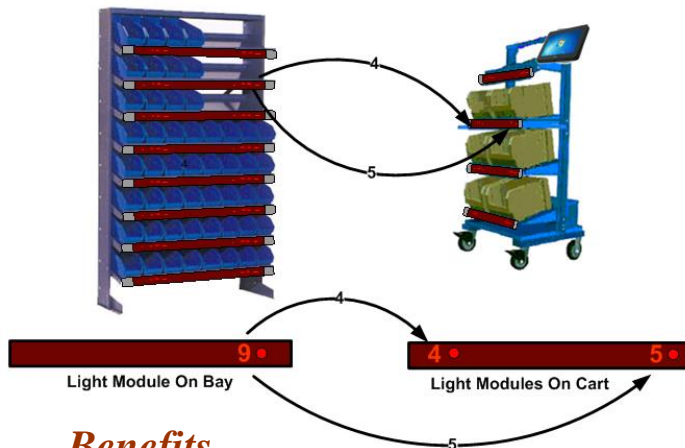


## Order Fulfillment Technology for Vending Pre-kitting

(US Patents 6,775,588 / 8,019,463)

*Innovatively combines Voice, Bluetooth barcode scanning and **coupled** Light-Directed picking to improve operations in a vending distribution environment.*



### *Simple, Affordable Pre-Kitting*

- **Light modules on product locations and beneath totes on carts enable batch picking for multiple machines.**
- **Each tote contains products required to replenish a single machine.**
- **An inexpensive tablet controls picking process.**

Lights on product and cart locations are "coupled" to enable cluster picking

### *Benefits*

- **Improves picking efficiency and accuracy for pre-kitting**
- **Requires only 1 trip to machine area at site to replenish machine**
- **Allows more machines to be serviced per route, thereby requiring fewer trucks and fewer drivers**

### *Features*

- **Fast:** Pickers easily find the right location and pick accurately without using paper pick slips. Flashing LEDs call attention to required products.
- **Accurate:** Light modules adjacent to required products minimize picking errors and eliminate the need for audits after picking.
- **Cluster Picking/Putting:** Pickers are directed to retrieve the same SKU for multiple totes or multiple SKUs for a single tote, thus reducing walking time between carts and picking locations.
- **Route Order Processing:** Batches are picked in the order they need to be loaded onto the truck in the same sequence as they will be delivered.
- **Flexible:** Allows a mix of lighted and non-lighted locations on carts and products
- **Configurable:** Can define container classes (e.g. normal totes, beverage cases, insulated totes) and product classes (e.g. candy, chips, beverages, pastries) and relationships between classes (e.g. candy must go in insulated containers). SKU can be assigned to product classes and consequently forced to be picked into containers belonging to appropriate container classes.
- **Simple:** Easy installation and interface to warehouse or order management system (e.g. Cantaloupe and other vending management systems).
- **Affordable:** ROI payback period is usually between 6 and 12 months.
- **Distributed Operation:** Unlike conventional pick-to-light (PTL) systems, neither conveyors nor expensive control computers are required to control lights.
- **Fault Tolerant:** FastFetch is "tolerant" of hardware faults and can continue to operate in warehouse Wi-Fi (RF) dead spots since the Tablet PC holds all required picking data. If power to light modules temporarily fails, the Tablet PCs will automatically convert to using bar code scanning and visually and verbally prompt pickers concerning where and how many items to pick.

# Selected Clients



**One of the big 3 auto manufacturers in Detroit**  
Not revealed due to confidentiality restriction

