

How can OTTO work for your material handling?

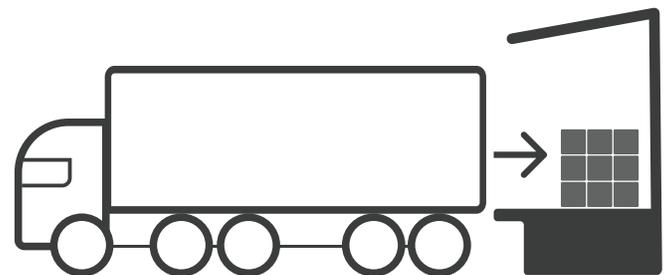
Inbound to Storage

In the Inbound to Storage process, humans are required to operate pump trucks and forklifts to transport materials to deconsolidation or storage. This means highly skilled humans are deployed in the low skilled, repetitive task of transporting materials across longer distances in an operation.

Employing OTTO Autonomous Mobile Robots (AMRs) for your Inbound to Storage process allows workers to remain in high value added roles that require the unique skills of trained employees. OTTO handles the low skill, repetitive tasks of moving heavy loads across long distances, delivering materials to storage or deconsolidation.

Workflow

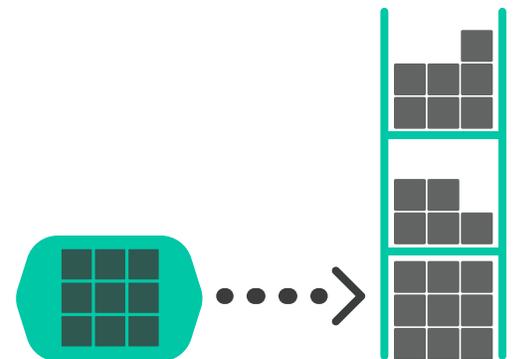
- 1 Materials arrive at the inbound shipping docks of a facility on pallets ready to be unloaded.
- 2 A human operator driving a forklift unloads skids from the truck and places the pallets on a P&D stand or conveyor.
- 3 OTTO, equipped with a lift or conveyor, drives under the stand or docks with the conveyor belt to pick up payload.
- 4 OTTO then takes the pallet to a designated location in the facility for either deconsolidation or racking to bins for storage.
- 5 OTTO delivers the pallet to its destination and is labeled empty, becoming available for the next mission.



Materials arrive at the inbound shipping docks of a facility, to be unloaded.



A forklift operator moves the pallet to a P&D Stand and OTTO, equipped with a lift, picks up the pallet from the stand.



OTTO delivers the pallet to its destination for storage or deconsolidation.

What's Involved

- Forklift operator
- Robot operator/supervisor
- OTTO AMR with attachments
- OTTO Fleet Manager
- Process Engineer



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Inbound to Storage

Pitfalls to traditional process

- ⊗ Highly skilled humans are deployed in low skilled, repetitive task of transporting materials across longer distances.
- ⊗ Constant movement of heavy vehicles operated by humans can result in human error, accidents, and downtime.

Value gained with OTTO

- ✔ OTTO cuts down travel time and permit drivers to focus on higher value tasks.
- ✔ OTTO operates with fewer accidents and work 24/7 resulting in higher and more predictable throughput.

AMR implementation in manufacturing is generally driven by the need for cost savings, and the ROI is usually calculated through the reallocation of Full Time Equivalents (FTEs).

This chart highlights the other opportunities for costs savings and additional value that can be gained when AMRs are deployed.



How do I know if this workflow is right for me?

- ✔ Using tuggers to transport inbound materials on skids to deconstruction or storage racks in facility.
- ✔ Stable, well-balanced payload of up to 1500kg (3300 lbs).
- ✔ Flat, indoor, single floor operation with distinguishing features for localization.
- ✔ Designated drop off locations for deconsolidation or racking.
- ✔ Seeking flexibility for reconfiguration of routes.



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