How can OTTO work for your material handling?

**Picking to Packout or Consolidation**

In picking operations, picking tasks can be completed by humans or machines. Once their picking tasks are complete, the output materials are transported to a packout or consolidation area.

Whether picking is completed by humans or machines, humans are often used to transport picked materials to packout or consolidation. OTTO AMRs (Autonomous Mobile Robots) can automate this material movement process to help ensure pickers are maximizing their output.

### Workflow

1. Picking team member completes picking task and gathers carriers onto their pushcarts.
2. Picking team member ensures the OTTO cart is in a designated pick up position.
3. Team member uses a workstation tablet to call OTTO to pick up the cart.
4. OTTO travels to pick up position and collects cart, then transports it to drop off location in packing area.
5. Team member packs the product on the cart and moves packed product to appropriate shipping container.
6. Team member uses workstation tablet to indicate when a cart has been emptied or moved.

### What’s Involved

- Material / Goods picker
- Robot operator/supervisor
- OTTO AMR with carts/totes
- OTTO Fleet Manager

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- www.ottomotors.com
- 1-844-733-6886
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**Picking to Packout or Consolidation**

**Pitfalls to traditional process**

- Less work per person which either increases costs to bring in more people or lowers picker productivity.

- More time spent per pick on average since transport of completed bundle is included in the pick time.

- Repetitive stress injuries or accidents are common when workers must lift and transport materials to and from their pick zones.

**Value gained with OTTO**

- OTTO allows workers to increase productivity in their picking tasks, while OTTO takes on the low-skilled tasks of transporting completed bundles.

- By transferring the responsibility of transporting completed bundles to OTTO, pick times can decrease by nearly 50%.

- OTTO can help reduce repeated stress injuries by eliminating the need for humans to transport materials, and reduce accidents due to strict safety standards.

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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.

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

- Your picking process requires workers to transport completed bundles.

- Flat, indoor, single floor operation with distinguishing features for localization.

- Repeatable routes with designated consolidation and transport.

- Seeking ability flexibility or reconfiguration of lines or routes.

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