



Customized Automation Maximizes Storage and Controls Flow

Features and Benefits

Customized AS/RS and WMS to exactly fit the firm's requirements

30%+ increase in storage capacity resulting from high density AS/RS design

Reduced labor costs and error rates due to automation of time and labor intensive work

WMS controls all product movement = less waste & product loss

Industry Group: Automated Storage/Retrieval Systems (ASRS)



This system design allowed a larger amount of storage capacity from the building footprint. The single aisle for the S/RM added almost 1,000 more storage spaces.

As a leading US newspaper searched for ways to maximize storage in their new warehouse, they needed a solution “made to fit” with their tight conveyor line requirements. They realized their current plant was too small to accommodate the higher volume of free standing inserts (FSI's), and the use of more modern technologies would improve their processing efficiencies, maximize storage and reduce costs, especially labor savings.

Spearheading the decision to build the new South plant was the purchase of two new collating machines, each with 80 stations and almost 200' long. Printing would remain in the North plant and the South plant would be for collation.

The solution included a high density AS/RS, with 5 pallet deep storage on each side of a center aisle to provide higher throughput rates. The desire to maximum up-time was addressed by placing two Storage /Retrieval Machines (S/RMs) in the same aisle.

The high density AS/RS encompasses 2 S/RMs, 10-level racks and 400 linear feet of conveyors. Pallets of free standing inserts (FSI) are received into the facility and transferred into the AS/RS by the conveying system. Throughout the system all pallets are triple supported to provide stability. It

incorporates automatic slave pallet dispensing and stacking, stretchwrapping, weighing and profile checking, and interfaces with firm's Planning Software.

The Warehouse Management Software (WMS) controls the movement of all pallets from storage to an outfeed conveyor to collator consumption, providing efficiencies in material flow and labor.



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