

Unmanned (Un)Loading Solutions

Trailer Truck

Wing Type Truck

Flatbed Truck

Leading Intelligent Intralogistics Solution Provider

20+ Industry Applied 40+ Countries & Regions 450+ Patents & Copyrights 1000+ Project Cases

Multiway Robotics is committed to "Empowering the World with Billions of Robots" and takes "To create a new and efficient operating mode" as its mission, continuously driving the advancement of global productivity.

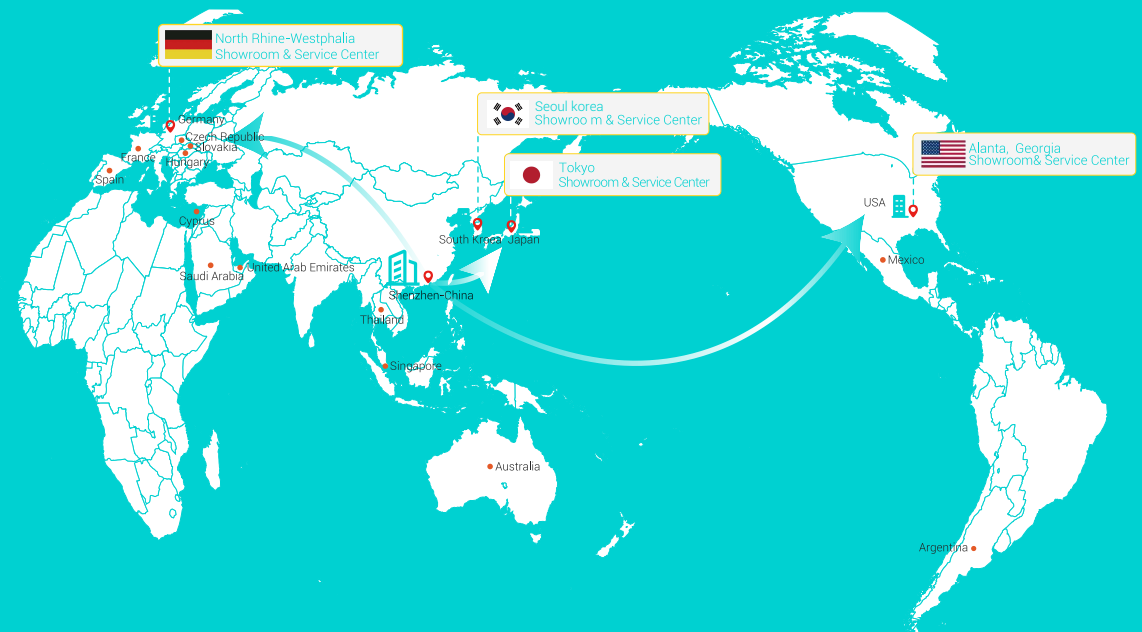
Global Presence: The headquarters is located in Shenzhen, China, with production facilities in Zhejiang Wuzhen. Multiway has also established subsidiaries in the United States, Germany, Japan, South Korea, and more, extending business, operations, and services to 40+ countries and regions worldwide.

Our Expertise: Focusing on advanced robotics and AI technology, Multiway Robotics is committed to delivering cutting-edge Smart Intralogistics Solution to our customers. Multiway offers a comprehensive, integrated innovation delivery platform and solutions, ranging from core sensors and algorithms to self-developed unmanned forklifts and upper-level control systems. Hardware products include a full range of unmanned forklifts and four-way shuttle, while software systems encompass WMS, RCS, WCS, on-site management systems, and various visual solutions.

Software: WMS, RCS, WCS, Multiway Horizons, Simulation

Hardware: AGV forklifts, AGV Tugger, AMR & Four-way Shuttle

After successfully delivering numerous benchmark projects in industries such as factories, warehousing, and logistics, Multiway has become a trusted and ongoing collaborative partner for many industry-leading customers.



Why it is important?

Our Intelligent and Unmanned Solutions Enhance Efficiency and Safety

High Labor Cost

Low Efficiency

Complex Management

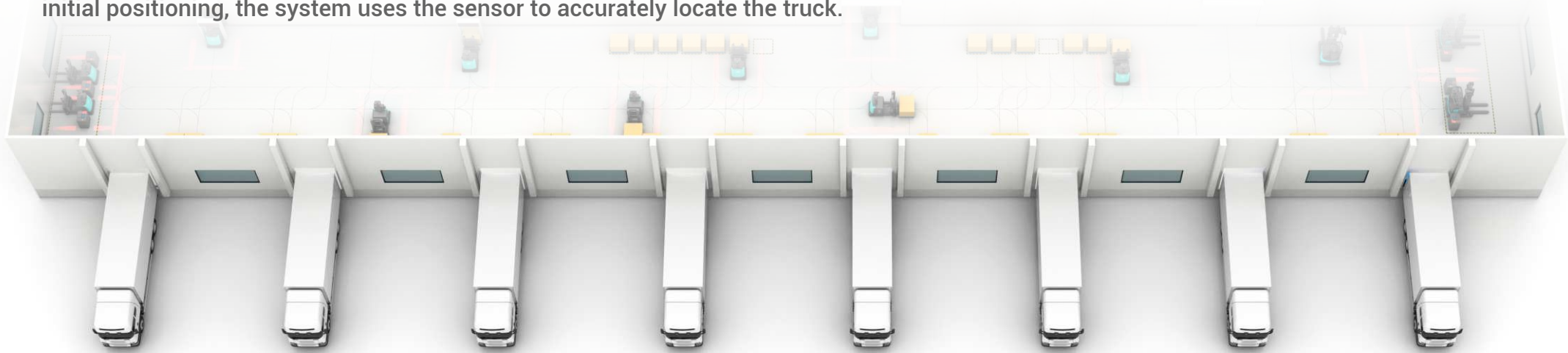
Lack of real-time monitoring

Lack of accurate operation data



Say goodbye to tedious manual (un)loading

The unmanned loading and unloading solutions locates vehicles and cargo warehouses based on various types of unmanned forklifts on hardware carriers and combines the Horizon System (on-board or off-board vision system) to limit truck stopping deviation. After reaching the initial positioning, the system uses the sensor to accurately locate the truck.



100% safety Guarantee



30% efficiency improvement



50% labor cost saving



10% increase in trailer space utilization

Trailer Truck Loading and Unloading Solutions

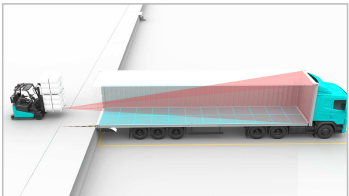
With unmanned forklift truck as the carrier, the innovative 3D lidar simultaneous localization and mapping (SLAM) and flexible vision technology are used to automate the trailer loading and unloading, suitable for pallet or pallet-free situation, as well as stacking goods in the truck.



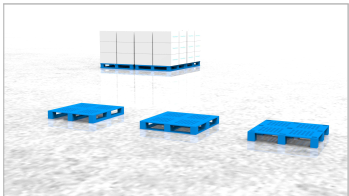
Max deck slope at 8°



Access to last set of cargos



Dimensions measurement and space allocation



Multi-pallet compatibility



Maximum space utilization with 0 clearance



Fall Prevention of the Vehicle



Dynamic Adjustment of Unloading Sequence

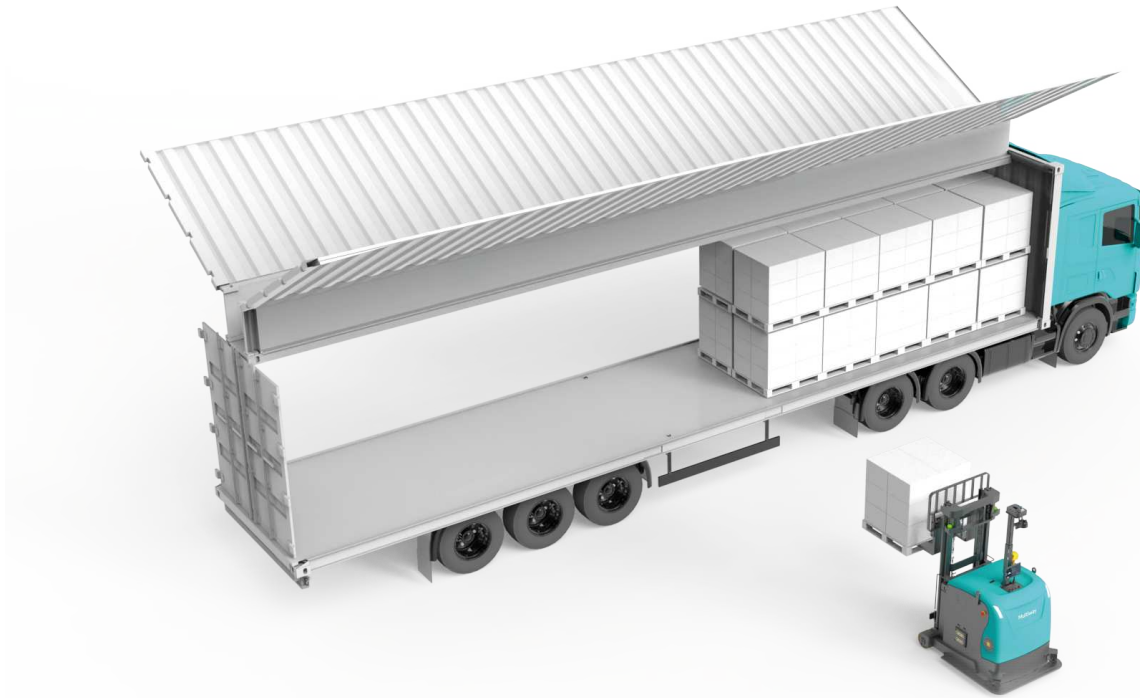


Automatic Check for Remaining Cargo on Trucks



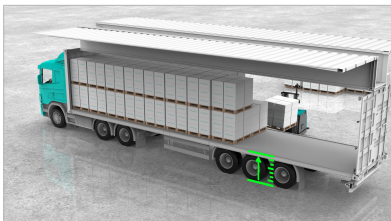
Support for High-Sided Cargo Trucks





Wing Type Truck Loading and Unloading Solutions

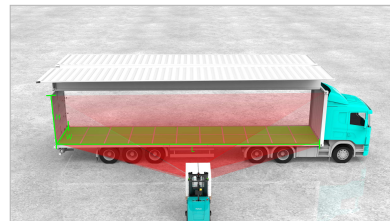
Based on the structural characteristics of the open compartment of the wing type truck, using unmanned forklift trucks to load and unload.



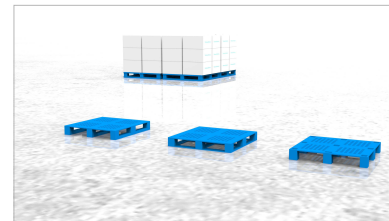
Support different height of wing type truck



Support mixed loading and unloading



Dimensions measurement and space allocation



Multi-pallet compatibility

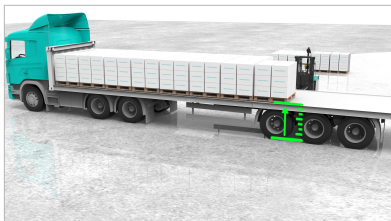


Maximum space utilization with 0 clearance



Flatbed Truck Loading and Unloading Solutions

Automated loading and unloading of flatbed trucks using unmanned forklifts as the carrier for top-open vehicles such as flatbed and high-bay trucks.



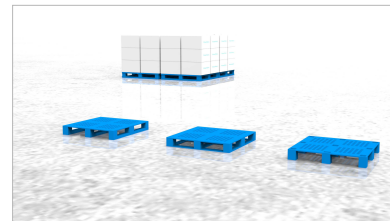
Support different height of flatbed truck



Support mixed (un)loading



Dimensions measurement and space allocation



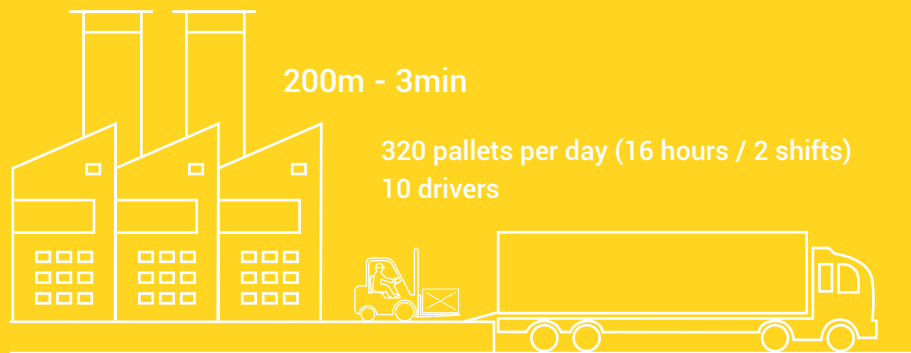
Multi-pallet compatibility



Maximum space utilization with 0 clearance

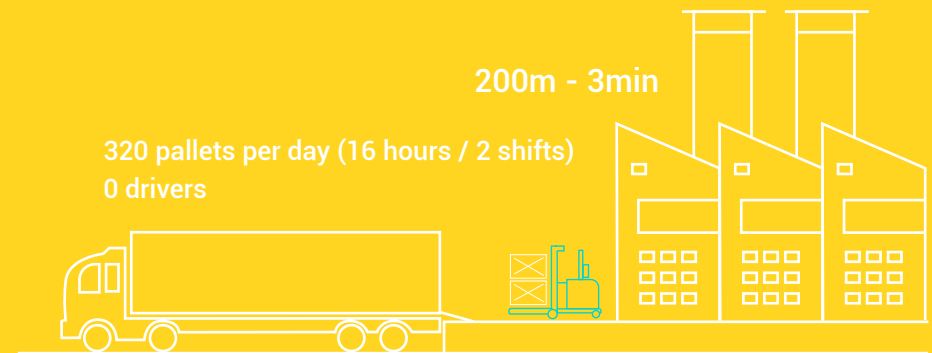
take a load off

Move the same number of pallets each day with an automated loading solution, with fewer people, trucks and forklifts...



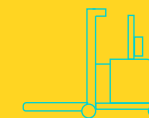
BEFORE

Factory
2 drivers



AFTER

Factory
0 drivers



40 minutes loading and unloading

Features



Intelligent Navigation



360° Safety Guarantee



Environmental Adaptation
(temperature, weather)



Sustainability



Facility Adaptations



Availability of All Products

Empowering the world with billions of robots



Overseas Offices:

Germany · North Rhine-Duisburg | USA · Atlanta

Japan · Tokyo | South Korea · Seoul

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