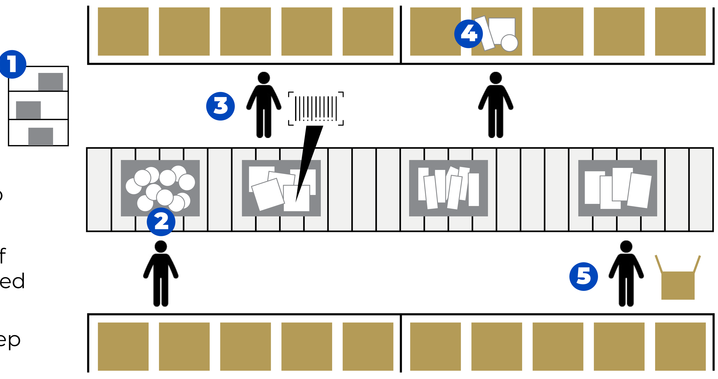
Increase Retail Order Fulfillment Throughput and Ease Labor Challenges with Robotic Automation

In-store retail shopping remains strong, and that means brick-and-mortar locations must keep shelves stocked with products customers want. Retailers are also filling customer buy-online-pickup-in-store (BOPIS) orders and performing eCommerce fulfillment from stores so cost-effectively keeping inventory in stores is imperative.

BEFORE: Traditional Store Replenishment or Store Allocation Fulfillment Process

Typically, to process break pack orders for store replenishment and allocation:

1. Inventory is stored in containers on racks or in an Automated Storage and Retrieval System (ASRS) and moved to the pick module.
2. Multiple operators select items from inventory containers to fulfill orders.
3. Operators scan items from the totes to determine their destination.
4. Operators add the assigned number of items into corresponding boxes destined for stores.
5. As order boxes complete, operators prep each one and move them to shipping.



Traditional replenishment and allocation processes present challenges, such as:

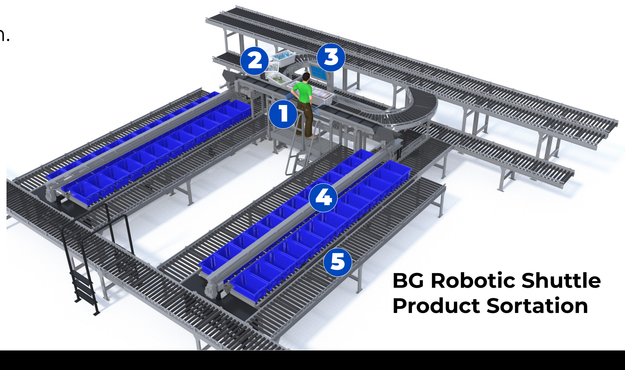
- Pick modules remain labor-intensive, even with traditional automation such as conveyors.
- Existing processes require multiple operators that are often crowded together to process orders.
- Operators physically walk back and forth to gather items to place in containers destined for stores, wasting time and energy in the picking process.
- Warehouse workforces cannot handle the significant increase in order volume, which causes bottlenecks in replenishment and allocation processes.

AFTER: Retail Order Fulfillment Operations with BG RSPS

Berkshire Grey's Robotic Shuttle Product Sortation (BG RSPS) solution can increase piece pick order fulfillment by up to 4X with no additional labor, improve shipment capacity by up to 10%, and handle nearly 100% of typical SKU assortments.

1. A single operator positions him/herself in the ergonomic workstation at the center of the BG RSPS system.
2. Inventory totes arrive at the operator workstation.
3. The intuitive user interface directs the operator to place any number of units to one of two induction points, improving order accuracy and product quality.
4. Goods are transferred onto one of two robotic linear sortation slides, which deposits them into outbound containers, totes, or boxes.
5. When full, containers are automatically moved to a central finishing station and on to shipping.

With BG RSPS, **1** operator produces the equivalent throughput of **4**.



BG Robotic Shuttle Product Sortation

BG RSPS enables businesses to:

- Increase piece pick order fulfillment by up to **4X** without adding labor.
- Improve shipment capacity and container cube utilization by up to **10%**.
- Handle **nearly 100%** of typical SKU assortments.
- Operate **standalone or integrated** with traditional material handling systems like ASRS.
- Install Into **existing** operations with a small footprint of less than 2,500 square feet.
- Support **configurable** order container sizes and batches.

Learn more about BG RSPS »

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