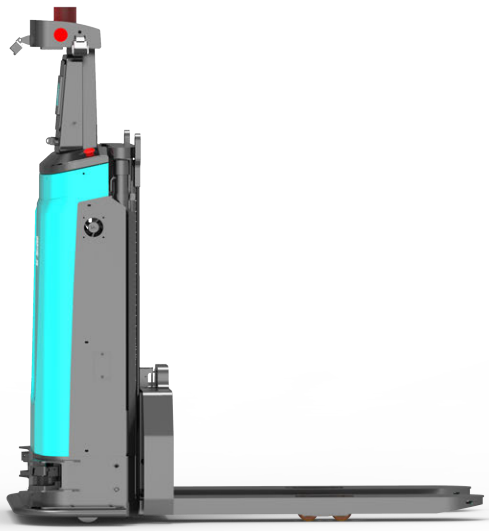
Leading intelligent intralogistics solution provider

Multiway Robotics



Pallet Truck AGV MW-SL14



Introduction

The Pallet Truck AGV MW-SL14 is applicable to the transfer and handling section in intralogistics automation. With a maximum load of 1400 kg, a lifting height of 2500 mm, and a turning radius of only 1140 mm, it can be used flexibly in extremely narrow passages or floor-stacking warehouses. In addition, it has pallet pose identification, safety detection, and other functions to ensure safety and efficiency of both people and vehicles and greatly improve the overall handling efficiency.

The Multiway unmanned forklift adopts laser navigation and location without the need to change the on-site environment. It provides sophisticated control and scheduling functions including mapping, path planning, auto-charging, automatic operation, traffic control, coordinated docking, equipment interconnection, and cluster scheduling. Seamlessly connected with WMS/WCS and other systems, it can successfully realize intelligent and automated intralogistics.

Features

Environment Adaptive

Laser navigation and positioning
No need to renovate the on-site environment

Highly Intelligent

Mapping, path planning, and auto-charging
Applicable to multiple scenarios with intelligent operations

High Precision

Primary positioning precision: ±5 mm
Secondary positioning precision: ±2 mm

Intelligent Safety

Perfect fault self-detection
All-round safety with obstacle avoidance and sound & light warning

Fully automatic

Applicable to multiple scenarios



User-friendly interface

- Available on PC, tablet, and smartphone
- All-round visual control of the operation of unmanned forklifts



Specifications

Navigation	Laser SLAM Navigation	○
	Laser Reflector Navigation	●
Communication	Wireless WiFi	●
	Optical Communication	○
	5G	○
Basic Specifications	Rated Load (kg)	1400
	Turning Radius (mm)	1140
	Maximum Lifting Height (mm)	2500
	Load at Maximum Lifting Height (mm)	1200
	Weight (kg)	940
	Dimensions L×W×H (mm)	1715×1010×2300
Movement Features	Driving Features	Forward, backward, turn
	Driving Speed (No Load/Full Load) (m/s)	1.38
	Positioning Precision (Center of Bearing Wheel) (mm)	±5
	Cross-Groove Capability (mm)	⩽30
Safety Protection	Manual/Auto	●
	Path Deviation Protection, Positioning Fault Protection	●
	Component Fault Protection, Communication Fault Protection	●
	Bottom Obstacle Avoidance Radar	●
	Stereo Obstacle Avoidance	○
	Fork Head Anti-Collision Detection	●
	Anti-Collision Strip	○
	Emergency Stop Button	●
	Sound & Light (Warning)	●
	Position Lamp	●
	HMI	●
Forklift Arm Features	Goods Presence Detection	●
	Goods In-Place Detection	●
Battery Specifications	Charging Mode	Auto/Manual
	Battery Type (Standard)	Lithium iron phosphate
	Standard Capacity (Ah)	200 Ah
	Discharge Rate/Runtime (h)	6–8h
	Charging Pile Specifications	24V 100A
Visual Function	Pallet Pose Identification	●
	On-Fork Goods Appearance Detection	○
	Weight Detection	○
	Barcode/RFID Identification	○

● Standard ○ Optional

The dimensions can be customized to satisfy project requirements.



Value

Increased Productivity

Unmanned forklifts can effectively save labor costs and improve driving safety. The adoption of auto-charging technology ensures 24-hour stable and efficient operation, significantly increasing productivity.

Transparent Data Management

The use of big data enables the interconnection with other logistics equipment and warehousing equipment, which extends single product application to systematic application and allows for transparent data management in factories.

Reduced Maintenance Cost

Unmanned forklifts effectively reduce production costs by cutting labor costs. They can minimize the on-site renovation workload with modular deployment and greatly increase the level of automation, which can provide a better user experience and the investment can be returned in half a year to two years.

Recommended Applications

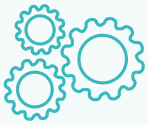
Automobile and supporting industries, food, microelectronics, machining, medical apparatus and instruments, aerospace, printing and packaging, express delivery…



Automobile and supporting industries



Food



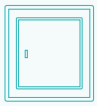
Machining



Medical apparatus and instruments



Aerospace



Building materials



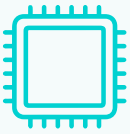
New energy



Garment



Cold chain distribution



Microelectronics



Hardware & tools



E-commerce logistics



Military



Printing and packaging



Express delivery



Household

Multiway Robotics

Multiway Robotics is a leading intelligent intralogistics solution provider. Headquartered in Shenzhen, China, we have offices in East China, Central China, North China, Southwest China, Northeast China, and other places, and also have established overseas operation centers, with business sales, operations, and services covering all regions at home and abroad.

Dedicated to advanced robotics and artificial intelligence technologies, Multiway Robotics provides customers with complete intelligent manufacturing and logistics solutions. We offer a variety of hardware products, including unmanned forklifts, Autonomous Mobile Robots (AMRs), unmanned tractors and four-way shuttles, and software systems, including Multiway Cloud, WMS, WCS, on-site management systems, and visual solutions. These products and solutions have been successfully applied to a large number of benchmarking projects in factories, warehousing, logistics, and other fields, making Multiway Robotics become a trusted partner of many leading enterprises.



Contact Us

Tel: +86 133 9286 4873

E-mail: marketing@mw-robot.com

Website: www.mw-robot.com

Address: 6th Floor, No. 1 Building, Hengtaiyu Tower, Fenghuang Street, Guangming District, Shenzhen, P.R.China (Headquarters)

Building D, Dongjiang Science and Technology Industry Park, Fenghuang Street, Guangming District, Shenzhen, P.R.China (Factory)

Subscribe to get the latest Multiway Robotics news

Multiway Robotics | Search