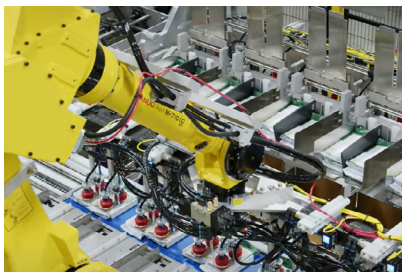
PEARSON PACKAGING SYSTEMS

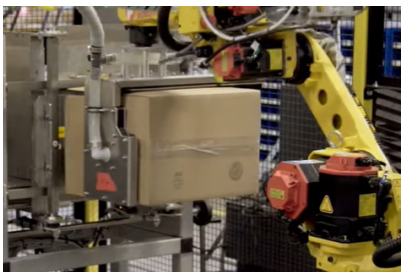
VERTICAL CASE PACKING

Determining the Robotic Solution Best-Suited to Your Operation

Increasingly, Pearson customers are needing packing solutions that can accommodate vertical product patterns per the requirements of the big box retailers they supply to. So what's the best way to get your products into display-ready cases that can go from shipping container to store shelf with minimal human labor? Below are a few of our most common, tried-and-true vertical packing solutions.

A Comparison of Pearson's Vertical Packing Strategies





	Rotating Bucket	Robot-Held Case	Catcher's Mitt
Ideal Application	Lay-flat or gussetted bags (from small/thin to large/heavy), single-serve snack bags, cartons, and more Low-mid-high speed lines Lines running a small number of SKUs	Lay-flat or gussetted bags (from small/thin to large/heavy), single-serve snack bags, cartons, and more Low-mid-high speed lines Lines running multiple SKUs	Flat, non-slippery bag or sachet products, ideally with minimal product shifting Lower-speed applications Lines running multiple SKUs
How it Works	Upstream robot(s) form product patterns on the conveyor (or collating conveyors may be used depending on SKU count) and downstream robot(s) pick and place products horizontally into bucket(s). The buckets clamp and rotate, placing products vertically into the cases below.	Upstream robot(s) form product patterns on the conveyor and downstream robot(s) hold and position cases at a loading station. Products are cross-pushed via a mechanical plate into the awaiting cases. The robot rotates the filled case(s) upright and places them on the exit conveyor.	Upstream robot(s) form product patterns on the conveyor and downstream robot(s) move to "catch" products in bin-style tool (stacked orientation) at the end of the product conveyor. The tool clamps and rotates to place products vertically into the cases below.
Benefits/ Considerations	Easily and affordably scalable using extended tooling and multiple buckets (vs. multiple robots) Comparatively smaller footprint than multi-robot solutions Multi-SKU changeovers can be time consuming with tool + bucket adjustments	Scalable with multiple robots Cost-competitive compared to stainless steel or washdown rotating bucket applications	Speed requirements may be limiting, although the solution is scalable with multiple robots