

Matthews ProMat 2019

Booth S1631 Review

Matthews Automation Solutions showcases the “Fulfillment Forward” methodology for integrated, end-to-end order fulfillment processes.

See over 60 years of combined experience and best-in-class products with dynamic pick-to-light, put walls, conveyor controls, order finishing automation systems, and emerging autonomous mobile robot (AMR) technologies, all managed and optimized by our Warehouse Execution System (WES).





Best-in-Class Solutions

Light-Directed Picking

Matthews' ProMat exhibit begins with automated order picking demonstrations. See pick-to-light add speed to zone picking tasks. A bot-assisted picking system also on display executes batch or cluster picking processes. Picked items are sorted to an AMR with a special picking attachment, instead of a cart or sled. The attachment carries multiple totes or cartons, plus mounted light modules for accurate sortation. Bot-assisted picking maximizes labor efficiency by putting the focus on the value-add picking task.

Put Wall Sortation

Once picks are complete, the AMR travels to a sortation area. There, operators transfer the totes from the bot onto a roller conveyor adjacent to one of two put walls. A scan-and-put process sorts batches of mixed-SKU merchandise into individual customer orders. The put walls display a variety of popular light configurations, including touchless task confirmation. Orders marked finished are pulled from the wall via light-directed pack out and completed into shipping cartons.

Proven Integration

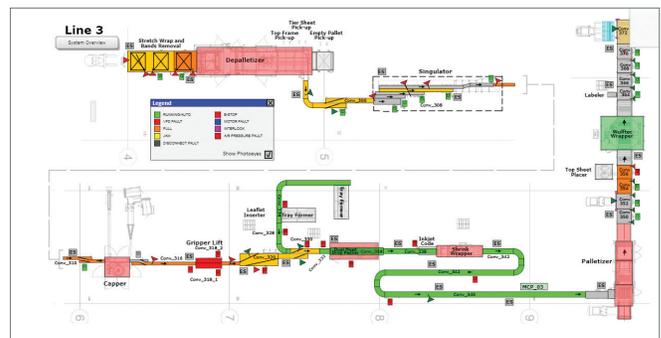


Order Finishing

Complete orders are transported to a finishing area via Matthews AMR with MDR conveyor top attachment where an automated Print and Apply labeler downloads and applies shipping labels on the fly. Inbound and outbound label verification insures speed and accuracy while graphical diagnostic screens give dynamic KPIs for easy maintenance.

Software

The entire system is managed by Matthews' three software options from Lightning Pick, Pyramid and Compass Engineering. Lightning Pick's picking software integrates directly with existing warehouse management systems (WMS), or warehouse execution systems, such as Pyramid Director location-hosted WES, or the Compass Order Routing System (CORS), a web-hosted WES. Both of Matthews' WES offerings integrate and optimize discrete automation, providing centralized system control, balanced work flow, and increased visibility. A WES Command Center features real-time dashboards allowing for timely decision making.



Emerging Technologies

Matthews Automation Solutions is committed to providing innovative solutions using the latest technologies. We have 25+ years of experience in developing state-of-the-art, industry-proven guided vehicle and robotics systems. Matthews now offers Autonomous Mobile Robots with attachment options, each engineered to optimize specific material handling applications including order picking and material transport.

Innovative Technologies

About Matthews Automation Solutions

Global brands partner with Matthews Automation Solutions for innovative material handling technologies and proven vertical industry expertise. Matthews' best-in-class warehouse automation brands deliver agile, integrated applications. Our recognized picking systems, including pick-to-light, put walls and picking carts, drive speed and accuracy in order picking and order sortation tasks. Our advanced Warehouse Execution System (WES) integrates and synchronizes islands of automation and balances work for optimum throughput, material flow and real-time process visibility. Combined with our new collaborative robot technologies, Matthews delivers innovative systems that maximize your order fulfillment processes today, and tomorrow.

Matthew's warehouse automation brands—Compass Engineering, Lightning Pick and Pyramid—deliver innovative material handling solutions and proven results for leading retailers worldwide, specializing in e-commerce fulfillment and omni-channel operations.



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