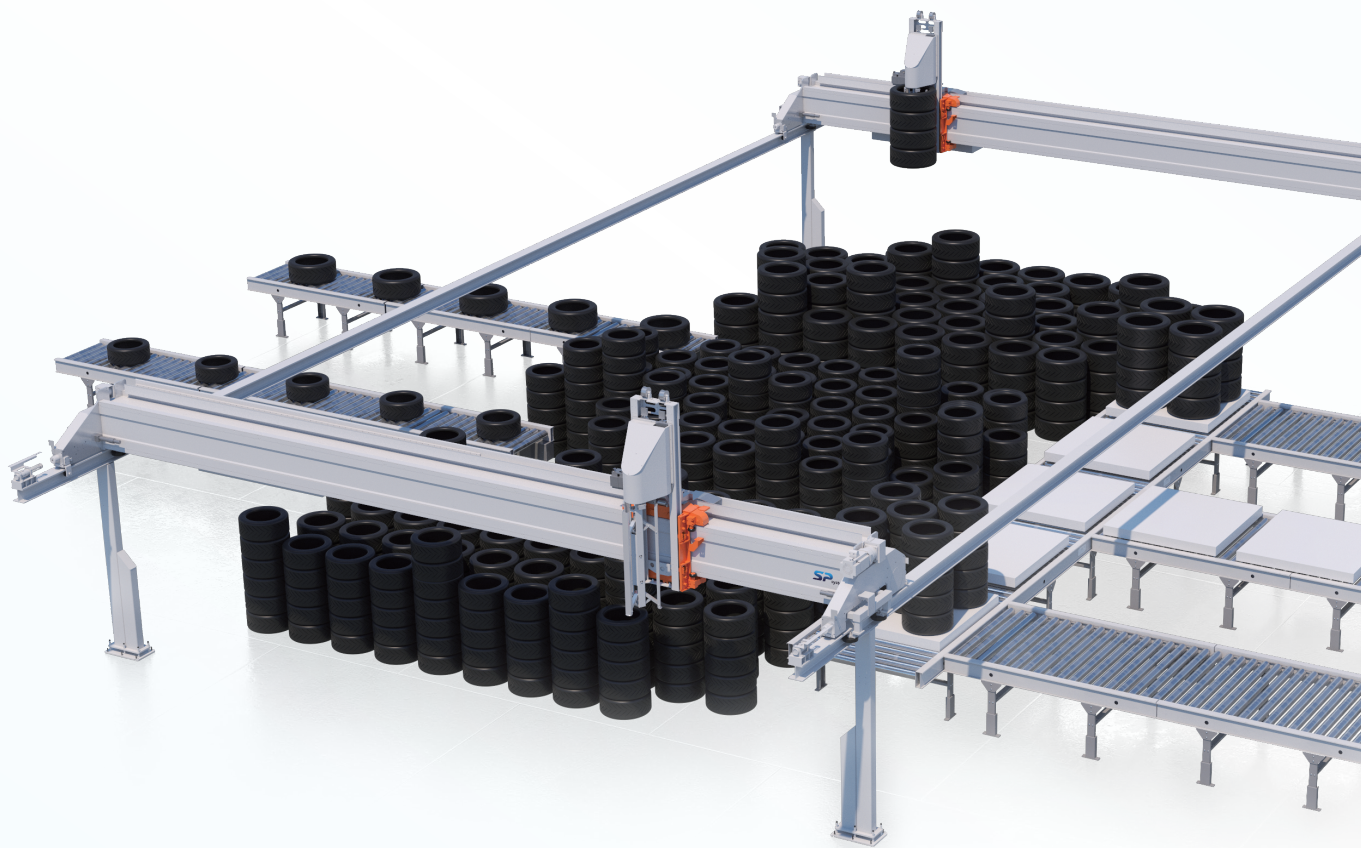


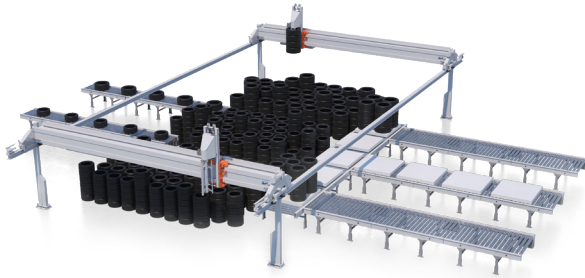
GANTRY ROBOT AUTOMATION SOLUTION

TIRE AUTOMATED WAREHOUSE SYSTEM

SMART PROGRESSION · SMART PERFORMANCE · SMART PROFESSION



Tire Automated Warehouse Solution



Gantry Robot

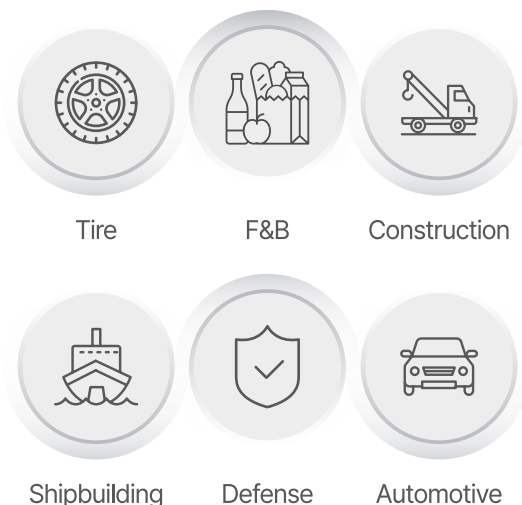
A robot system that enables high-speed and high-precision linear transport by utilizing a high precision linear guide system.

Tire Automated Warehouse Solution

Completed tires undergo classification by model in the gantry warehouse, followed by temporary storage. Subsequently, they are palletized and transferred to the Main logistics warehouse.

A solution where outbound tires from the main logistics warehouse are classified by model in the gantry warehouse and palletized according to the requested shipment quantity before shipment.

Main Applicable Industries



Advantages of the Automated Warehouse Solution

✓ Maximum Space Efficiency

- Saves space and enhances usability by directly stacking items on the factory floor without the need for separate storage racks.

✓ Optimized Logistics Management

- Through the WMS (Warehouse Management System), the inventory is managed efficiently, and it is easy to form an unmanned automation of the factory logistics system by linking with logistics robots and automation equipment.

✓ Operational Flexibility

- Enables storage and preservation of various bulk materials, ultra-heavy and large products.
- Enables form the warehouse layout according to the shape of the workpiece.

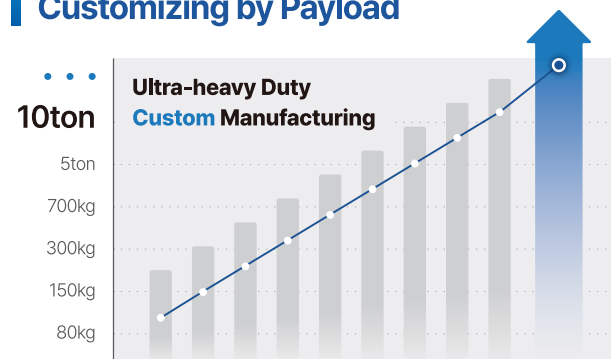
✓ Cost Reduction

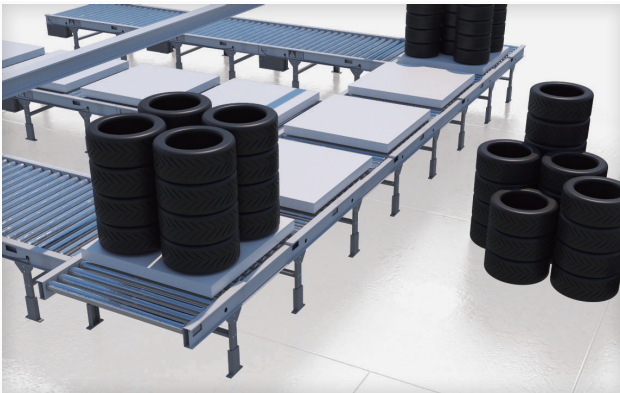
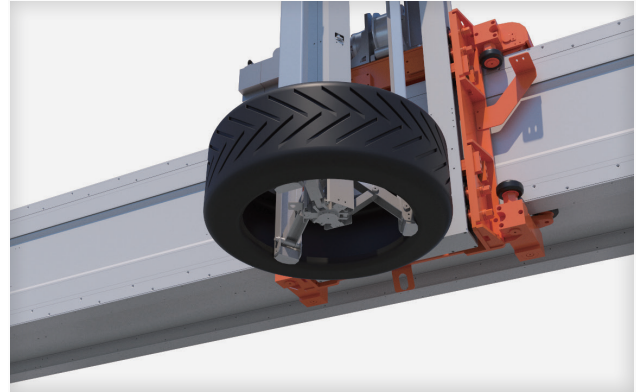
- Through WMS enables 24/7 unmanned operation, Reducing labor costs and optimizing operational efficiency.

Rack-Type vs. Gantry Robot Automated Warehouse

Category	Rack-Type	Gantry Robot
Equipment Cost	High (equipment + storage racks)	Low (No storage racks)
Equipment Cost	Limited (affected by rack space)	Flexible stacking space configuration
Maintenance Cost	High (equipment + storage racks)	Low (Only for Gantry Robot)
Storable Items	Pallet, Box based type	Bulk, Large and Ultra heavy Etc.
Operational Flexibility	Difficult to modify rack structure	Flexible configuration of storage positions

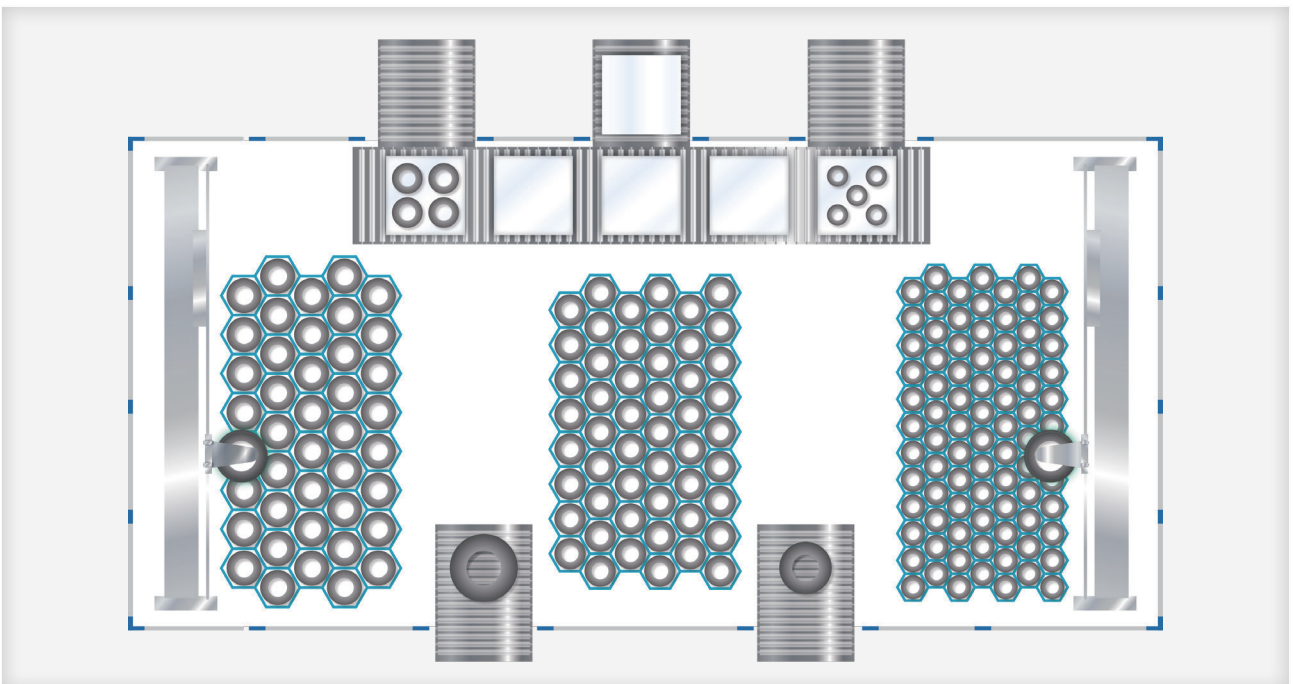
Customizing by Payload





Transportation and Storage Method for Maximum Space Utilization

Enhanced management efficiency and space utilization maximization through a honeycomb structure layout by categorizing and storing tires according to their size and specification.





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