

# ROBOTICS OPTIMIZATION

Integrated best-in-class software, controls and light-directed technologies enhance warehouse robotics operations as part of an orchestrated, MHE-agnostic solution



## Proven Implementations

With over 25 years in warehouse automation and 1000+ successfully implemented customer sites worldwide, Matthews Automation brings immense engineering and systems experience to cutting-edge warehouse robotics. Matthews' MHE-agnostic approach and vast tier 1 WMS experience enables us to maximize material flow by connecting and optimizing discrete automation processes to make robots work better.

While we are known for robust warehouse execution systems, integrated controls and light-directed technologies to boost efficiency, Matthews has already enhanced robotics operations within a number of systems spanning multiple industries:

- ▶ E-commerce
- ▶ Third Party Logistics (3PL)
- ▶ Medical Supplies
- ▶ Food and Beverage/E-grocery

Matthews Automation's flexible and scalable warehouse software and advanced batching solutions add value and efficiency to many leading robotics brands, including:

- ▶ Covariant - Robotic Put Walls
- ▶ Berkshire Grey
- ▶ Exotec - Goods-to-Person
- ▶ Locus - Picking
- ▶ CAJA
- ▶ AutoStore - AS/RS integration to AMRs
- ▶ Tompkins - T-Sort
- ▶ Columbia - Robotic Palletizer
- ▶ BPA - Robotic Arm
- ▶ Guidance Automation - AMRs
- ▶ OTTO Motors - AMRs

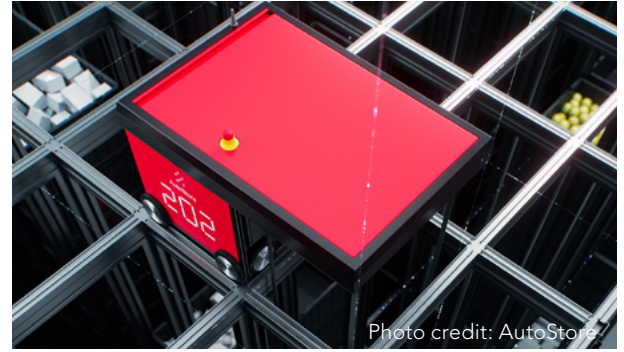


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# Robotics Experience

## AMR Integration

Matthews implements autonomous mobile robot (AMR) cart-based picking, for example, RF cluster picking and integrated light-directed picking. The warehouse execution system interfaces with the AMR Fleet Management System to create pick tasks, distribute them to the AMR fleet and execute picks—resulting in up to 3 times the picking efficiency.



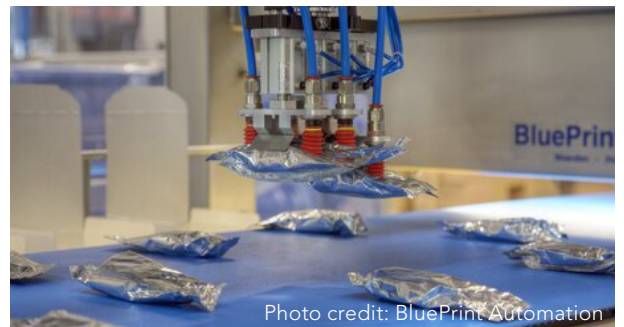
## Robotic Arm Integration

Robotic arm applications such as robotic put walls and palletization compliment manual processes and enable lights-out, fully-automated facility operations. Matthews software passes data and instructions to the robotic arm. Matthews assigns and tracks SKUs to pallet positions and cubby locations. In one system, Matthews manages 12 robotic put walls, picking over 10,000 items per month.



## Robotic Case Packing Integration

Matthews interfaces to robotic packing cells to pass data and instructions. Matthews manages autoboxing of manufactured products coming directly from production lines. Through the process, Matthews tracks the product through the automated packaging and prints and applies case labels to the finished cases. This reduces opportunities for human error and reliance on seasonal labor by 75%.



Let's talk about your application.

## MATTHEWS AUTOMATION SOLUTIONS

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