



MWES Case Packing Platform

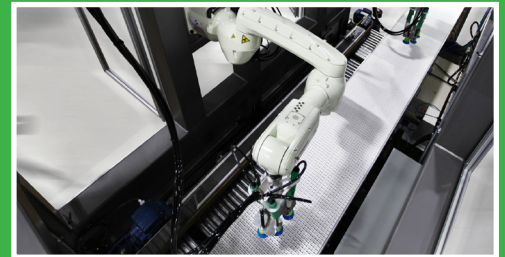
Placing finished products into shipping cases or trays doesn't need to be labor intensive. Robotics and precision automation offer flexible alternatives to manual or semi-automatic operations, providing higher reliability than the conventional solutions of the past.

MWES offers a flexible platform for automatically packing your products into trays, boxes, and retail-ready cases. Each solution is tailored for the customer's unique blend of packages, products, throughput, space constraints, and hygienic design needs.

Each MWES Case Packing Solution is designed for ease of operation and maximum production availability.

- Line personnel interact with a simple, intuitive touchscreen interface that makes it simple to select different SKUs or create new configurations.
- Tool-less or tool-free changeover results in fast set-ups for different products.
- Using the built-in remote diagnostic capability, MWES can provide remote support to ensure minimal downtime or lost production.

Our flexible approach enables customers to expand their system to respond to future production demands and easily add new end of arm tooling to handle new package formats. MWES systems let you scale and adapt to the ever-changing requirements driven by consumer trends and retailer needs.



MIDWEST ENGINEERED SYSTEMS INC.

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EQUIPMENT SPECIFICATIONS

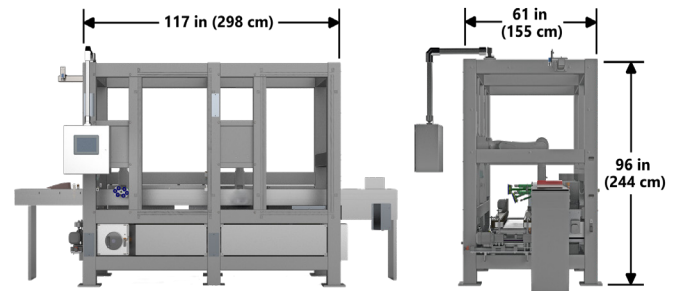
Component	Base System	Options
Robot Type	Mechanical Pick & Place	Cobot, Delta, Articulated Arm, Gantry
Product Conveyor	8" wide continuous belt	12" wide, 16" wide, solid urethane, modular plastic, tensionless
Case Flow	Inline	Counterflow, Perpendicular
Robot Payload	1 kg	Up to 50 kg
End of Arm Tool (EOAT)	Vacuum	Rigid gripper, soft gripper, fork-style
Load forming	Individual Pick & Place	Row forming, layer forming
Pack Orientation	Horizontal	Vertical, interleaved, overlapping, separated layers
Robot Cycle Rate (per robot) *	30/min	Up to 100 picks/minute
Product Detection	Photosensor	2D Vision, 3D Vision, Color Sensing
Frame Construction	Formed channel, epoxy painted	304 SS, 316 SS
Safety	ISO 13849-1:2006 Cat 3, Performance Level D	
Control Enclosure	NEMA 4X	SS NEMA 4X, Sloped Top
Product Contact Surfaces	Stainless Steel & USDA/FDA approved materials	
Product Changeover	Tool-Less	Tool-Free

* Cycle rates are dependent on payload and reach required.

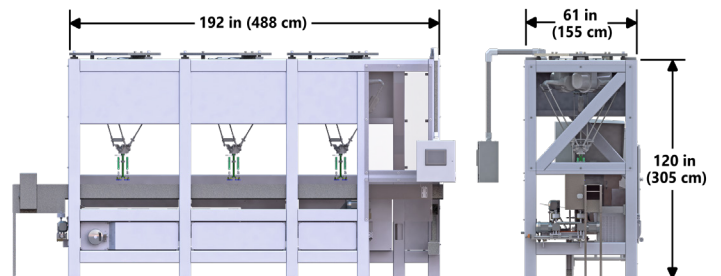
MWES Case Packing Platform

Fitting in a compact footprint, the MWES case packing platform is comprised of one or more pick and place robots inside the enclosure.

Two-Robot Case Packing System



Three-Robot Case Packing System



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