



## Distributor Eliminates Manual Labor in Mixed Case Pallet Building Process

### Features and Benefits

Intralox pallet layer descrambler and registration conveyor enables:

Elimination of manual case handling and product damage

Reliable layer singulation within a small footprint

Industry Group:  
ISC

“This complete solution could be used in a myriad of applications. The biggest advantage, as I see it, is that it doesn’t require complex controls to make it extremely flexible.”



A major wholesale supermarket distributor was installing an Automated Storage & Retrieval System (AS/RS) to feed single SKU pallets to a robot that would de-layer full carton layers, but the layers of cartons need to be singulated so a label could be applied to each case before it was delivered downstream. The cartons’ final destinations were mixed pallets going directly to grocery stores.

### Challenge

What made the project challenging is that it was necessary to descramble several hundred SKUs, with a diverse range of package sizes and weights, and a myriad of packaging types. Layer patterns would be unlimited. The wide array of packages then needed to be evenly spaced in a very small space prior to a print & apply labeler.

### Solution

An Intralox Activated Roller Belt™ (ARB™) Pallet Layer Descrambler was supplied to perform automated descrambling and singulation of faster moving cartons. Intralox’s registration conveyor was also added to predictably space cartons mechanically without complex controls. The solution ensured the location for the front edge of each carton so the label applicator could consistently perform its function.

## Results

This rapid system is entirely automated and ensures that products handled at the optimal speed without damage.

The descrambler allows for variable speed, which is a necessity because rate is determined by a downstream label applicator that can handle up to forty cases per minute and a robot that can deliver up to four layers per minute.

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## Intralox

301 Plantation Rd. / Harahan, LA 70130

888-427-2358

[customerservice.matlhandling@intralox.com](mailto:customerservice.matlhandling@intralox.com)

[www.intralox.com](http://www.intralox.com)