



Inbound Receiving

Automated Inbound Receiving Solution

The Opportunity

Matthews Inbound Receiving solution increases transaction throughput while decreasing production costs. The solution delivers next level, Industry 4.0 innovation that streamlines or eliminates unnecessary processes. Both internally and with key suppliers.

Deep learning AI sensors, embedded with advanced warehouse control and management software, capture real-time data. Seamless solution integration accelerates the rapid exchange of information, providing actionable tasks and agility with a client'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 will travel one-by-one down a motor-driven roller (MDR) conveyor controlled by Holjeron's ZoneLinkTC™ controllers. The cartons will 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 (Continued on next page).



Matthews™
AUTOMATION SOLUTIONS

Automated Inbound Receiving

The Solution (Continued)

Critical order data is collected from each carton such as a P.O. number, SKU, quantity, weight, color, supplier ID, or country of origin, and more. The information is processed in real-time by the Compass Order Routing System (CORS) warehouse control software (WCS), from Compass Engineering. 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 a client's ERP, WMS, distribution center operations and key suppliers. This actionable decision support reduces the number of physical inspections and manual reject workstations required.

Matthews Automation Solutions can also augment your warehouse with a fleet of Guidance Automation's iN-cart 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 for pick-to-light, put-to-light, automated loop or case sorters and more. CORS web-based Open Control platform can also connect and optimize a wide spectrum of automated material handling equipment which can boost flow and throughput across the entire order fulfillment process for retail, direct-to-consumer, parcel and other high-volume DC operations. Matthews' best-in-class, integrated automation brands work together to vastly improve productivity and reduce operational cost.

Key Benefits Highlighted

- 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, as well as Interroll 6- and 8-pole conveyor motors
- Automated guided vehicles (AGV) fleet management software provides precision location tracking with vehicle scheduling and routing to optimize all WMS orders
- AGV's 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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