

# QUATERWAYS.

**AUTOMHA**



## MULTIDIRECTIONAL SHUTTLE

TO MAXIMIZE  
YOUR WAREHOUSE'S **CAPACITY,**  
**PRODUCTIVITY,**  
AND **FLEXIBILITY.**

[automha.com](https://automha.com)

# QUATERWAYS.

## QUATERWAYS, THE SHUTTLE CAPABLE OF MOVING AUTONOMOUSLY IN ALL DIRECTIONS, IDEAL FOR ALL INDUSTRIAL SECTORS.

**Quaterways** is **Automha's** system designed for the autonomous handling of pallets within multi-level racking.

Thanks to its **advanced technology**, the shuttle moves orthogonally along aisles and enters accumulation channels, ensuring fully **automated storage and retrieval operations**.

Unlike traditional mother-child vehicle systems, Quaterways offers unprecedented versatility in warehouse design, **adapting to complex layouts and optimizing available space**.

The entire process is managed by **AWMS (Automha Warehouse Management System)**, which coordinates movements in real time to ensure **maximum precision, efficiency, and operational continuity**.

Quaterways is the ideal solution for companies looking for a scalable, **high-performance storage system capable of adapting** to the most complex logistics needs.

## ADVANTAGES

### WHY CHOOSE QUATERWAYS?



#### OPERATIONAL EFFICIENCY

Thanks to the speed and adaptability of the shuttles.



#### OPTIMIZATION OF STORAGE SPACE

Maximizing warehouse capacity.



#### HIGH VERSATILITY

Each channel can accommodate different references and pallet formats.



#### AUTONOMOUS AND INTELLIGENT MANAGEMENT

With advanced software controlling flows and optimizing movement paths.



#### MODULAR EXPANDABILITY

The system can be easily expanded to meet business needs.



#### OPERATIONAL ADAPTABILITY

Additional shuttles can be integrated to enhance warehouse performance.



#### ENERGY SAVINGS

Ideal for low-temperature warehouses.



#### ADVANCED POWER SUPPLY

With a safe and reliable 48V lithium-ion battery.



#### LATEST-GENERATION BRUSHLESS MOTORS

For high performance and long lifespan.



#### REDUCED INFRASTRUCTURE IMPACT

No busbar and widespread Wi-Fi communication for greater operational flexibility.

# APPLICATIONS

## MAXIMUM EFFICIENCY AND STORAGE DENSITY WITH QUATERWAYS.

### High-turnover warehouses

Ideal for efficiently managing large volumes of inbound and outbound pallets.



### Intensive storage

Perfect for companies with a high number of pallets per reference, maximizing space and performance.



### Refrigerated and frozen storage

Suitable for cold storage, optimizing space, reducing costs, and minimizing operator exposure to cold environments.



# FUNCTIONS

## HOW DOES QUATERWAYS WORK?

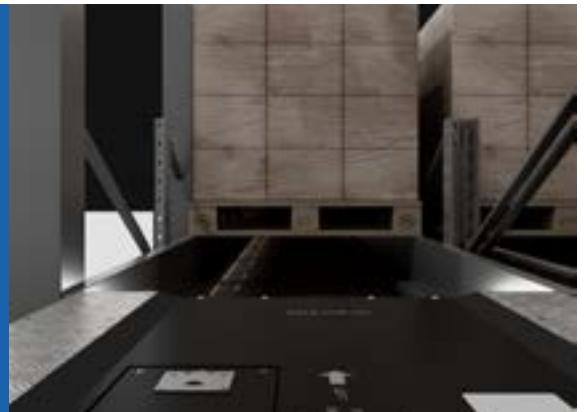
### STEP 1

Quaterways picks up the pallet from **the front of the racking**. The **AWMS system** identifies the optimal storage position and calculates the most efficient route to reach it.



### STEP 2

Thanks to its elevator, Quaterways moves to the assigned level. Once there, it follows the path established by AWMS, which **regulates the shuttles' speed** through an **advanced sensor system**.



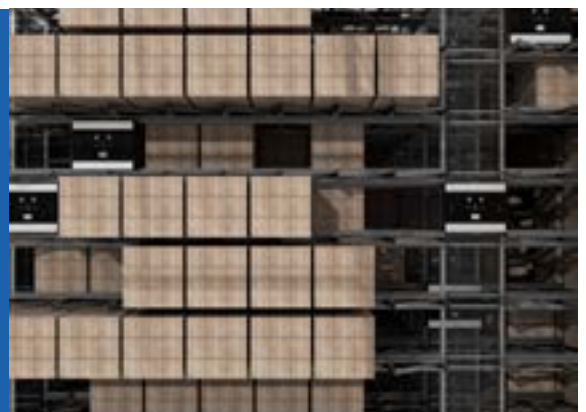
### STEP 3

Upon reaching the designated storage aisle, Quaterways slightly lifts the pallet and moves it inside to the deepest available position, **optimizing pallet organization**.



### STEP 4

After placing the pallet, Quaterways exits the aisle, either from the same entry point or the opposite side by passing under other pallets. **AWMS coordinates its reintegration** into the movement flow and **assigns the next operation**.



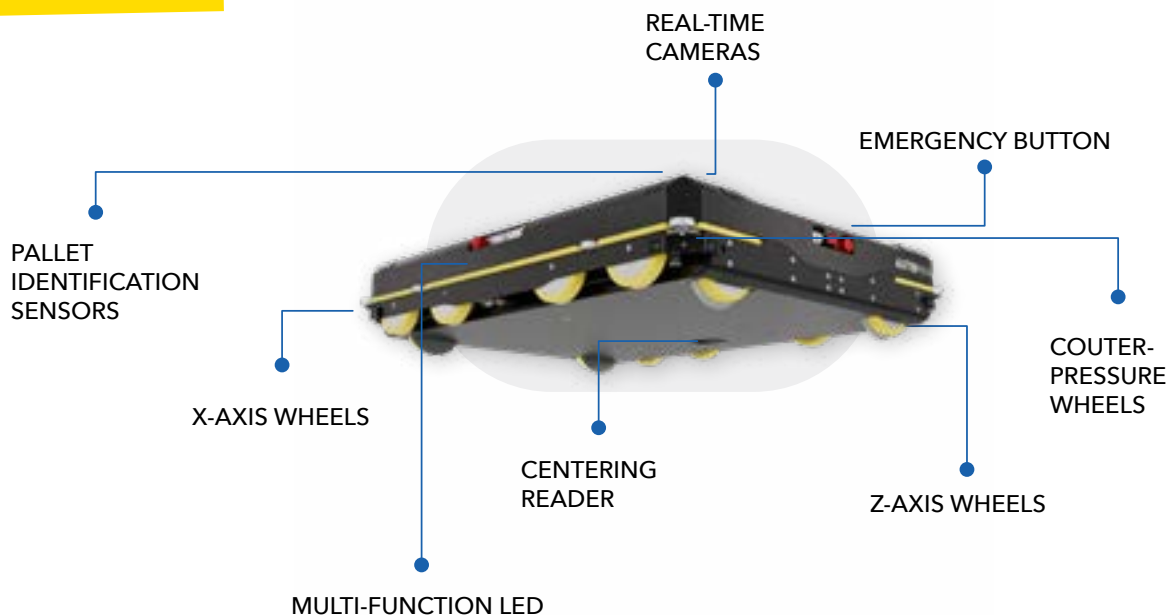


# MULTIDIRECTIONAL SYSTEM



Quaterways is the ideal solution for automated warehouses requiring **high handling capacity and space optimization** without compromise, ensuring efficiency, reliability, and innovation across all industrial sectors.

## SPECIFIC DETAILS



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