

## NEW TECHNOLOGIES TO IMPROVE EFFICIENCY

Implementing automation throughout fulfillment

### The Design

PeakLogix helped a national medical supply distributor integrate technology across its facility. The fully automated design advances totes, and cases where appropriate, through the distribution center's picking zones from start to finish. Various traditional elements were repurposed and paired with innovative technology to automate the process, reducing the cycle time and doubling the facility's fulfillment volume.

### The Elements



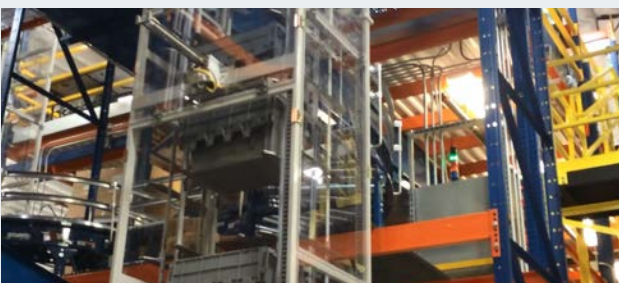
#### Tote De-Stacker

Queues stacks of empty totes and automatically **singulates totes for induction** into pick module. Can dispense up to 20 totes per minute.



#### Print & Apply

Prints tote label and applies it to the tote. Guarantees consistent label placement. **Eliminates need for multiple printers** (and manual application) throughout the pick module.



#### Vertical Indexing Conveyor

Directs tote to the level of the pick module where first pick is to be completed. Bypasses levels on which there are no picks. Helps to reduce tote traffic within the module, and **reduces cycle time** of pick process.

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### Vertical Reciprocating Conveyor

Moves totes between levels of pick module. Can have multiple infeed and outfeed windows. Vertical conveyance **within a small footprint**.



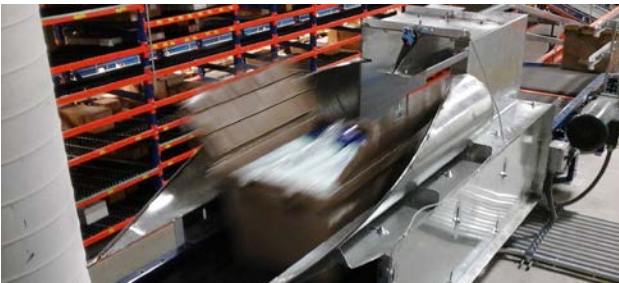
### CTU – Case Turning Unit

Automatically turns the tote 90 degrees so the **label is facing the picker**. This orientation also allows for more totes to be queued in a pick zone.



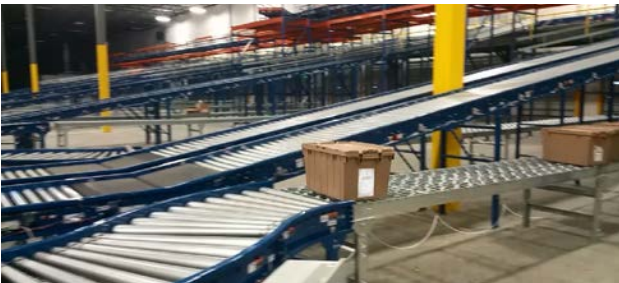
### Print & Drop

Automatically prints Pallet Content Sheet (PCS) and drops into tote. Totes must be presented with lids open. **Eliminates need for diverting totes** into “QC” area for PCS printing.



### Automatic Tote Closer

Automatically closes totes after completion of picking and/ or Print & Drop. **Includes jam detection** to account for defective or over-stuffed totes.



### Controlled-Flow Gravity & Tote/Case Turning

Allows queuing of totes/cases on decline, essentially **doubling the volume** of totes/cases that can be accumulated on a sort lane. Automatically turns the totes/cases 90 degrees so that the label is facing the dock associate. This orientation also allows for more totes/cases to be accumulated on the sort lane. A level-sloped conveyor allows for **easy removal** of any tote/case without pressure.