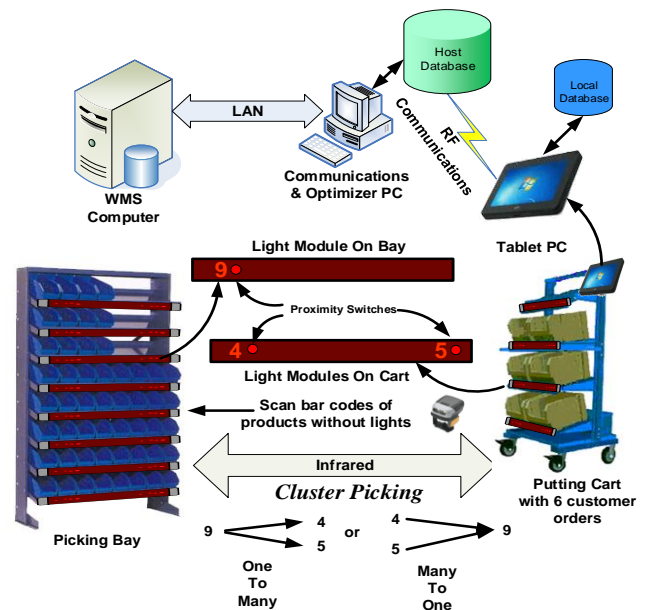


The Next Generation of Pick-to-Light Systems (US Patents 6,775,588 / 8,019,463)

The FastFetch system is sometimes confused with traditional Pick-to-Light and Put-to-Cart systems. Here are some reasons why FastFetch is considerably different from those systems.

FastFetch Technology Goes Beyond Pick-to-Light

- Lights on cart and picking bays used together to enable 1-many and many-1 cluster picking
- Wi-Fi not required for picking
- No computer (only 24VDC) is connected to picking bays
- No “back room” computer controls lights so the system is tolerant to computer failure
- A tablet PC on each cart controls cart lights and uses infrared to control bay lights
- “Smart” lights proactively report problems to tablet for reporting to maintenance personnel
- Unlimited scalability with no degradation in performance
- Combined light directed picking with some or no lights on bays and carts simultaneously
- Voice commands used to tell picker to “Stop” when target location is found and to tell picker where and how many units to pick on non-lighted bay locations
- If Wi-Fi is available, real-time updates can be made to host database
- Tolerant to Wi-Fi dead spots in warehouse to enable continued picking using local database on tablets
- Automatic synchronization of host and local databases after Wi-Fi connectivity is reestablished
- No mechanical buttons to push thereby creating protection from harsh (e.g. wet) environments
- “Touchless” proximity switch used as sealed button by waving hand or product near flashing LED
- Ability to detect location in warehouse and use voice to say “Stop” when picking from bay is required
- Easy installation using Cat5 cable to connect lights with RF45 modular clips
- Easy movement of lights inside channel holding lights (when bay slots are resized) with no cover cutting
- Easy updates to lights firmware using infrared transmission from tablet PC



Picking Methods Available with Flexible FastFetch Technology

- Traditional **Put-to-Cart** with lights on cart locations and with scanning of barcodes on bays
- Traditional **Pick-to-Light** with lights only on “virtual” picking bays
- **1-Phase** batch picking with clustering of 1-to-many and many-to-1 “picks-puts” from bays to carts
- **2-Phase** picking where products are gathered in aggregate for sorting into put-wall slots
- **2-Phase** picking with **Dynamic Slotting** that gathers products in aggregate on lighted carts that change to lighted bays for 1-phase picking
- **2-Phase** picking with **Dynamic Put-walls** that gathers some products lighted Order Carts while other non-lighted SKU Carts simultaneously gather products in aggregate. The Order Carts are dynamically changed to Put Walls and products from SKU Carts are scanned and placed into lighted Put-wall slots
- **Multi-Stage Reverse Logistics** where items are scanned and lights used on cascaded Put-walls to sort the items to aisle, bay or location sequence for put-away using lighted or non-lighted carts and lighted or non-lighted bay locations

Selected Clients



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

