

How can OTTO work for your material handling?

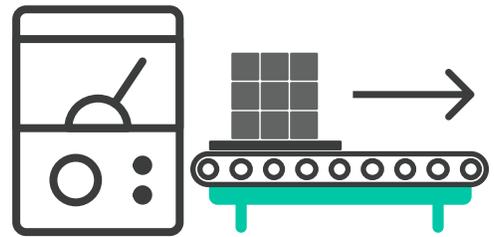
Finished Goods Transfer

Transferring finished goods from the end of the production line for storage or shipment is the last crucial step in getting product to customers. Traditionally, this would involve multiple employees and pieces of equipment, such as forklifts, to handle the product as it moves from the production line to storage or shipment.

OTTO Autonomous Mobile Robots (AMRs) reduce the need for human involvement by autonomously moving product throughout the facility. This improves safety, reduces labor costs, and increases throughput.

Workflow

- 1 | Palletized goods are placed on a P&D stand or conveyor for transport.
- 2 | OTTO is requested via workstation or PLC integration to pick up the pallet.
- 3 | OTTO navigates to workstation and picks up pallet from P&D stand.
- 4 | Pallet is transported to designated location for storage or staging.
- 5 | The job is now complete and OTTO is released for another mission.



Palletized goods are placed on a conveyor for transport.



OTTO navigates to pick up the pallet.

What's Involved

- Operator (tending machine, working at a station)
- Robot supervisor/operator
- OTTO 1500 AMR with lift or conveyor attachments
- OTTO Fleet Manager



OTTO transports the pallet to designated location for storage or staging.



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Pitfalls to traditional process

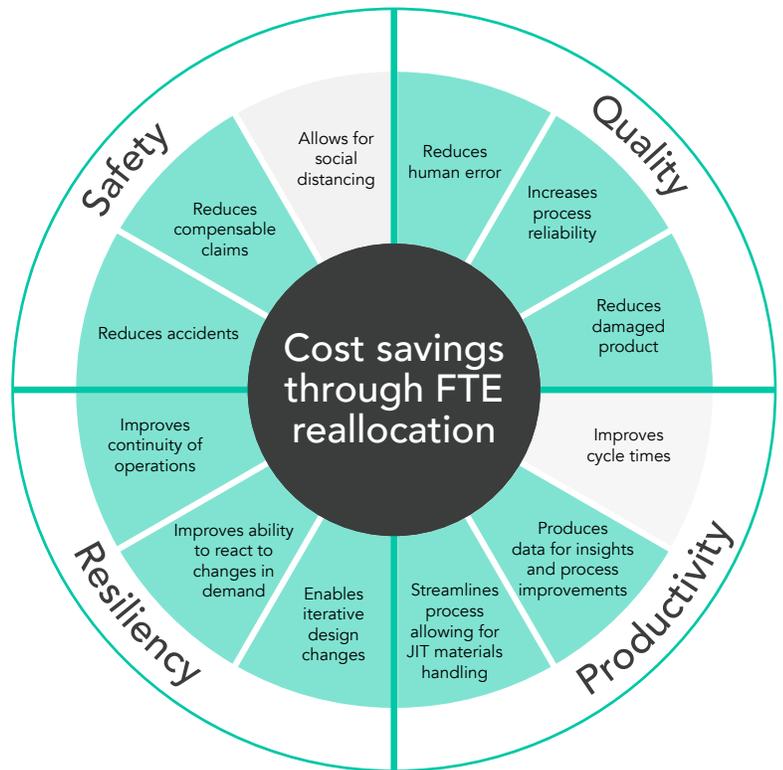
- ⊗ High overhead cost to maintain licensed forklift Full Time Equivalents (FTEs).
- ⊗ Constant movement of heavy vehicles operated by humans can result in human error, accidents, and downtime.

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

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

Value gained with OTTO

- ✓ Using OTTO to travel longer distances in a facility will enable the reallocation of FTEs to more complex tasks.
- ✓ OTTO operates with fewer accidents and work 24/7 resulting in higher and more predictable throughput.



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

- ✓ Currently using forklift drivers to move finished goods on pallets through facility.
- ✓ Dedicated pick-up & delivery locations.
- ✓ Flat, indoor, single floor distribution center with distinguishing features for localization.
- ✓ Repeatable routes with designated consolidation and transport.
- ✓ Seeking flexibility for reconfiguration of lines or routes.



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