

Together, Matthews' best-in-class, integrated automation brands – Compass Engineering, Guidance Automation, Holjeron and RAF Technology – improve productivity and reduce operational costs.



Automated Inbound Receiving

Integrated solution decodes labels, reconciles received items and transports cartons/parcels with autonomous mobile robots.

The Opportunity

Matthews' Automated Inbound Receiving solution increases transaction throughput speed while cutting handling costs. It delivers next level, Industry 4.0 innovation that streamlines or eliminates unnecessary processes—both internally and across key suppliers.

Deep learning artificial intelligence (AI) sensors, embedded with advanced warehouse control and management software, capture data in real-time. Seamless solution integration accelerates the exchange of information, boosting flow, agility and throughput across an operation's order fulfillment operations and entire supply chain network.

The Solution

As individual cartons are unloaded from the back of a trailer at a receiving dock, boxes travel one-by-one down a motor-driven roller (MDR) conveyor directed by Holjeron's ZoneLinkTC™ controllers. The cartons then pass through a smart vision sensor employing RAF Technology's optical character recognition (OCR)

software. This software detects and decodes data printed anywhere on the box or shipping label. RAF's state-of-the-art, deep learning neural networks also enable recognition of data or labels in virtually any condition—including damaged or faint imprints.

Critical order data is collected from each carton, such as the purchase order (P.O.) number, SKU, quantity, weight, color, supplier identification number, country of origin, and more. The information is processed in real-time by Compass Engineering's warehouse control software (WCS), the Compass Order Routing System (CORS).

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Automated Inbound Receiving

The Solution (Continued from previous page...)

CORS reconciles the received cartons against advance shipping notices (ASNs) and assigns each to a subsequent destination: reserve storage, forward pick zone, or pallet for cross-docking. Any data discrepancies detected immediately generate real-time notifications back to the operation's enterprise resource planning (ERP), warehouse management system (WMS), distribution center management and source suppliers. This actionable decision support reduces the number of physical inspections and manual reject workstations required.

CORS' web-based Open Control platform also connects and optimizes a wide spectrum of automated material handling equipment to increase flow and throughput across the entire order fulfillment process within retail, direct-to-consumer, parcel and other high-volume distribution center operations.

Matthews Automation Solutions can also enhance warehouse inventory flow with a fleet of Guidance Automation's iNcart autonomous mobile robots, outfitted with an MDR attachment on top. The MDR and robot controls communicate to smoothly transfer materials anywhere within your facility. Guidance's SCENE natural feature navigation system directs the robot's travel to other powered or non-powered conveyors, pallets for cross-docking or directly to picking and sortation areas utilizing pick-to-light, put-to-light, automated loop or case sorters and more.

Put Matthews' best-in-class, integrated automation brands to work for you, and gain vastly improved productivity and reduced operational costs.

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The Benefits

- Detects and decodes data anywhere on a parcel or carton
- Leverages real-time dynamic and actionable WCS data
- Manages case and tote conveyor systems: receiving, order picking, and more
- Driven by deep learning neural networks and smart vision sensors
- Conveyor PLC control via Ethernet/IP up to 64 zones using a single IP address
- Compatible with SmartRoller® and Microroller® motor-driven rollers, plus Interroll 6- and 8-pole conveyor motors
- Automated guided vehicle (AGV) fleet management software provides precise location tracking with vehicle scheduling and routing to optimize all WMS orders
- AGVs are configurable to operate in any put or pick fulfillment environment

Details for PO: 0D04B0AF

SKUs			
SKU Code		Qty Ordered	Qty Received
LTS-1083-Black-SML		8	8
LTS-1083-Black-MED		12	12
LTS-1083-Black-LRG		14	14
LTS-1083-Black-XLG		9	10
GBP-2011-45-Yellow-MED		9	0
GBP-2011-45-Yellow-LRG		5	0
GBP-2011-45-Yellow-XLG		6	0
GBP-2011-45-Yellow-XXL		12	0

HUs			
HU ID	SKU	Qty Ordered	Qty
06010 (3106)	LTS-1083-Black-LRG	14	14
06010 (3106)	LTS-1083-Black-MED	12	12
06010 (3106)	LTS-1083-Black-SML	8	8
06010 (3106)	LTS-1083-Black-XLG	10	10



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