



Autonomous travel by identifying the optimal path!

AI Transfer Robot



Product features

Guideless operation

The robot itself identifies the optimal path without a guide tape or complicated instructions from an operator.

Easy operation from a tablet terminal

The robot creates a map from the CAD data of the factory and understands the factory map correctly. You simply set the destination and operation content on the tablet screen for the robot to automatically plan the travel path. You can also easily set "No Entry" areas and change a process or layout.

The automatic obstacle detection system

Using the built-in camera and laser sensor, the robot detects obstacles and people in all directions and automatically avoids them for safe travel.

Omnidirectional movements

Because 360° rotations and omnidirectional movements are possible, you can readily introduce the robot to an existing transfer space.

Smooth delivery using the lift function

After arriving at the destination, the robot itself loads/unloads the transported cargo to ensure smooth pickup/delivery from/to the next process.




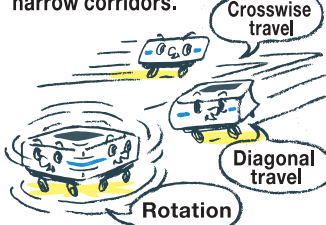
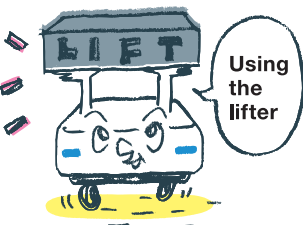
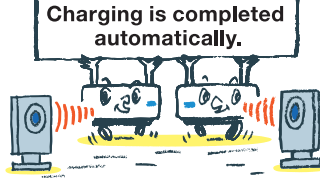


Equipped with wireless charging system

Our "D-Broad Slim" wireless power feed system enables 24-hour continuous operation.

AI determines the travel path based on map information.


The robot's flexible movements help to fully automate and reduce the labor of transfer operations within the factory!

This product has been developed on the concept of implementing transfer operations <as if a person is transporting a load with a push cart.> As the primary feature, the robot itself identifies the optimal travel path and transfers loads safely by moving in accordance with the environment.

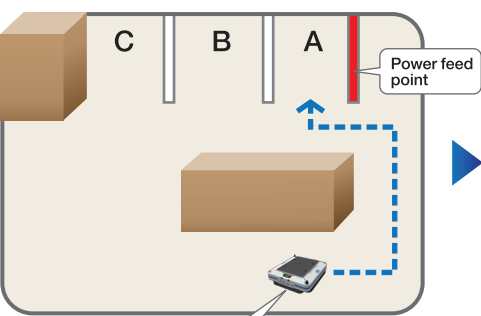
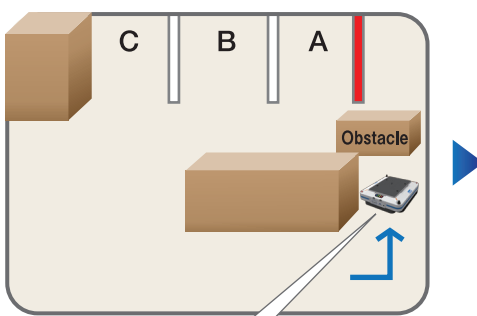
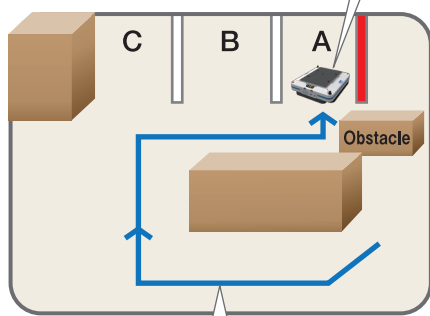
 <p>All you do is to specify the destination and operation content on the tablet terminal. Then, leave everything to the robot!</p>	<p>The robot identifies the optimal path and travels on its own.</p> 	<p>Using the camera and sensor, the robot detects obstacles.</p> 	<p>With omnidirectional movements, the robot can travel through narrow corridors.</p> 
<p>Loading/Unloading</p> 	<p>Wireless power feed system allows 24-hour continuous operation.</p> 	<p>The robot can transfer loads as heavy as 700 kg.</p> 	<p>The robot immediately responds to changes in layout or instructions.</p> 

Example of AI transfer robot operation

[1] You specify destination A from the tablet terminal.



Since the AI transfer robot has the map information already installed, it can execute the specified operation simply by receiving the destination and operation content. If the robot comes across an unexpected obstacle, it chooses another path by avoiding the obstacle or pausing in consideration of safety, and subsequently transfers the load as specified. When a power feed point is installed at the unloading site, the robot completes power feed during the operation.

Planning	Execution and reconsideration	Execution via another path
 <p>[2] Robot plans the path.</p>	 <p>[3] Robot detects an obstacle and reconsiders the path.</p>	 <p>[4] Robot travels to destination A via another path.</p>

Main specifications	External dimensions	W1230×D1550×H400mm (when the lifter lowers)	Weight	550kg	Travel speed	0.7m/second at maximum (without load)
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Product specifications and designs are subject to change without prior notice.