



INNOVATING STORAGE & RETRIEVAL

Performance Report

Integrated system yields 500% increase in productivity.

Advance Auto

Challenge:

Reduce inventory by creating mixed layer pallets of products for store replenishment.

Solution:

Two White pallet carousels with gantry robot from Alvey, plus 28 White horizontal carousels and pick-to-light from RTS.

Result:

Integrated system increases productivity, utilizes vertical space, creates high density of SKUs in small footprint.



Pallet carousels with gantry robot save time and labor; result in five-fold increase in productivity.

Advance Auto Distribution Center in Gallman, MS is one of the industry's most innovative warehouse distribution solutions. Randy Peters, Director of Distribution Expansion claims, "White's carousel system increased productivity, utilized vertical space and created a high density of SKUs in a small footprint."

Pallet Carousels

At the heart of the solution are two White Systems' pallet carousels and Alvey's gantry robot. "This system allowed us to decrease the size of the building, and reduce the module and conveyor lengths," states Peters.

The White carousels have 32 positions with a capacity of 2,500 pounds per position. Each carousel holds at least two pallets for each SKU to avoid running out of stock. Loaded with the 16 high volume SKUs that make up 35 percent of Discount Auto's case volume, the system moves into action.

Orders are downloaded to the order management software, which spins each carousel in the most efficient picking sequence. Alvey's gantry robot picks one entire layer of product at a time and builds a mixed pallet for shipment to an individual Store. "Because of limited stockroom space and varying turnover rates of products at the store level, a mixed pallet is exactly what the customer wants," says Peters.



Two Whites' pallet carousels are used with Alvey's gantry robot

Performance Report



Left: White's pallet carousels with Alvey's gantry robot build mixed pallets for shipment to each store.

Right: Orders are downloaded to order management software which splits each carousel in most efficient picking sequence.



Meanwhile split-case order picking is accomplished using 28 two-tiered White bottom drive horizontal carousels containing over 18,000 medium velocity SKUs. There are 4 carousels per pod with up to 16 orders batch picked at a time from each of the 7 pod locations. The carousel system delivers high throughput, density and accuracy for single SKUs, inner packs, and some small case items. "The case carousels realized an increase of 64% to 165 to 200 lines an hour while the repack carousels achieved a 15% increase to 375 to 400 lines an hour", remarks Peters.

Real Time Solutions adds 8,000 pick to light locations on two 3-level, 400ft.long picking stations to accommodate high velocity SKUs. These areas, in addition to RF picking locations, achieve maximum efficiency of the selection of over 28,000 SKUs. The total solutions package is calculated to achieve a 50% gain in picking efficiency from DAP's previous warehouse performance.

Discount Auto Parts serves the do-it-yourself customer and professional installer at more than 650 stores in the southeast. This superior brand was built on the dependable, seven-day delivery of domestic and import automotive parts. White Systems and the FKI Logistex companies total solution has bolstered their reputation as a leader in the industry.



Split-case and small full-case picking is accomplished with 28 White bottom driven horizontal carousels. Items are placed in correct totes aided by lighttrees and lighted sortbars.



www.whitesystems.com

SencorpWhite, Inc.
400 Kidds Hill Road
Hyannis, MA 02601

Main office: (508) 771-9400
Fax: (508) 790-0002
Email: sales@whitesystems.com



INNOVATING STORAGE & RETRIEVAL