

Pick Cell Order Fulfillment System (US Patents 6,775,588 / 8,019,463)

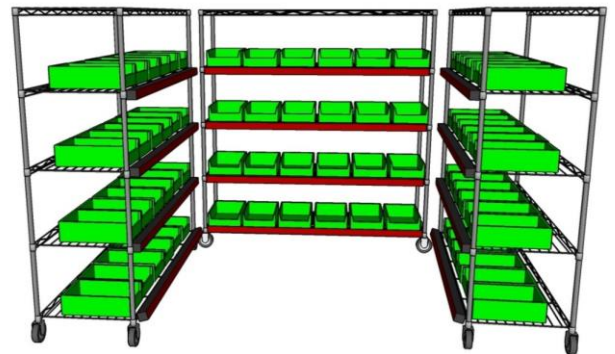
Innovatively uses Bluetooth bar code scanning and Light-Directed picking to greatly improve operations in distribution and manufacturing environments.

Simple, Efficient, Affordable Order Fulfillment

Lighted displays tell where to pick products from PC locations and place into order containers

Features

- Ideal for emerging micro-fulfillment centers and kitting and sequencing of parts required for high-speed manufacturing assembly lines
- Pickers can become highly productive with minimal training
- Requires no mechanical buttons (that eventually wear out) to be pressed to confirm picking completion
- Interfaces with existing customer WMS for order downloads and results uploads
- Cost is low since all light directed hardware is designed and sold by FastFetch® Corporation
- Provides efficient, scalable order-fulfillment strategies for applications such as subscription box fulfillment



How it works (many variations on the example below are available)

1. Setup
 - a. Raceways (black 3-sided channels with removable “slide on” red lenses) are attached above or below each shelf.
 - b. Light modules are inserted in the raceways and daisy chained together with inexpensive CAT5 cable with modular clips on the ends. One or more controller modules connect the light modules to a control PC.
 - c. Picking locations are associated with FastFetch® light addresses.
 - d. FastFetch® lights are “grouped” into sets based on an area covered (pick cell) by a picker.
2. Interfacing
 - a. Host to FastFetch®
 - i. A set of order lines (a “Wave”) is sent from a host WMS, OMS, ERP or other automated system **OR**
 - ii. A 1-D or 2-D barcode is printed by the FastFetch® or ...host system on a label attached to each container.
 - iii. Each order line minimally contains order number, picking location and picking quantity.
 - b. FastFetch® to Host
 - i. A set of order completion or shorted records is sent to the host system **OR**
 - ii. Scanning the barcode on the container label by the host system signals order completion or shorted status.
3. Execution
 - a. When a container enters the FastFetch® Pick Cell system the order or tracking number is scanned.
 - b. The required items to pick are retrieved from the FastFetch® database.
 - c. Light modules in the pick cell are illuminated indicating which items and which quantities are to be picked.
 - d. An LED on each light module is flashed to call attention to the required item locations.
 - e. As each item is picked, the picker’s hand, or the picked item, is waved in front of the flashing LED to signal picking completion and extinguish the flashing LED.
 - f. If an item must be shorted, a barcode signifying “items with flashing LEDs were not picked” is scanned.
 - g. After all items in the pick cell have been picked or shorted, a special “message” light is illuminated with the word **DONE** or **HOLD** and an LED in the light is flashed.
 - h. The picker will deposit the container into the shipping area and touch the flashing LED indicating success or failure in completing the order.

Selected Clients



Kitting

