

**Committed to Becoming the World's
Leading Supplier of Integrated Solutions**



Hangcha Group Intelligent Logistics Division

INTELLIGENT LOGISTICS SECTION OF HANGCHA GROUP CO., LTD.



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Making Logistics Easier and Smarter



THE FUTURE OF SMART LOGISTICS SOLUTION AT **HANGCHA INTELLIGENCE.**

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About Us

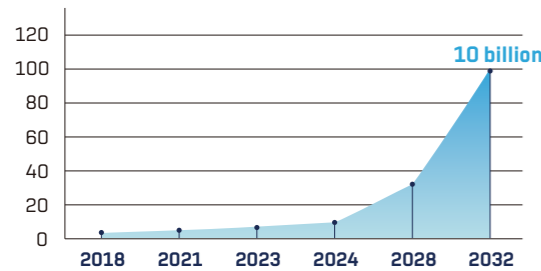


200+
Intelligent Logistics
Equipment



70-90%
Annual Sales
Growth Rate

Performance Growth Trend

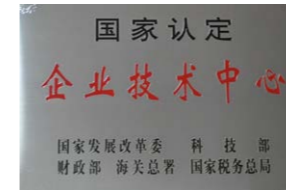


The Hangcha Group's Intelligent Logistics Division currently consists of three major business units: Hangcha Intelligence, Hangcha Okamura, and Hanhe Intelligence. The company focuses on the field of intelligent logistics, providing comprehensive end-to-end intelligent logistics solutions.

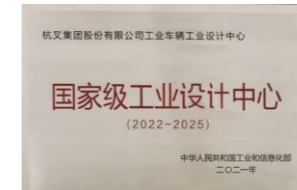
The company boasts strong research and development capabilities, supported by a team of highly qualified R&D professionals. Leveraging high-end innovation platforms such as the Academician Expert Workstation and the Provincial Key Enterprise Research Institute for Intelligent Industrial Vehicles, the company actively invests substantial resources, introduces advanced technologies and equipment, and lays a solid foundation for its R&D efforts. Additionally, the company places great importance on industry-academia-research collaboration with key universities and research institutions, continuously expanding its R&D scope and enhancing its technological expertise. Through continuous innovation and outstanding R&D capabilities, its related products have won honors such as the China Logistics Technology Equipment Golden Wisdom Award and the Zhejiang Province Manufacturing First Set in Key Fields. The company has led the development of a multi-vehicle coordination algorithm platform system with independent intellectual property rights and underlying architecture, achieving internationally leading dispatch capabilities. Furthermore, the company has been approved for provincial-level "Spearhead" and "Leading Goose" technology projects and has frequently participated in major municipal artificial intelligence technology innovation projects. With its strong R&D capabilities, the company contributes to its development and advances the industry.

The company's business is extensive, spanning over fifty large comprehensive industries. It precisely focuses on various fields such as new energy lithium batteries, photovoltaics, the power industry, beverages, rubber tires, 3C semiconductors, logistics warehousing, the chemical industry, and various manufacturing sectors. With professionalism and innovation, the company continues to cultivate these areas, providing exceptional services and solutions to its clients.

R&D Capabilities



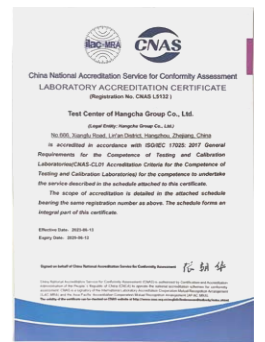
Nationally Recognized Enterprise Technology Center



National Industrial Design Center



Zhejiang Province Academician Expert Workstation



National Accredited Laboratory



Postdoctoral Research Workstation



High-Tech Enterprise



Key Enterprise Research Institute



Zhejiang Province Industrial Vehicle Engineering Technology Research Center



Blue Book on the Development of Forklift Mobile Robot Industry



Industry Standards of Mobile Robot Industry Alliance



Development History

2012

Developed AGV system independently

2014

Established the Academician Expert Workstation for Intelligent Industrial Vehicles

2015

2015: Zhejiang Provincial Government approved the construction of the Zhejiang Province Hangcha Intelligent Industrial Vehicle Provincial Key Enterprise Research Institute

2016

2016: Invested in forming the Hanhe Intelligent Software Team

2016

Signed a strategic cooperation agreement on AGV technology with Kollmorgen Group

2017

2017: Completed the nation's first project combining manual forklifts and AGVs, as well as the first high-lift three-way stacker automated warehouse project

2018

2018: Founded Hangcha Intelligent Technology Co., Ltd.

2020

Forklift AGV, ranked No. 1 nationwide

2022

Hangcha Group and Japan's Okamura formed a joint venture to begin the production of intelligent logistics assembly

2023

2023: Acquired an additional 76.4 acres of land, with plans for a 133,000 square meter factory

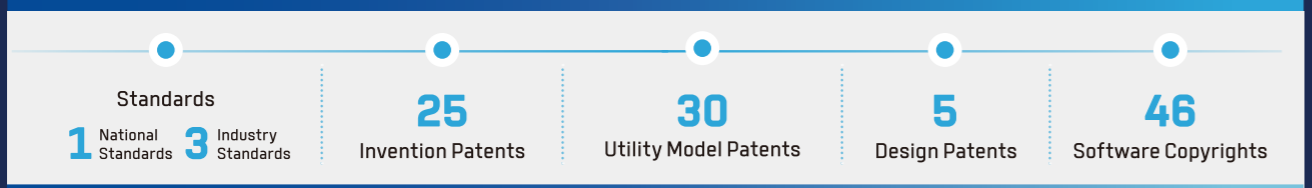
2024

The groundbreaking ceremony was held for the Hangcha Technology Park Phase IV, a project to build a production base with an annual output of 10,000 units of automated equipment for Hangcha and its intelligent logistics division

Technological Achievements



R&D Achievements

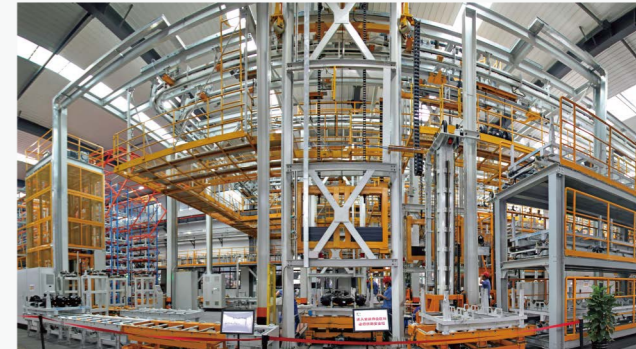


Manufacturing Capabilities

Automated Painting Line



Intelligent Logistics and Warehousing System



Automated Overhead Logistics Conveyor Line



Intelligent Digital Welding Robots



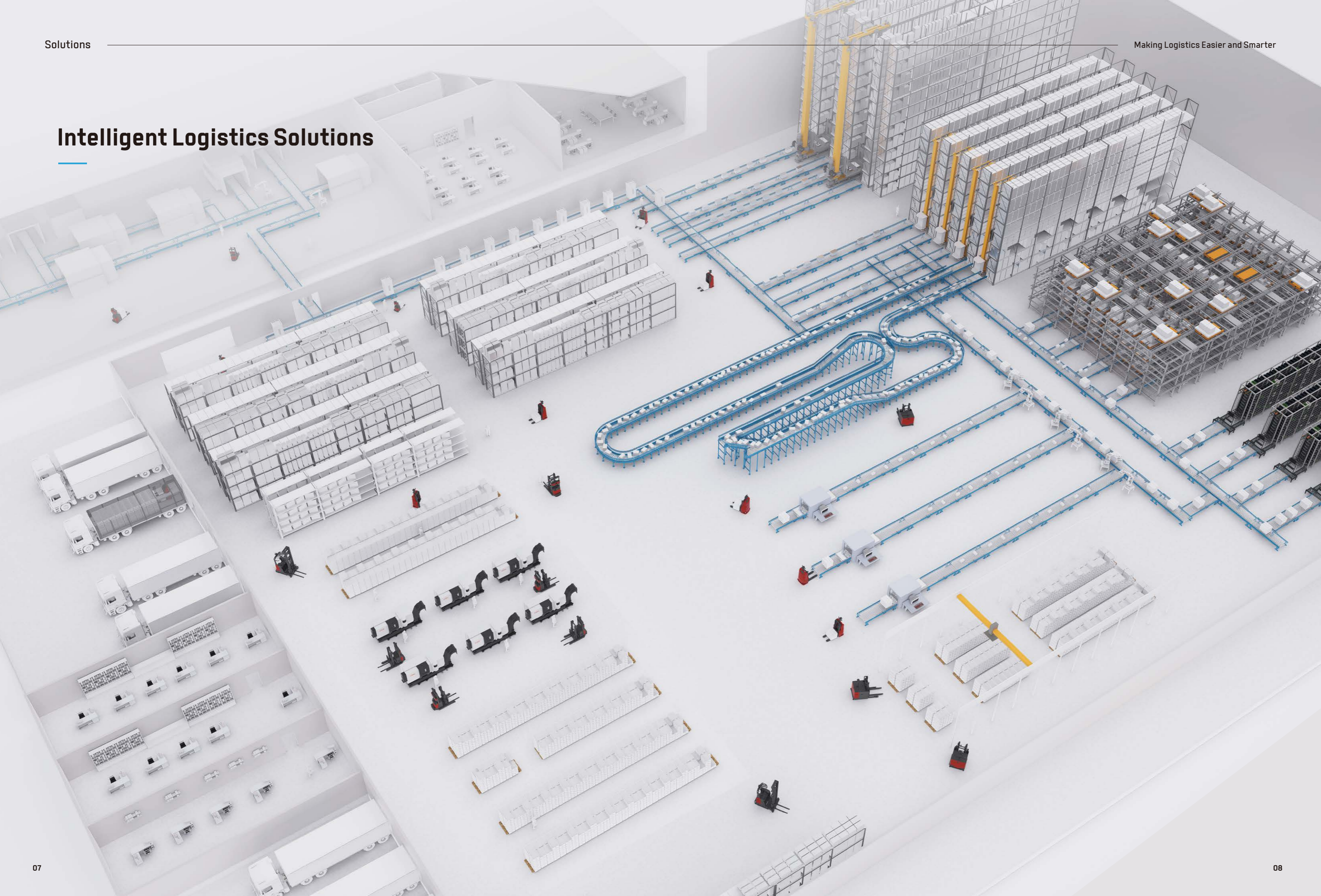
Aerial Vehicle Assembly Workshop

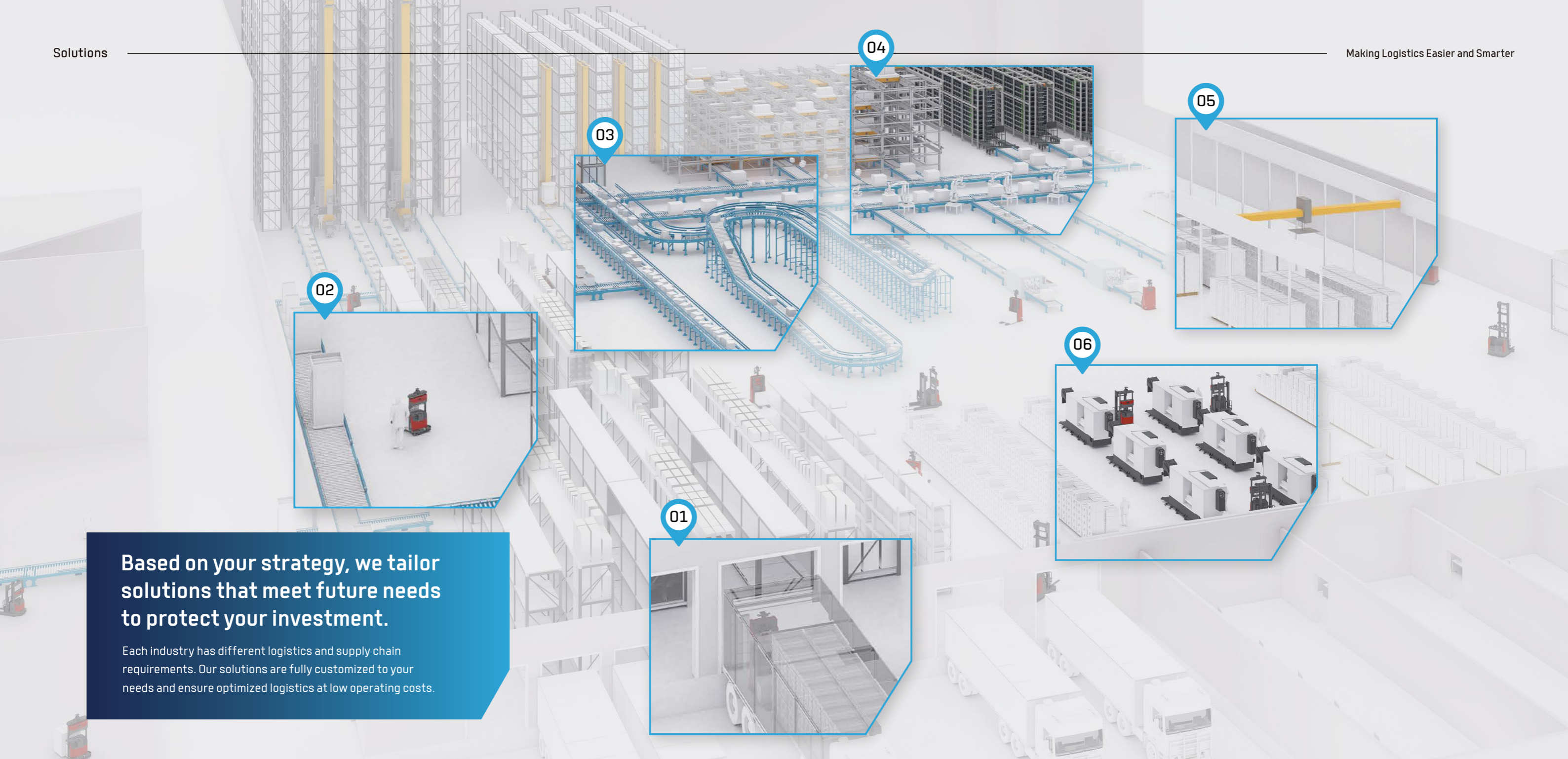


Intelligent Electric Forklift Assembly Workshop



Intelligent Logistics Solutions





Based on your strategy, we tailor solutions that meet future needs to protect your investment.

Each industry has different logistics and supply chain requirements. Our solutions are fully customized to your needs and ensure optimized logistics at low operating costs.






Automation Scenarios

- 01** Automatic Loading and Unloading
- 02** Automatic Handling
- 03** Automatic Conveying
- 04** Automatic Warehousing
- 05** Automatic Sorting
- 06** Automatic Distribution

Mobile Robots








Transport and Towing Series

				
1.2T Low-position Pallet Truck Model: AGVLCBD12 Rated Load: 1200kg	2-3T Pallet Truck Model: AGVLCBD20/30 Rated Load: 2000/3000kg	6T Pallet Truck Model: AGVLCBD60 Rated Load: 6000kg	Tiller-Tow Tractor Model: AGVLQDD50 Rated Load: 5000kg	Three-Wheel Tow Tractor Model: AGVLQDD100 Rated Load: 10000kg




Counterbalance Series

			
0.8T Counterbalance Model: AGVLCPD08 Rated Load: 800kg Load Center Distance: 500mm	1.6T Counterbalance Model: AGVLCPD16 Rated Load: 1600kg Load Center Distance: 500mm	3-5T Counterbalance Model: AGVLCPDB30/40/50 Rated Load: 3000/4000/5000kg Load Center Distance: 600mm	2-3.5T Rubber-Wheeled Counterbalance Customized or Optional per Project


Stacking Series

				
1.5T Mini Stacker Model: AGVLCDD15 Rated Load: 1500kg Load Center Distance: 600mm	2T Mini Stacker Model: AGVLCDD20-M Rated Load: 2000kg Load Center Distance: 600mm	2T Standard Stacker Model: AGVLCDD20 Rated Load: 2000kg Load Center Distance: 600mm High Lift	Heavy-Duty Stacker Model: AGVLCDD30/50 Rated Load: 3000/5000kg Load Center Distance: 600mm	Omnidirectional Stacker Customization






VNA Three-Way Series

		
1.2T Standard Model Model: AGVLMCSD12 Rated Load: 1200kg Load Center Distance: 600mm Suggested Aisle Width: 1750mm	1.5T Three-Way Truck Model: AGVLMCSD15 Rated Load: 1500kg Load Center Distance: 600mm Suggested Aisle Width: 1950mm	Man-Up Three-Way Truck Model: AGVLMCSD16 Rated Load: 1600kg Load Center Distance: 600mm Suggested Aisle Width: 1800mm

Picking Series

	<table border="0"> <tr> <td>P4/P4 CE (Single Deep Reach)</td> <td>P4-F (Lift)</td> </tr> <tr> <td>Bin Range: W x H(mm)</td> <td>W:360-400 H:100-400</td> </tr> <tr> <td>Maximum Load per Picking Unit:</td> <td>30(kg) 50(kg)</td> </tr> <tr> <td>Maximum Vehicle Load:</td> <td>300(kg) 300(kg)</td> </tr> <tr> <td>In-Place Rotation Diameter:</td> <td>1825(mm) 1825(mm)</td> </tr> </table>	P4/P4 CE (Single Deep Reach)	P4-F (Lift)	Bin Range: W x H(mm)	W:360-400 H:100-400	Maximum Load per Picking Unit:	30(kg) 50(kg)	Maximum Vehicle Load:	300(kg) 300(kg)	In-Place Rotation Diameter:	1825(mm) 1825(mm)
P4/P4 CE (Single Deep Reach)	P4-F (Lift)										
Bin Range: W x H(mm)	W:360-400 H:100-400										
Maximum Load per Picking Unit:	30(kg) 50(kg)										
Maximum Vehicle Load:	300(kg) 300(kg)										
In-Place Rotation Diameter:	1825(mm) 1825(mm)										

Reach Truck Series

				
Small Reach Truck Model: AGVLCQD16/20 Rated Load: 1600/2000kg Load Center Distance: 500mm	Compact Reach Truck Model: AGVLCQD18 Rated Load: 1800kg Load Center Distance: 500mm	Standard Reach Truck Model: AGVLCQD16/20 Rated Load: 1600/2000kg Load Center Distance: 600mm	2.5T Reach Truck Model: AGVLCQD25 Rated Load: 2500kg Load Center Distance: 600mm	American Standard Reach Truck (Scissor Fork) Rated Load: 1400-2000kg Project Customization

Under-Ride Series

Rated Load: 300/600/1000/1500kg



Heavy-Duty Under-Ride Series

0-100T Custom Non-Standard per Project



Automated Storage Products



Stacker Crane Product Series



T50 Bin Stacker Crane

Type: Bin Stacker Crane
Rated Load: 50kg
Travel Speed: Max 360m/min
Positioning Accuracy: ±5mm
Optimal Operating Height: 6-20meters
Communication Method: Infrared



T1000 Pallet Stacker Crane

Type: Pallet Stacker Crane
Rated Load: 1000kg
Travel Speed: Max 180m/min
Positioning Accuracy: ±5mm
Optimal Operating Height: 10-40meters
Communication Method: Infrared



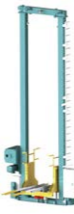
T1500 Pallet Stacker Crane

Type: Pallet Stacker Crane
Rated Load: 1500kg
Travel Speed: Max 180m/min
Positioning Accuracy: ±5mm
Optimal Operating Height: 10-40meters
Communication Method: Infrared



T2000 Pallet Stacker Crane

Type: Pallet Stacker Crane
Rated Load: 2000kg
Travel Speed: Max 160m/min
Positioning Accuracy: ±5mm
Optimal Operating Height: 10-40meters
Communication Method: Infrared



T2500 Pallet Stacker Crane

Type: Pallet Stacker Crane
Rated Load: 2500kg
Travel Speed: Max 160m/min
Positioning Accuracy: ±5mm
Optimal Operating Height: 10-40meters
Communication Method: Infrared



T3000 Pallet Stacker Crane

Type: Pallet Stacker Crane
Rated Load: 3000kg
Travel Speed: Max 160m/min
Positioning Accuracy: ±5mm
Optimal Operating Height: 10-40meters
Communication Method: Infrared

Note: Specific parameters for the stacker crane are customized according to project efficiency requirements.

Conveyor System



Chain Conveyor

Rated Load: Max3000kg
Travel Speed: 12-18m/min
Power: 0.55-1.1 kW[Customized per Project]
Attachments: Photoelectric Bracket and End Limit Stop



Roller Conveyor

Rated Load: Max3000kg
Travel Speed: 12-18m/min
Power: 0.37-0.75 kW[Customized per Project]
Attachments: Photoelectric Bracket and End Limit Stop



Lifting Transfer Machine

Rated Load: Max3000kg
Travel Speed: 12-18m/min
Lifting Power: 0.75-1.1 kW
Power: Transfer Power: 0.37-0.75 kW (Customized per Project)
Attachments: Photoelectric Bracket and End Limit Stop

Note: Specific parameters for the conveyor line are customized according to project efficiency requirements.

Ultra-High-Speed Sorting System

The horizontal carousel rack is suitable for systems with high handling capacity requirements, allowing for mixed storage and transportation of bins and cartons.

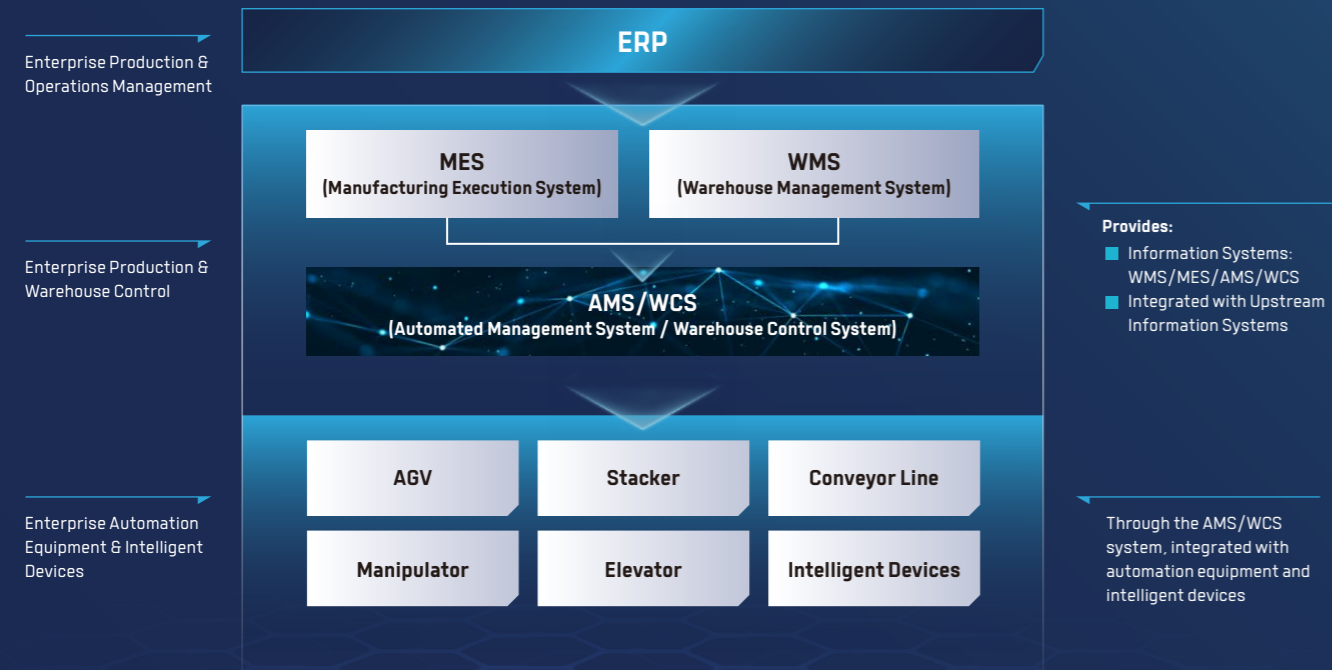
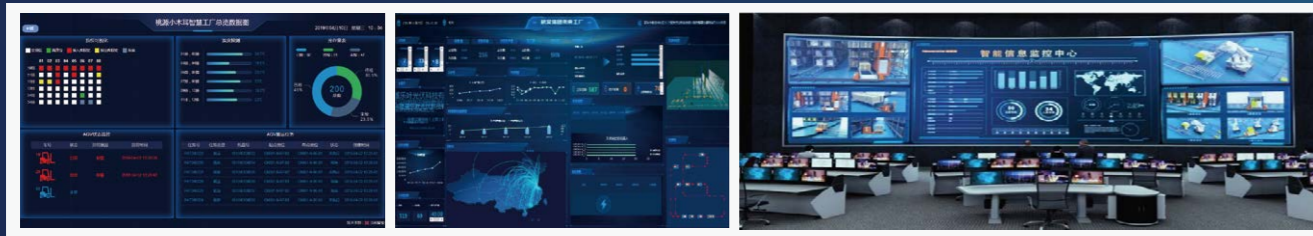
Features

- 1 Sorting Function:** Temporarily stores inbound items and sorts them according to outbound units for orderly retrieval.
- 2 Diversity of Stored Items:** The types of items stored on the rack include a variety of storage items, such as bins and cartons.
- 3 Automatic Extraction Device:** Multiple automatic extraction devices can be added based on capacity or operation area. When using multiple automatic extraction devices, multiple items can be simultaneously stored or retrieved.

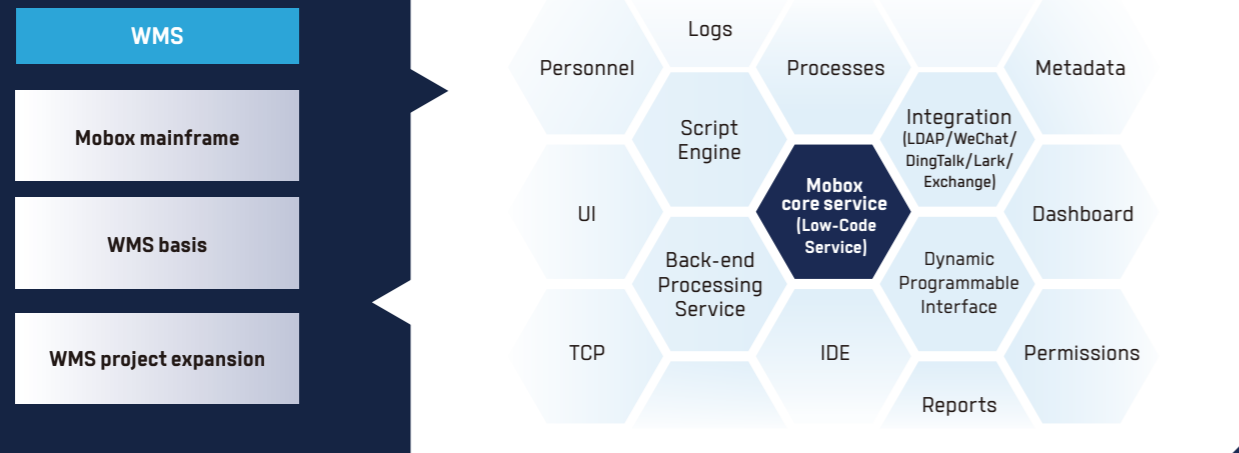


Intelligent Logistics Management System

Hangcha Intelligent Logistics Management System is an agile and smart management system that covers various systems, including design, production, warehousing, automation management, and automated equipment. It provides a comprehensive information and automation solution for enterprise "intelligent logistics".



Based on a rapid application development platform, implement internal factory material systems WMS/LES



WMS	The Warehouse Management System supports both centralized and distributed deployments, integrating with ERP, CRM, and SCM systems.
MES	The Manufacturing Execution System supports both centralized and distributed deployments, integrating with ERP, CRM, and SCM systems.
AMS/WCS	<ul style="list-style-type: none"> Through AMS/WCS, facilitates integration between upper-level systems and lower-level execution systems; Customized development by Hangcha Intelligent Professional Software Company, designed for different requirements to meet various on-site conditions.



MES+AMS/WCS+AGV

Provides comprehensive intelligent manufacturing solutions.



WMS+AMS/WCS+AGV

Provides comprehensive automated warehouse solutions.



Intelligent Logistics Management System

Develop professional software tailored for intelligent logistics systems.

Provides real-time feedback on storage location usage, manages the dispatching of storing and retrieving different types of goods, and offers comprehensive and reliable data support. Works with equipment control systems to achieve information management for intelligent logistics within enterprises.

- 1 High Versatility**
 A software product that solves common industry problems.
- 2 Seamless Integration**
 Seamlessly integrates with ERP, MES, OMS, intelligent devices, etc.
- 3 Modular Management**
 Warehouse zoning, standardized operations, precise inventory control.
- 4 Access Control**
 Customizable menu and data view permissions, among others.



- Supports both centralized and distributed deployments
- Supports Various Warehouse Equipment
- Supports Multiple Warehouses and Multiple Owners
- Supports Multiple Organizational Structures

Advanced Technology



SkyEye System
By using top-mounted cameras to identify the status of goods (empty or full), placement positions, and instances of human intervention, data is analyzed and processed to provide the system with precise real-time feedback on the status.



Automatic Loading
Utilizes global vision and end-point recognition to precisely locate the positions of both the truck container and the goods, achieving fully automatic loading and partial automatic unloading in certain scenarios.

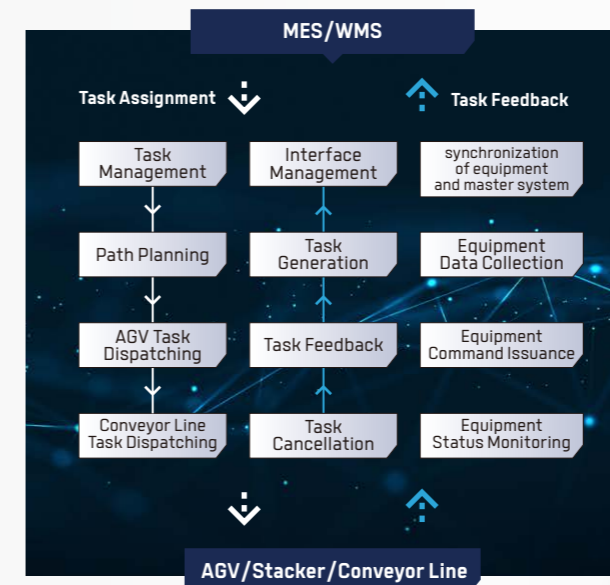


Natural Stacking
Using a combination of sensors, including cameras and lasers, to accurately determine the layer count, height, and tilt angle of various types of goods such as materials, pallets, and wall packs, enabling precise stacking.

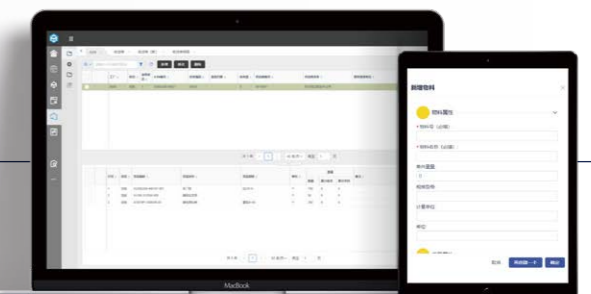


End-Point Recognition
Employs wheel friction recognition technology from end-point sensors, along with real-time adjustments to the vehicle's posture and attachments, to achieve reliable and adaptive material handling.

Automated Management System (AMS/WCS)



- **Path Planning:** Plans and designs AGV walking routes.
 - **Task Management:** Supports task query, suspension, activation, deletion, and priority settings.
 - **Statistical Analysis:** Analyzes task execution efficiency and equipment delivery rhythm.
 - **Alarm Management:** Includes timeout alarms for tasks, equipment malfunction alarms, alarm notifications, and alarm resolution notifications.
 - **Equipment Data:** Automatically collects equipment data and supports concurrent processing for up to 5,000 devices.
 - **Equipment Control:** Issues task commands, and intelligent devices execute the commands and provide feedback on execution results.
 - **Interface Management:** Provides delivery tasks for MES, WMS, and call systems and feeds back task completion status.
- [\[View interface style implementation method is unified\]](#)





Global Services

Exports to over 200 countries and regions, a sales network of more than 300 dealers, over 500 service locations, with 24-hour rapid response.

Service Locations

 **500+**

Countries and Regions

 **200+**

Dealers

 **300+**

Rapid Response

 **24 h**



Germany Subsidiary



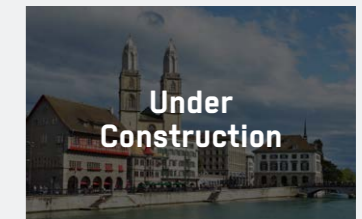
Netherlands Subsidiary



Canada Subsidiary



USA Subsidiary



Switzerland Subsidiary



Mexico Subsidiary



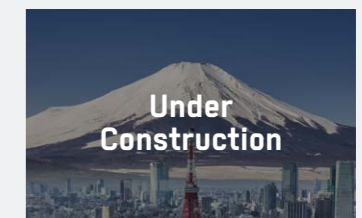
Brazil Subsidiary



Thailand Subsidiary



Australia Subsidiary



Japan Subsidiary

Our Partner Clients

