



Multiway

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

400+

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 Specialized & Innovative
Little Giant Enterprise



National High-Tech Enterprise



2022 German Reddot
Product Design Award"



The 11th LT China
Logistics
Innovation Product Award
in 2022



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



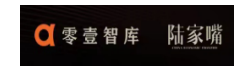
36Kr 2022 City New
Force



2022CAPEK
Annual New Brand
Award



2022 Science &
Technology Award
Crown Award



2022 Top 50 Most
Valuable Digital
Company

Global Network

Headquarters



Factory



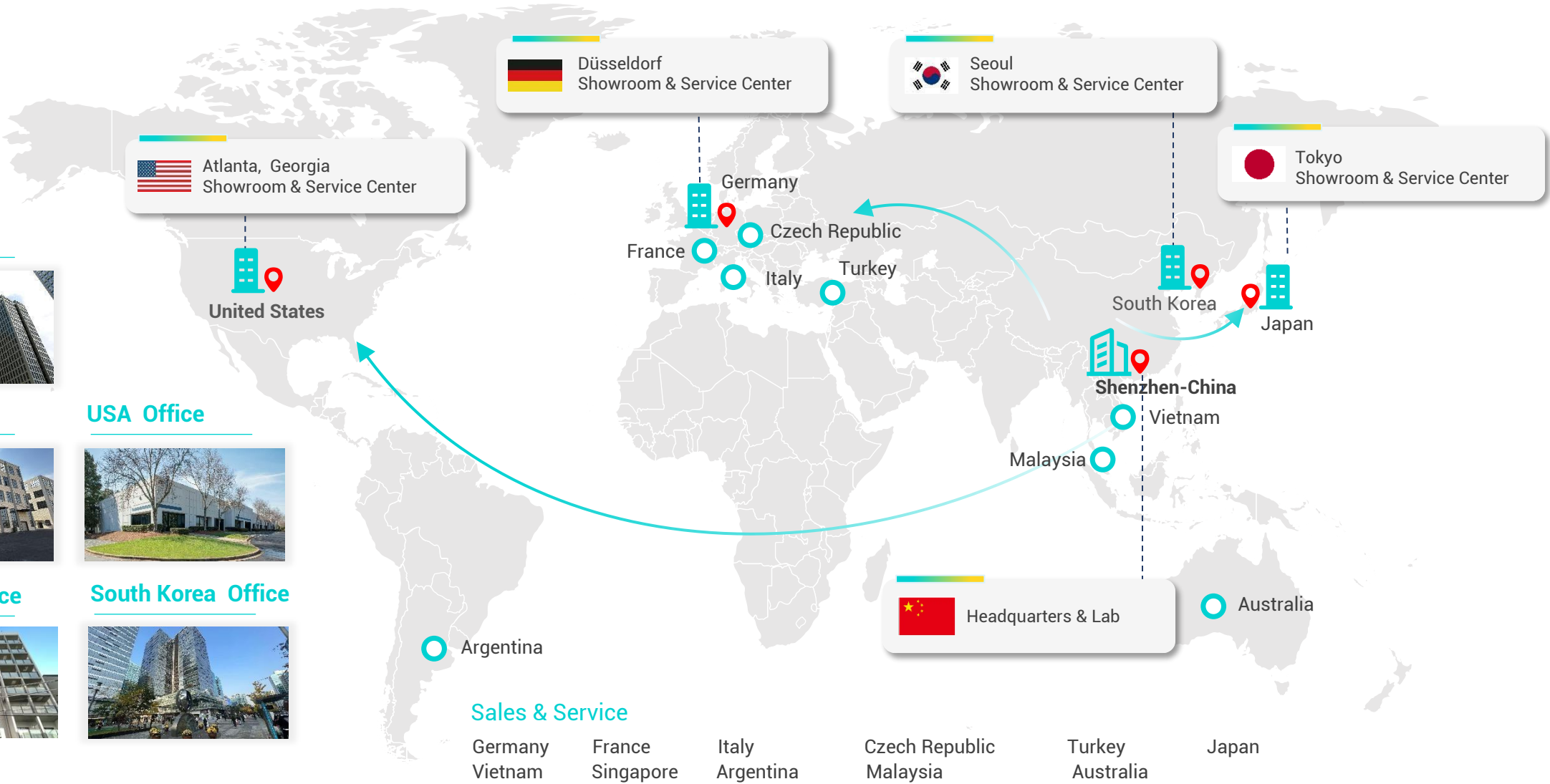
Japanese Office



USA Office



South Korea Office



Sales & Service

- Germany
- Vietnam
- France
- Singapore
- Italy
- Argentina
- Czech Republic
- Malaysia
- Turkey
- Australia
- Japan

Intelligent transformation from Multiway



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

About Multiway Robotics

[Watch Video](#)



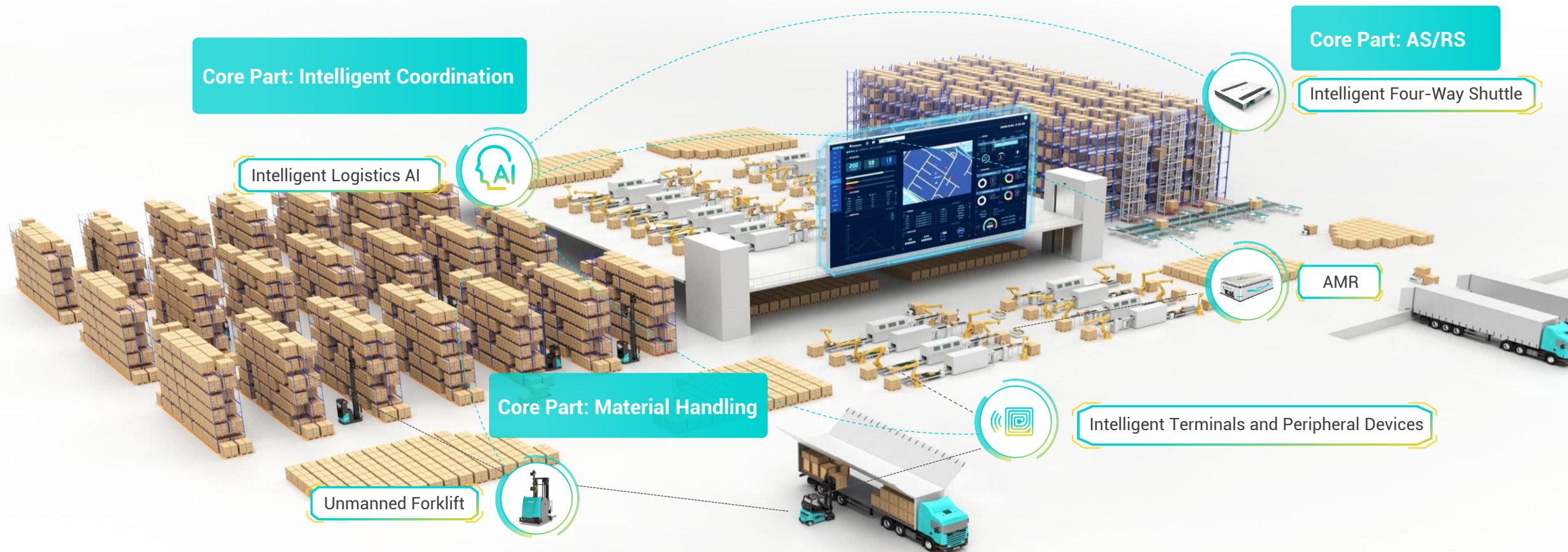
**More than 400
benchmark projects
successfully implemented**

Among these customers, more than 30% are well-known companies, including Fortune 500 companies, China's top 500 companies, and industry leaders.

02

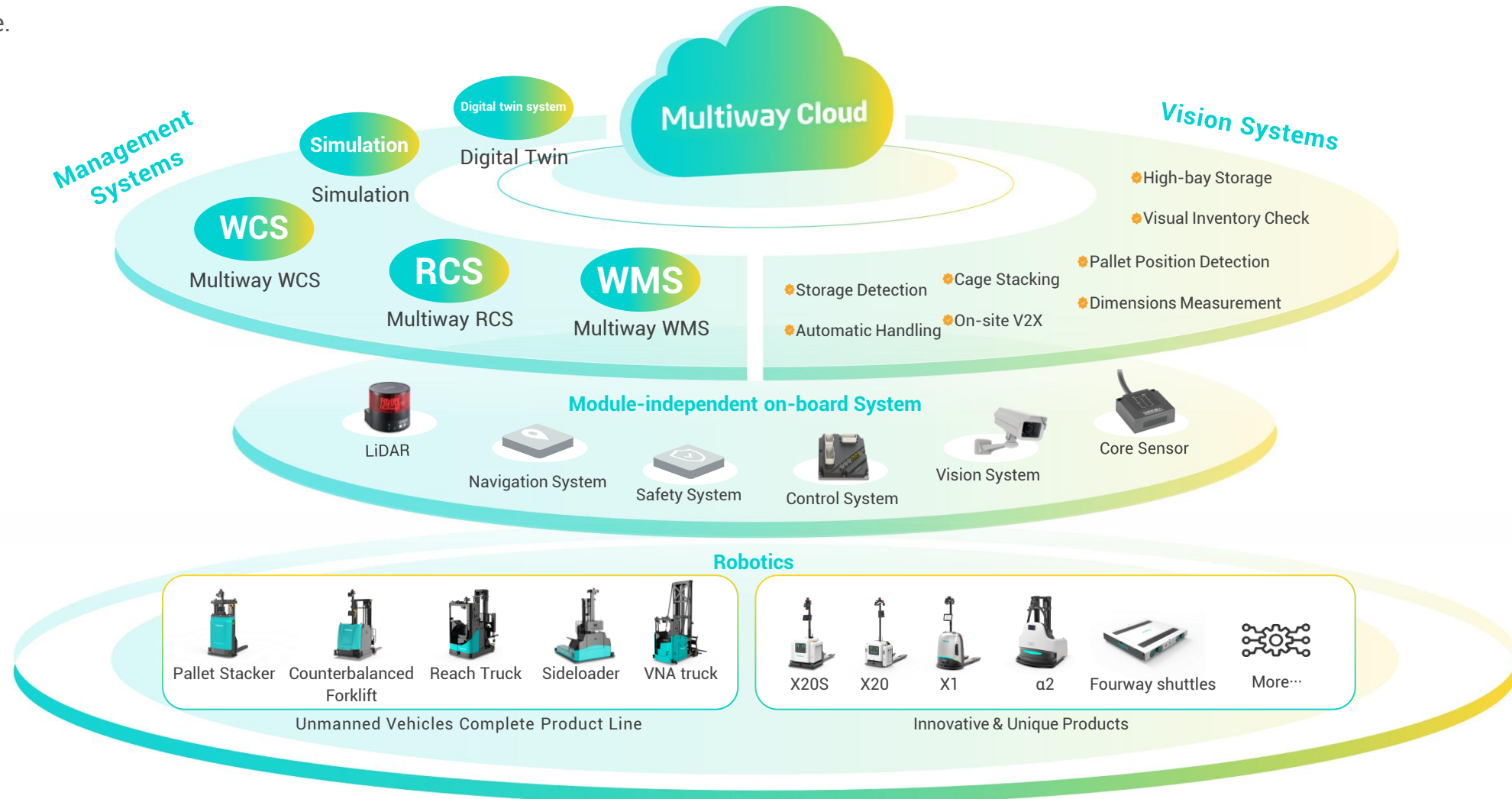
SOLUTIONS AND PRODUCTS

Intralogistics Solution



3 in 1 Architecture

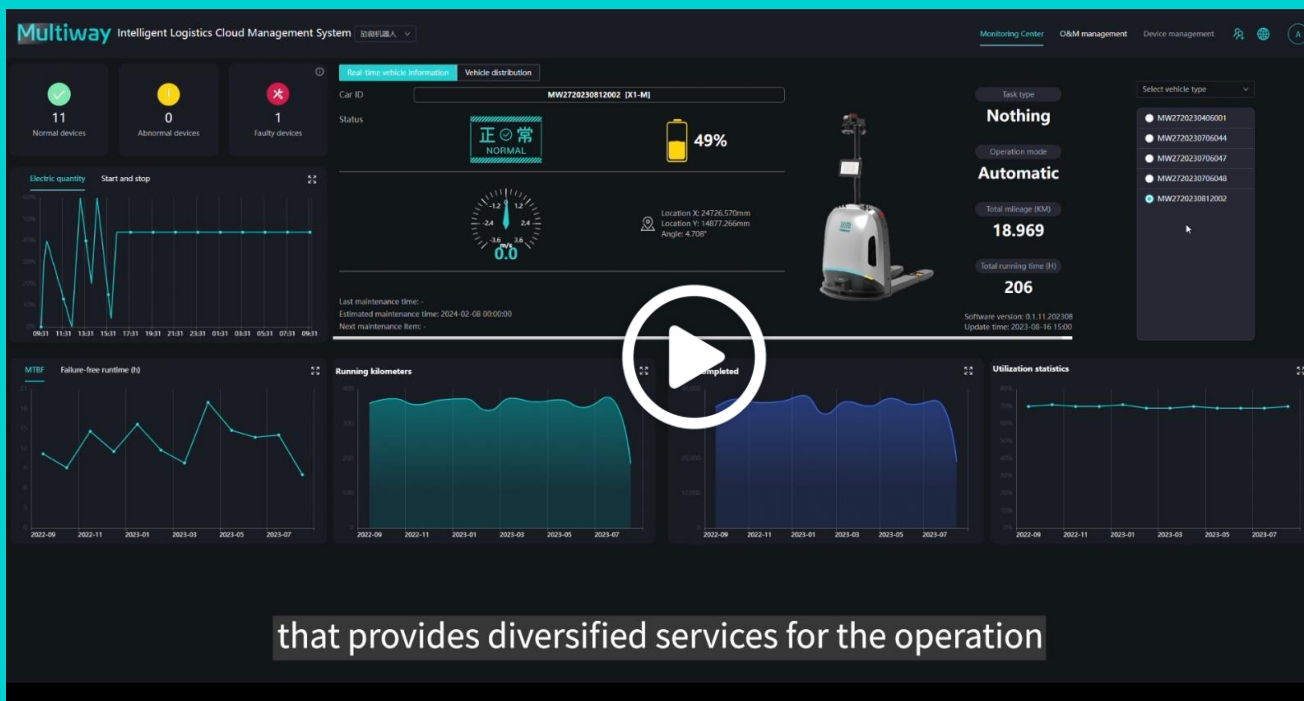
Integrated project delivery platform achieves lightweight deployment, managing logistic, information flow, decision flow, intelligent operation and maintenance.



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



that provides diversified services for the operation

Multiway Robotics



Equipment Monitoring



OTA Management



Maintenance Reminder



Equipment Management



Fault Monitoring



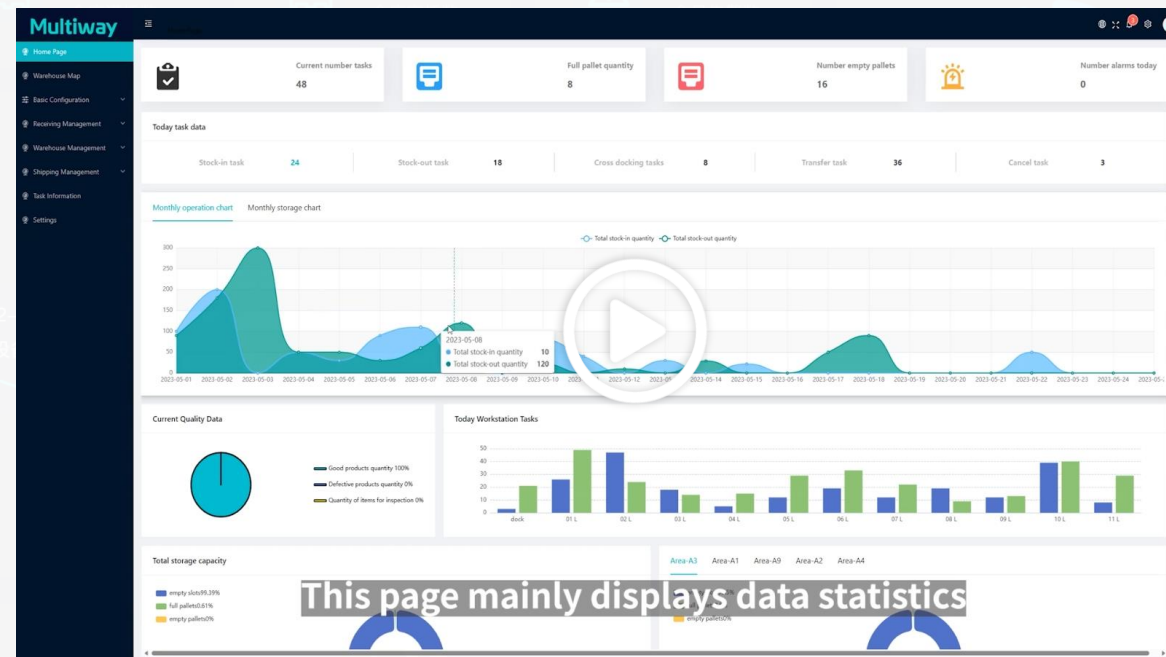
Authority Management



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

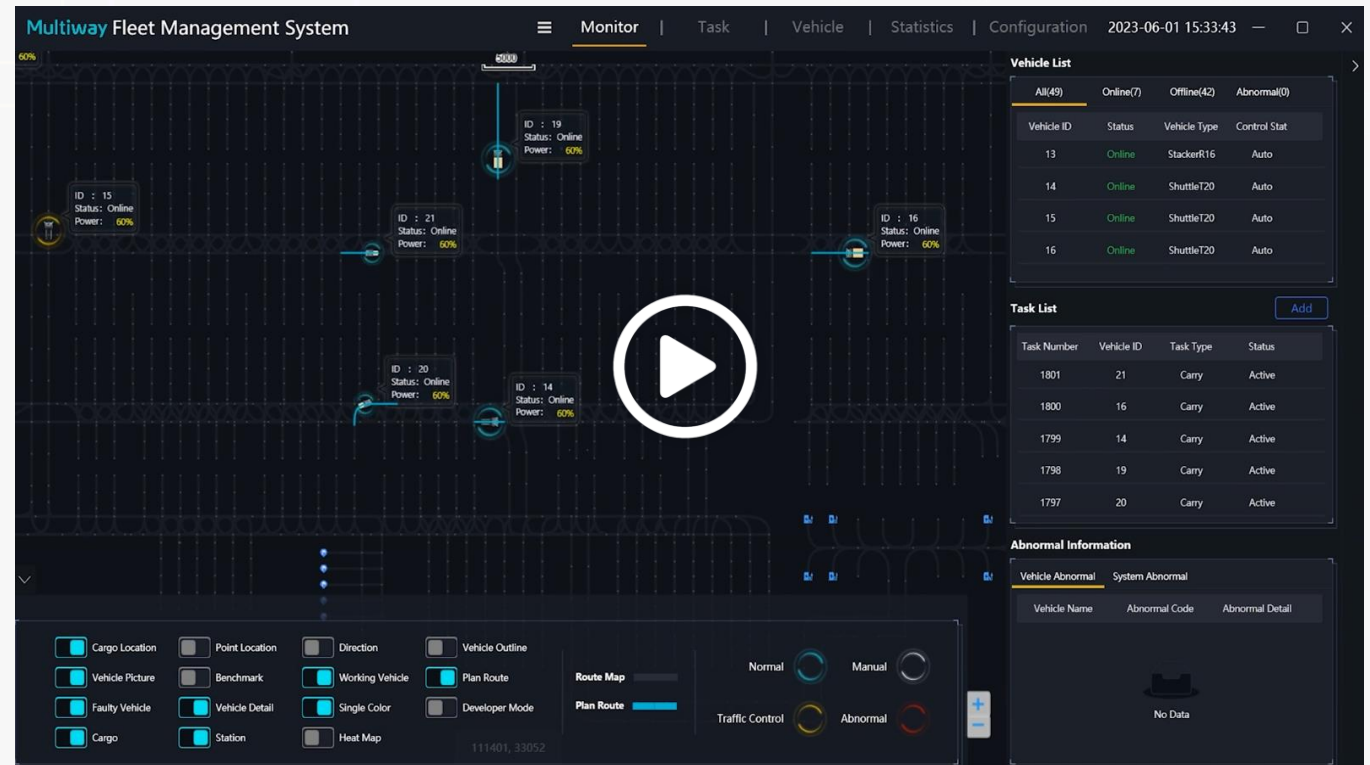
Equipment monitoring
and management

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



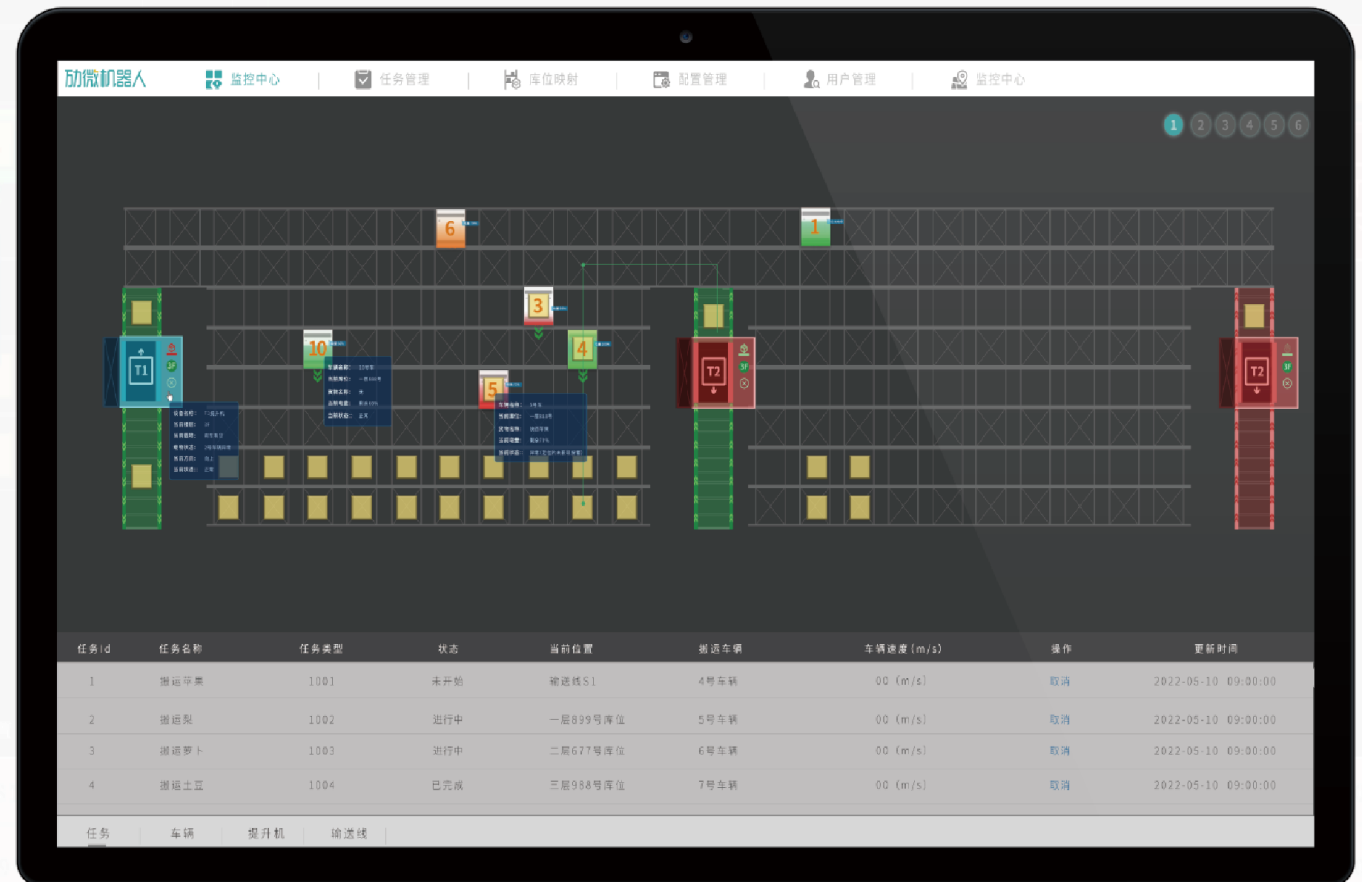
Robot Arm
Docking



Other
Equipment

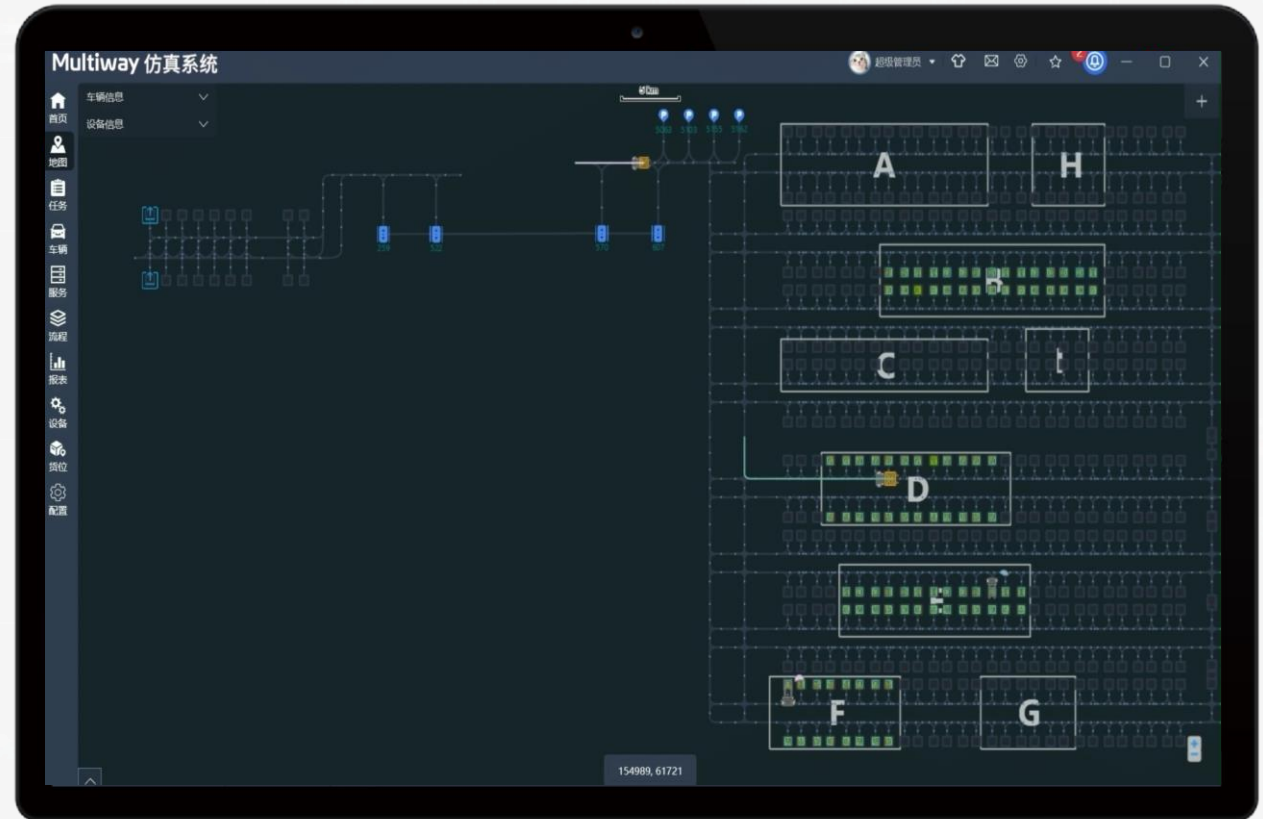


Equipment
Maintenance



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 Multiway Horizons

System



Vision Algorithms

+



Cameras

+



Industrial Cameras

+



Robots

+



LiDAR

+



PTZ Cameras

+



Alarm Equipment

+



Security Inspection Machine

+



Other 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)

Full Category Product Matrix

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



Unmanned handling



Production line



Cross floor handling



High-bay storage



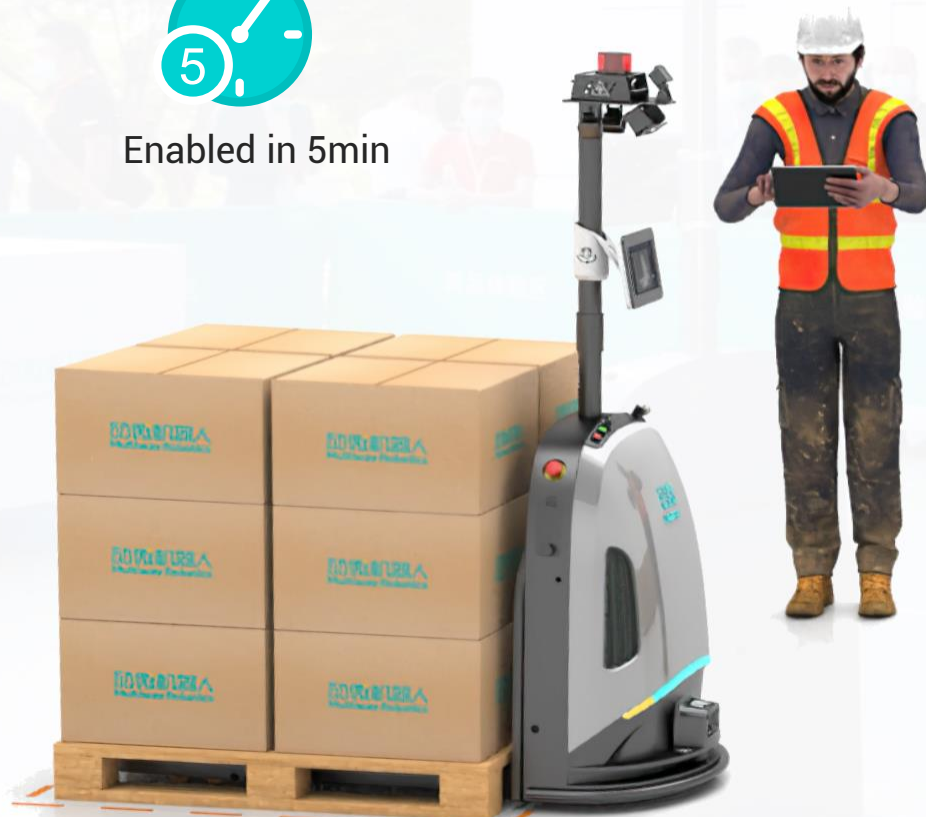
Park logistics



Intensive Access



Enabled in 5min



Multiway X1

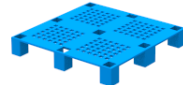
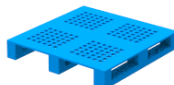
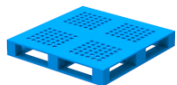
An OOTB product

- 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

±10mmPositioning
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

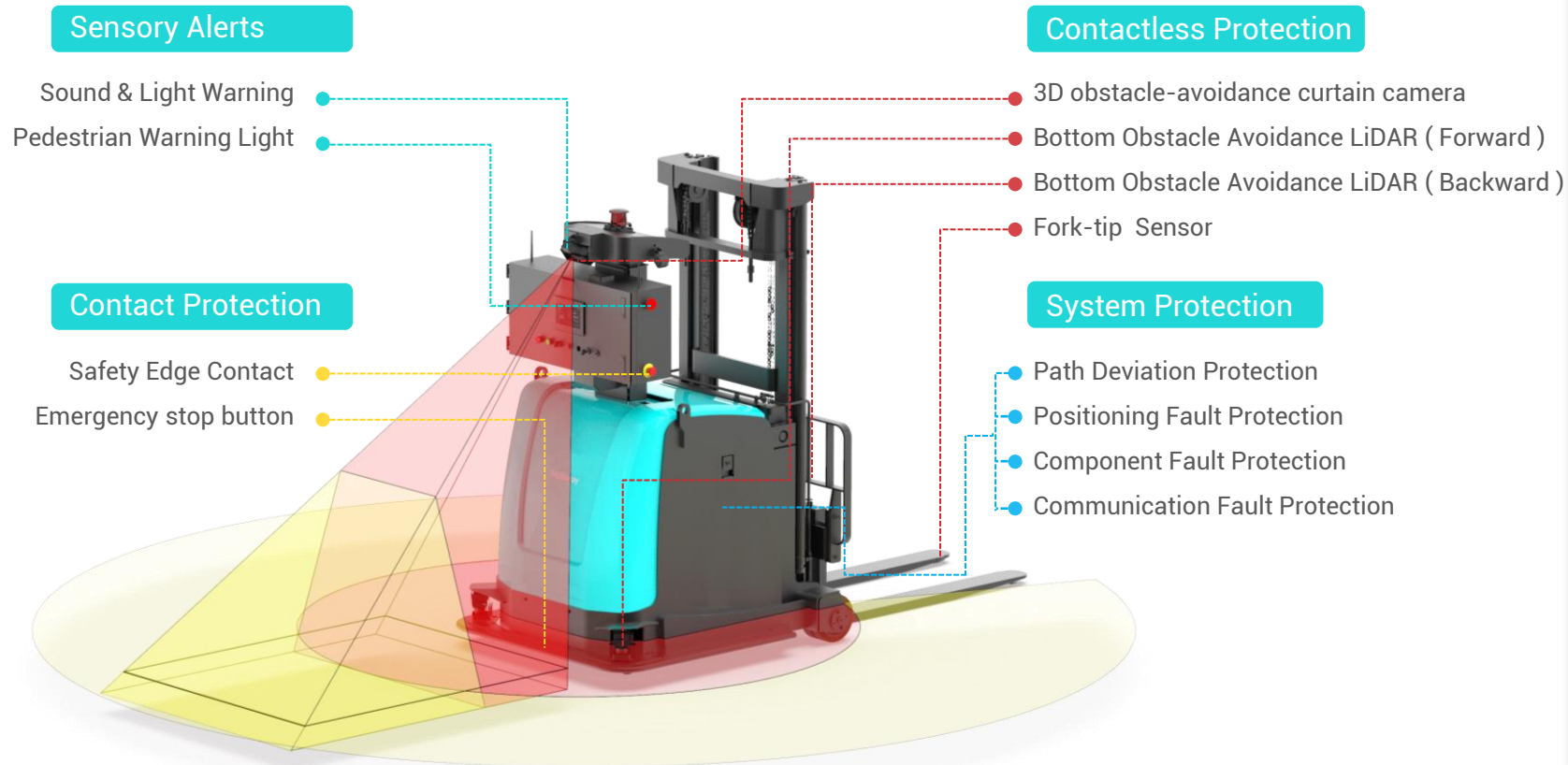


Sideloader

MW-K Series

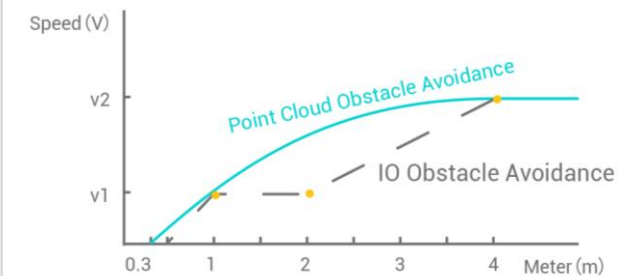
Robot Safety Protection

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.

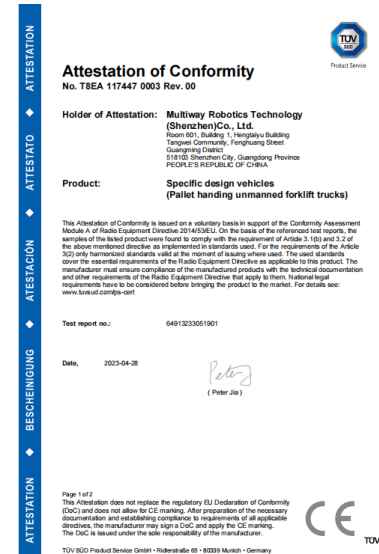


Robot Safety Protection



Forward 3D stereo obstacle avoidance camera

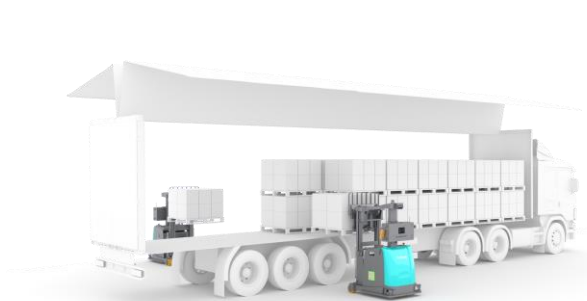
The example is based on counterbalanced forklift model. Configuration of safety sensor devices for different model varies so the product parameters shall prevail.



03 CASES AND APPLICATIONS

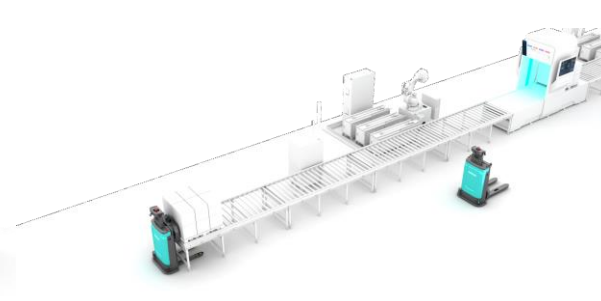
Applications

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



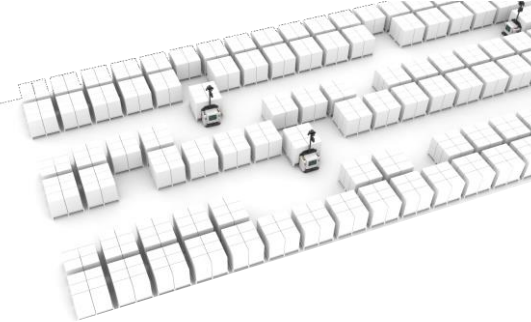
Truck Loading/Unloading

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



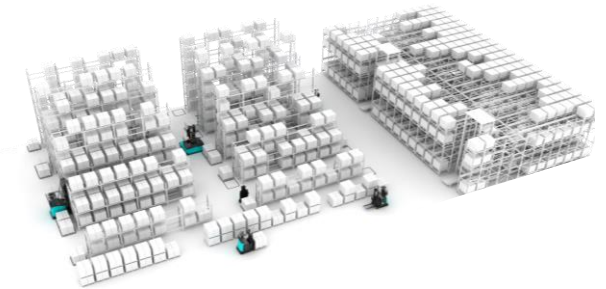
Docking with Production Line

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

Contact Us

Offices:

USA · Atlanta | Japan · Tokyo | Korea · Seoul | Germany · North Rhine-Westphalia |
China · Shenzhen

Tel : + 86 133 9286 4873

Email: sales@mw-robot.com

Official website: www.mw-r.com

