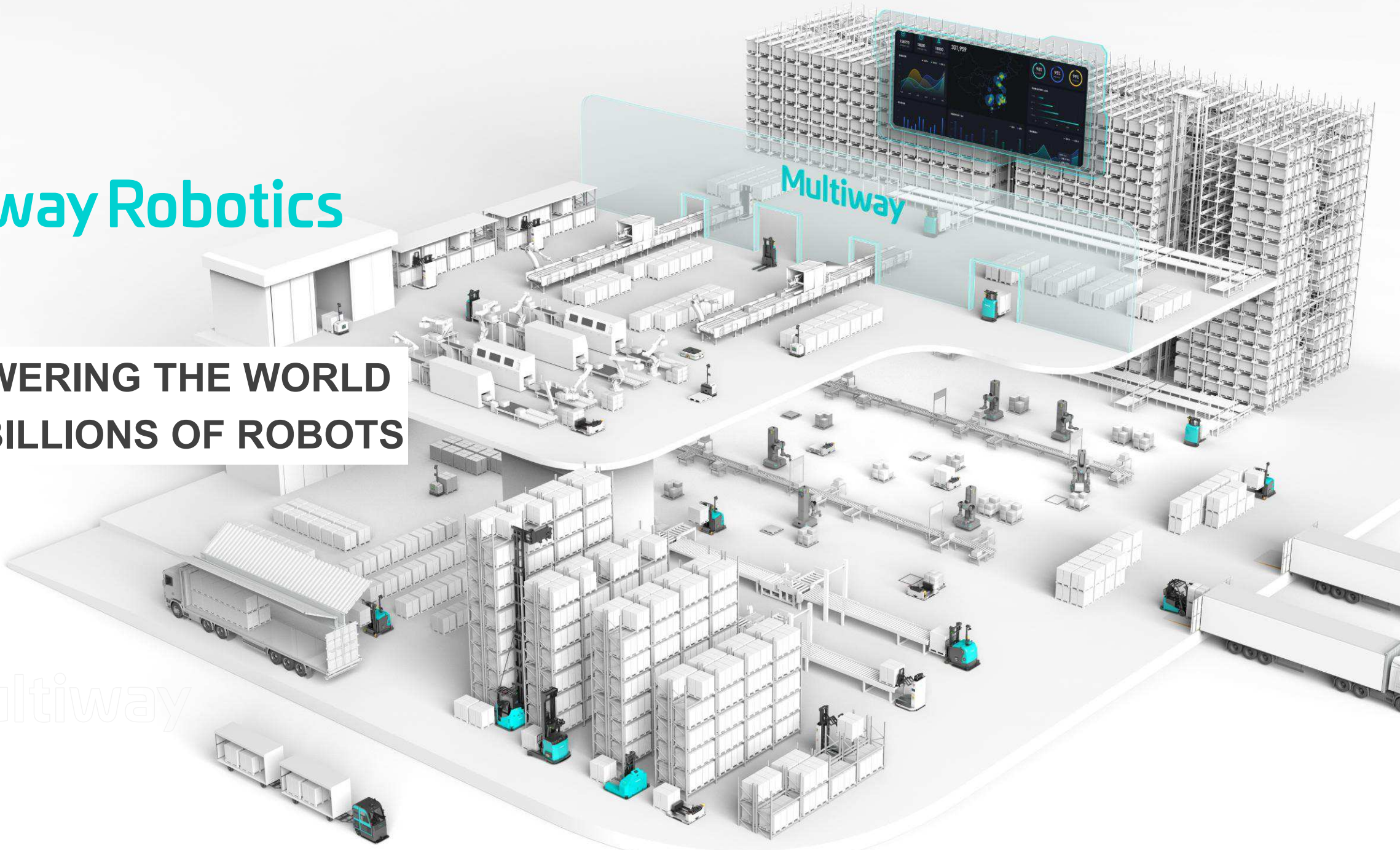


Multiway Robotics



**EMPOWERING THE WORLD
WITH BILLIONS OF ROBOTS**



Multiway

About Multiway

20+

Industry Applied

40+

Countries & Regions

450+

Patents & Copyrights

1000+

Project Cases

Service Philosophy

We believe that strong R&D and constant innovative capabilities are fundamentals of sustainable growth of the company, furthermore, are the sources of long-term service and insistent empowerment of our customers.



Industry Pioneer and Innovator

Comprehensive Product Portfolio · Driven by Continuous Innovation

- Among the First Companies in the Industry to Develop Fully Autonomous Forklifts
- Comprehensive Hardware Product Portfolio

Proprietary High-Performance Core Systems

- In-House Algorithms and Key Components
- Integrated Intelligent Software Ecosystem

Cross-Industry and Cross-Regional Delivery Capability

- Extensive Experience in Complex Logistics Scenarios
- Global Reach, Local Responsiveness



Intelligent Transformation from Multiway



The above are some of our partners, in no particular order

Global Network

Headquarters



Factory



USA Office



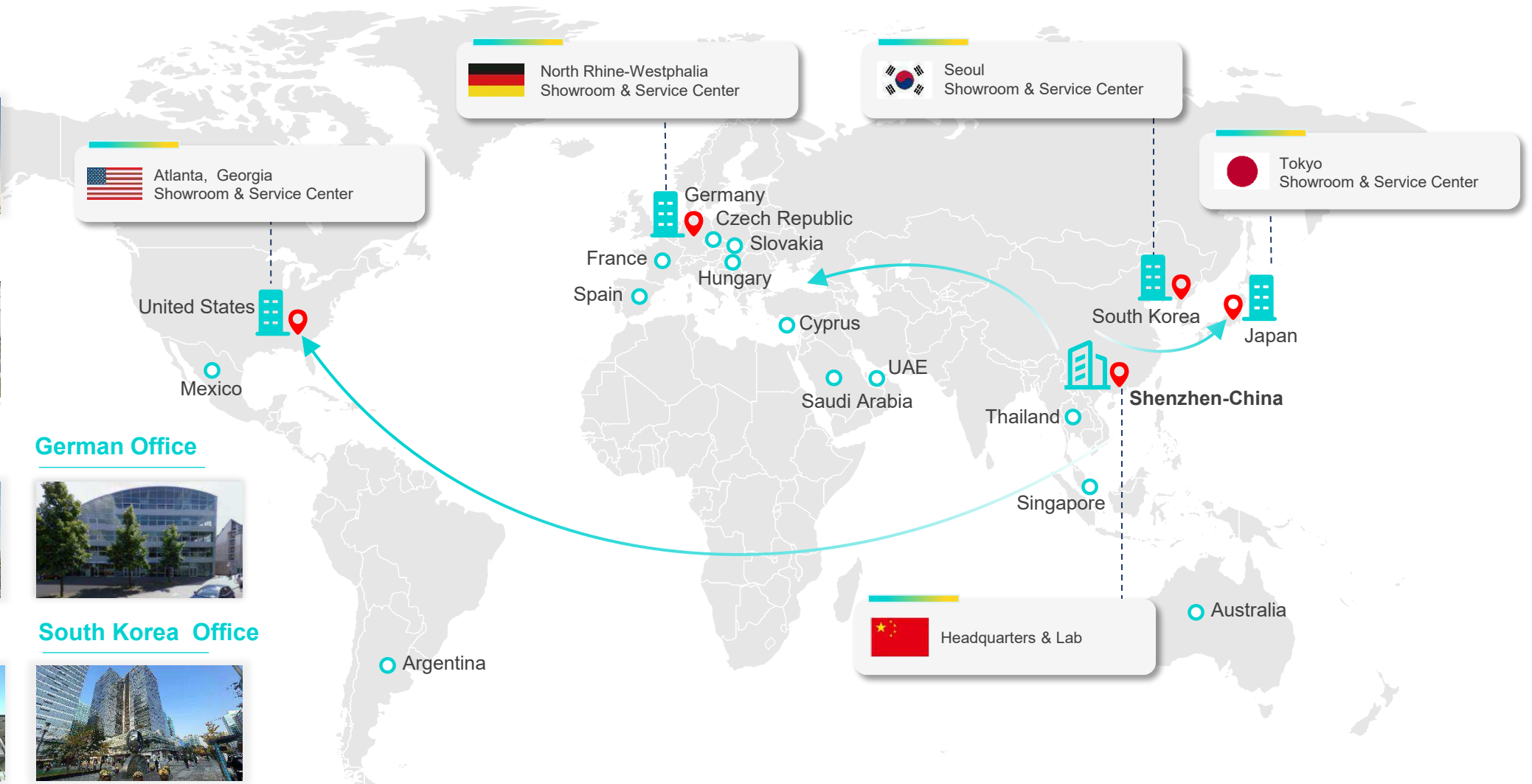
Japanese Office



German Office

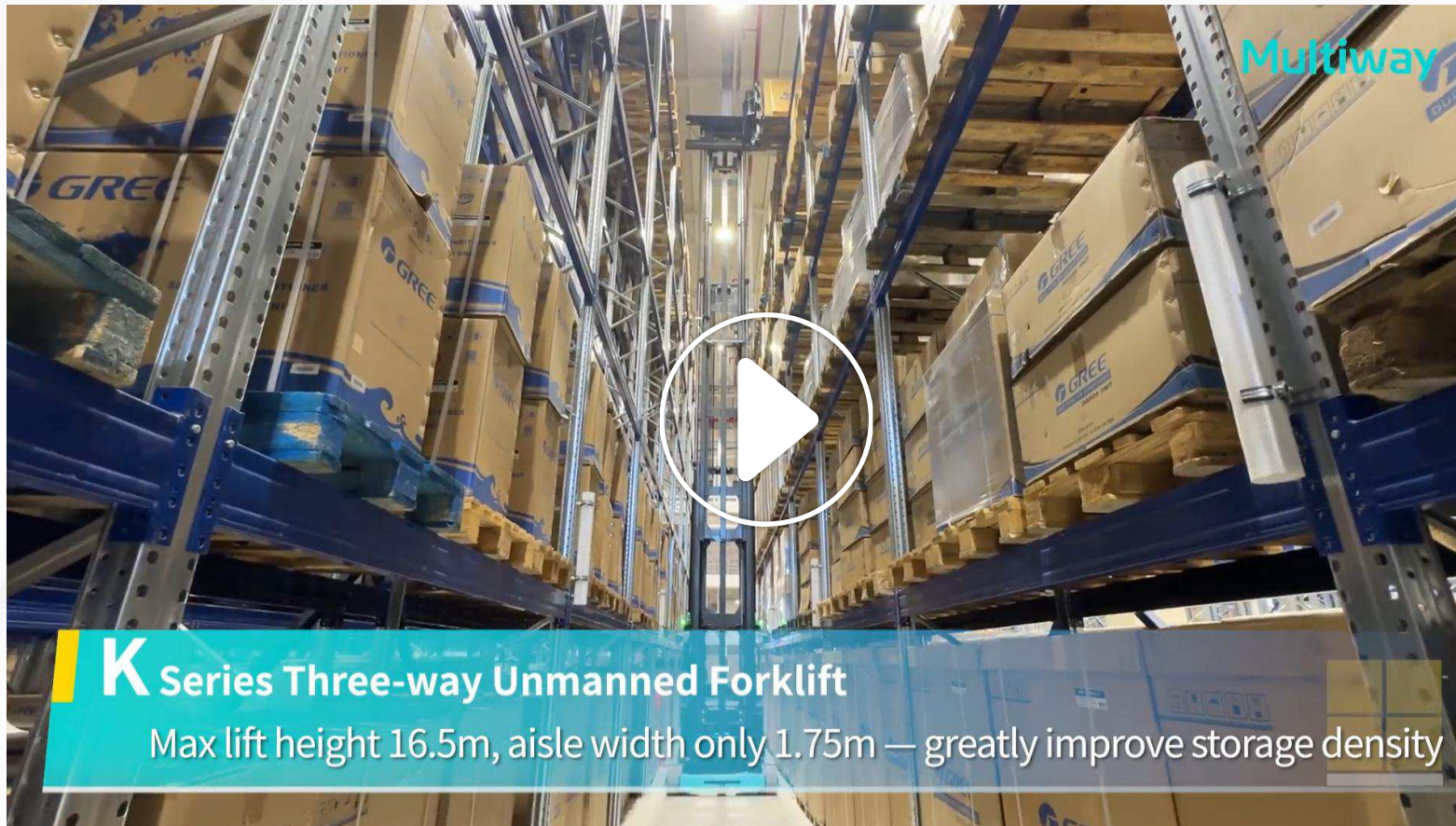


South Korea Office



About Multiway Robotics

[Watch Video](#)



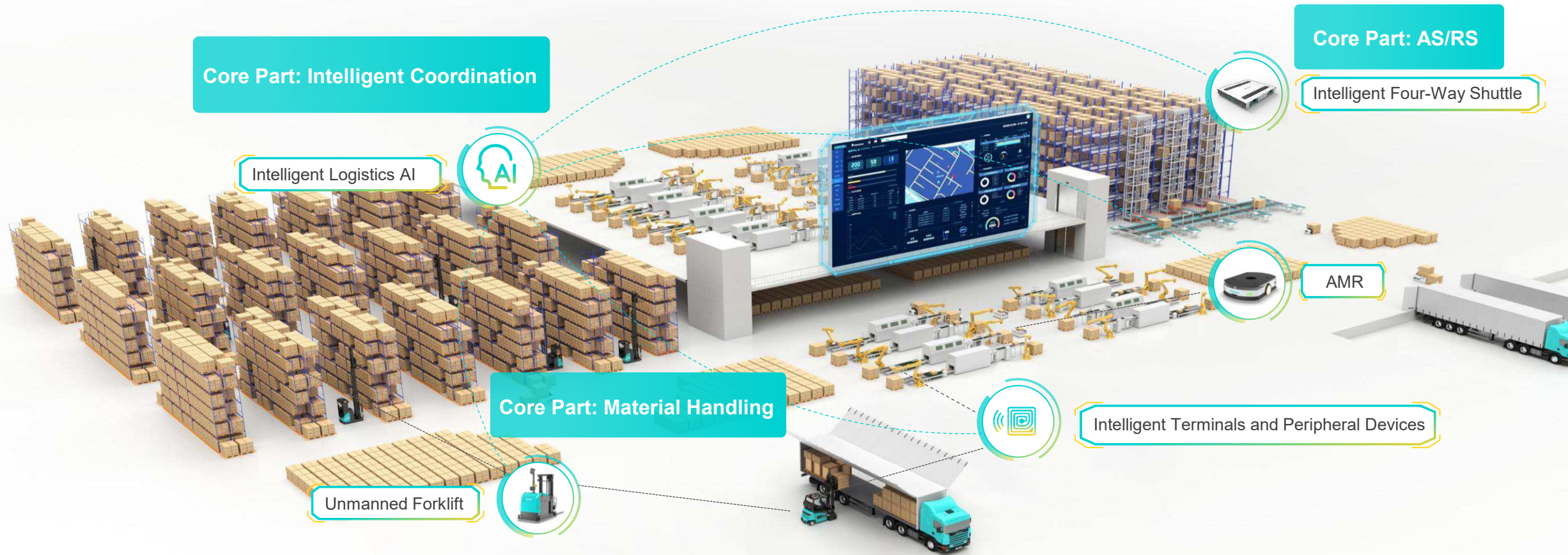
K Series Three-way Unmanned Forklift

Max lift height 16.5m, aisle width only 1.75m — greatly improve storage density

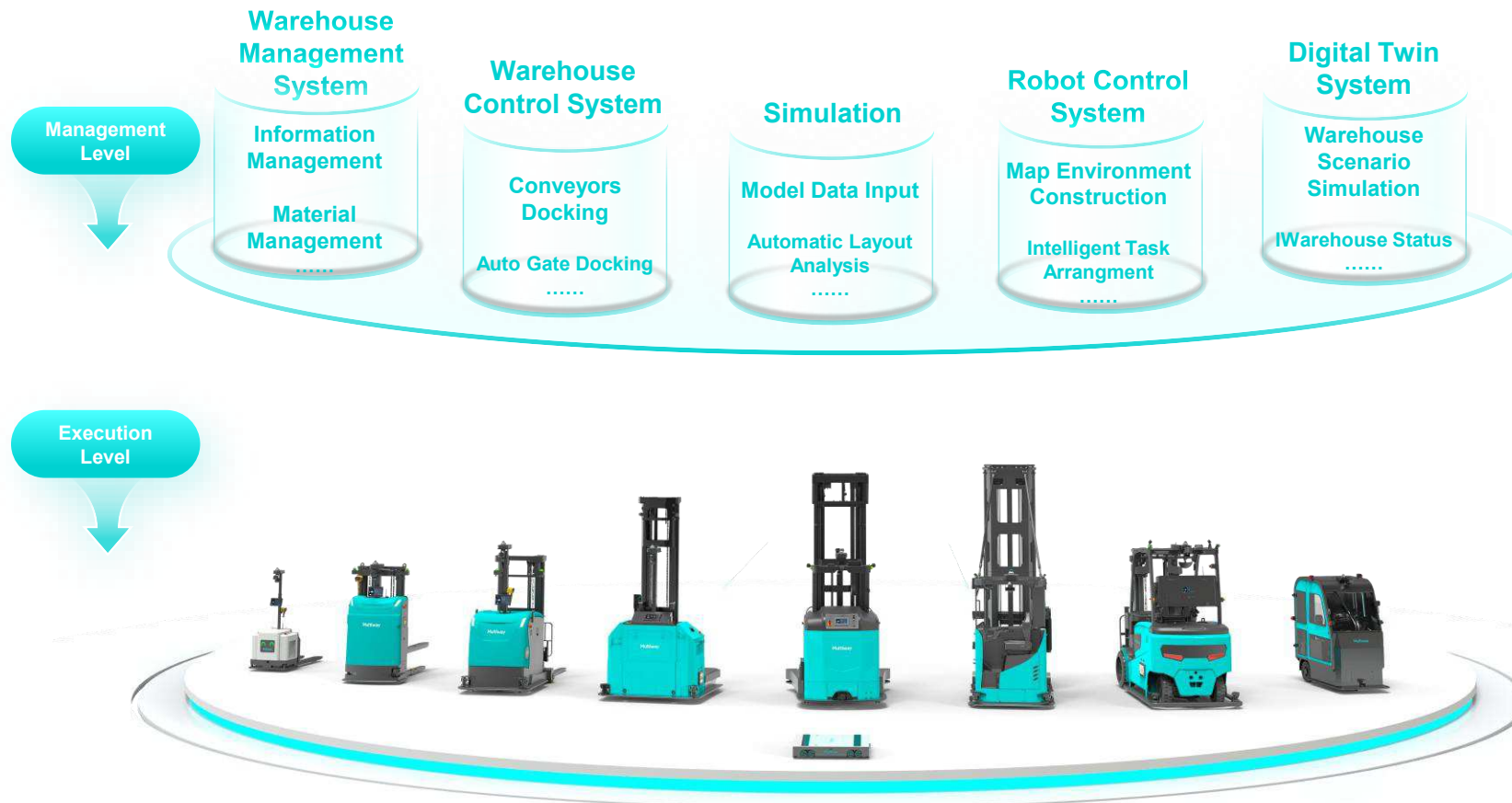
More than 1000
benchmark projects
successfully implemented

Among these customers, more than 40% are well-known companies, including Fortune 500 companies, China's top 500 companies, and industry leaders.

Full-Scenario Intelligent Intralogistics Solutions



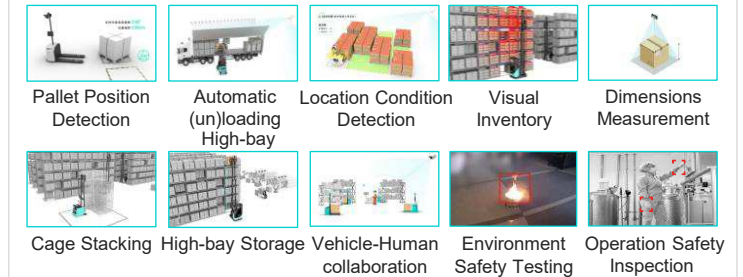
Complete Software Ecosystem for Digitalization and Intelligent O&M (Operations & Maintenance)



Self-developed WMS/WCS

- Covering the entire production process including logistics management, warehouse management, quality inspection, etc.
- Closed-loop of on-site logistics, information flow and decision flow
- Flexible connection with customers' existing systems and equipment to provide incremental value (providing standard interfaces)

Vision Systems



Module-independent on-board System



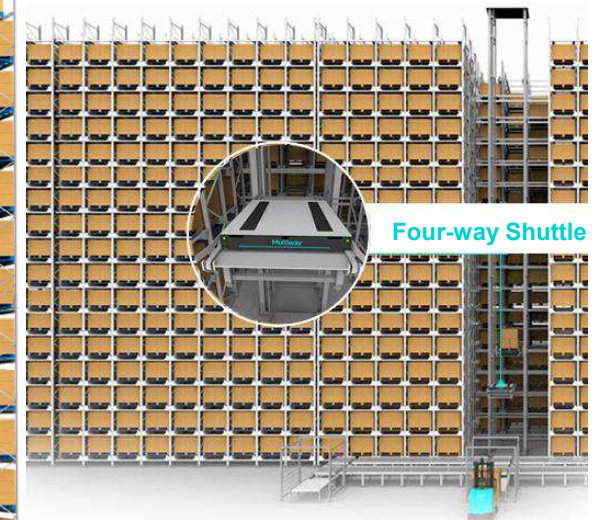
All Categories Product Matrix

Staying innovative, Multiway has developed all categories of intralogistics products, including unmanned forklifts, AMRs and tow tractors.

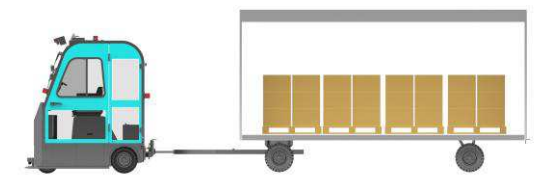


Autonomous Handling & Storage Solutions

AMR forklifts are used in scenarios such as transportation outside the warehouse and docking between ASRS warehouses to ensure the smooth movement of materials & information between different processes, and achieve the intelligent flow of the entire factory intralogistics.



Pallet Type:	Omnidirectional Pallet Truck	Pallet Truck	Pallet Stacker	Counterbalanced Forklift	Counterbalanced Forklift	Sideloader	Reach Truck R	VNA Truck
open	OT10	X20/X20S	MW-SL14/16/20	MW-SE15/20/30	MW-E30/35/40	MW-O15/20/30 40/50/80	MW-R16S/R20S R16/20/25	MW-K16
closed								



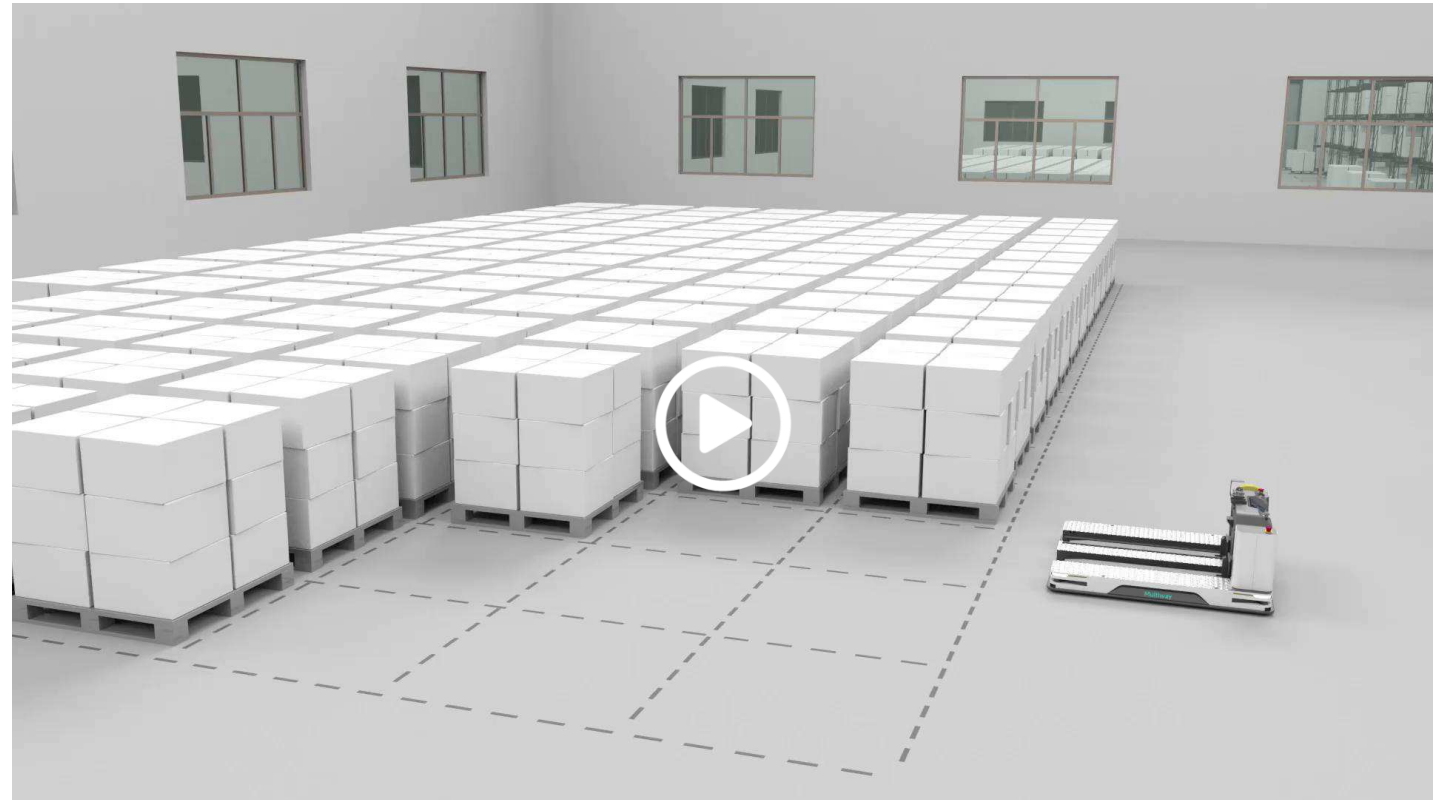
AGV Tow Tractor

OT10 Omnidirectional Autonomous Pallet Truck

360° Omnidirectional Movement for Efficient Operation in 1,900 mm Narrow Aisles.

3D SLAM Navigation, Compatible with Standard Pallets and Custom Load Carriers.

OT10



WeFront X20

Light weight design, low ground-bearing requirement, highly efficient elevator floor changeover, suitable to extremely narrow aisles, and significantly improved space utilization

Fast, flexible, and modular deployment

X20



WeFront X20S

A pioneer pallet truck that can be fully compatible with pallets of different specifications including 4-way pallets, 2-way pallets, and POD pallets in the industry

X20S



Multiway $\alpha 2$

Industry first patent exclusive

One Time, 2 Pallets

Faster Speed, Higher Efficiency



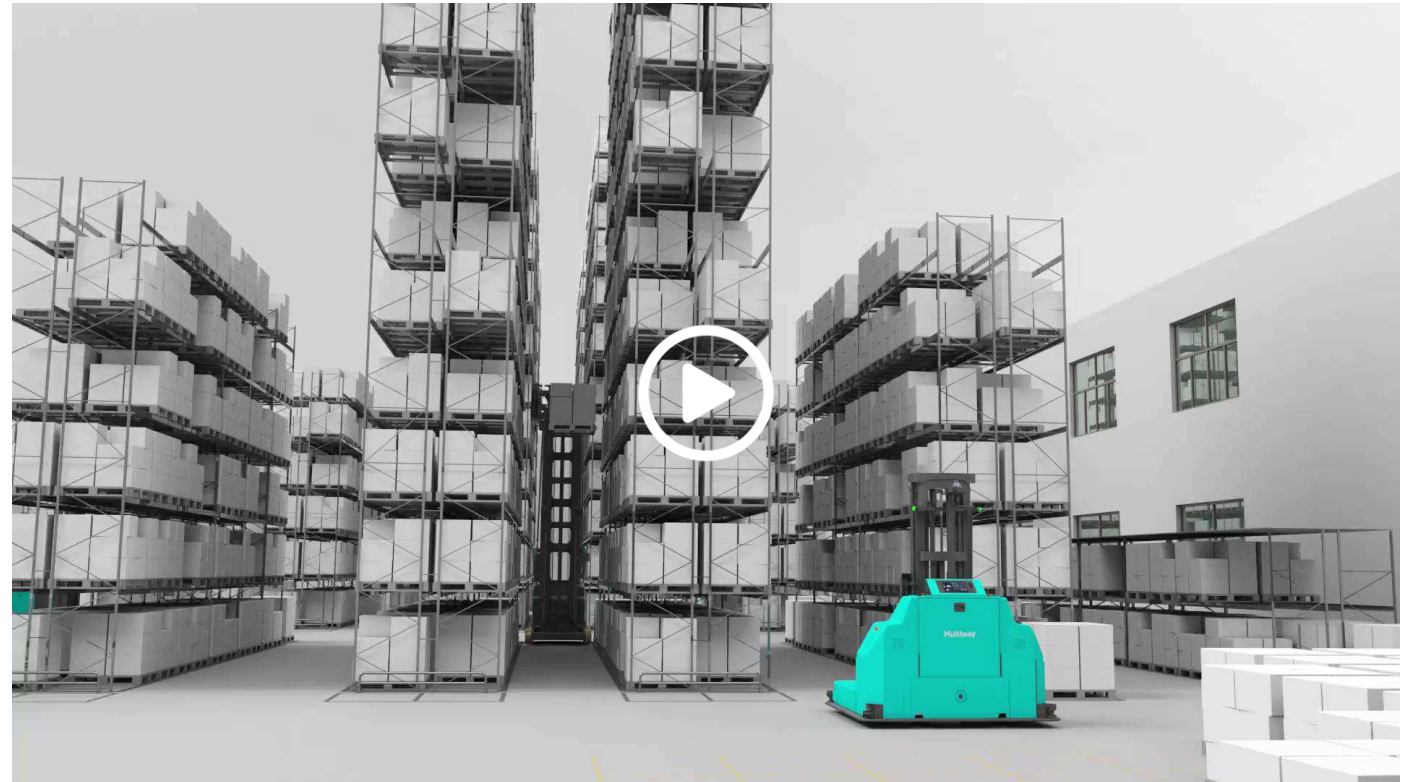
O Series Omni-directional Side-loading Autonomous Forklift

Load capacity up to **8 tons**

360° rotation, right-angle turning, and precise handling in narrow aisles

Standardized end-vision system for visual cargo alignment and placement space detection

Effortless Handling of Heavy and Long Loads



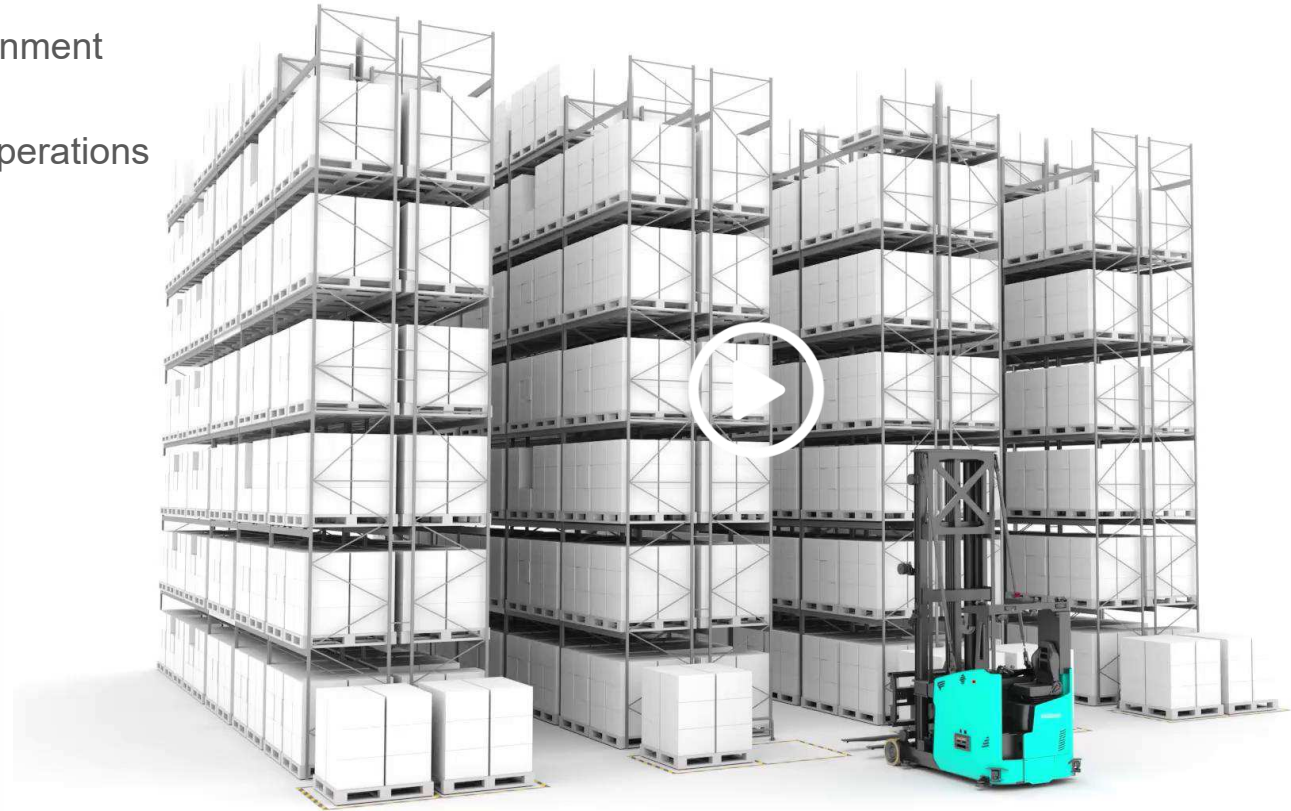
K Series Three-way Unmanned Forklift

Lifting height up to **16.5 m**

Minimum aisle width: **1.75 m**

Standardized end-vision system for visual cargo alignment and placement space detection

Setting the Standard for Narrow-Aisle & High-Bay Operations



R Series Reach Truck Unmanned Forklift

Maximum lift height up to 10m

Standardized end-vision system for visual cargo alignment and placement space detection



Q Series Tail Compartment Loading Unmanned Forklift

Compatible with wing vans, flatbed trucks, and tail compartment loading; tail ramp support up to 8.5° incline

Zero-gap placement for maximum loading efficiency

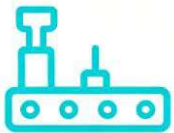


Differential Drive AMR

3D SLAM Navigation, No Infrastructure Modification Required
Supports Lifting and Conveyor Transfer for Flexible Adaptation
to Diverse Logistics Scenarios

1000kg

Applications



Production Line Delivery



Workstation Transfer



Warehouse Handling



Automated Loading & Unloading



Conveyor AMR

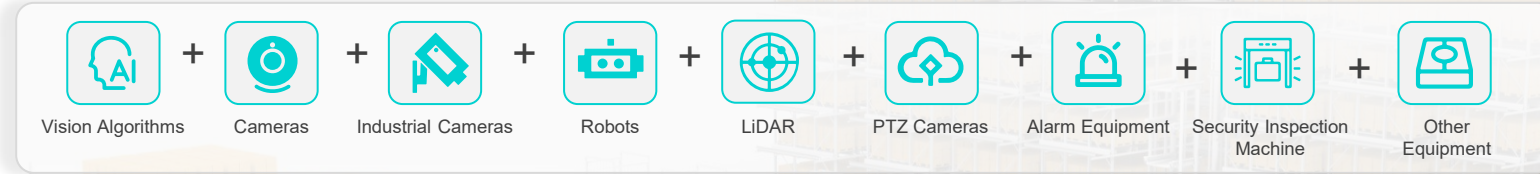
Automated Conveyor Docking



Lifting AMR

Automated Lift-and-Transport Handling

Vision System Multiway Horizons



Visual Inventory
 AI object detection
 Calculation of full-pallet cargo quantity

High-bay Storage
 Cargo unloading space detection
 High-precision cargo picking and placing

Cargo Information Recognition
 Barcode recognition & Color recognition
 Overload detection & Diameter measurement
 Width * Height measurement & Contour detection

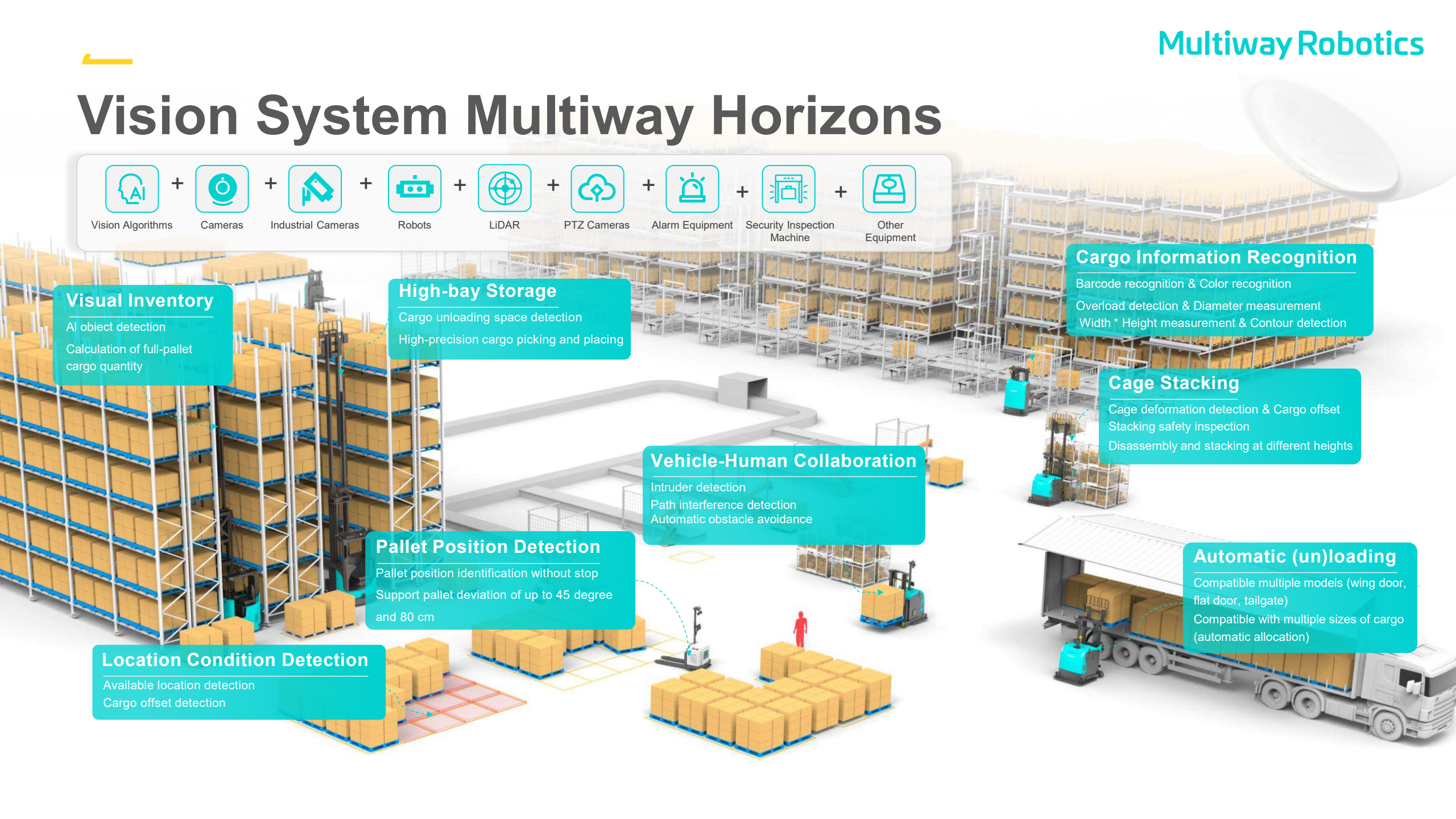
Cage Stacking
 Cage deformation detection & Cargo offset
 Stacking safety inspection
 Disassembly and stacking at different heights

Vehicle-Human Collaboration
 Intruder detection
 Path interference detection
 Automatic obstacle avoidance

Pallet Position Detection
 Pallet position identification without stop
 Support pallet deviation of up to 45 degree and 80 cm

Location Condition Detection
 Available location detection
 Cargo offset detection

Automatic (un)loading
 Compatible multiple models (wing door, flat door, tailgate)
 Compatible with multiple sizes of cargo (automatic allocation)



Multiway Warehouse Management System MW WMS

Multiway Warehouse Management System enables inventory data management, task management, location management, intelligent report management, and monitoring health status of warehouse equipment. It creates a transparent and convenient warehouse management system, breaking the "black box" status of inventory assets, and provides real-time visibility into inventory and cost occupancy information.

Information Management	Material Management	Vehicle Management
3D DigitalTwin	Statistics	Entry
Quality Control	Inventory Management	Inventory Counting
Delivery	Standard Interfaces	

The screenshot displays the Multiway WMS interface. At the top, there is a navigation bar with options: Home, Task, Inbound Management, Outbound Management, and Production Line Management. Below this, a secondary bar shows task types: Batch bind, Batch unbind, Batch call container, and Container carry. The main area features a grid of warehouse locations, each represented by a small icon (e.g., pallet, container, or empty space) and a unique ID. A large play button icon is overlaid on the grid. A context menu is open over one of the locations, listing actions: Cargo binding, Cargo removal, Container carry, Call container, Apply for storage, and Detail. At the bottom, a text box states: "Task Creation: Supports Point-to-Point, Point-to-Zone, and Container Call operations, along with batch operations for various tasks or material controls."

Multiway Robot Control System - MW RCS

Multiway Robot Control System can simultaneously support the collaborative operation of hundreds of vehicles of different models in the same area. It can quickly plan the optimal routes and achieve the overall optimal navigation route planning, thereby completing tasks in the shortest possible time and ensuring the highest operational efficiency.

Map Environment
Construction

Intelligent Task
Arrangement

Optimal Path Planning

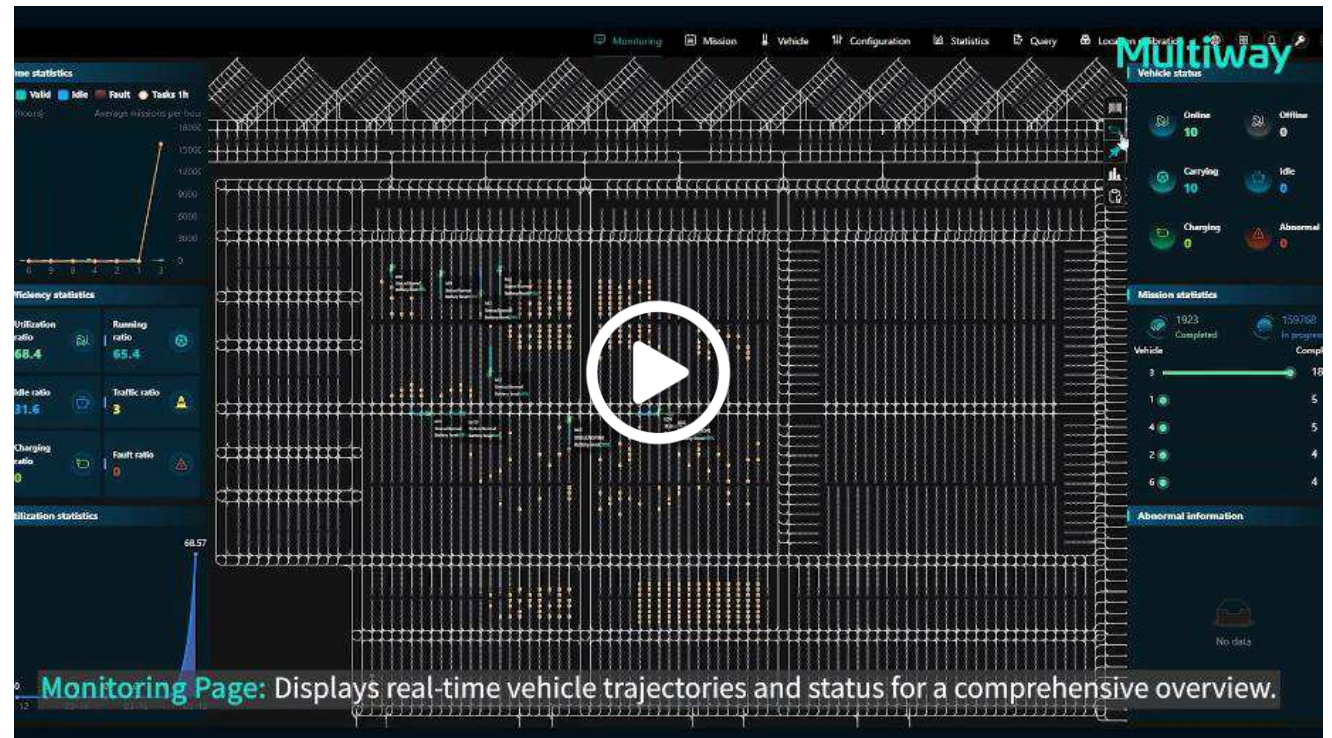
Equipment Monitoring
and Management

Oncoming Lane
Mitigation

Auto Charge
Management

Intelligent Traffic Control
Scheduling

Vehicle
Dispatch Nearby



Multiway Warehouse Control System - MW WCS

Multiway Warehouse Control System integrates the management of robots with elevators, automatic doors, conveyors, rollers, robotic arms, and other devices. It connects the system's functional control panels and data centers to enable unified management of all devices and information flows in the entire field.

Conveyors
Docking

Delivery Line
Docking

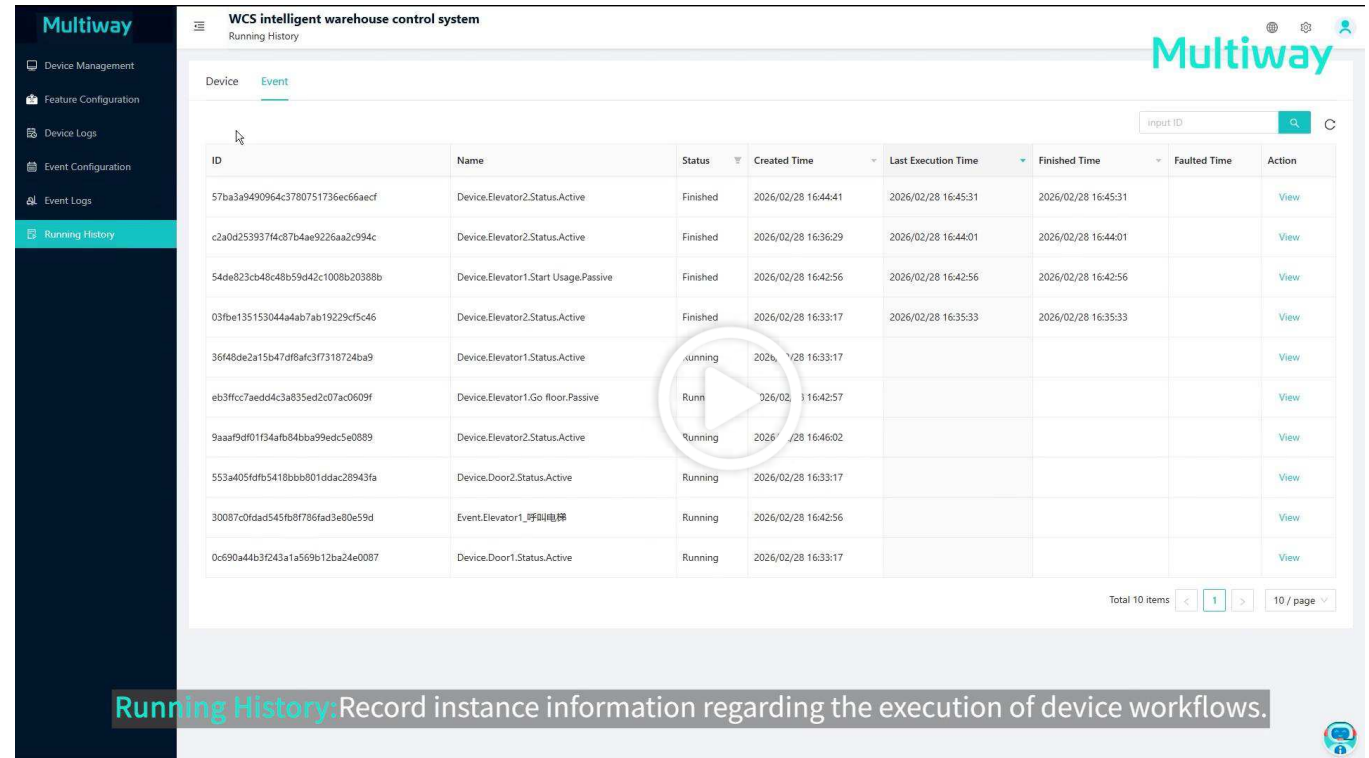
Auto Gate
Docking

Elevator
Docking

Robot Arm
Docking

Other
Equipment

Equipment Maintenance



Multiway WCS intelligent warehouse control system
Running History

Device Event

input ID

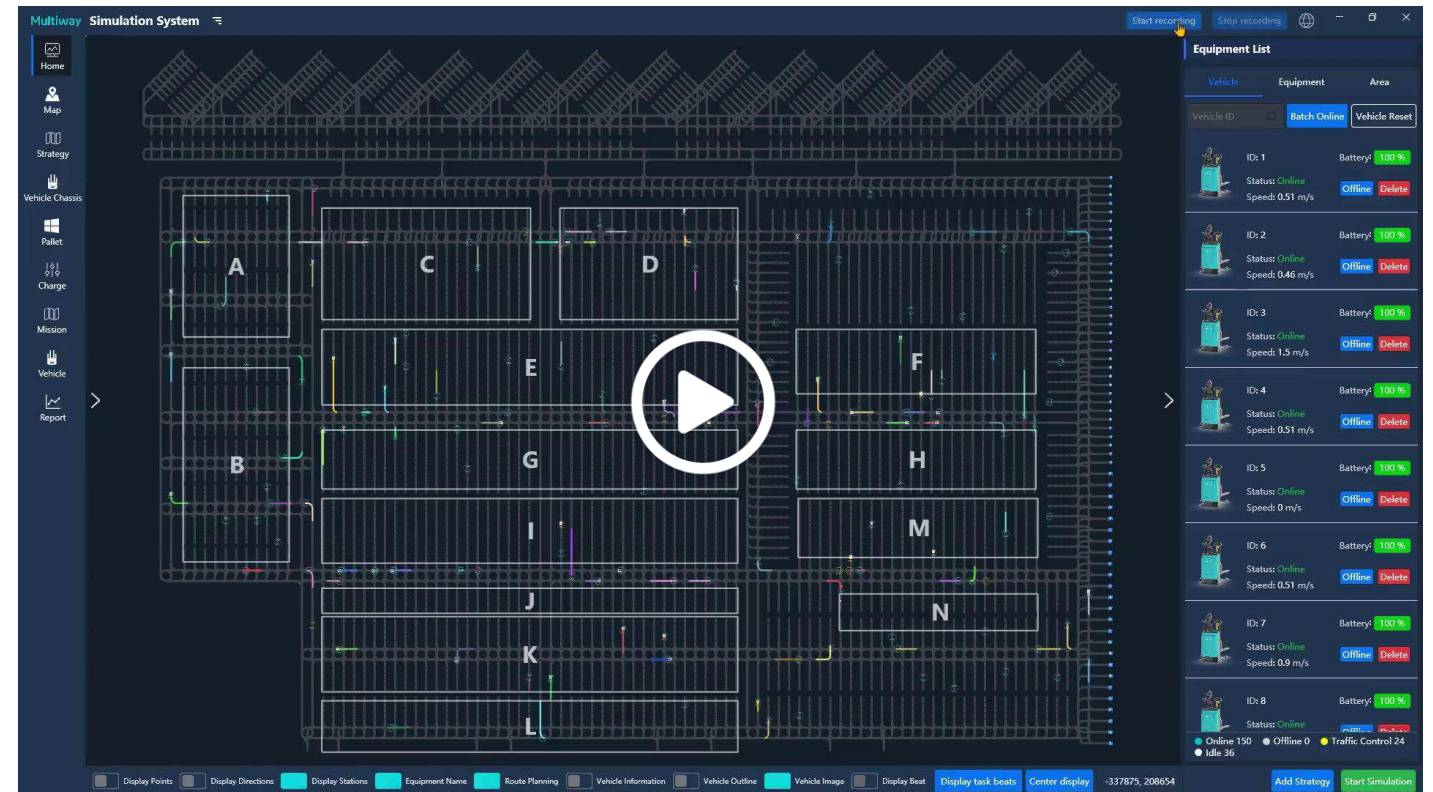
ID	Name	Status	Created Time	Last Execution Time	Finished Time	Faulted Time	Action
57ba3a9490964c3780751736ec66aef	Device.Elevator2.Status.Active	Finished	2026/02/28 16:44:41	2026/02/28 16:45:31	2026/02/28 16:45:31		View
c2a04253937f4c87b4ae9226aa2c994c	Device.Elevator2.Status.Active	Finished	2026/02/28 16:36:29	2026/02/28 16:44:01	2026/02/28 16:44:01		View
54de823cb48c48b59d42c1008b20388b	Device.Elevator1.Start Usage.Passive	Finished	2026/02/28 16:42:56	2026/02/28 16:42:56	2026/02/28 16:42:56		View
03f8e135153044a4ab7ab19229cf5c46	Device.Elevator2.Status.Active	Finished	2026/02/28 16:33:17	2026/02/28 16:35:33	2026/02/28 16:35:33		View
36f48de2a15b47df8afc3f7318724ba9	Device.Elevator1.Status.Active	Running	2026/02/28 16:33:17				View
eb3fcc7aed4c3a835ed2c07ac0609f	Device.Elevator1.Go floor.Passive	Running	2026/02/28 16:42:57				View
9aaaf9df01134afb84bba99edc5e0889	Device.Elevator2.Status.Active	Running	2026/02/28 16:46:02				View
553a405f8b5418bb801ddac28943fa	Device.Door2.Status.Active	Running	2026/02/28 16:33:17				View
30087c0daad545f68f786fad3e80e59d	Event.Elevator1.呼叫电梯	Running	2026/02/28 16:42:56				View
0cc90a44b3f243a1a569b12ba24e0087	Device.Door1.Status.Active	Running	2026/02/28 16:33:17				View

Total 10 items 10 / page

Running History: Record instance information regarding the execution of device workflows.

Multiway Simulation

The simulation system combines simulation modeling with robots. It supports traffic simulation of hundreds of vehicles under different scenarios, conducts simulation experiments on robot kinematics, dynamics, and trajectory planning algorithms, which enhances the theoretical analysis and design capabilities of robots, including concept design, product selection, offline programming, collision detection, and more, not only shortens production delivery time, but avoids unnecessary rework.



Model Data Input

Automatic Layout
Analysis

Collision Possibility
Detection

Automatic Path
Generation

Remote On-line
Commissioning

Machine Action
Simulation

Robot Safety Protection

Acoustic + Vision + Physical + Environmental 360° Protection.

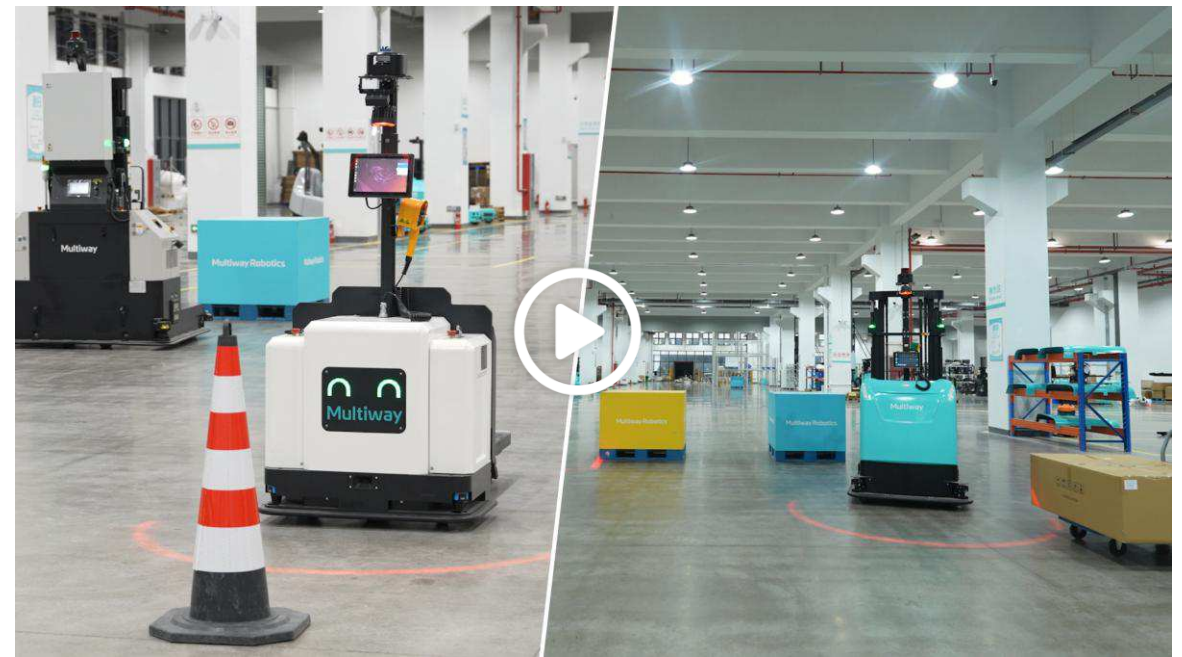
Point Cloud Obstacle Avoidance

The forward simulation algorithm can measure the distance to obstacles, autonomously plan the moving speed, ensure the vehicle accelerates and decelerates smoothly without sudden changes in speed.



Autonomous Obstacle Avoidance

Leveraging AI algorithms and multi-sensor fusion, the product achieves intelligent obstacle avoidance across scenarios involving single, continuous, and dynamic obstacles, ensuring an optimal balance between efficiency and safety.



Note: SE15 is shown as an example. The quantity of LiDARs and safety devices may vary by model. Please refer to the actual product specifications.

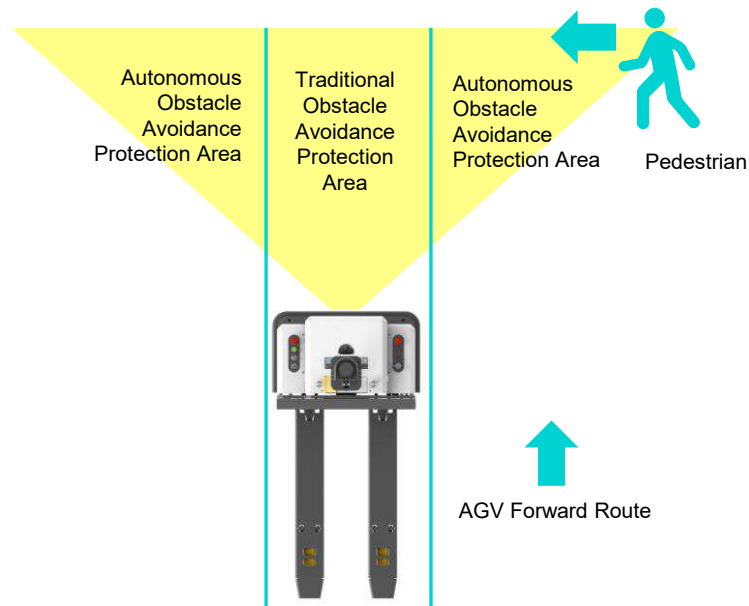
Note: Performance subject to verification in actual operating scenarios.

Robot Safety Protection

Vehicle Safety Precautions

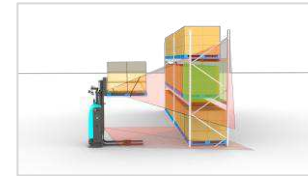
The vehicle-mounted 3D LiDAR can achieve:

1. Identify obstacle types, such as pedestrians, cargo, manual forklifts, AMR forklifts etc.
2. Predict the trajectory of dynamic obstacles in real time to provide decision data for the obstacle avoidance system
3. Intelligent safety decision-making, dynamically decide the safest obstacle avoidance action based on the type of obstacle and trajectory prediction information.



Autonomous Forklift Safety Precautions

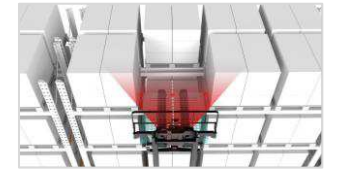
Placement Safety



Placement Location Detection



Placement Space Detection



Mast Tilt Detection

Pickup Safety







Pickup Correction















Mast Tilt Detection

Awards, Certifications, and Media Coverage

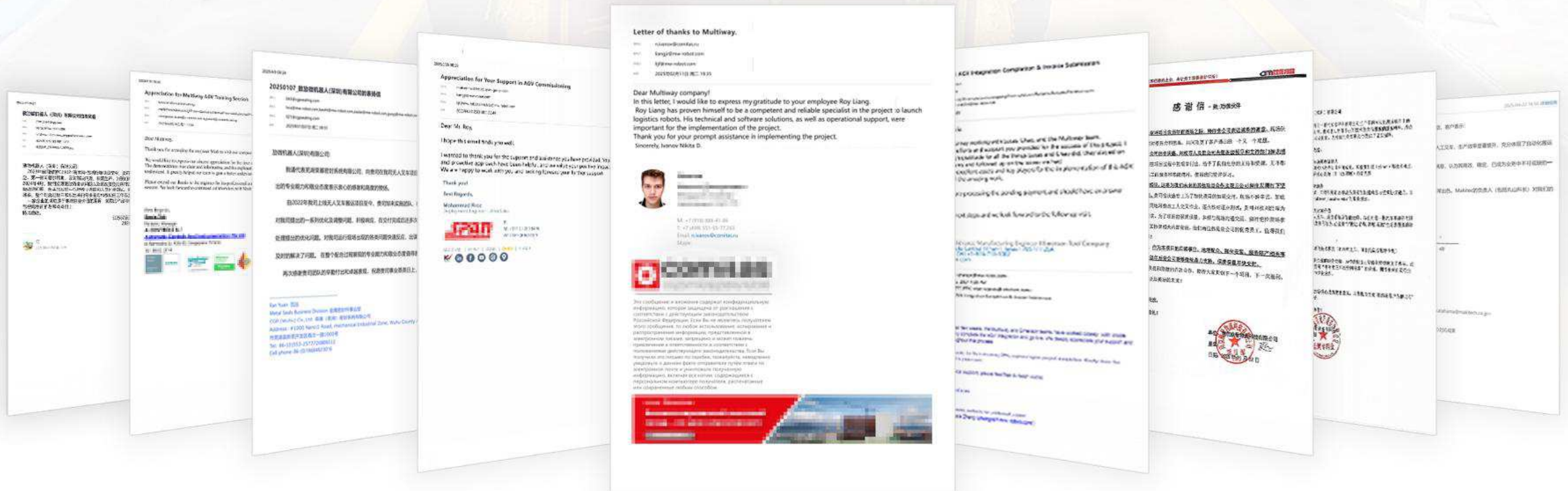
 <p>CE Certification</p>	 <p>UL Certification (USA)</p>	 <p>KC Certification (Korea)</p>	 <p>Main "Little Giant"</p>	 <p>National High-Tech Enterprise</p>
 <p>ISO 9001 Certified</p>	 <p>Enterprise Intellectual Property Management System Certification</p>	 <p>Occupational Health and Safety Management System Certification</p>	 <p>Environmental Management System Certification</p>	 <p>ISO 27001 Certified</p>

 <p>German Reddot Product Design Award</p>	 <p>FRENCH DESIGN AWARD French Design Award</p>
 <p>Selected as the Most Noteworthy AGV Company in the World</p>	 <p>The 11th LT China Logistics Innovation Product Award</p>

Internationally recognized media coverage

 <p>Apnews</p>	 <p>Businessinsider</p>	 <p>Marketwatch</p>	 <p>finanznachrichten.de</p>	 <p>Yahoo</p>	 <p>Theglobeandmail</p>
 <p>Barchart</p>	 <p>Digitaljournal</p>	 <p>Nationalpost</p>	 <p>Streetinsider</p>	 <p>Financialpost</p>	 <p>CEO</p>

100% project success rate and highly praised by clients worldwide



Letter of thanks to Multiway

roy.liang@multiway.com
liang@multiway.com
liang@multiway.com
2023/05/19 周二 19:25

Dear Multiway company!
In this letter, I would like to express my gratitude to your employee Roy Liang. Roy Liang has proven himself to be a competent and reliable specialist in the project to launch logistics robots. His technical and software solutions, as well as operational support, were important for the implementation of the project.
Thank you for your prompt assistance in implementing the project.
Sincerely, Ivanov Viktor D.



M. +7 7072 228 41 86
T. +7 4965 551 05 77 263
Email: Ivanov.Viktor@mail.ru



Appreciation for Multiway AGV Training Service

Dear Multiway,
Thank you for providing the excellent AGV training service for us. The training service was very professional and helpful, and we have learned a lot from it. It is very helpful for us to use the AGV system. Please send me the AGV system for the implementation of the system. We will be very grateful if you can provide us with the AGV system.

2023/01/07 捷捷机器人(深圳)有限公司感谢信

尊敬的捷捷机器人(深圳)有限公司, 向贵公司在无人叉车项目中提供的专业能力和优质服务表示衷心的感谢。
自2022年我们引入无人叉车项目以来, 贵公司的团队, 对我们的项目提供了一系列技术支持及咨询服务, 并帮助我们, 在项目实施过程中, 处理遇到的各种问题, 对我们的项目提供了极大的帮助和支持, 让我们顺利地完成了项目。在整个项目实施过程中, 贵公司的专业能力和优质服务得到了我们的高度认可和赞赏。我们将继续与贵公司合作, 在业务发展的道路上, 再次感谢贵公司的辛勤工作和卓越表现。祝贵公司事业蒸蒸日上。

Appreciation for Your Support in AGV Commissioning

Dear Mr. Roy,
I would like to thank you for the support and assistance you have provided. The AGV project has been very successful, and we are very happy to work with you. We are looking forward to your future support.
Thank you!
Ivanov Viktor D.
M. +7 7072 228 41 86
T. +7 4965 551 05 77 263
Email: Ivanov.Viktor@mail.ru

AGV Integration Completion & Invoice Submission

Dear Multiway,
We are pleased to inform you that the AGV integration project has been completed successfully. The AGV system is now fully operational and meeting all requirements. We are very satisfied with the results and the support provided by your team. We have submitted the invoice for the project and look forward to receiving payment. Thank you for your excellent service and support.

感谢信 - 吴为德先生

尊敬的吴为德先生, 感谢您一直以来对我们项目的支持和帮助。您的专业知识和丰富经验, 为我们的项目提供了极大的帮助和支持。您的团队在项目实施过程中, 始终保持着高度的责任心和敬业精神, 确保了项目的顺利推进。我们非常欣赏您的工作态度和专业素养, 相信您的团队将继续为我们提供优质的服务。我们将一如既往地与您合作, 共同推动项目的成功。再次感谢您的辛勤工作和卓越表现。祝贵公司事业蒸蒸日上。

AGV Integration Completion & Invoice Submission

Dear Multiway,
We are pleased to inform you that the AGV integration project has been completed successfully. The AGV system is now fully operational and meeting all requirements. We are very satisfied with the results and the support provided by your team. We have submitted the invoice for the project and look forward to receiving payment. Thank you for your excellent service and support.

Cases Studies



Flat-surface Material Handling



Elevator Transfer Between Floors



Conveyor Line Docking



AS/RS Docking



Production Line Docking



High-level Storage at Line-side Warehouse



Long Material Handling



Cage Stacking



High-level Double-deep Picking



High-bay storage



Heavy handling



Unmanned handling



High-level Storage in Narrow Aisles



Four-way shuttle



Park logistics



Food



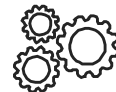
Auto



New Energy



Pharmacy



Machining



Construction Material



Printing and Packaging



Home



Chemical



Clothing

Customer Service



On-site Implementation

Resident Engineer
One-on-One Delivery



Quick Response

Worldwide Coverage
Nearby Response Support



24x7 Customer Service

24H Service Hotline



Process System Support

Weekly Based Delivery
Standardized Delivery Process



Remote Upgrade

Iterating Platform
Remote Upgrade



Professional Training

Classroom and Hands-on Training
Program Management Improvement



Vehicle QR Code Feedback

Real-Time Field Feedback Driving
Continuous Optimization

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Japan · Tokyo | China · Shenzhen

Tel: + 86 133 9286 4873

Email: sales@mw-robot.com

Official website: www.mw-r.com

