V)	25/48	24/48	40/48

Composite robot

Product Introduction

Collaborative robots possess integrated operational capabilities of movement, grasping, and handling, featuring high precision, high flexibility, high scalability, ease of operation, and human-robot collaboration. They support the rapid integration and implementation of different application scenarios, simplify complex material handling scenarios, and achieve more efficient industrial automation.

Functional features

High reliability: Supports mainstream collaborative arm integrations in the market, and ensures stable operation under various loads and arm spans (customizable)

High precision: Combined with visual recognition, the end-effector precision of the robotic arm can reach $\pm 1\text{mm}$ and $\pm 0.2^\circ$

Scenario scalability: Based on different designs such as collaborative arms, vision systems, and grippers, it can quickly match the application requirements of different scenarios

Multiple safety protections: multi-sensor perception fusion, 360° safety protection, support for flexible obstacle avoidance, etc

Large operation space: The chassis moves flexibly, coupled with the 6-axis freedom of the collaborative arm, allowing for coverage of a large operation space and enabling intensive operations

Applicable scenarios

Semiconductor industry; CNC tool handling and material loading/unloading; 3C electronics material loading/unloading, transfer, inspection, and sorting; heavy workpiece handling and assembly, such as battery cells and modules; automotive welding parts transfer, and precision assembly of components



Basic Parameters			
Overall dimensions (L*W*H) (mm)	1370*777*697	Lithium battery type	Lithium iron phosphate
Self-weight (including battery) (kg)	420	battery capacity	48V50AH
Load capacity (kg)	300	Rated operating time (h)	8-10
Standard lifting height (mm)	No jacking/custom jacking 50mm	Fully charged duration (h)	2
Operating speed (adjustable in sections) (mm/s)	0-1200	Operation Mode	manual
Navigation method	Laser navigation/QR code navigation	Charging mode	manual
Repeat positioning accuracy (mm)	$\pm 10\text{mm}/\pm 5\text{mm}$	Communication mode (roaming)	WIFI/4G/5G communication
mode of exercise	Forward and backward movement, left and right turns, and spinning in place		

Humanoid robot

Product Introduction

This wheeled humanoid robot possesses both wheeled mobility and humanoid manipulation capabilities, allowing it to flexibly adapt to various types of tasks in different scenarios. Equipped with EGO Robotics' proprietary humanoid robot controller, this single controller system achieves multifunctional integration of mobility, dual arms, and a large visual model

Functional features

Efficiency: Four-wheel independent steering and driving, equipped with shock absorption, and boasting ample power

Scalability: The ends of the dual arms can be freely combined, supporting dexterous hands, grippers, cameras, and more

Strong obstacle-surmounting capability: With comprehensive perception ability, it can flexibly avoid obstacles and dynamically bypass them, adapting to various complex road conditions

Flexibility: Equipped with a lifting mechanism, with a lifting range of ±280mm

Multi-scenario usage: Supports indoor and outdoor operation, resilient to changes in lighting conditions day and night, and capable of stable operation throughout the day

Applicable scenarios

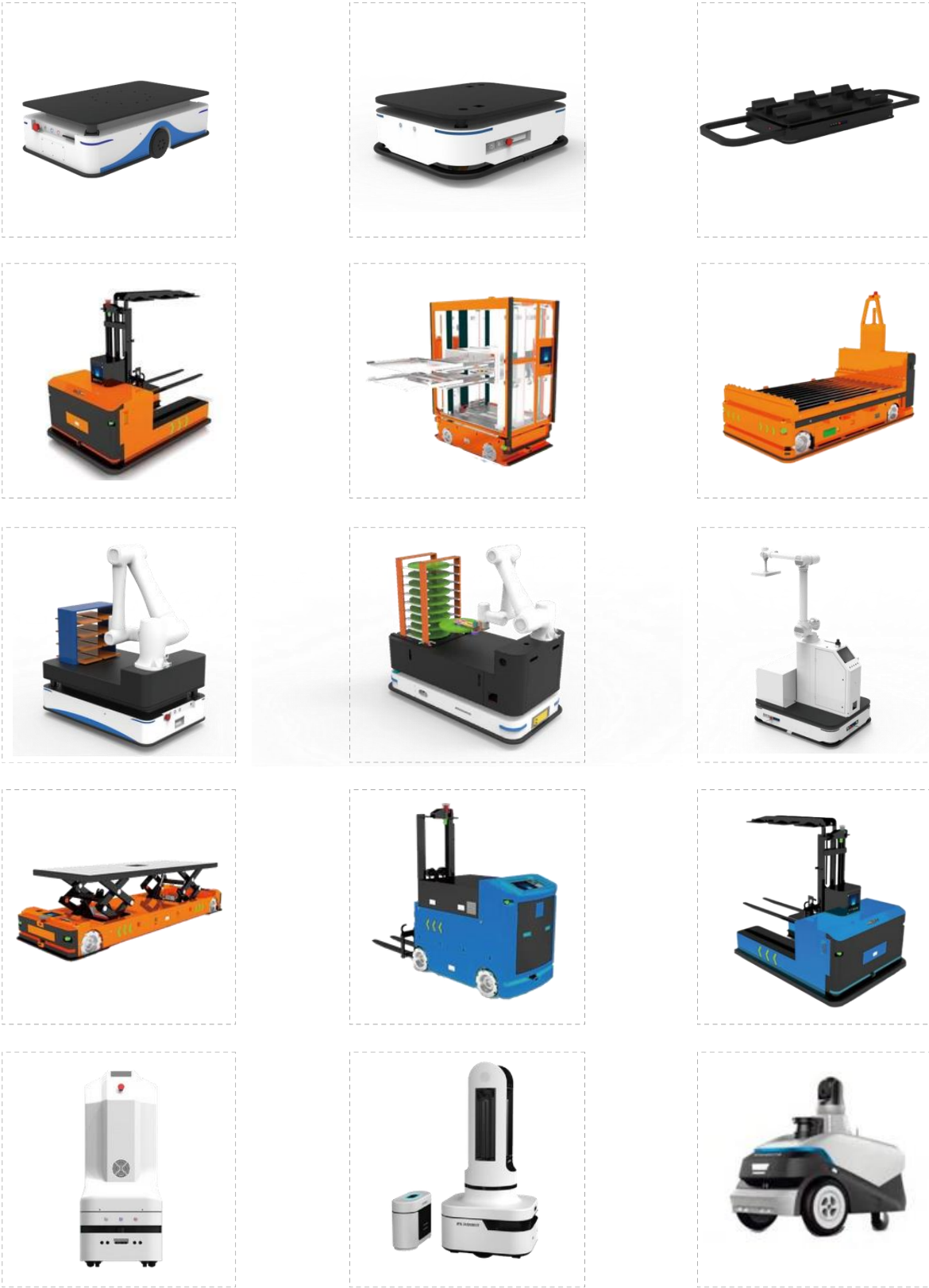
It is primarily applied to flexible production line multi-station circulation, precision assembly, logistics sorting and cross-regional distribution, equipment inspection, as well as replacing manual work in high-risk environments



Basic Parameters			
Overall dimensions (L*W*H) (mm)	740*500*1185~1465	mode of exercise	Forward and backward movement, left and right turns, and spinning in place
Self-weight (including battery) (kg)	130	Lithium battery type	Lithium iron phosphate
Operating speed (adjustable in sections) (mm/s)	0-1200	Battery capacity (expandable)	48V/25AH
Navigation method	Laser navigation/QR code navigation	Charging method	Manual/Automatic
Repeat positioning accuracy (mm)	±10mm~30mm/±5mm	Communication mode (roaming)	WIFI/4G/5G

Non-standard customization series

Customization of appearance, size, performance, function, etc. can be provided according to customer needs



General controller - ECO400



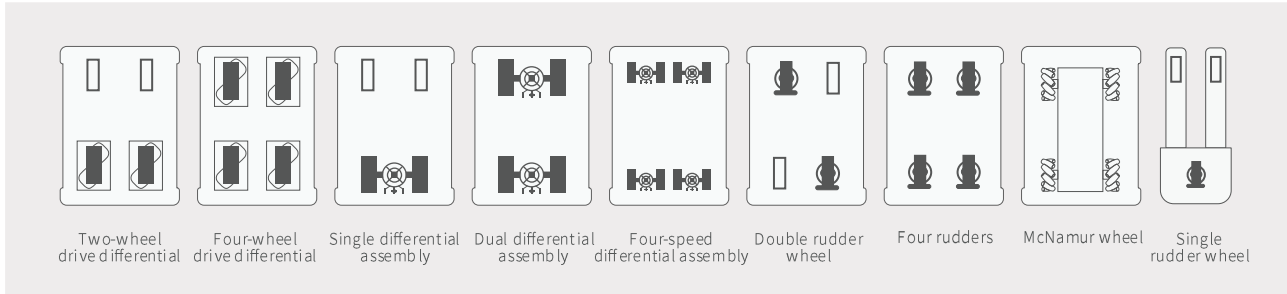
Model:
ECO400

- Navigation function: autonomous navigation driving function, compatible with SLAM navigation, reflector navigation, QR code navigation
- Motion control function: autonomous obstacle avoidance mode, patrol mode, obstacle avoidance patrol mixed mode
- Self charging function: equipped with self charging function
- Safety protection functions: 3D visual stereoscopic safety protection/obstacle avoidance recognition, laser, ultrasonic, photoelectric, mechanical protection
- Communication function: Supports external WIFI, 4G communication, 5G communication modules
- Development: Supports VDA5050 communication protocol, supports secondary development, technical forums, and technical training

Recommended applicable types: unmanned forklifts AGV、AMR、Material box robot, composite robot, special mobile robot

Basic Parameters			
Length * Width * Height	220*132*50mm	ADC input	* 4
input voltage	18-28V/Vpp<200m (with reverse protection)	differential output	* 4
Current power consumption	Single machine<0.4A/24V, maximum current with peripherals<3A (24V)	Orthogonal encoding input	* 4
Ethernet	1000M RJ45 *1	voice broadcast	Support (3.5mm audio interface)
USB3.0	* 4	indicator light	Running status light, communication light
CAN	* 2	positioning accuracy	± 5mm (reflector navigation), ± 10mm (SLAM natural navigation)
RS485	* 2	Navigation speed	≤1.5m/s
RS232	* 2	Angle control accuracy	±0.5°
Input	5V~24V optocoupler isolated input * 16	Motion Control	Autonomous obstacle avoidance driving, fixed route drivingObstacle avoidance, fixed route, mixed driving
Output	2A/NMOS isolated output * 16	Map area (single map)	≤ 400000 square meters (supports multi map navigation)

Motion Model



Simplified Controller - ECS100



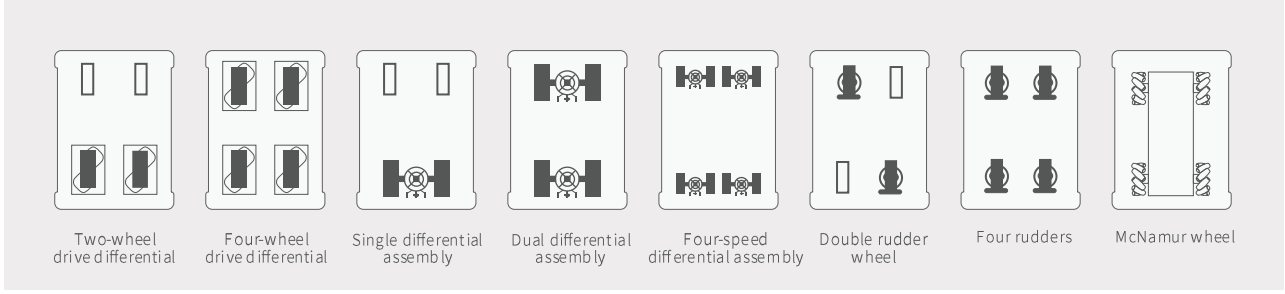
Model:
ECS100

- Navigation function: autonomous navigation driving function, compatible with SLAM navigation, reflector navigation, QR code navigation
- Motion control function: autonomous obstacle avoidance mode, patrol mode, obstacle avoidance patrol mixed mode
- Self charging function: equipped with self charging function
- Safety protection functions: 3D visual stereoscopic safety protection/obstacle avoidance recognition, laser, ultrasonic, photoelectric, mechanical protection
- Communication function: Supports external WIFI, 4G communication, 5G communication modules
- Development: Supports VDA5050 communication protocol, supports secondary development, technical forums, and technical training

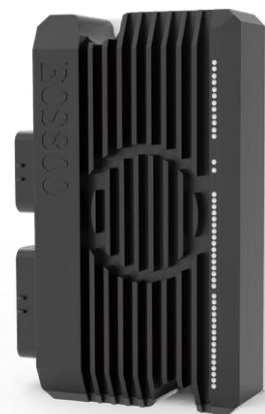
Recommended applicable types: AGV, AMR, service robot, composite robot, special mobile robot

Basic Parameters			
Length * Width * Height	145*105*50mm	output	2A/NMOS isolated output * 4
Input voltage	18-28V/Vpp<200m (with reverse protection)	voice broadcast	Support (3.5mm audio interface)
Current power consumption	Single machine<0.4A/24V, maximum current with peripherals<5A (24V)	indicator light	Running status light, communication light
Ethernet	1000M RJ45 *1	positioning accuracy	± 5mm (reflector navigation), ± 10mm (SLAM natural navigation)
USB 2.0	* 2	Navigation speed	≤1.5m/s
USB 3.0	* 2	Angle control accuracy	±0.5°
CAN	* 2	Motion Control	Autonomous obstacle avoidance driving, fixed route drivingObstacle avoidance, fixed route, mixed driving
RS485	* 1	Map area (single map)	≤ 400000 square meters (supports multi map navigation)
RS232	* 1	scheduling system	optional
Input	5V~24V optocoupler isolated input * 8	Supporting design software	support

Motion Model



3D SLAM Controller - ECS800



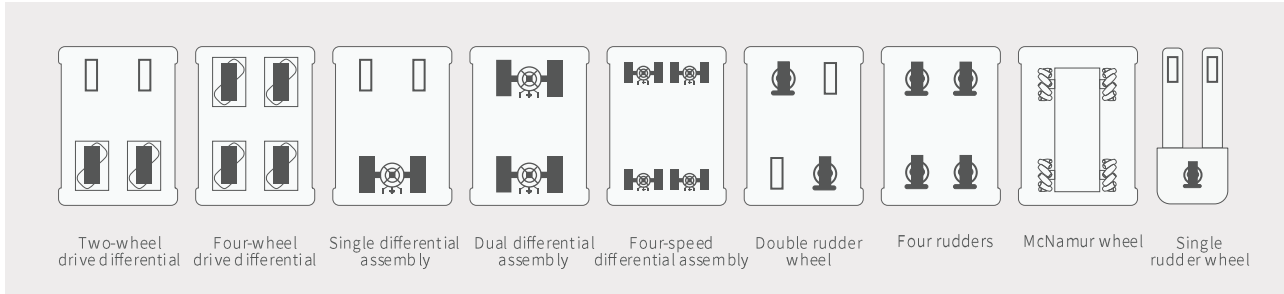
Model:
ECS800

- Navigation function: autonomous navigation driving function, compatible with 3D SLAM navigation and reflector navigation
- Motion control function: autonomous obstacle avoidance mode, patrol mode, obstacle avoidance patrol mixed mode
- Self charging function: equipped with self charging function
- Safety protection functions: 3D visual stereoscopic safety protection/obstacle avoidance recognition, laser, ultrasonic, photoelectric, mechanical protection
- Communication function: Supports external WIFI, 4G communication, 5G communication modules
- Development: Supports VDA5050 communication protocol, supports secondary development, technical forums, and technical training

Recommended applicable types: indoor and outdoor AGV, indoor and outdoor AMR, indoor and outdoor service robots, indoor and outdoor special robots, inspection robots

Basic Parameters			
Length * Width * Height	200*127*50mm	voice broadcast	Support (3.5mm audio interface)
input voltage	18-28V/Vpp<200m (with reverse protection)	indicator light	Running status light, communication light
Current power consumption	Single machine<0.4A/24V, maximum current with peripherals<5A (24V)	positioning accuracy	± 10mm (3D SLAM natural navigation)
Ethernet	1000M RJ45 *1	Navigation speed	≤1.5m/s
type C	* 1	Angle control accuracy	±0.5°
CAN	* 2	Motion Control	Autonomous obstacle avoidance driving, fixed route drivingObstacle avoidance, fixed route, mixed driving
RS485	* 2	Map area (single map)	≤ 800000 square meters (supports multi map navigation)
RS232	* 2	scheduling system	optional
Input	5V~24V optocoupler isolated input * 16	Supporting design software	support
output	2A/NMOS isolated output * 16	Supporting application software	support

| Motion Model



QR Code Controller - ECO50



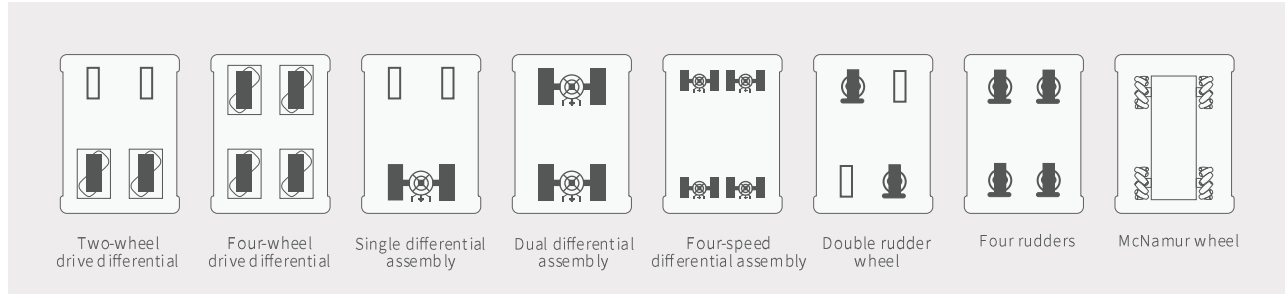
Model:
ECO50

- Navigation function: autonomous navigation driving function, QR code navigation
- Motion control function: autonomous patrol mode
- Self charging function: equipped with self charging function
- Safety protection functions: 3D visual stereoscopic safety protection/obstacle avoidance recognition, laser, ultrasonic, photoelectric, mechanical protection
- Communication function: Supports external WIFI, 4G communication, and 5G communication modules
- Development: Supports VDA5050 communication protocol, supports secondary development, technical forums, and technical training

Recommended applicable types: AGV, material box robot, special mobile robot, stacker crane, four-way shuttle vehicle

Basic Parameters			
Length * Width * Height	135*95*45mm	voice broadcast	Support (3.5mm audio interface)
input voltage	18-28V/Vpp<200m (with reverse protection)	indicator light	Running status light, communication light
Current power consumption	Single machine<0.2A/24V, maximum current with peripherals<5A (24V)	positioning accuracy	QR code navigation ± 5mm
Ethernet	100M RJ45 *1	Navigation speed	≤1.5m/s
USB2.0	* 2	Angle control accuracy	±0.5°
CAN	* 2	Motion Control	Fixed route driving
RS485	* 1	Map area (single map)	≤ 400000 square meters (supports multi map navigation)
RS232	* 1	scheduling system	optional
Input	5V~24V optocoupler isolated input * 8	Supporting design software	support
output	2A/NMOS isolated output * 12	Supporting application software	support

| Motion Model



Positioning Controller - ECS50



Model: ECS50

Positioning function: Output positioning coordinates, compatible with SLAM navigation positioning and reflector positioning

Communication function: Supports TCP/UDP communication, CAN communication, 485 communication, 232 communication methods

Development: Supports VDA5050 communication protocol, supports secondary development, technical forums, and technical training

Recommended applicable types: AGV, special mobile robot

Basic Parameters			
Length * Width * Height	145*105*50mm	voice broadcast	Support (3.5mm audio interface)
input voltage	18-28V/Vpp<200m (with reverse protection)	indicator light	Running status light, communication light
Current power consumption	Single machine<0.4A/24V, maximum current with peripherals<5A (24V)	positioning accuracy	± 5mm (reflector navigation), ± 10mm (SLAM natural navigation)
Ethernet	1000M RJ45 *1	Navigation speed	≤1.5m/s
USB2.0	* 2	Angle control accuracy	±0.5°
USB3.0	* 2	Output information	Positioning coordinates (x, y, θ)
CAN	* 2	Motion Control	exclude
RS485	* 1	Map area (single map)	≤ 400000 square meters (supports multi map navigation)
RS232	* 1	Supporting application software	support
input	5V~24V optocoupler isolated input * 8	Supporting application software	support
output	2A/NMOS isolated output * 4	Secondary development of functional logic	support

IO Controller - EIO50



Model: EIO50

Communication function: Supports external WIFI, 4G communication, 5G communication modules

Development: Supports VDA5050 communication protocol, supports secondary development, technical forums, and technical training

Integrate third-party devices and systems to achieve the Internet of Things

Recommended application types: automatic door transformation, automatic elevator transformation, equipment edge computing, docking manipulator, docking production line blanking

Basic Parameters			
Length * Width * Height	135*95*45mm	input	5V~24V optocoupler isolated input * 8
input voltage	18-28V/Vpp<200m (with reverse protection)	output	2A/NMOS isolated output * 12
Current power consumption	Single machine<0.2A/24V, maximum current with peripherals<5A (24V)	voice broadcast	Support (3.5mm audio interface)
Ethernet	100M RJ45 *1	indicator light	Running status light, communication light
USB2.0	* 2	Supporting application software	support
CAN	* 2	Supporting application software	support
RS485	* 1	Secondary development of functional logic	support
RS232	* 1		

Expansion board - EIO-88A



Model: EIO-88A

- Development: Supports VDA5050 communication protocol, supports secondary development, technical forums, and technical training
- Implementation: Unlimited expansion of hardware platform

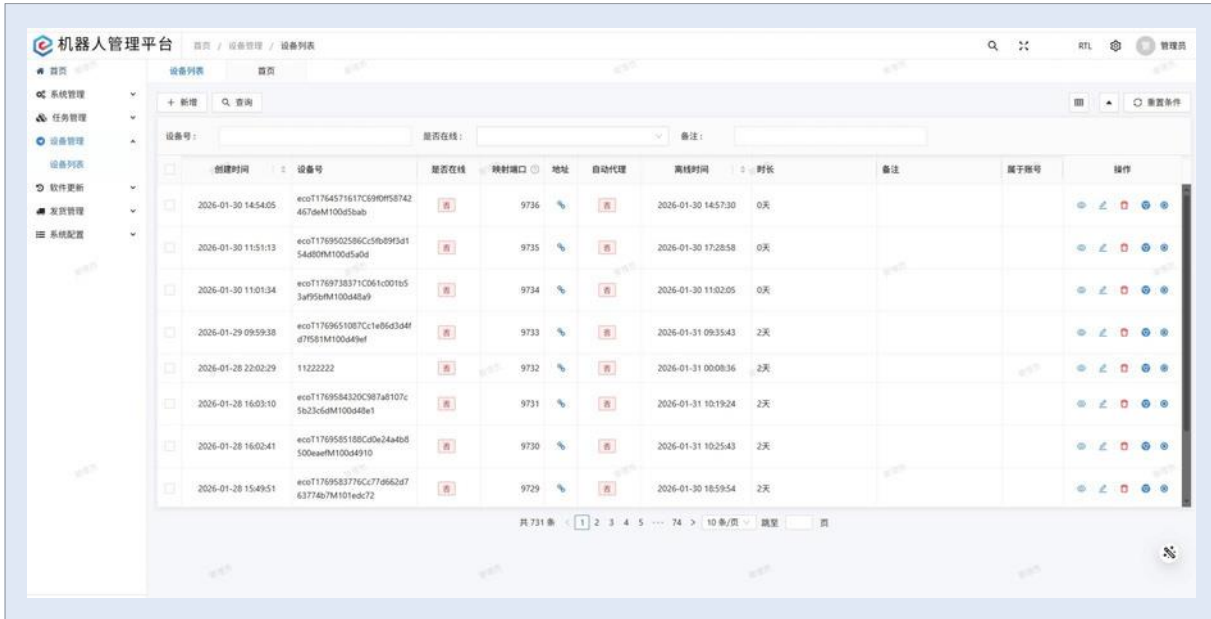
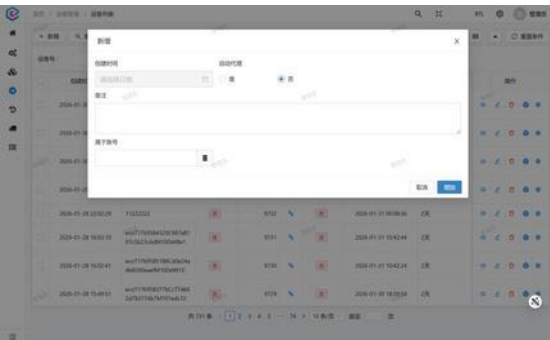
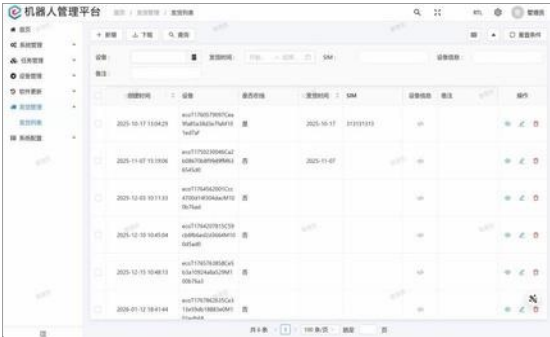
Recommended applicable types: controller expansion, IO expansion, PLC expansion

Basic Parameters			
Length * Width * Height	140*85*27mm	indicator light	Running status light, communication light
input voltage	18-28V/Vpp<200m (with reverse protection)	expand	Unlimited Expansion
Current power consumption	Single machine<0.1A/24V, maximum current with peripherals<5A (24V)	Supporting design software	support
CAN	* 1	Supporting application software	support
input	5V~24V optocoupler isolated input * 8	Secondary development of functional logic	support
output	2A/NMOS isolated output * 8		

Robot Platform - Robot Management Platform

Introduction to Robot Platform

A cloud based intelligent operation and maintenance center specially designed for delivered robots, achieving "zero contact" full lifecycle management of equipment after landing; Support remote maintenance of robots, such as starting/stopping robots, system restarts, fault diagnosis and repair operations, without on-site intervention; Support remote push system updates and patches to ensure continuous iteration of the robot.



Scheduling Platform - Storage and Transportation Scheduling Monitoring Platform

Introduction to Dispatch Platform

The platform supports seamless integration with MES, WMS, ERP, and other production management systems; Data visualization, data recording, saving past job tasks, and fault information; Robot attribute allocation, for multi floor and large area operation scenarios, customers can set their own allocation of robot operation situations; According to warehouse planning, automatic handling, neat placement, and inbound/outbound of goods can be achieved.

Platform section	Robot information statistics	Robot status statistics	Proportion of robot states	Task quantity statistics
	Robot operation log	Task Execution Log	AGV parameter information	Normal operation information
	Abnormal operation information	Running information	Offline information	Charging information
	Idle Information	Trial information	Run time statistics	Total number of orders received



Development Platform - Pioneering Controller Platform at Home and Abroad

Introduction to Development Platform

The first controller platform model both domestically and internationally, with a completely open platform; Built

in complete IDE development environment, cloud based digital remote backup and upgrade, real-time monitoring, support for online debugging, online deployment, mapping, motion modeling, etc; Provide all data interfaces, log tracking, support for scheduling system integration, and protocol development.



Main Page



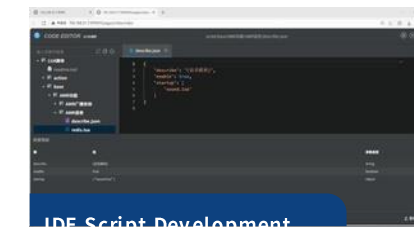
Main Page - Developer



Main Page



Visual AI secondary development programming tool



IDE Script Development

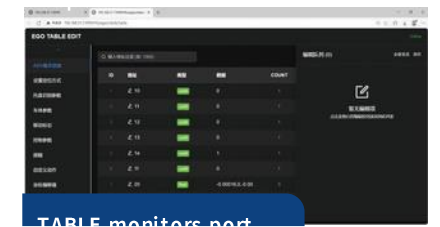
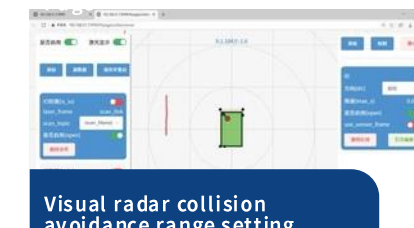


TABLE monitors port



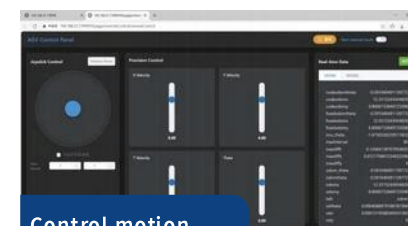
Extended Function Parameter Set Management



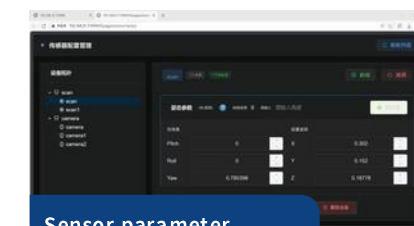
Visual radar collision avoidance range setting



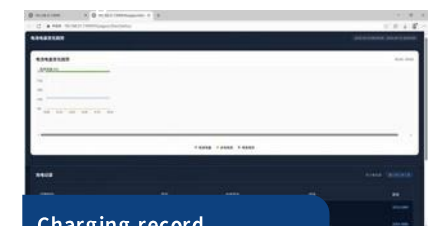
2D map



Control motion



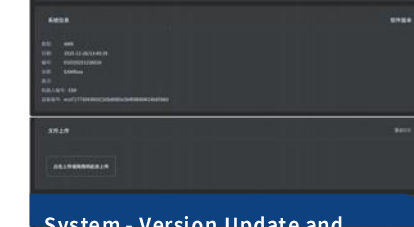
Sensor parameter



Charging record



operation



System - Version Update and



3D Map

03 APPLICATION CASES

Technical Advantage

01

Laser navigation,
no need to modify
the environment

Compatible with SLAM environment navigation and reflector navigation, flexible combination, suitable for various production environments

02

Multi machine
collaboration, high
work efficiency

Scheduling multiple robots for 24-hour collaborative work, automatically assigning tasks based on production needs, and scheduling robots to execute the optimal path

03

Unmanned delivery,
safe and stable

Improve production process flow, achieve unmanned operation, avoid errors due to fatigue, and ensure safety and stability

04

Digitalization of
production and
visual management

Visual interface enables transparent monitoring, full process data management of goods and transportation information, and traceable production

05

Simple operation
and low cost

The project deployment is simple, the cycle is short, the maintenance is convenient, the cost is low, and it can be operated across floors and regions, greatly reducing labor costs

06

Fully independently
developed and
customizable

The entire software and hardware system is completely independently developed, and subsequent upgrades and iterations are simple. It can be customized according to customer needs for functionality

Customer Benefits

Improve production efficiency

Automated management of warehouses, distribution of production materials, inbound and outbound of finished products, and turnover of buffer areas, achieving advance stocking and scheduling, and improving overall production efficiency.

reduce costs

Implement unmanned operations, reduce personnel involvement, and lower labor costs.

High return rate

The project can recover costs within 0.5-1 year.

Easy to operate and maintain

The project implementation cycle is 7-15 days, easy to operate, and the subsequent maintenance of the project is simple.

■ Photovoltaic industry - automatic inventory system project for finished products and raw materials

■ Project Description

- The company is a listed photovoltaic material production enterprise, and the original project operation process is as follows:

The finished products produced in the production workshop on the second floor are manually transported by forklifts through the cargo elevator to the three-dimensional warehouse on the first floor. The outbound of finished products and the inbound of raw materials are both completed by manual labor and vehicles. The goods are heavy, the handling volume is large, and the distance between floors is long. The production operation is 24 hours a day.

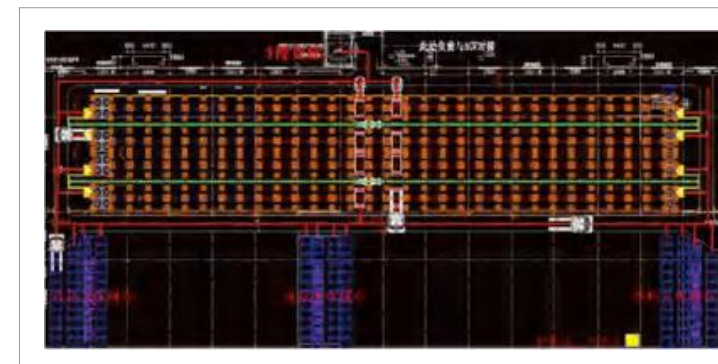
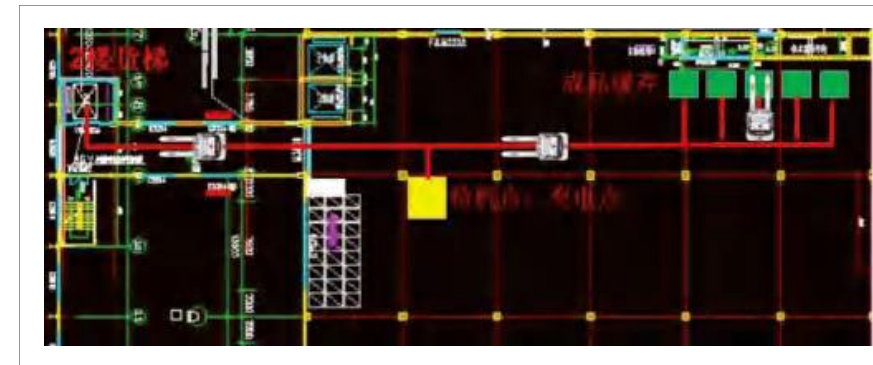
Based on the above reasons, the company has decided to introduce an unmanned vehicle intelligent handling system, using a stacked unmanned forklift AGV to optimize the original operation process, replace manual handling, reduce workers, and improve production efficiency.



■ Project Features

- Large area driving operations, system control of automatic opening and closing of freight elevators, realizing automatic entry and exit of unmanned forklifts into and out of freight elevators;
- The forklift AGV is powered by lithium batteries, which can be fully charged in 2 hours and can operate 24 hours without stopping;
- The scheduling system is integrated with ERP and warehouse WMS systems to monitor the production situation in real-time (including the status of forklifts, AGVs, system status, cargo elevator information, and warehouse material information) and manage the entire process in a visualized manner;

Three unmanned forklift AGVs cover the raw material storage, finished product storage, and pallet recycling processes of the three-dimensional warehouse, achieving unmanned operation of the warehouse.



■ Customer Value

Reduce labor costs and improve accuracy

By reducing direct manpower and minimizing hidden costs such as accidents, cargo damage, and energy consumption, clear investment returns can usually be achieved within 2-4 years, and continuous revenue creation can be achieved throughout the equipment lifecycle.

Strengthen the core competitiveness of enterprises

As a technology driven listed company, intelligent upgrading is a benchmark practice for showcasing industry leadership and technological strength, which can enhance confidence in the capital market.

Manufacturing Industry - Toy Production Line Finished Product Handling System Project

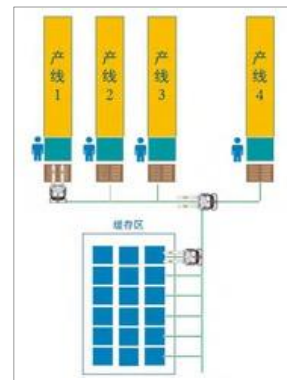
Project Description

- The four production lines in the toy production workshop of this enterprise form a buffer zone, with high cycle time, high work intensity, and chaotic finished product processes.
- The enterprise has decided to introduce an intelligent handling system to handle finished products, reducing manual involvement and improving production efficiency.



Project Features

- The intelligent handling system schedules idle AGVs to perform handling tasks based on the finished product completion information of the production line (after manual stocking is completed, a completion signal is sent), and arranges them neatly in the buffer area according to the system's free planning;
- Production in three shifts, with AGV vehicles operating 24 hours a day



customer value

Ensure on-time delivery and build production resilience

By eliminating production line blockages or waiting caused by the handling process, ensuring smooth production pace, enhancing the company's ability to deliver on time for peak season orders and emergency insertion orders, and improving customer satisfaction

Create standardized and visualized lean sites

Fundamentally solving the typical "waste" of cache confusion lays the foundation for promoting lean production. Management shifts from relying on experience to relying on data, improving overall operational level

Manufacturing Industry - Toy Production Line Finished Product Handling System Project

Project Description

- The raw materials and finished products of the adhesive film production line of this enterprise are manually transported, and the forklift must be precisely docked with the equipment by manual driving. The docking accuracy requirements are very high, and manual operation is cumbersome.
- Based on the above reasons, the company has decided to introduce an unmanned forklift AGV system, which uses unmanned forklifts to automatically dock equipment for loading and transporting finished products, greatly improving production efficiency.



Project Features

- Forklift AGV automatic docking production equipment, docking accuracy requirement+5mm, high positioning accuracy, high project difficulty;
- According to the production situation, the scheduling system automatically schedules forklifts and AGVs to achieve the loading of raw materials and the unloading and handling of finished products; The forklift AGV passes through two air shower doors, and the system automatically opens and closes the doors by connecting to the air shower doors.

Customer Value

Ensure excellent product quality and production stability

By eliminating human operational variables, ensuring absolute precision and consistency in the loading/unloading process, laying the foundation for precision technology in film production, and directly improving product yield, batch stability, and customer satisfaction

Strengthen the safety and compliance guarantee of core production processes

Realize the "machine replacement" of high-risk and high-precision positions, achieve physical isolation between humans and vehicles, and create an inherently safe environment. Automated processes comply with clean workshop management standards and meet increasingly stringent production safety and environmental regulations

Pharmaceutical (State owned Enterprise) - Automatic Inventory Management System Project

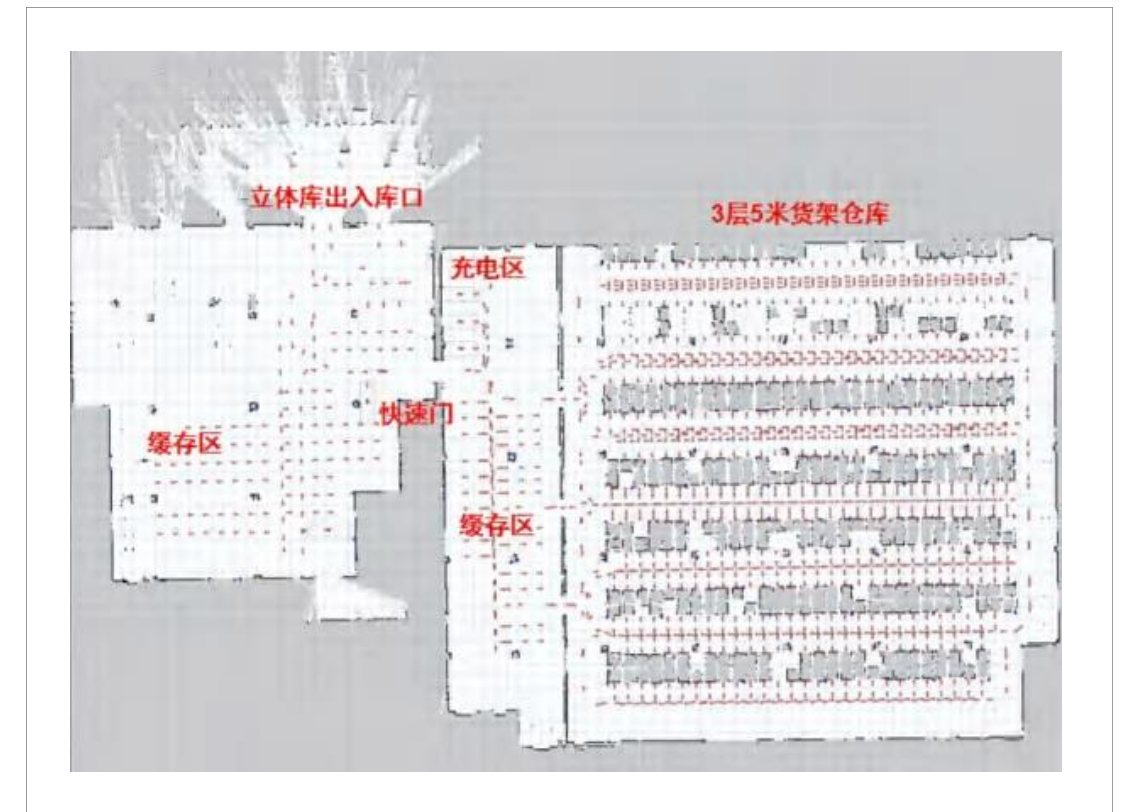
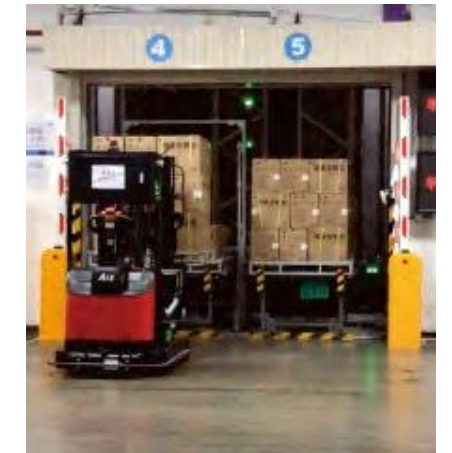
Project Description

- The original operation process of the enterprise's transit warehouse in southern China was as follows: after the finished products were delivered by trucks, they were manually unloaded onto pallets and placed in the buffer area. After manually scanning the code and entering the information, they were then transported into the warehouse by manual forklifts; When shipping, the goods are manually picked from the warehouse according to the order, transported to the buffer area, and after the shipping personnel confirm the bill of lading information, they are manually transported to the shipping port for loading.
- In order to reduce the amount of manual back and forth handling, introduce information management, and improve efficiency, the company has decided to introduce an unmanned forklift AGV system, which uses unmanned AGV to achieve automatic inbound and outbound of goods.



Project Features

- Large area driving operations, system control of fast doors, achieving automatic entry and exit of unmanned forklifts;
- Forklift AGV multi station operation, with over 1200 storage positions in the shelving warehouse and fast inbound and outbound cycles; The scheduling system is integrated with the WMS system of the stereoscopic warehouse to achieve automatic inbound and outbound of the stereoscopic warehouse. The shelf warehouse is equipped with an AGV warehouse management system to carry out information management of the shelf warehouse locations, realizing unmanned management and automatic inbound and outbound of the warehouse;
- Four unmanned forklifts and AGVs work together to handle the inbound and outbound operations of the three-dimensional warehouse, as well as the inbound and outbound operations of the shelving warehouse.



Customer Value

Strict compliance and quality traceability

The system automatically records the entire process data of drug inbound, storage, and outbound, meeting GSP/GMP regulatory requirements; Realize precise control and full traceability of batch number and expiration date, effectively prevent expiration risks, and ensure medication safety

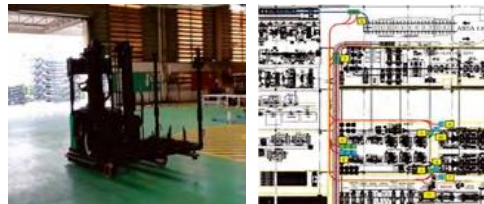
Efficient, stable, safe and controllable

Unmanned forklifts operate with precision 24/7, increasing warehouse efficiency by over 30%; Multiple error prevention and permission management mechanisms reduce human errors and meet the high standards of information security and business continuity requirements of state-owned enterprises

Automotive Parts - Production Line Automatic Distribution System Project

Project Description

- This company is a Southeast Asian automotive parts manufacturer that provides parts to European and Japanese car manufacturers. The ingredients and finished products of the production line are all manually and manually delivered by vehicles, which is far away and the material information is not timely, affecting the overall production efficiency.
- The enterprise has introduced an unmanned forklift AGV system, which uses unmanned forklift AGV to automatically transport production ingredients and finished products from various production lines. It can automatically transport finished products from the previous process to the next process for production according to the production situation.



Project Features

- The homework distance is long, the existing environment is complex, and the stability requirements of the automotive parts industry are high, while meeting the 24-hour non-stop operation;
- The production pace is fast, with each link tightly connected, and high requirements for the stable operation of the AGV;
- The scheduling system is connected to multiple devices, with workstation status detection and manual call devices installed at each workstation. It also interfaces with on-site cranes to achieve traffic control between AGVs and cranes.

Customer Value

Improve delivery efficiency and production pace

Unmanned forklifts can accurately connect with production line requirements 24/7, automatically complete timed and fixed-point delivery of parts, eliminate the risk of manual misdelivery and missed delivery, and ensure the continuous and stable operation of automotive parts production lines

Reduce operating costs and security risks

Reduce the input of material delivery personnel, saving over 10000 yuan in annual labor costs for a single production line; Laser navigation and multiple collision avoidance mechanisms effectively avoid collision accidents and improve the safety level of workshop operations

Food Industry - Automated Warehouse Entry and Exit System Project

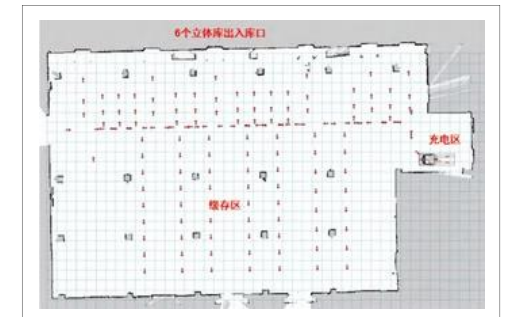
Project Description

- The original operation process of the enterprise: After the finished products are delivered by trucks, they are manually unloaded onto pallets and placed in the buffer area. Manual forklifts transport and store them according to the documents; When shipping, the goods are manually picked from the WMS system, and the three-dimensional warehouse takes them out to the shipping port. The goods are then manually transported to the loading door for loading according to the display on the signboard.
- In order to reduce the amount of manual back and forth handling, introduce information management, and improve efficiency, the enterprise has decided to introduce an unmanned forklift AGV system, which uses unmanned forklift AGV to achieve automatic inbound and outbound of goods.



Project Features

- The system controls the entrance and exit doors of the three-dimensional warehouse to achieve automatic entry and exit of goods into the cold storage door;
- AGV multi station operation with fast inbound and outbound cycles;
- The scheduling system is integrated with the 3D warehouse WMS system to achieve automatic inbound and outbound of the 3D warehouse.



customer value

Ensuring food safety and traceability

The system automatically records the entire process information of each batch of raw materials and finished products entering, storing, and leaving the warehouse, achieving precise first in first out and expiration management, effectively reducing the risk of expiration and deterioration, and meeting the strict compliance traceability requirements of the food industry

Improve storage efficiency and hygiene level

The unmanned forklift seamlessly connects with the three-dimensional warehouse, automatically completing intensive storage and rapid inbound and outbound operations 24/7, increasing storage capacity utilization by over 50%; Reduce manual contact, lower the probability of cross contamination, and help control the clean production environment of food

04 SERVICE

Service Support

online service

Provide 24/7 online service with full fault protection throughout the entire process; On site support for domestic customers, response and arrival within 48 hours

Systematic training

Provide a full range of training courses from operation, maintenance to advanced development, empowering customer teams

Modularization

Quick Deployment

The fastest deployment and debugging can be completed in just 2 weeks, achieving rapid automation of flexible logistics

Mature experience

Successfully implemented in numerous large enterprises, with rich experience in implementation and mature and stable solutions

Full stack support for software and hardware

Comprehensive technical support covering robot body, scheduling system (RCS), and integration with upper level systems (WMS/ERP)

Data driven iteration

Based on operational data analysis, provide customized solutions for customers to improve efficiency, optimize paths, and upgrade systems

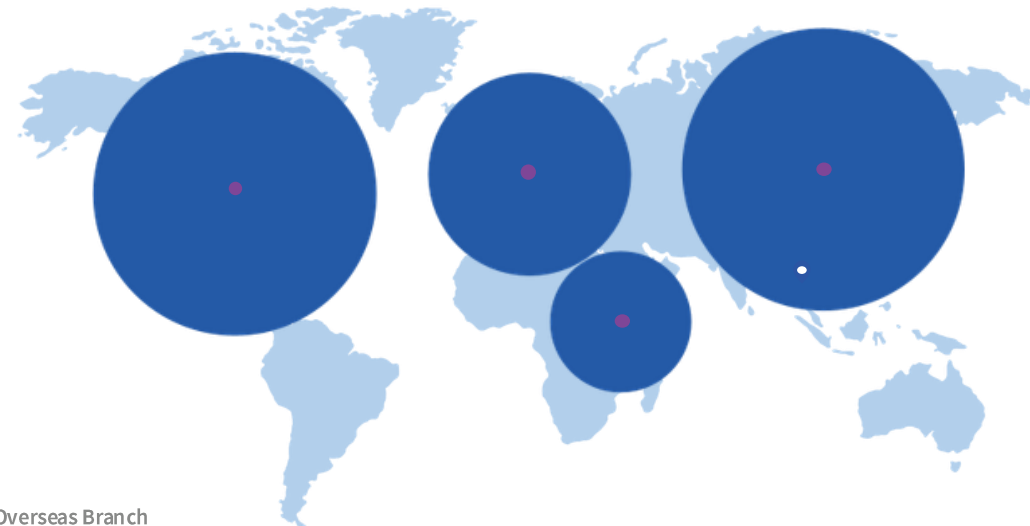
Training Support



Global Layout



Domestic marketing service network centered around cities
After sales service covers the whole country



Overseas Branch (Thailand)
Overseas service outlets

Building a localized sales and technical service team for the international market
Establishing an office in Thailand with business coverage in 50 countries

Technical Forum

Matching support



Forum Community

The EGO controller series products are accompanied by a technical forum. The forum includes tutorial materials for the entire controller development, making it convenient for engineers to develop and exchange technology.

The content section includes: controller hardware, open source scripts, software usage, algorithm principles, protocol integration, peripheral configuration, deployment process, project experience, help seeking communi- cation, and ecosystem.

