



THE POWER OF DELIVERY

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systems

New Picking, Replenishment and Shipping System Zondervan, Kentwood, MI

References

Nº 59



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References

Christian Book Publishing
Modernization



Automated Picking, Replenishment & Shipping: Zondervan Publishing House

Initial Situation

Zondervan's growth had created needs for additional space, improved accuracies, higher throughput, more efficient slotting, and lower operating costs.



System Solution

Receiving
Conveyor in pallet racks at 18' Elevation
Process Returns
Full Case Orders Directly to Shipping
Replenishment to Broken Case Pick Area

Pre-Sorter - Pop-up Wheel Sorter
Diverts Full Cases from Warehouse Directly
to Shipping
Replenishment (Carton Flow Sorter)

Carton Flow Sorter - Pop-up Wheel Sorter
Cases to the back side of pick modules
and shelving pick areas
Return totes to pick modules and repair areas
Completed orders direct to shipping

Shelving Sorter - UBT Bi-Directional Transfers
4 Diverts to 16 pick zones

Shipping Sorter - Pop-up Wheel Sorter
Merges products from 5 areas
Automatically weighs cases on the fly

The Result

300% Increase in Replenishment Capacity
Fork Truck Traffic Eliminated by 50%
40% Increase in Speed: 3900 Boxes
per hour handled
97.2% Fill Rate: 20% Higher than
industry standard

Scope of Supply:

General contractor
System Design
Slot Analysis
Implementation Schedule
Phased Installation
Visual Diagnostics & Visualization
Laris - Conveyor Controls Manager
Preventative Maintenance

Essential Features:

Higher throughput
Handle both cases and totes
Zero down-time
Return on Investment - Under 24 Months
Reduce operating costs