



SCANLOX
SCANDINAVIAN LOGISTICS

WEWO Monofork

Data Sheet



WEWO Counterbalance

Carts & Roller cages

Key Points

Easy Communication

Safety

Various Models

Customization Possibilities



Moving Your Innovations Forward

The Monofork is designed for both speed and efficiency. Its single-fork design makes it particularly suited for transporting load carriers without a center block, such as carts and roller cages, ensuring seamless handling and improved operational flow.

Its compact construction allows for precise and swift navigation in confined spaces. Despite its streamlined design, the Monofork maintains a high load capacity, making it a reliable solution for warehouses and production facilities.

VDA5050 Compatible

VDA5050 is an open standard for communication between autonomous robots and control systems. The standard ensures that robots from different manufacturers can be seamlessly integrated with central control systems.

All WEWO AGVs are fully compatible with the VDA5050.

AGV Applications



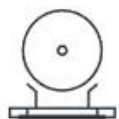
AGV Pallet
Handling



AGV Product
Handling



AGV Cart
Handling



AGV Roll &
Bulk Handling



AGV Assembly
Automation



AGV Machine
Cell Loading

Technical Specifications

Performance

Max. Lifting Height	1,200 mm
Max. Lifting Weight	1,000 kg
Max. Speed	1.6 m/s

Dimensions

2,381 x 951 x 2,335.5 mm (L x W x H)

Specifications

Navigation Method	Natural Navigation - Top
Lift System	Closed Lift System
Battery	Lithium-Ion
Certification	CE Standard
Powder Coating	RAL7016, RAL1007

Load Carrier Types

Compatible load carriers and handling configurations.



Cages

Plastic / Wood / Metal



Boxes

Plastic / Wood / Metal



Roller Cages

Plastic / Wood / Metal



Dollies

Plastic / Wood / Metal



Exceptions

Carriers with closed bottom

 Other types of carriers? Inquiry to supplier.

 NB: The vehicle is not limited by plastic wrap on the pallet's foot.

Fleet Management & WMS Application

The Software

The Fleet Management Software & MES provides all the essential tools to efficiently manage warehouse and production environments. It seamlessly controls multiple AGVs within the same space, optimizing workflow and minimizing disruption.

For businesses without an existing warehouse management system, the WEWO WMS application offers a complete solution. Designed to integrate seamlessly with the Fleet Management Software, this system enables full control over inventory and logistics.



Task Management

Assign, monitor, and prioritize tasks effortlessly.



Comprehensive Product Tracking

Monitors product positions and data in real time.



Alarm & Traffic Management

Prevent bottlenecks and ensure smooth operation.



Seamless Integration

Connects with production lines, machines, and delivery stations.



Deadlock Prevention

Optimize vehicle paths for continuous flow.



User Role Management

Ensures secure and efficient system access based on defined permissions.



System Integration

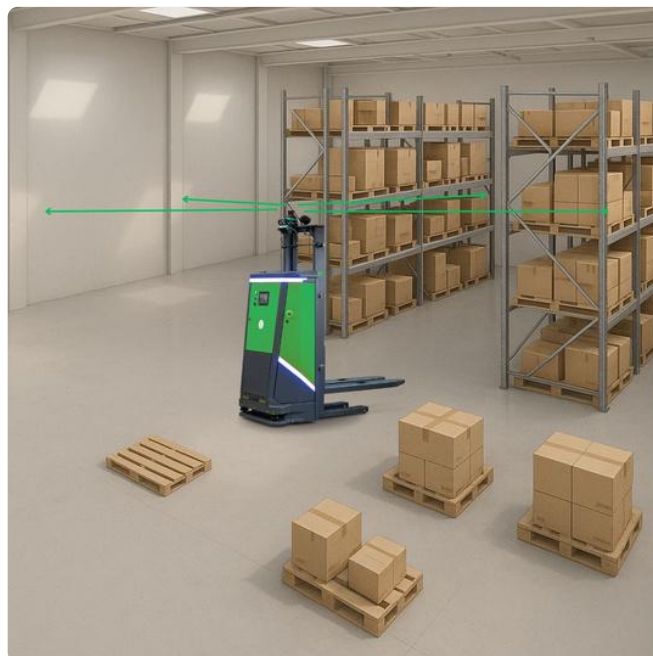
Connects seamlessly with MES, ERP, and other enterprise systems.

Navigation Method

Precision Laser Navigation

The Monofork utilizes natural navigation with top-mounted laser scanning to ensure precise and reliable movement.

Equipped with a high-accuracy laser scanner, the system continuously maps the environment, detecting reflectors to determine the vehicle's exact position.



Key Advantages

Highly Accurate Positioning

Advanced laser scanning provides precise location tracking.

Long-Range Detection

The scanner covers a wide area, ensuring efficient navigation.

Reliable in Dynamic Environments

Detects across flexible objects.

Enhanced Stability

Dead reckoning technology further refines positioning for consistent movement.

Energy Management

Charging System

The AGVs feature automatic charging, eliminating the need for manual intervention. When the battery reaches a minimum level, the AGV completes its current task and automatically navigates to an available charging station.

With this intelligent charging system, the AGVs remain operational with minimal interruptions, ensuring maximum efficiency in warehouse and production environments.



Key Advantages

Seamless Integration

AGVs recharge without disrupting operations.

Automated Docking

The integrated power collector ensures precise contact with the charging station.

Programmable Charging Levels

Adjust battery thresholds to optimize uptime and efficiency.

Minimal Downtime

Once charged, the AGV automatically resumes its next task.



Safety in the Overview by:

APN Connection

ISO 27001 Certified Data Centers

Encryption According to Highest Standards

Safety & Scanners

The AGVs are equipped with advanced safety systems designed to protect employees, infrastructure, and the robots themselves.

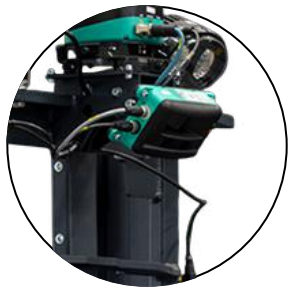
They comply with international standards such as ISO 3691-4 and EN1525.



Blue Spots



Navigation Scanner



"Collision Avoidance"



Load Sensor



Safety Scanners



Dimensions

