

Multiway

An isometric illustration of a warehouse and logistics operations. It shows stacks of boxes, a large warehouse building with a loading dock, several trucks, and yellow robotic arms or forklifts moving goods. The entire scene is rendered in a light blue and yellow color scheme, matching the company's branding.

Leading Intelligent Intralogistics Solution Provider

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Multiway Robotics

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01 COMPANY PROFILE

Company Profile

20+

Industry Applied

30+

Countries & Regions

300+

Patents & Copyrights

400+

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 insistant empowerment of our customers.

Multiway

Multiway

Awards & Certificates



CE Certification



ISO 9001 Certified



ISO 27001 Certified



National High-Tech Enterprise



reddot

2022 German Reddot
Product Design Award"



Logistics Technology
Award

The 11th LT China
Logistics
Innovation Product Award
in 2022



天眼查



2021 Tianyancha Digital
High-tech High-Growth
Emerging Enterprises
Top 50



2022China Innovation
Robot Brand Top 10



Selected as the Most
Noteworthy AGV
Company in
the World in 2022"



2021 Gaogong Golden
Globe
Award for Innovative
Technology"



2022 Outstanding
Technical Service
Provider



2022 Most Business
Potential Company



36Kr 2022 City New
Force

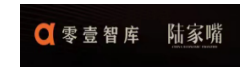


怡佩克
CAPEK.CN

2022CAPEK
Annual New Brand
Award



2022 Science &
Technology Award
Crown Award



2022 Top 50 Most
Valuable Digital
Company

Global Network

Headquarter



Factory



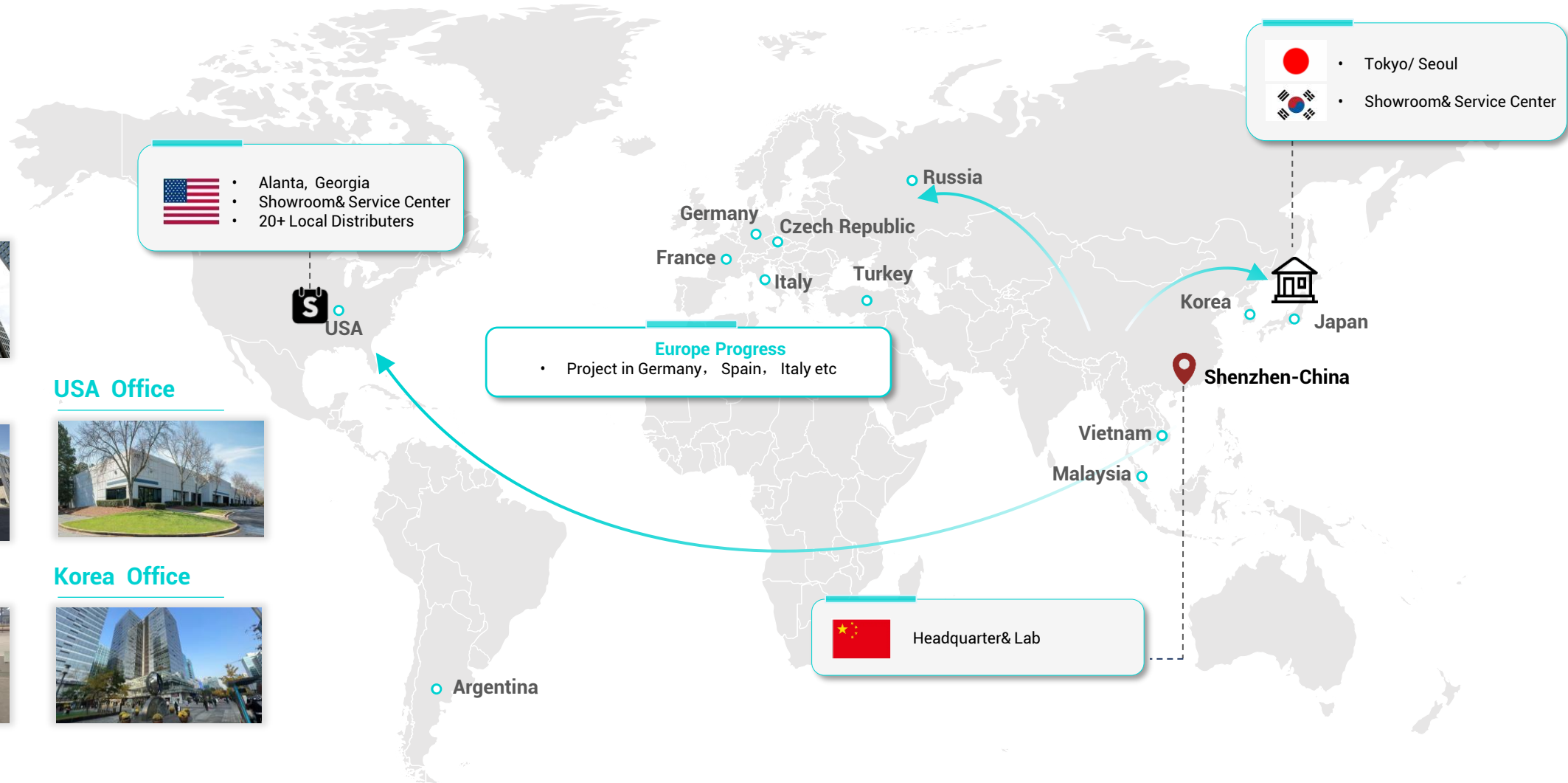
Lab



USA Office



Korea Office



Intelligent transformation from Multiway



Case Video



Solution Value



Benefit increased



Efficiency improved



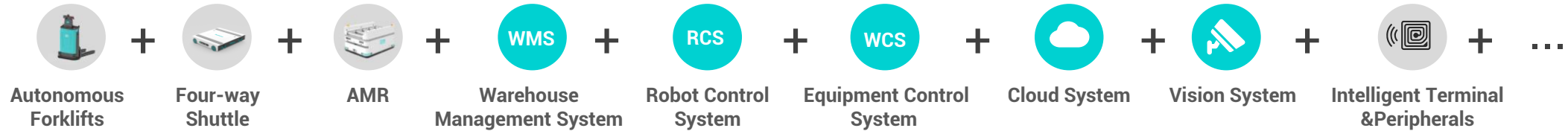
Accurate transfer



Visual management

02 SOLUTIONS AND PRODUCTS

Intralogistics Solution



Core Part: Intelligent Coordination

Intelligent Logistics AI

Core Part: AS/RS

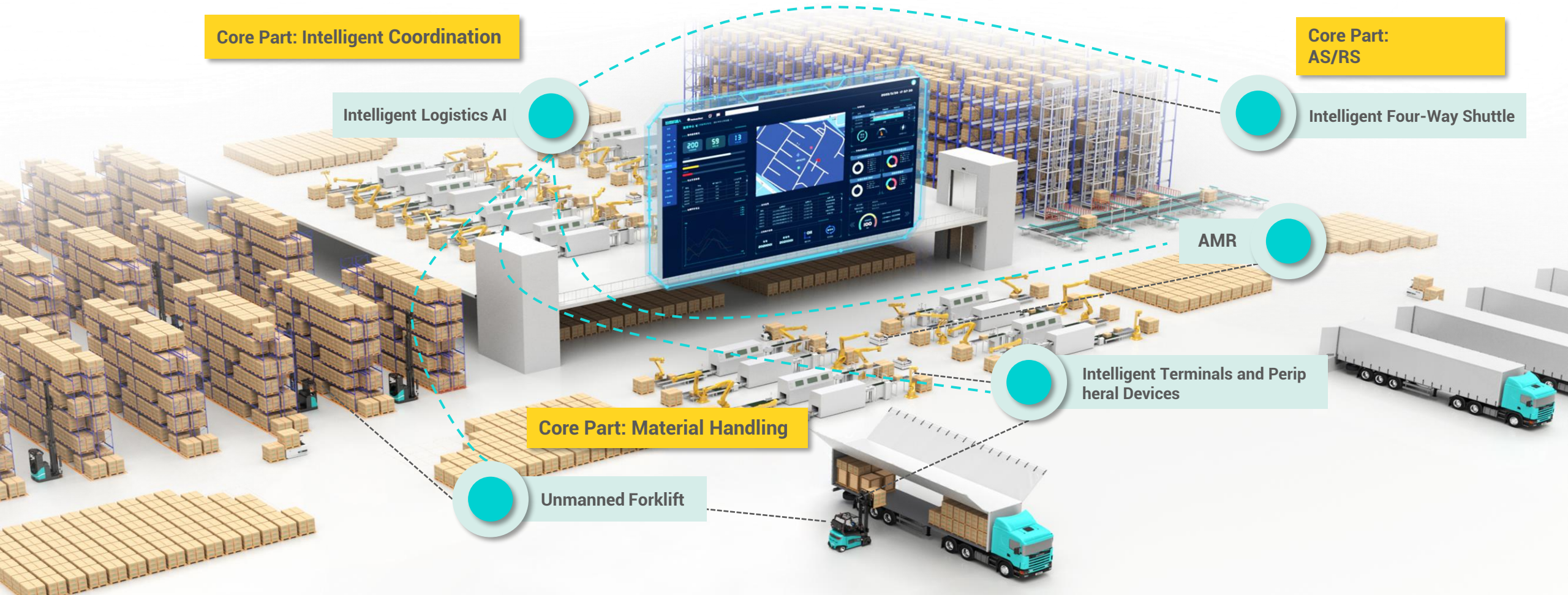
Intelligent Four-Way Shuttle

AMR

Intelligent Terminals and Peripheral Devices

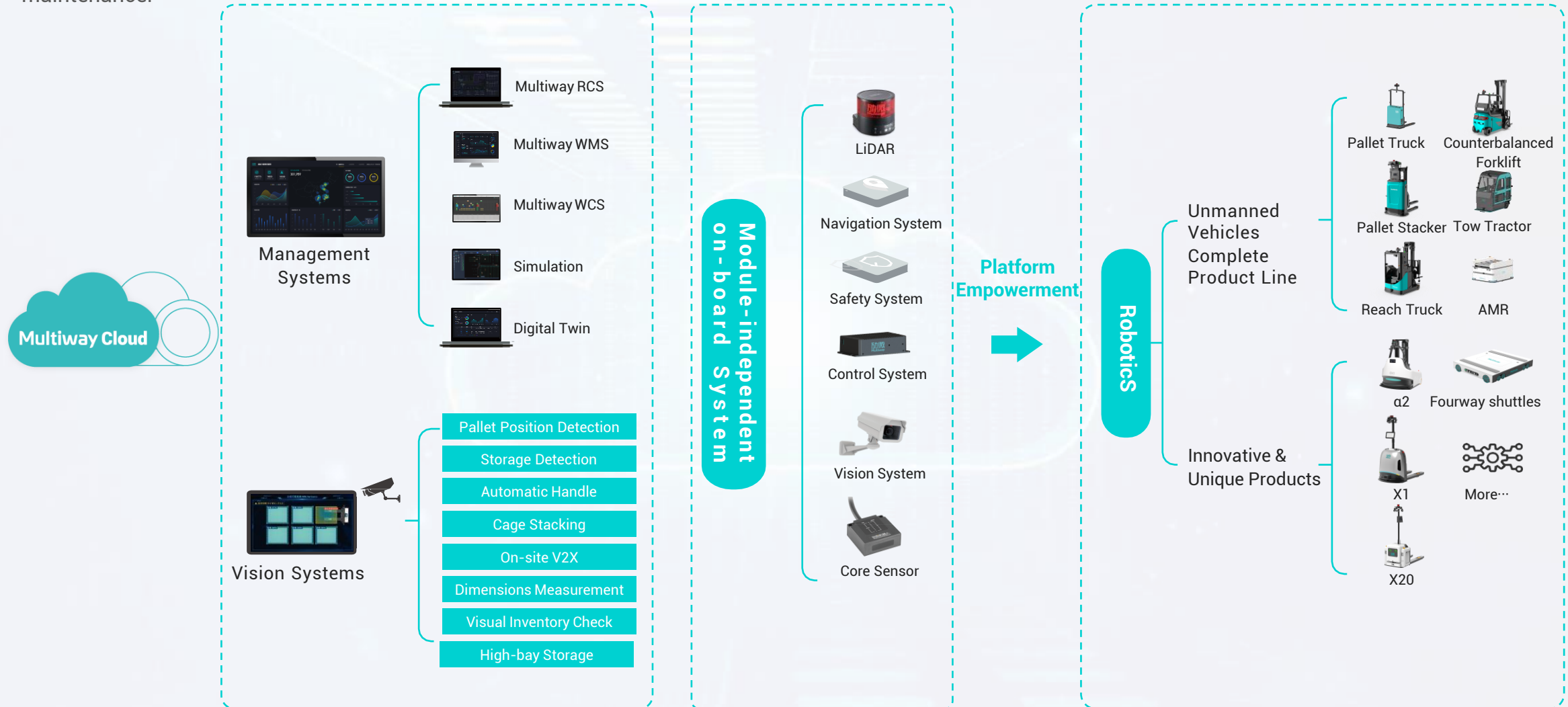
Core Part: Material Handling

Unmanned Forklift



3 in 1 Architecture

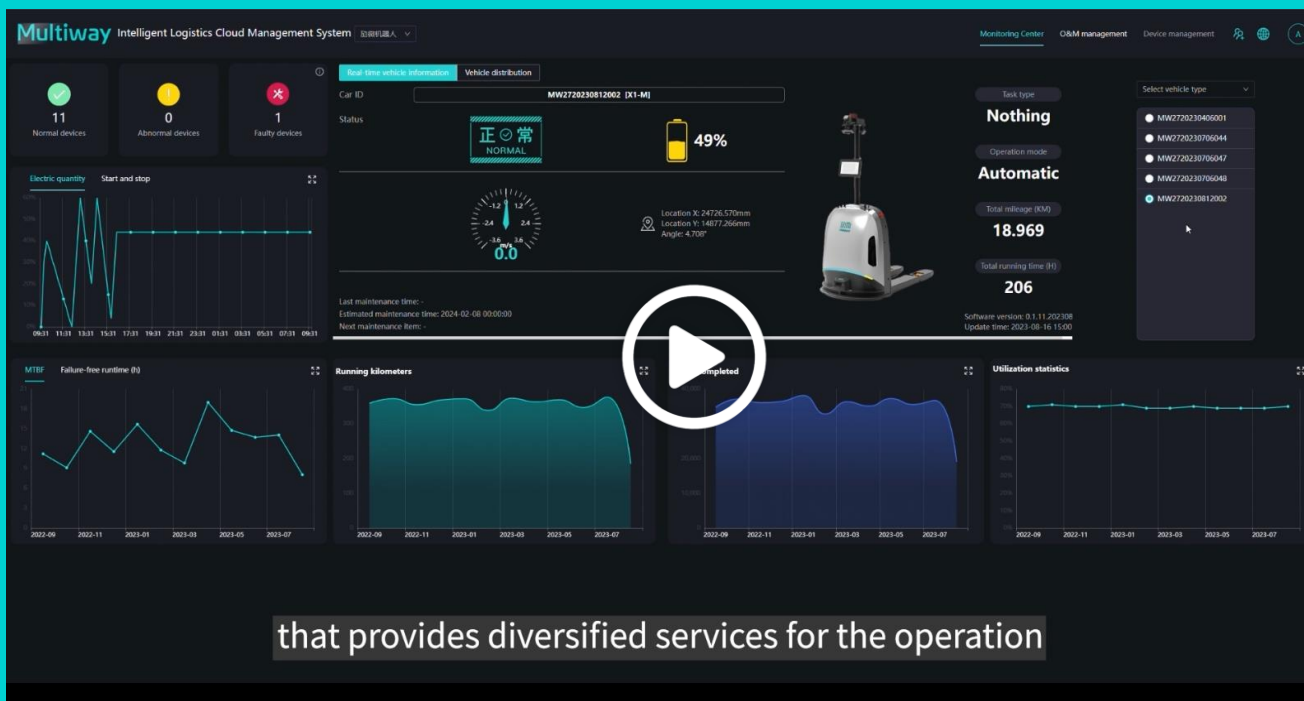
Integrated project delivery platform achieves lightweight deployment, managing logistic, information flow, decision flow, intelligent operation and maintenance.



Multiway Cloud

Multiway Cloud is an integrated platform based on cloud-edge-end convergence technology that provides diversified services for the operation, maintenance and monitoring of users' site and industrial mobile robots. Through real-time monitoring and management of equipment and information flow, data collection and feedback analysis, the platform can quickly track the health status of system equipment and provide rapid response based on remote OTA technology.

Multiway
Cloud



Multiway Robotics



Equipment Monitoring



OTA Management



Maintenance Reminder



Equipment Management



Fault Monitoring



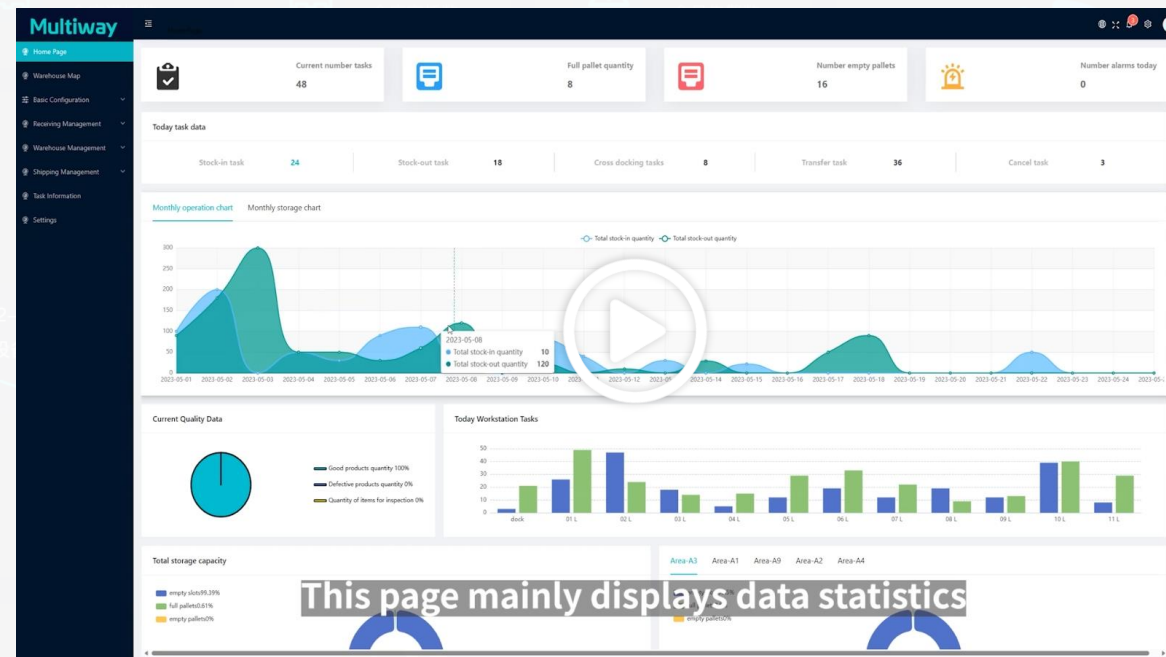
Authority Management



Cloud AI

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

Veichel Management

3D DigitalTwin

Statistics

Entry

Quality Control

Inventory Management

Inventory

Delivery

Standard Interfaces

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

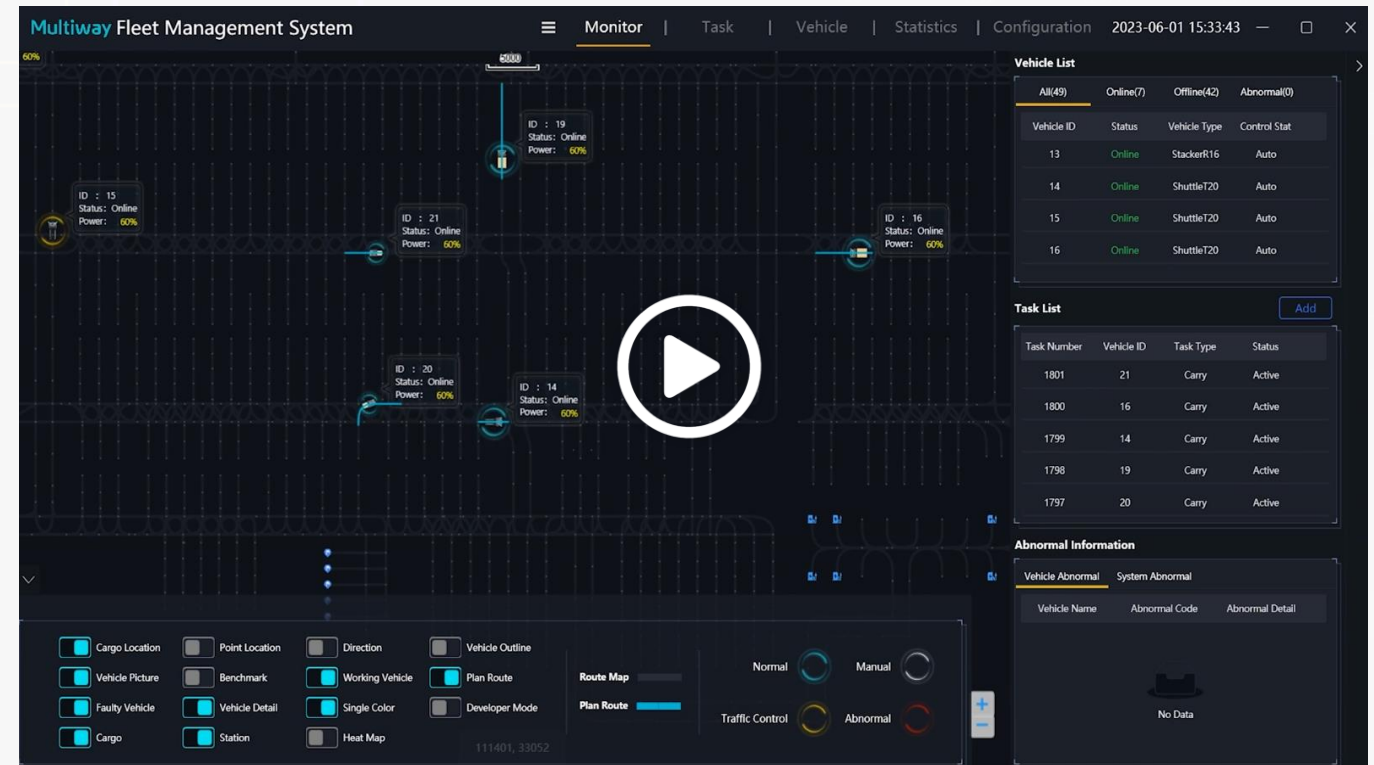
Equipment monitoring
and management

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



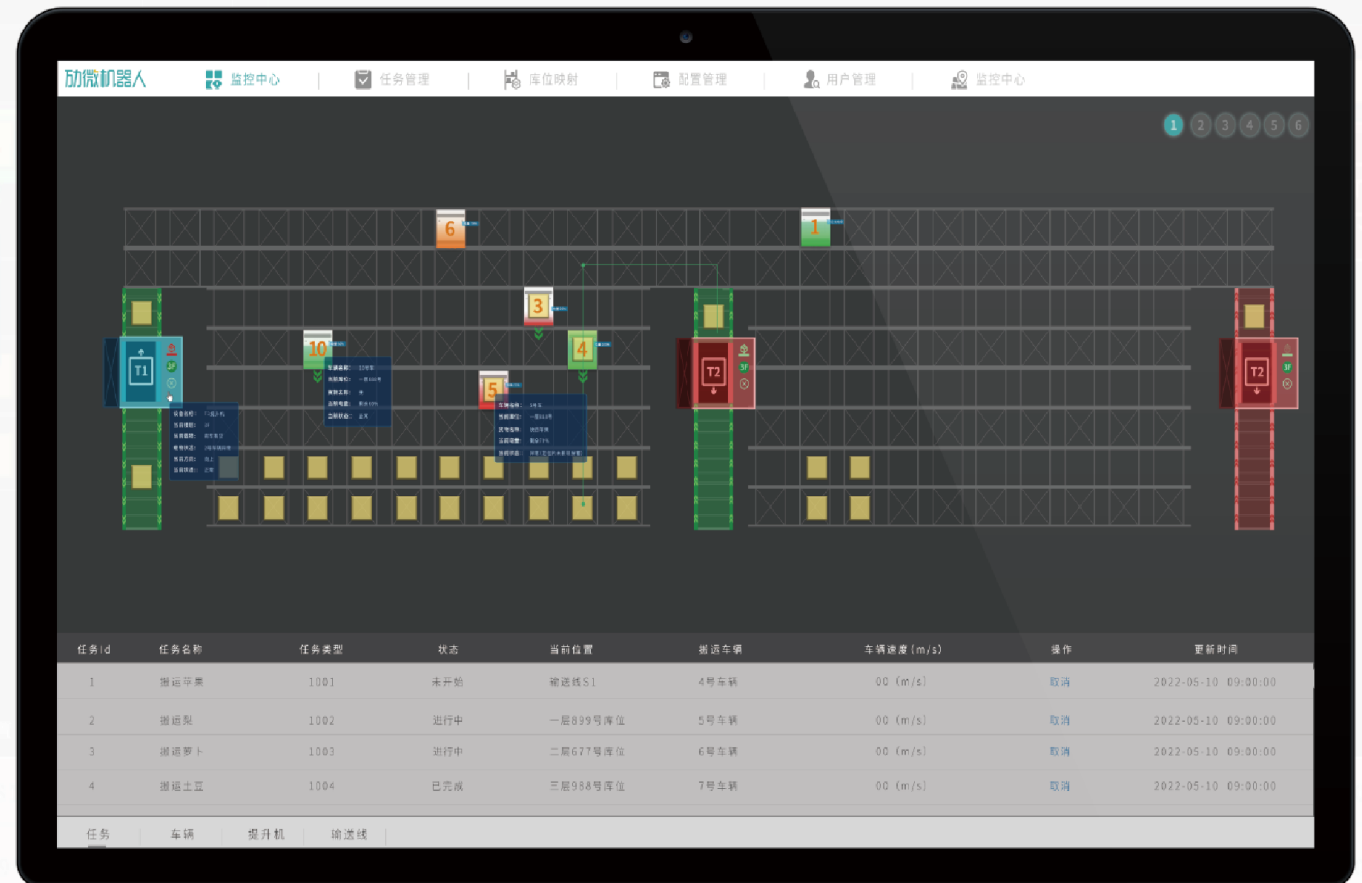
Robot Arm
Docking



Other
Equipment

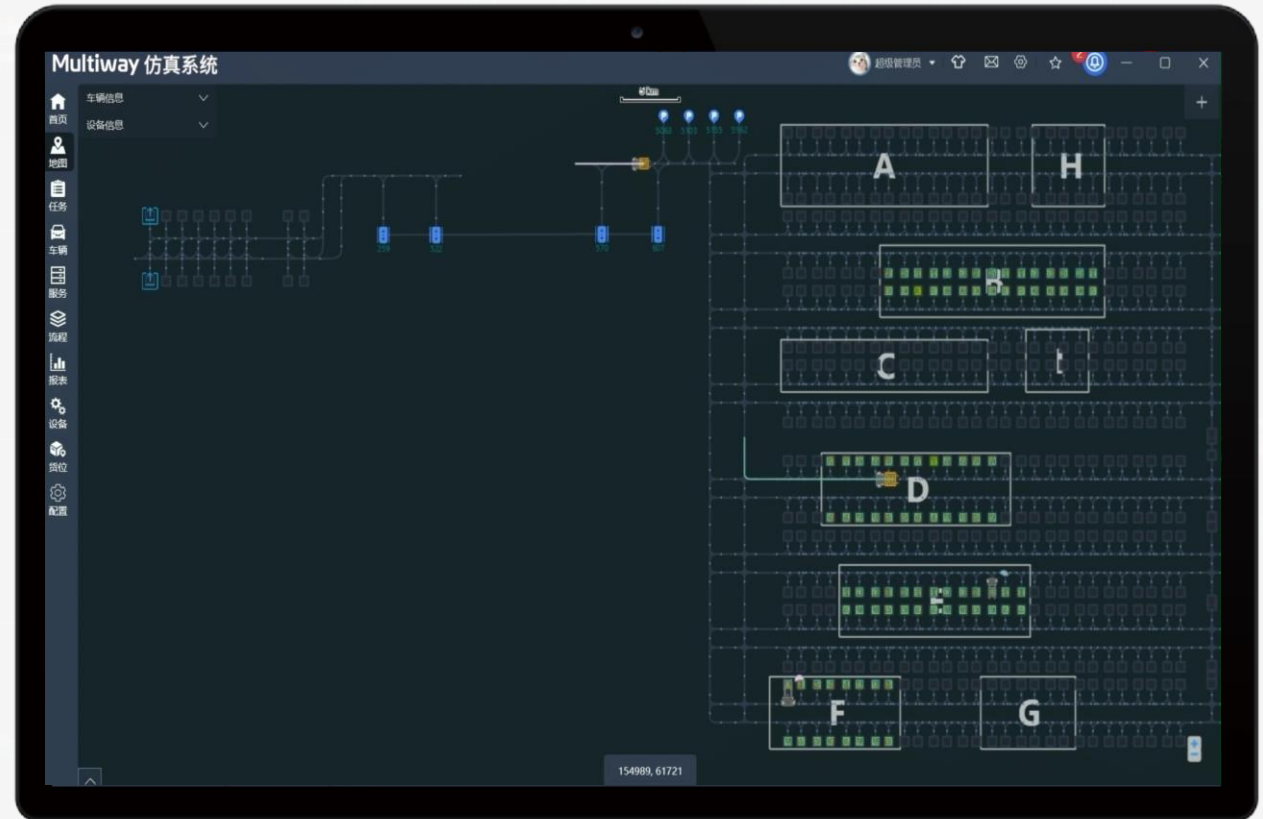


Equipment
Maintenance



Multiway 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

Vision System MW Horizons

By utilizing machine vision and artificial intelligence technologies, Multiway provides flexible visual solutions that empower intelligent manufacturing and smart logistics. Through comprehensive business monitoring and collaborative vehicle-road and vehicle-factory coordination, supported by data processing platforms in edge computing, achieving management visualization and operational environment safety, which ensures stable operation of factories and reduces costs while increases efficiency.



Enhance automation and advanced
intralogistics solutions
Business Process Integration

Shorten delivery time and increase value



Make it safer and more efficient
Safe and Efficient Operation

Data can be detected, traced, and analyzed



Reduce costs and improve smart
manufacturing
Assistant Management

Agile Information Technology Infrastructure

Vision Product Matrix

Enabling and Flexibility



Pallet Position Detection

Supports skewed pallets within $\pm 45^\circ$ and ± 80 cm



Automatic (un)loading

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



Cage Stacking

Cage deformation detection
Stack Safety Detection
Palletizing at different heights
Cargo Excursion Detection
 ≥ 6 layers of precise stacking



High-bay Storage

Unloading Space Detection
High-Precision Pick and Place

Safety Monitoring



Off-the-job Detection

Detect empty posts at specified times
Counting of on-the-job personal



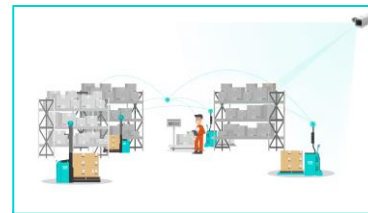
Odd Behavior Detection

Detect unusual entry in specified time/area
Identify who intruded and for how long



Workwear Detection

Detect if personnel are wearing workwear
Track violations/violators



On-site V2X

Intrusion Detection
Path Interference Detection
Track Detection



Fire and Smoke Detection

Detect abnormal temperature, smoke, flame



Smoking Detection

Detect and identify smoking behavior in specific areas in real time

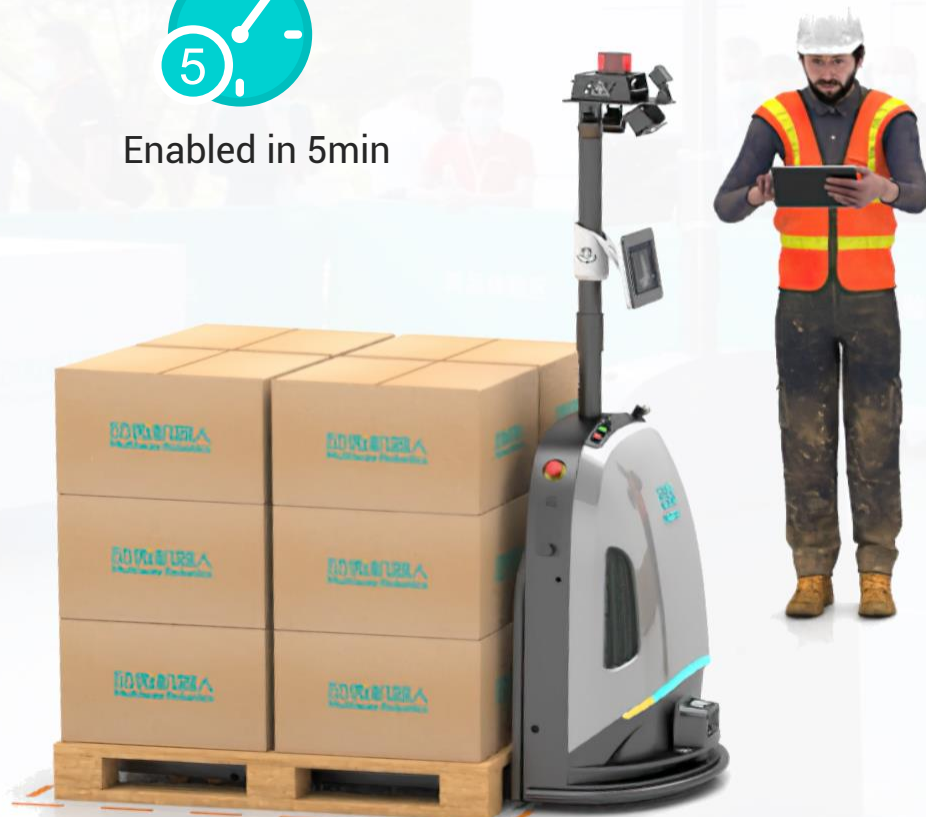
Full Category Product Matrix

Keeping innovation, Multiway has developed full category of intralogistics products, including unmanned forklifts, AMRs and tow tractors.





Enabled in 5min



Multiway X1

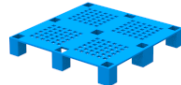
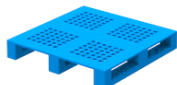
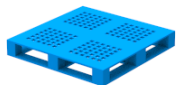
An OOTB product

- Enabled in 5min as an OOTB product

SLAM	Wi-Fi/5G	2000kg	205mm
Navigation	Communication	Rated Load	Lifting Height
435kg	1.3m/s	±10mm	1380mm
Weight	Max Speed	Positioning Precision	Turning Radius

**X20****X20S**

Compatible with 2-Way/4-Way/POD Pallets



Redefined Pallet Truck

Compact yet Powerful

- Light weighted for ground-bearing requirement
- Adopt to extremely narrow aisles
- Fast, flexible, modulated quick deployment

SLAM Navigation	Wi-Fi/5G Communication	2000kg Rated Load	205mm Lifting Height
480kg Weight	1.3m/s Max Speed	±10mm Positioning Precision	Auto Charging Strategy

Innovative Products

Brand New Design

High Efficiency, Low Cost, New Innovation

Rated load: 1000~2000Kg
Lifting Height: 210mm



Pallet Truck

MW-ST Series

Rated load: 1500~2000Kg
Lifting Height: 3000mm



Counterbalanced Forklift

MW-SE Series

Rated load : 1400Kg
Lifting Height: 3500mm



Pallet Stacker

MW-SL Series

Rated load: 2000Kg
Lifting Height: 4500mm



Sideloader

MW-O Series

Unmanned Forklift

Full Range of Unmanned Forklifts

0-5 Ton Load

0-10 Meter Lifting

All Scenarios



Rated load: 2000Kg
Lifting Height: 210mm

Rated load: 1400~2000Kg
Lifting Height: 5400mm

Rated load: 2500~5000Kg
Lifting Height: 6600mm

Rated load: 1400~2000Kg
Lifting Height: 11500mm

Rated load: 1600Kg
Lifting Height: 10000mm



Pallet Truck
MW-T Series



Pallet Stacker
MW-L Series



Counterbalanced Forklift
MW-E Series



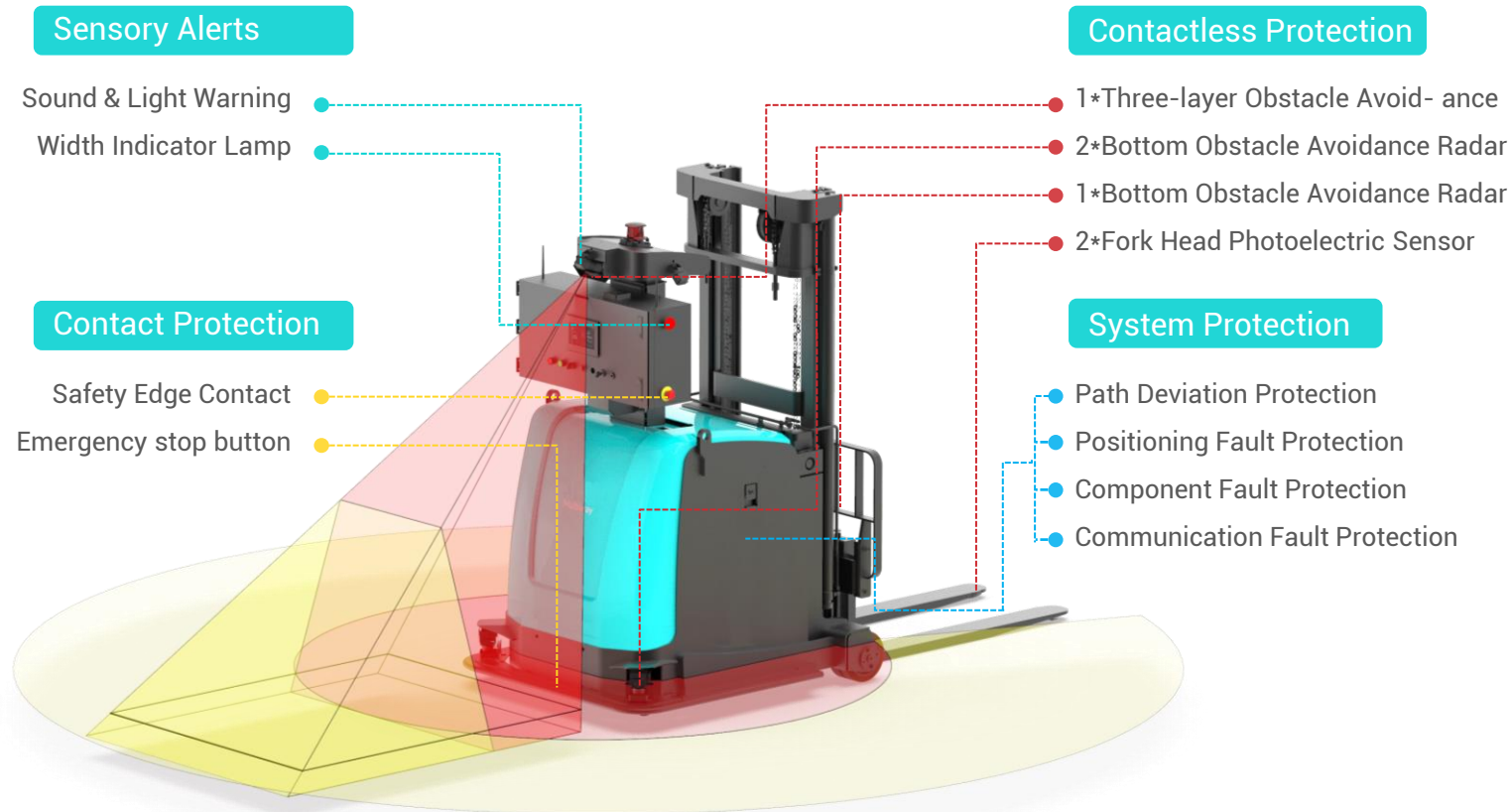
Reach Truck
MW-R Series



Sideloader
MW-K Series

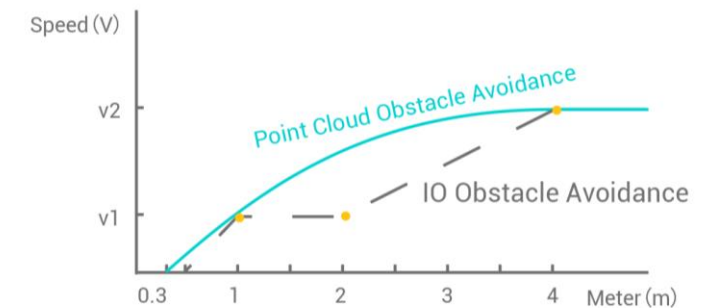
Robot Safety Protection

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.

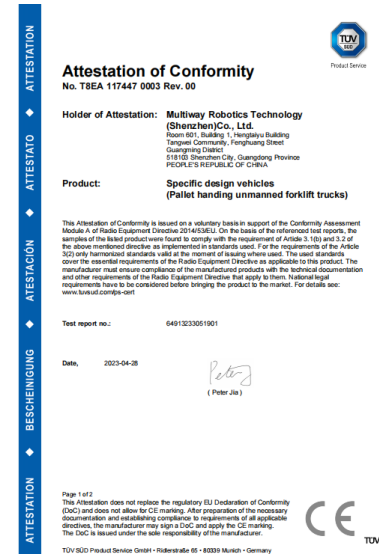


Robot Safety Protection



Forward 3D stereo obstacle avoidance camera

The example is based on counterbalanced forklift model. Configuration of safety sensor devices for different model varies so the product parameters shall prevail.



03 CASES AND APPLICATIONS

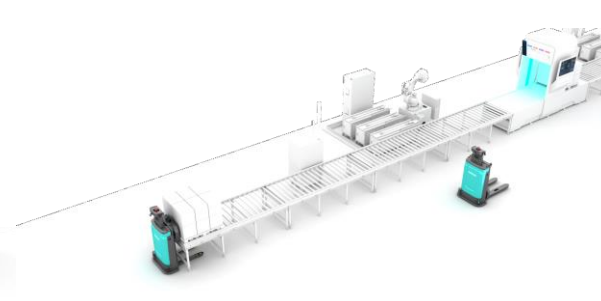
Applications

Deliver high-quality solutions for complex scenarios, achieving exceptional adaptability to complex situations with industry-leading performance



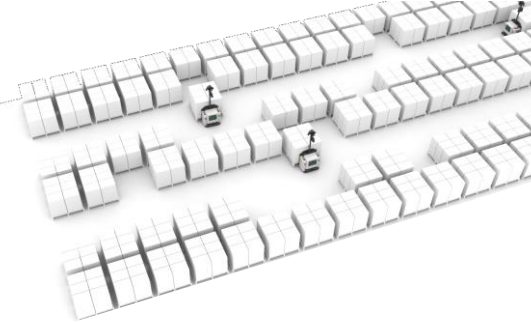
Truck Loading/Unloading

Compatible with multiple vehicle types (wing body, flatbed, van)



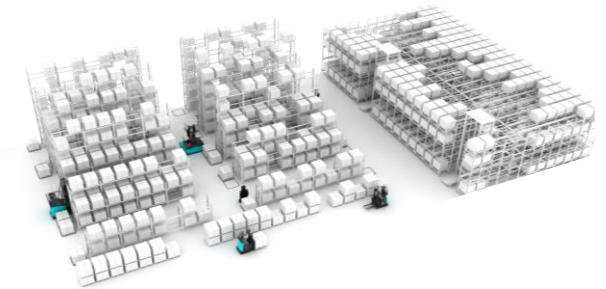
Docking with Production Line

Efficient automatic transportation and turnover from the warehouse to the buffer area and production line zone.



Horizontal Handling

Supports flexible transportation for various scenarios, including docking with storage locations and stacker warehouses transferring.



Intelligent Storage & Picking

Multiple storage methods to meet various storage requirements for high, medium, and low frequencies.

Cases Studies



Heavy handling



Finished products storage



High-bay storage



Shuttle docking



Unmanned handling



Production line docking



Cage stacking



Materials storage



Cluster scheduling



Intelligent warehouse



Production line



Cage stacking



Materials Outbound



Four-way shuttle



Park logistics



Food



Auto



New Energy



Pharmacy



Machining



Construction
Material



Printing and
Packaging



Cold Chain



Home



Chemical



Clothing

04 CUSTOMER SUPPORT

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

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