Transport automation that can flexibly respond to the factory environment

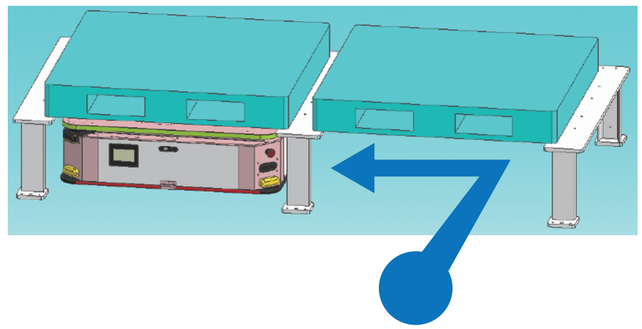
Factory Automation System using AiTran

Tasks when installing Autonomous Mobile Robot

- Production lines change frequently, making it difficult to change transportation routes
- Narrow passages, steps, and inclines are not possible
- It is difficult to route the signal lines of the linked equipment.

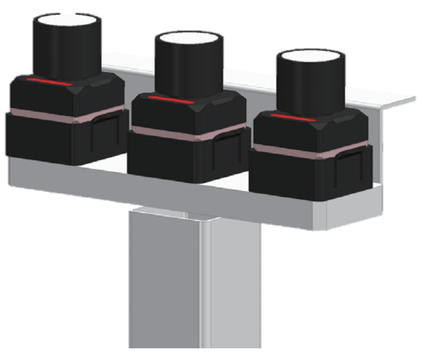
You can change the driving layout when offline.

- It is possible to create driving routes without stopping the production line.



Moving in all directions, driving on rough roads

- It is possible to move sideways from a straight line to a side movement without switching postures.
- Efficient driving in narrow passages
- Slope 3°, groove 30mm, step 10mm, striped steel plate, on grating,can run



Uses wireless I/O to coordinate with equipment

- No need to route wiring even in large factories

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AiTran Lift (1000kg payload)

1m×1m footprint

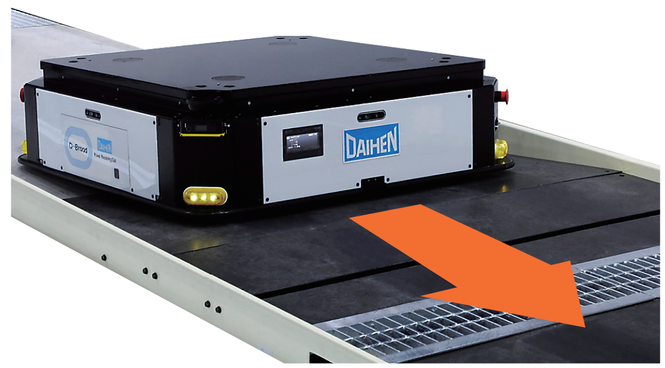
- 45% reduction than before model, perfect fit for 1.1m × 1.1m pallets
- Since it is a square footprint, the direction of entry is free.

Overall height 300mm (built-in 100mm lift)

- The lift-up height of 100 mm remains the same.
  Since the floor is lowered by 25% than before, it is easier to dive into shelves and trolleys.

High-speed and stable transport

- The driving speed has been improved by 1.5 times than before,
  and it can drive the shortest distance in all directions.
- With 4WD, it can easily run on inclines and striped steel plates.



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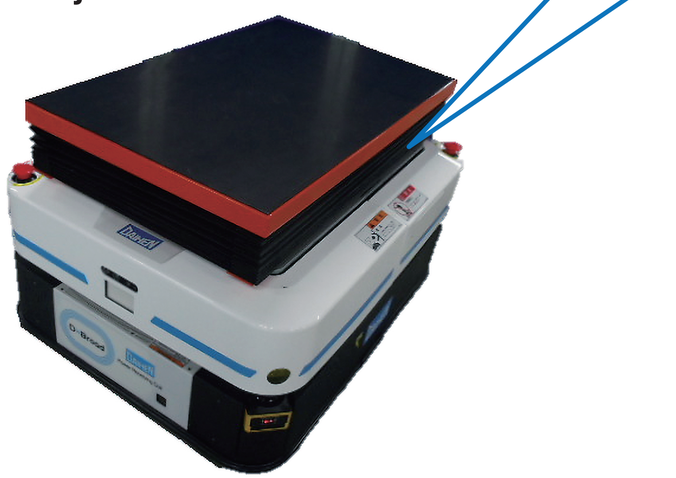
AiTran400 (400kg payload)

It can be transported in narrower aisles.

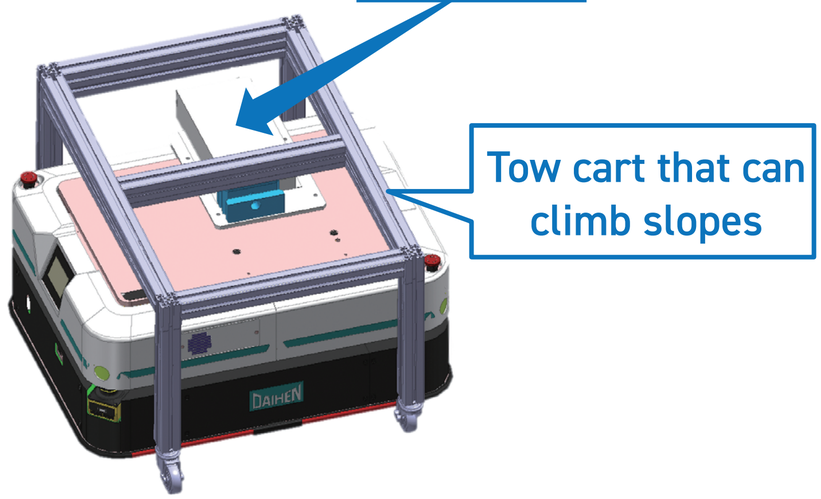
- Body width: 0.72m
- Omni wheel movement in all directions makes it possible to make small turns

Various Transportation Methods

- By combining it with external equipment, it can be used for a variety of conveyed objects.
- Individual design is possible to suit to the customer's requirements.



Lifting and transporting pallets



Transported by towing a cart

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Supports wireless I/O　Conveying system

Pushbuttons are wireless

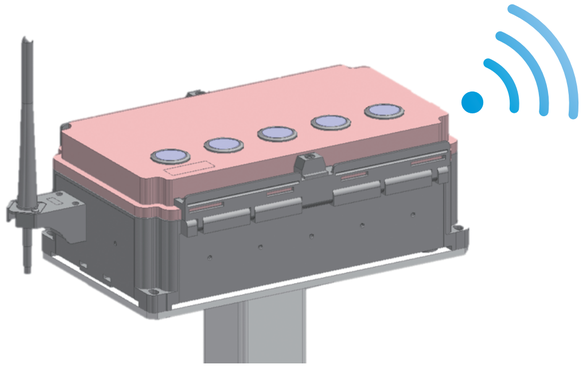
- No need to route power or signal wires

The cargo signal is wireless

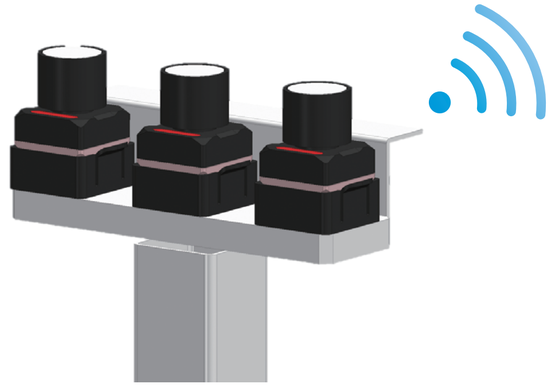
- By incorporating the signal into the wireless unit, the wiring is shortened.

Easy control by PLC-based

- There is no need for complex controls in the control cabinet of the entire management.



The signal line is wireless
(I/O compatible type)



Both the signal line and
the power line are wireless
(Output only compatible type)