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Optimizing E-Commerce Returns

With Automated Storage Systems

Shopping Online has been Embraced in a big Way



Reverse Logistics is often Overlooked



The Returns Headache

Approximately **33%** of all products purchased through e-commerce channels are returned.

23% of e-commerce returns are caused by a mispick (the wrong item or quantity of item(s) is picked instead of the correct one).



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	Creating an Efficient Returns Process
Inspect & Assign Disposition Destination	 — Restock and return to inventory for immediate sale (95% of items are returned because of customer dissatisfaction)
	Repackage for re-sale in a secondary channel, such as a discount retailer's online or brick-and-mortar stores
	Repair , refurbish or remanufacture – particularly for electronics ie. mobile phones, tablets or computers
	Return to supplier, vendor or manufacturer – most frequently seasonal items purchased with a sales agreement stipulating that the source will accept unsold inventory
	Recycle , reclaim or dispose. High-tech devices utilize rare metals, such as gold, palladium, silver, copper, titanium and must be recycled or disposed of in compliance with government regulations

Automated Storage & Retrieval Solutions Simplify Returns



Horizontal Carousels

Bins mounted on an oval track that rotate horizontally to deliver storage locations to an operator. These automated storage and retrieval systems eliminate unproductive travel and search timeby delivering the product toan operator.



Vertical Carousels

Comprised of a series of shelves that rotate around a track – similar to a Ferris wheel – these automated storage and retrieval systems deliver stored items safely and quickly to an ergonomically positioned work counter at the operator's command, eliminating walk and item search time.



Vertical Lift Modules (VLMs)

An enclosed automated storage and retrieval system that consists of two columns of trays with an inserter/extractor in the center. The inserter/extractor automatically locates and retrieves stored trays from both columns and presents them to the operator at a waist-high pick window, eliminating travel and SKU search time.



Vertical Buffer Modules (VBMs)

A discrete bin handling system consisting of enclosed shelving with a movable mast in the center that stores and retrieves totes, delivering them to an ergonomic turntable picking station or automatically delivering them via outbound conveyor.





Benefits of ASRS for Returns Management



