LP Cart
Batch Picking and Sortation System

Maximizing Efficiency

Lightning Pick's Mobile Pick Carts offer major productivity gains (up to 40%) and nearly 100% order accuracy compared to paper-based picking or even operations already using some standalone form of pick automation (RF, Voice, Pick-to-Light).

In batch picking operations, operators pick multiple items for small batches of multiple orders, making each pass through the facility more efficient. This is typically done using multi-tiered carts carrying a tote or shipping container for each unique order in the batch.

Lightning Pick's automated LP Carts add even more productivity to this popular pick methodology by combining the best elements of RF, Voice, Put-to-Light and optional LCD displays technologies for fast, accurate order selection and sortation.

Applications

- eCommerce Fulfillment
- Third Party Fulfillment Providers
- Facilities with Large SKU Bases
- Facilities without Conveyor
- Fulfillment Operations Without Clear High, Medium and Low Velocity SKU Profiles

LIGHTNING PICK

LP Carts Batch Picking and Sortation System

RF Pick and Put-to-Light in Motion

LP Carts' order control module guides a picker to the correct SKU locations. The picker scans the bar code label on the shelf location and/or on the product itself. Lights mounted near each order container illuminate and share the necessary unit quantities required for that specific order in the batch. A speaker for optional vocal commands plus a printer for order labels, manifesting and other needs are also mounted on the cart. The light device hardware is specifically engineered to use less power, making the cart a 'green' solution plus increasing the on-board battery life to 12 hours between charges.

The carts themselves can be customized to virtually any size, shape or options that best fit your unique requirements including powered versions for heavy loads. The carts pictured here simply illustrate the paperless picking technologies involved in Lightning Pick's automated solution. The mobile pick system can also often be mounted to existing carts for an even more cost effective order fulfillment solution.

Perpetual Productivity

Traditionally the picker repeats the steps above until all the orders in the batch are filled. Then the totes or cartons are walked through the warehouse until they are dropped off at a pre-determined point for further processing. The cart then adds new, empty containers and begins again.

Lightning Pick realized this travel time with full cartons was a wasted opportunity. Perpetual Batch software's patented, advanced algorithm selects order combinations based on the Cart's real-time physical start location, not from a single pre-determined order drop/new batch launch location. Perpetual Batch even adds single pick orders to moving carts so it maximizes the productivity of every walk through the facility even though individual order containers from the original batch are being filled. This is a very effective feature, as a high percentage of the daily order volume of many operations where batch picking's a viable approach are single pick orders.

Advantages:

- Achieve up to 40% increases in productivity plus nearly 100% order accuracy
- Supports an unlimited number of SKUs. with low cost per SKU
- Automate paper-based batch picking processes without extensive new material handling equipment, like conveyors
- Perpetual Batch software can result in 70% fewer trips through the warehouse to fulfill orders.

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