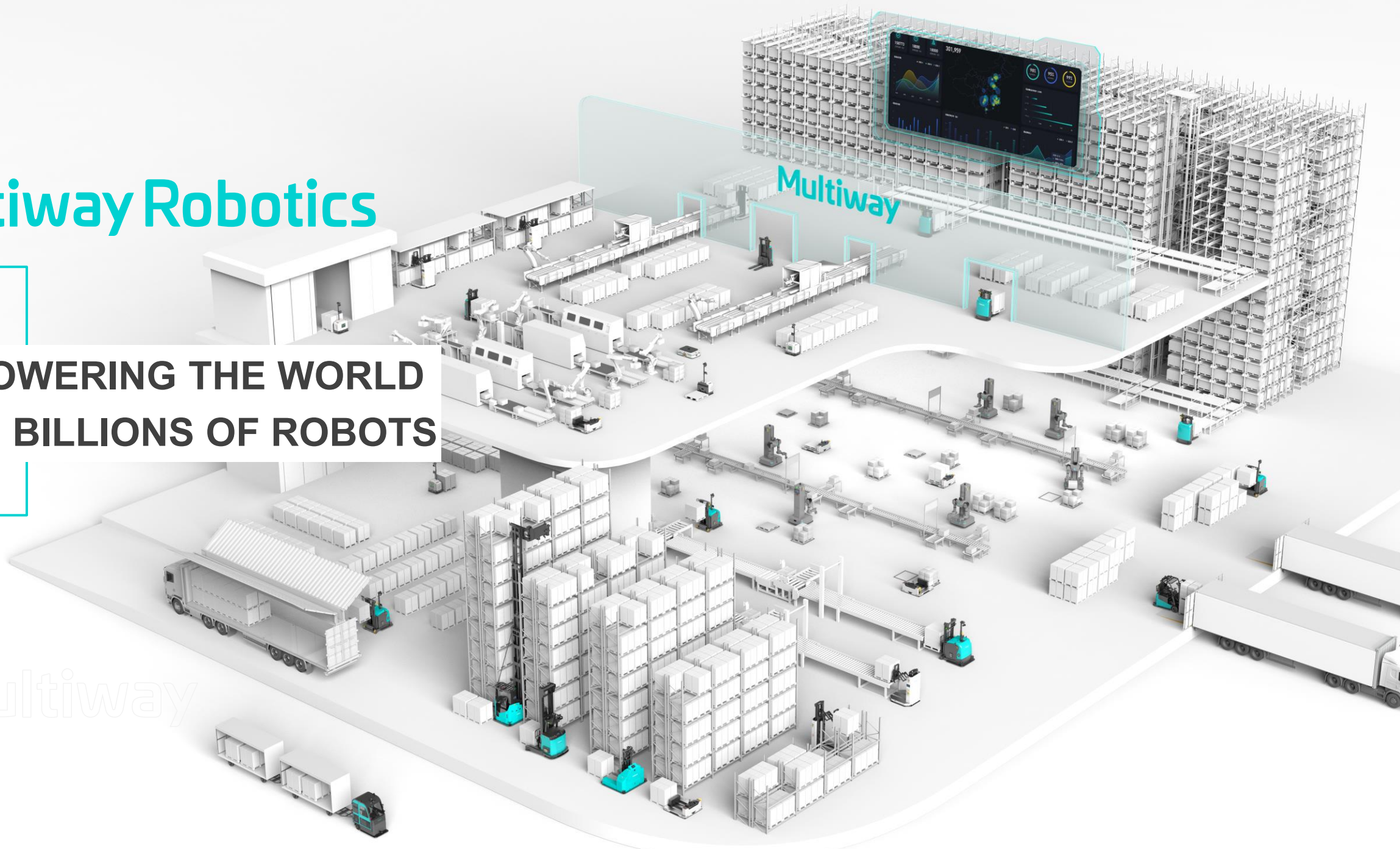


Multiway Robotics



**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



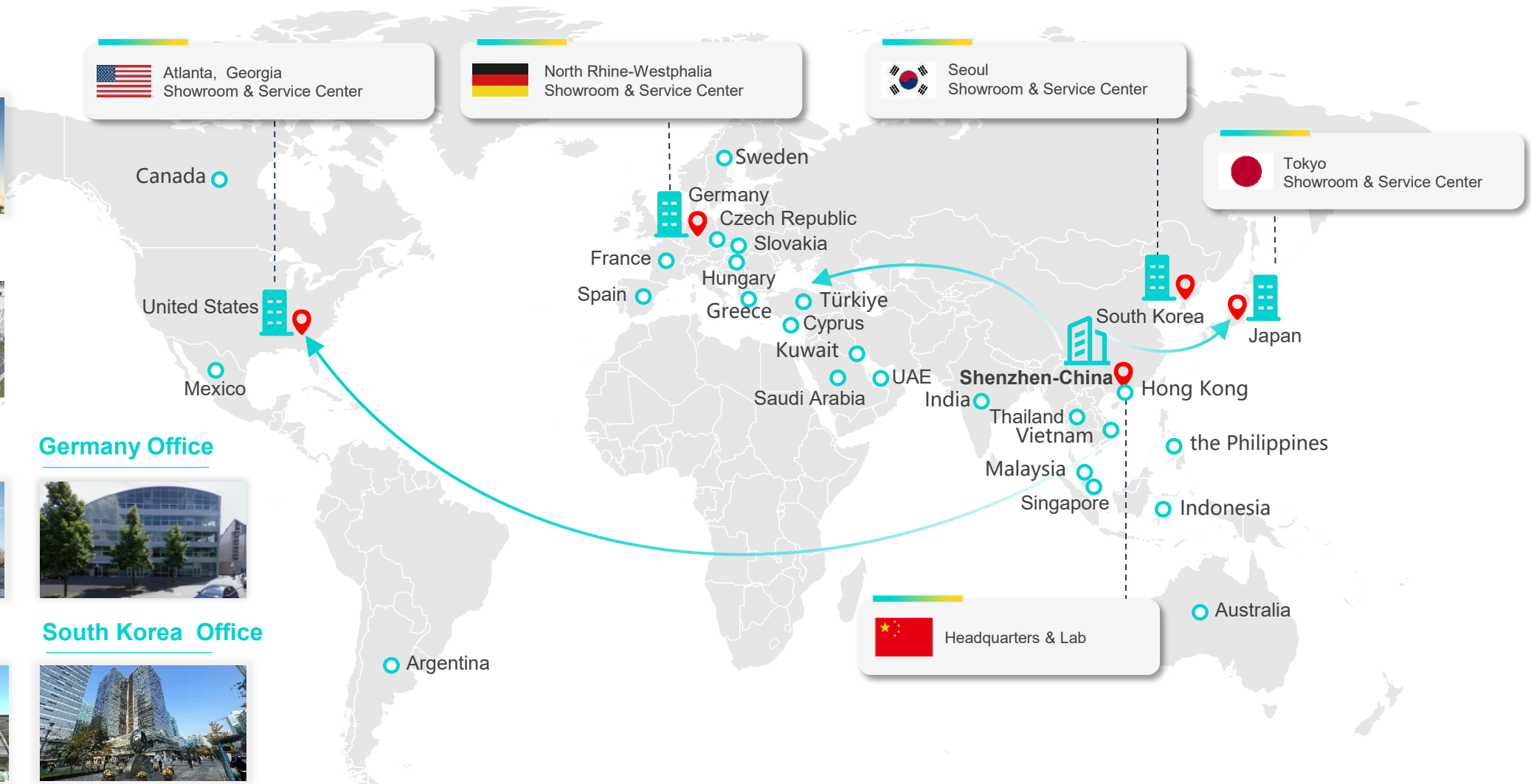
Japan Office



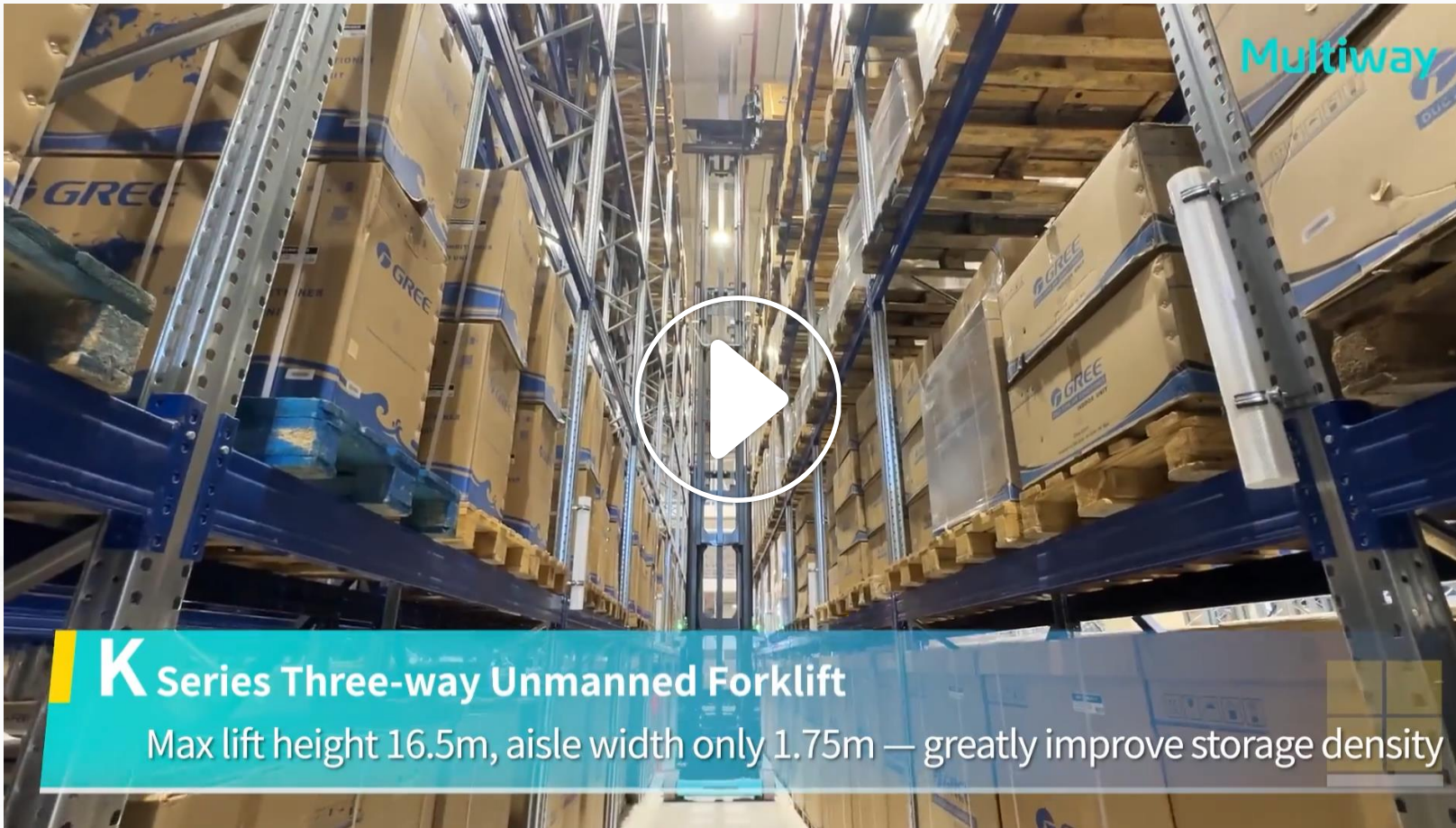
Germany Office



South Korea Office



About Multiway Robotics

[Watch Video](#)

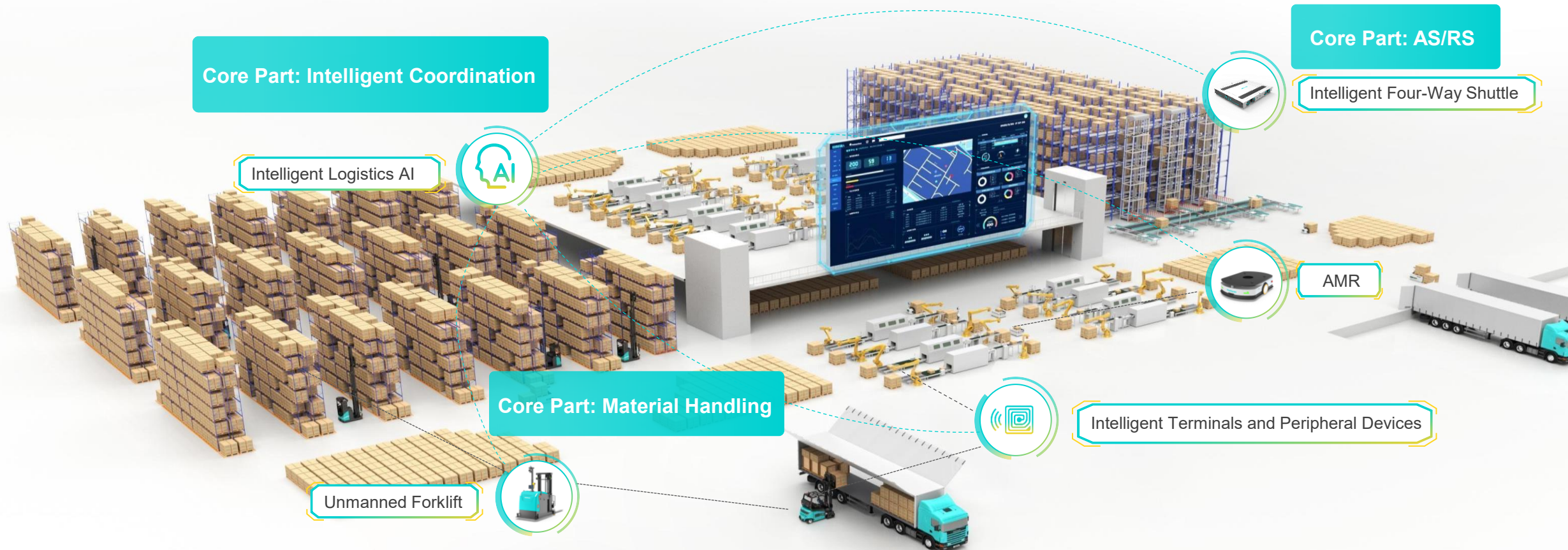
K Series Three-way Unmanned Forklift

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



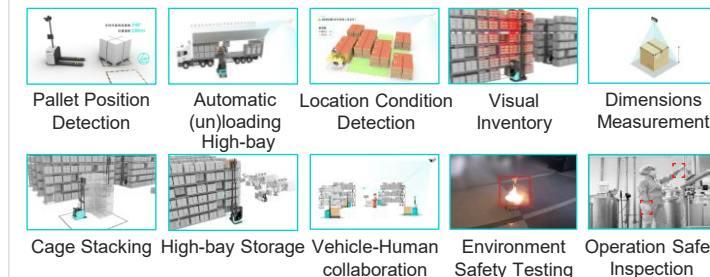
Complete Software Ecosystem for Digitalization and Intelligent O&M (Operations & Maintenance)



• 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

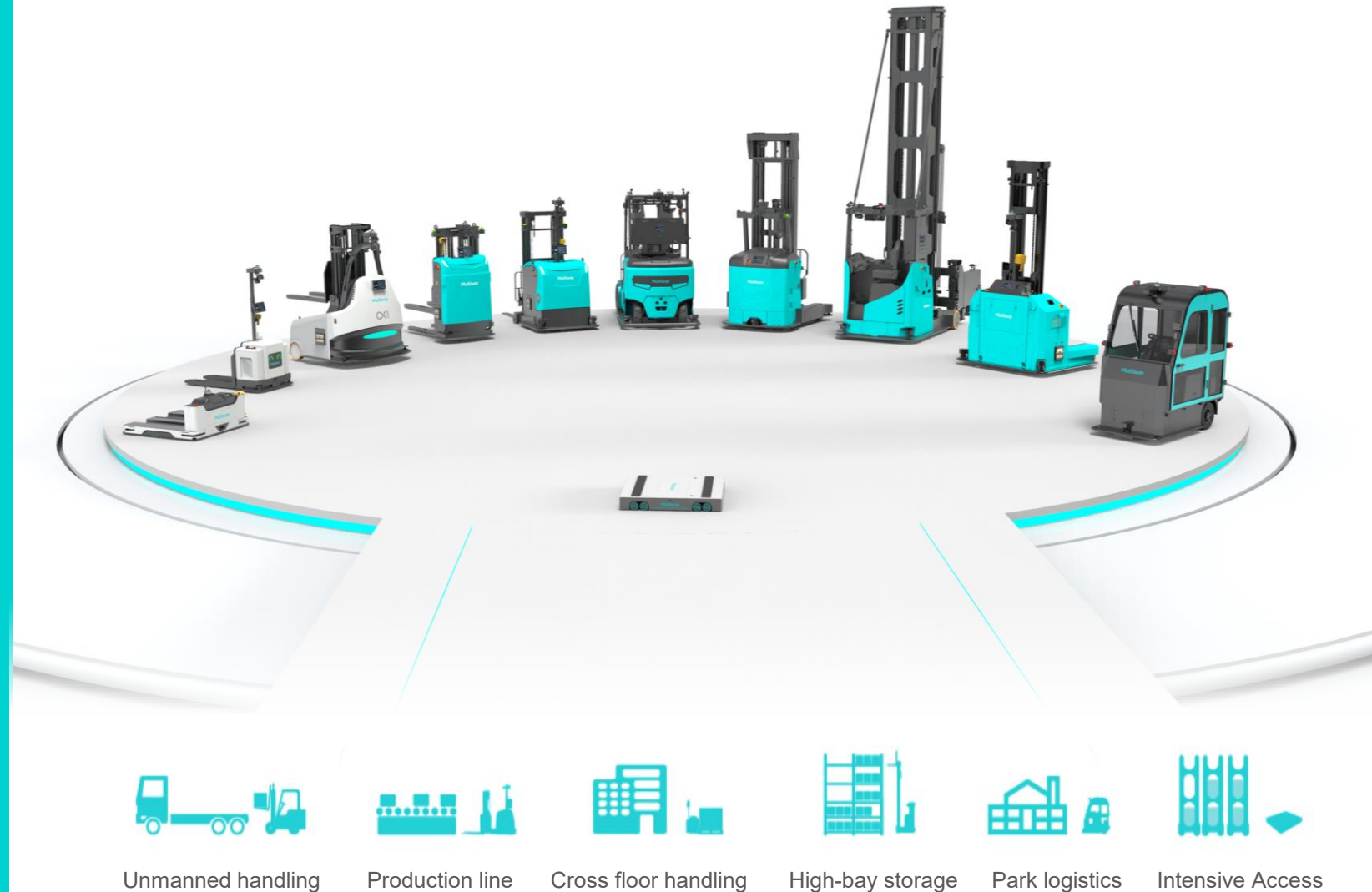


Module-independent on-board System



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.

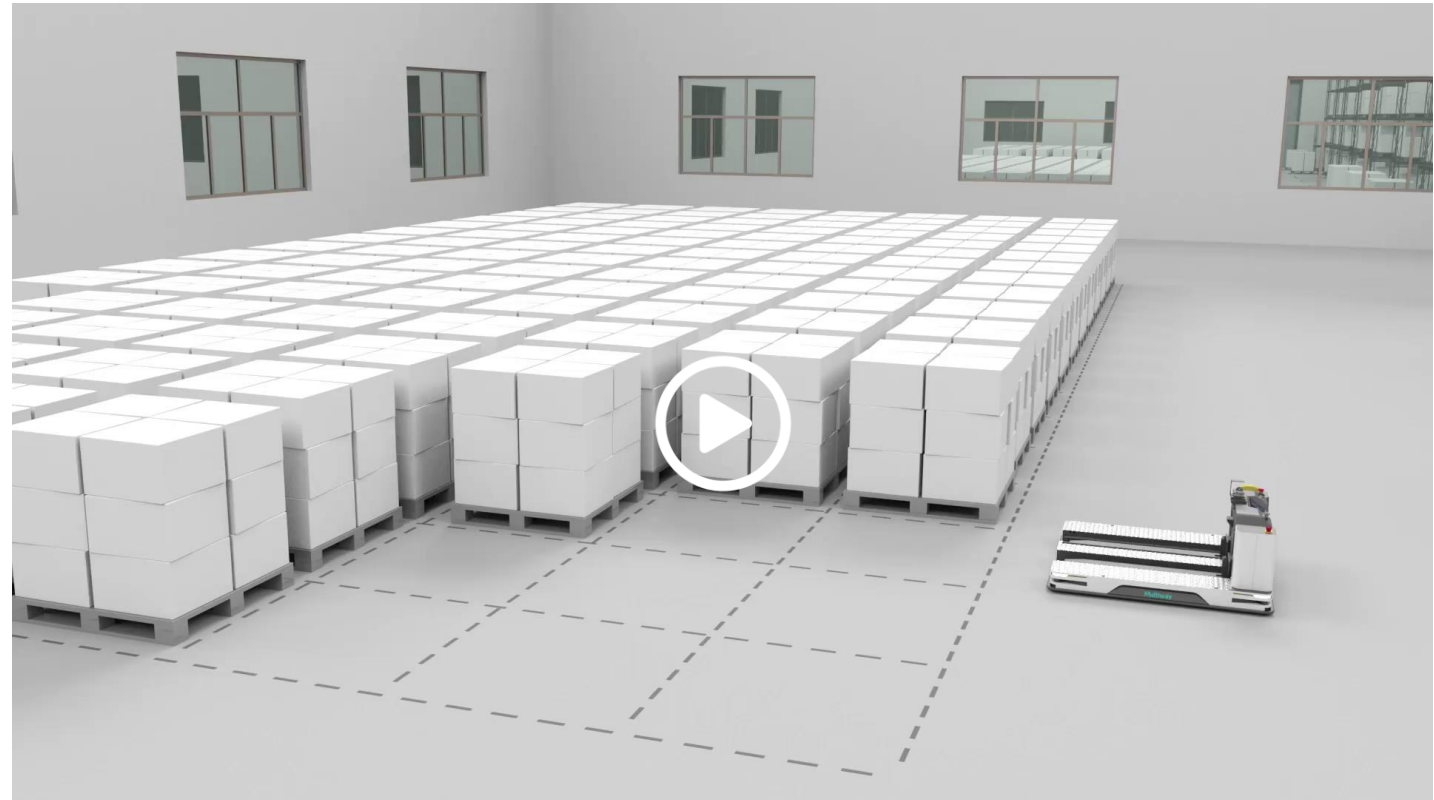
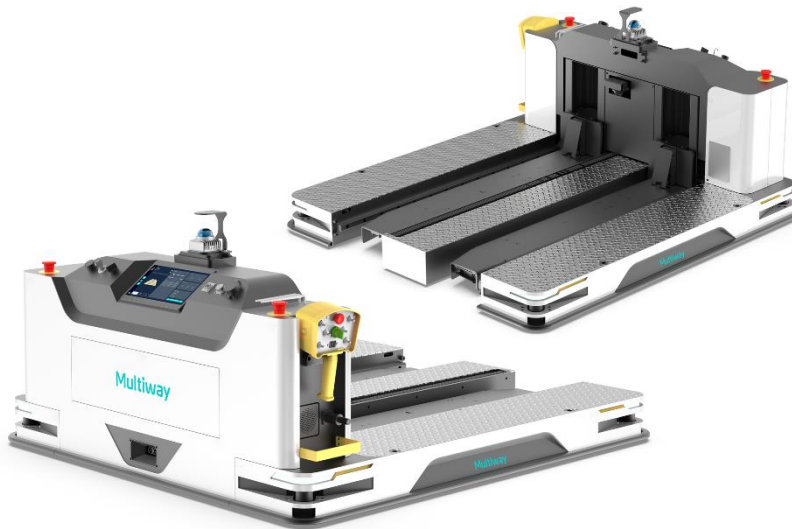


OT15 Omnidirectional Autonomous Pallet Truck

360° Omnidirectional Movement for Efficient Operation in 1,750 mm Narrow Aisles.

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

OT15



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 α2

Industry first patent exclusive

One Time, 2 Pallets

Faster Speed, Higher Efficiency

α2



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



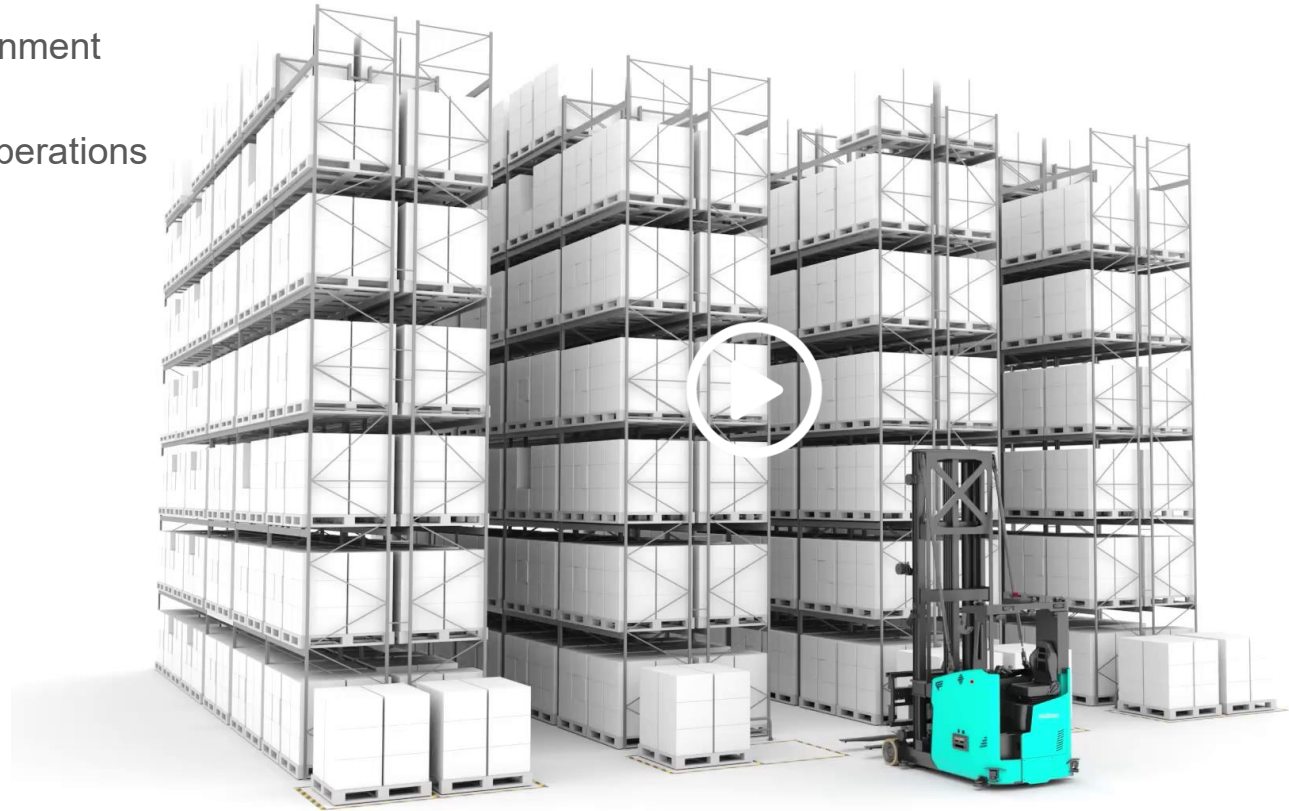
K Series Three-way Unmanned Forklift

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

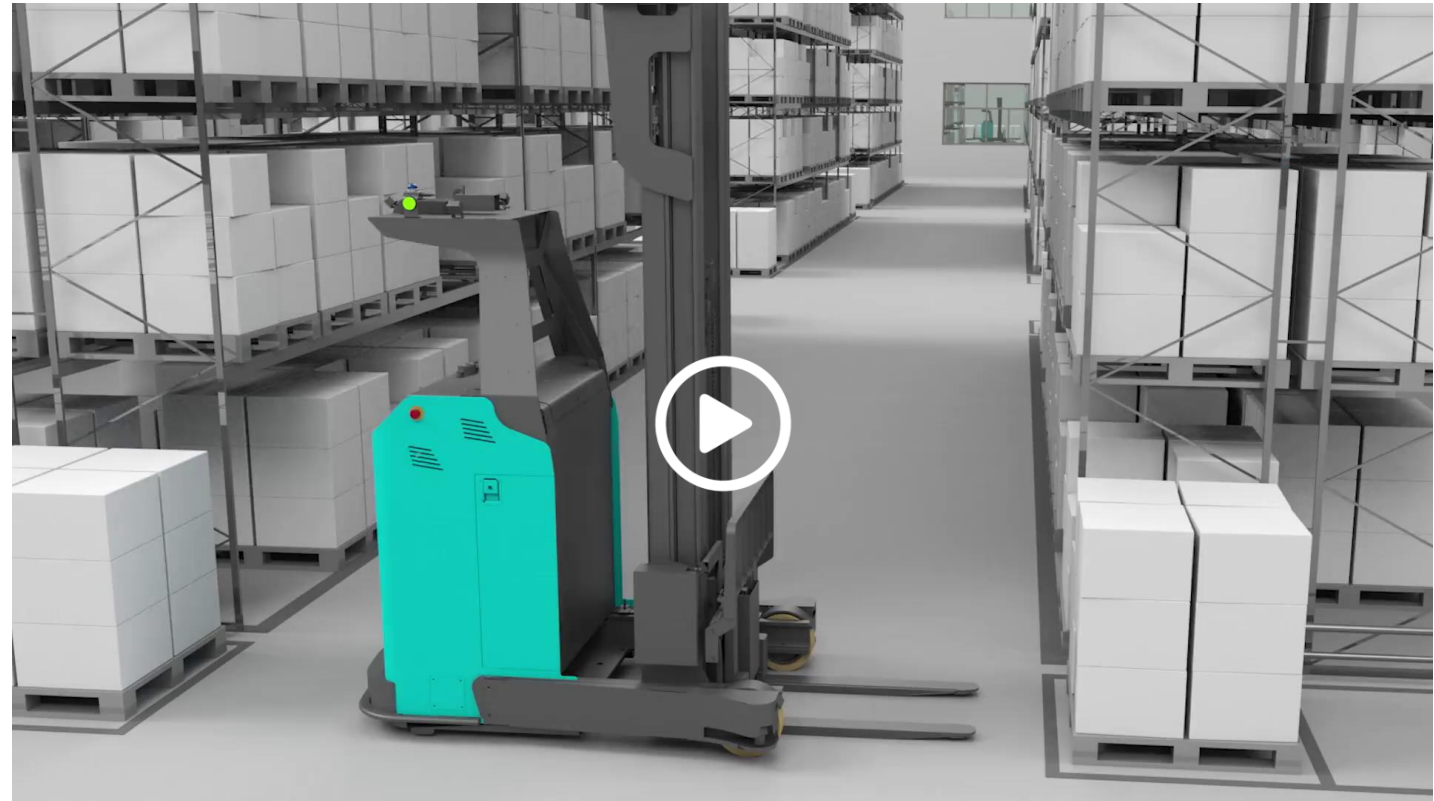
Setting the Standard for Narrow-Aisle & High-Bay Operations



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



SE Series Counterbalance Autonomous Forklift

Autonomous loading and unloading for wing-body trucks and flatbed trucks

Precise stacking of material cages up to 6 levels

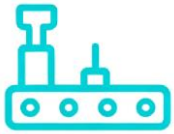
Applications: Production line integration, autonomous loading and unloading, material cage stacking, and pallet storage and retrieval



Differential Drive AMR

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

Applications



Production Line Delivery



Workstation Transfer



Warehouse Handling



Automated Loading & Unloading



Conveyor AMR

Automated Conveyor Docking



Lifting AMR

Automated Lift-and-Transport Handling

1000kg

Vision System Multiway Horizons



Vision Algorithms



Cameras



Industrial Cameras



Robots



LiDAR



PTZ Cameras



Alarm Equipment

Security Inspection
MachineOther
Equipment

Visual Inventory

AI object detection
Calculation of full-pallet
cargo quantity

High-bay Storage

Cargo unloading space detection
High-precision cargo picking and placing

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

Vehicle-Human Collaboration

Intruder detection
Path interference detection
Automatic obstacle avoidance

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

Automatic (un)loading

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

100



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

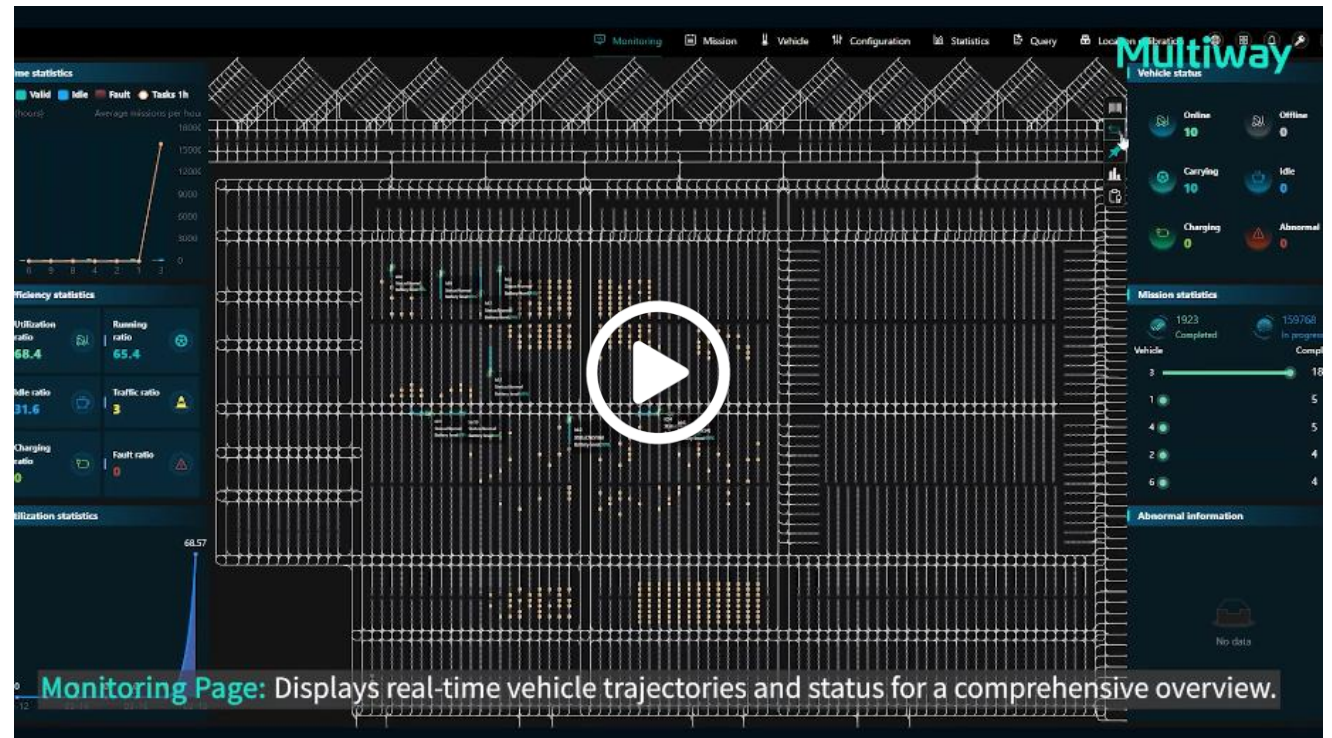
Equipment Monitoring
and Management

Oncoming Lane
Mitigation

VDA 5050 Compatible

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

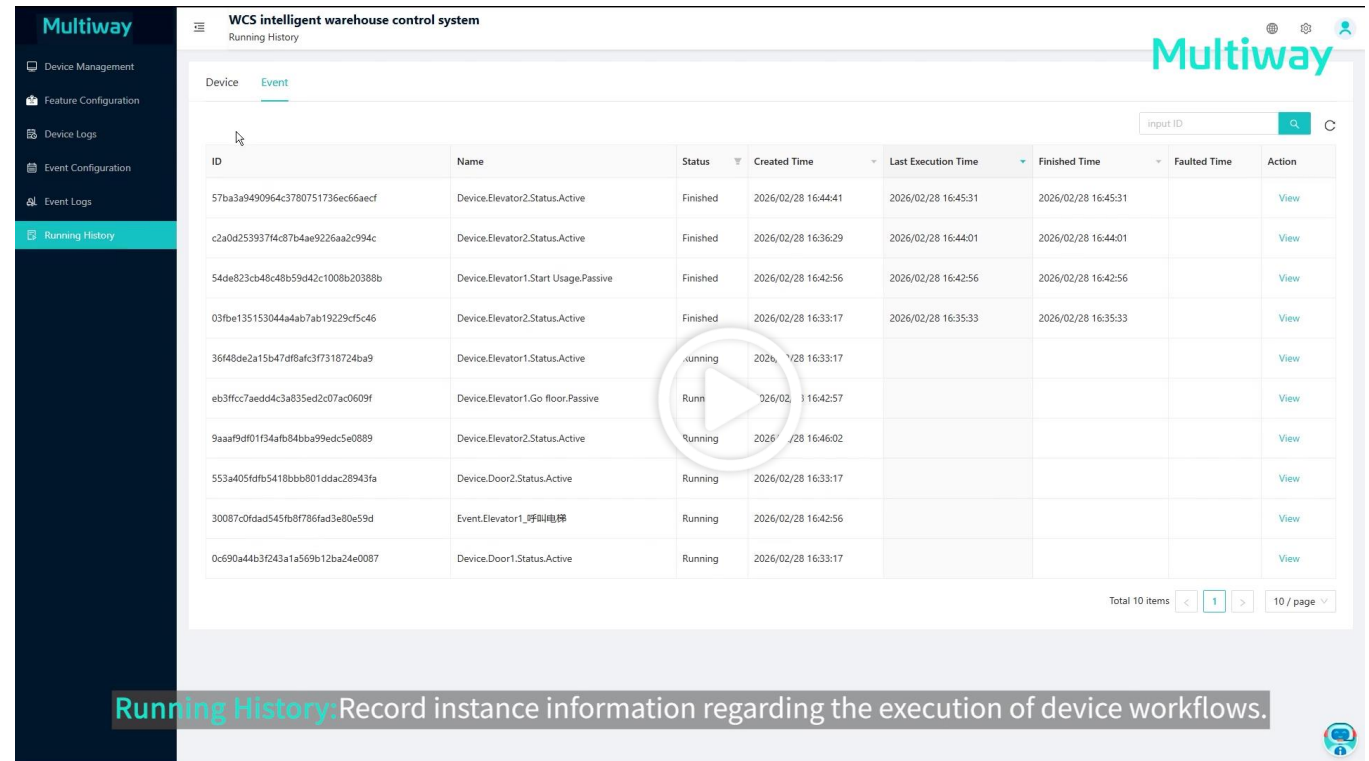
Auto Gate
Docking

Elevator
Docking

Robot Arm
Docking

Other
Equipment

Equipment Maintenance



Multiway

WCS intelligent warehouse control system

Running History

Device Event

Input ID

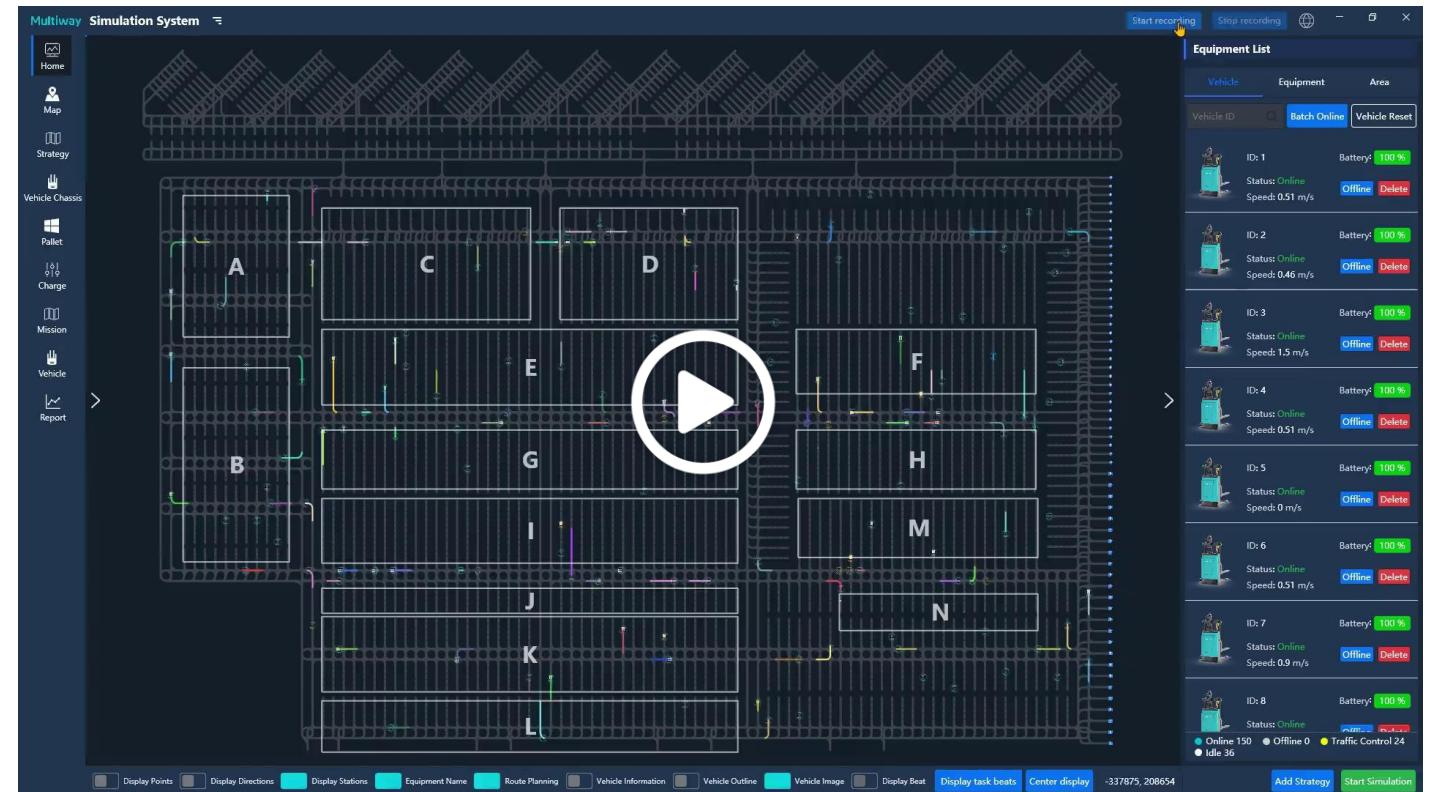
ID	Name	Status	Created Time	Last Execution Time	Finished Time	Faulted Time	Action
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c2a0d253937f4c87b4ae9226aa2c994c	Device.Elevator2.Status.Active	Finished	2026/02/28 16:36:29	2026/02/28 16:44:01	2026/02/28 16:44:01		View
54de823cb48c48b59d42c1008b20388b	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
eb3f8cc7aed4c3a835ed2c07ac0609f	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
553a405f8fb5418bb801ddac28943fa	Device.Door2.Status.Active	Running	2026/02/28 16:33:17				View
30087c0fdad545fb8f786fad3e80e59d	Event.Elevator1.呼叫电梯	Running	2026/02/28 16:42:56				View
0c690a44b3f243a1a569b12ba24e0087	Device.Door1.Status.Active	Running	2026/02/28 16:33:17				View

Total 10 items 1 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.



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.

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.



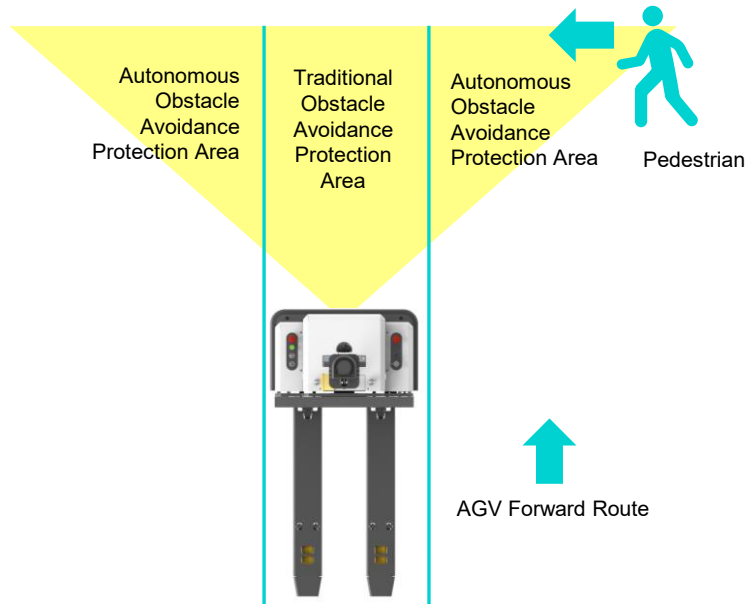
Note: Performance subject to verification in actual operating scenarios.

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

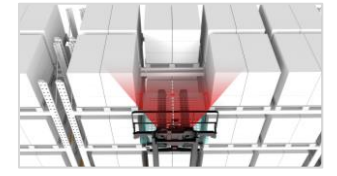
Placement Safety



Placement Location Detection



Placement Space Detection

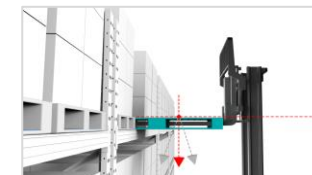


Mast Tilt Detection

Pickup Safety



Pickup Correction



Mast Tilt Detection

Awards, Certifications, and Media Coverage



CE Certification



UL Certification (USA)



KC Certification (Korea)



Main "Little Giant"



National High-Tech Enterprise



ISO 9001 Certified



Enterprise Intellectual Property
Management System Certification



Occupational Health and Safety
Management System Certification



Environmental Management
System Certification



ISO 27001 Certified

Internationally recognized media coverage



German Reddot
Product Design Award



French Design Award



Selected as the Most
Noteworthy AGV
Company in the World



The 11th LT China
Logistics
Innovation Product Award



Apnews



Businessinsider



Marketwatch



finanznachrichten.de



Yahoo



Theglobeandmail



Barchart



Digitaljournal



Nationalpost



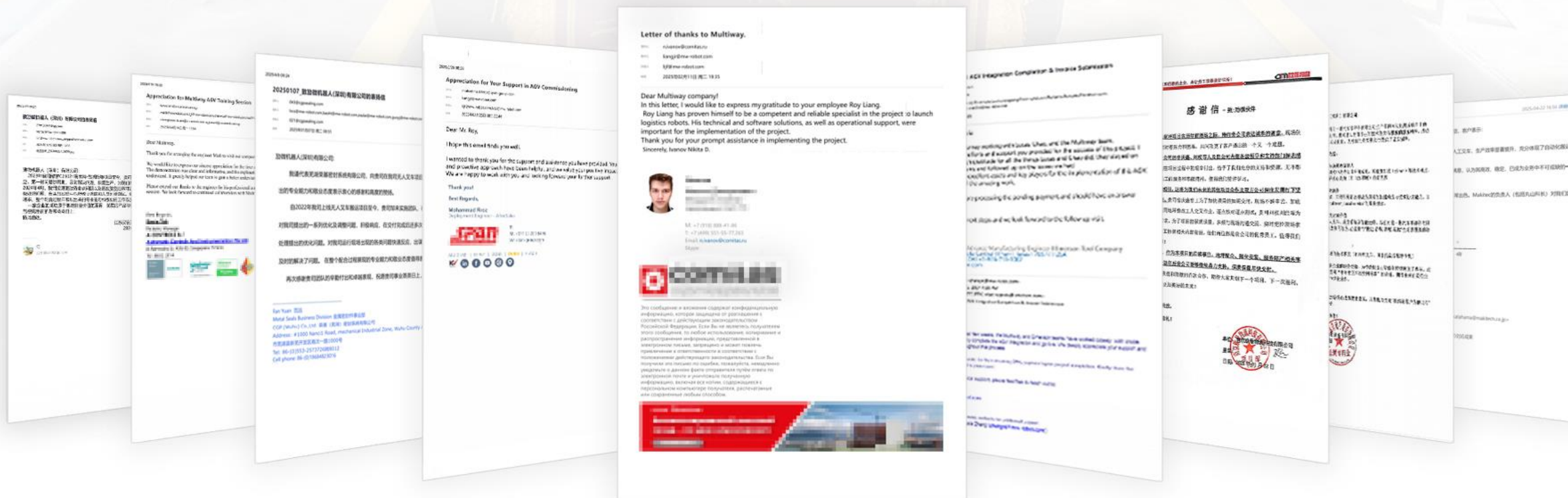
Streetinsider



Financialpost



CEO



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



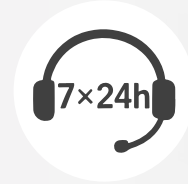
On-site Implementation

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

OUR VISION

Empowering the World with Billions of Robots

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Email: sales@mw-robot.com

Official website: www.mw-r.com

Global Branches:

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