

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:07:39 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 75.9%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Used	Inbound/Day	Outbound/Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	95.2%	2,129	3,470	96.3%	67.6%	Improvement Needed
Distribution Center B	Dallas, TX	56.5%	2,112	3,756	98.8%	66.9%	Improvement Needed
Distribution Center C	Atlanta, GA	56.5%	2,172	2,774	96.5%	69.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	69.9%	1,238	2,793	98.1%	81.7%	Optimized
Distribution Center E	Newark, NJ	100.5%	2,136	1,725	98.7%	93.4%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment voice-
picking
system to
improve
accuracy to
99.8%

- Upgra
de WMS
integration
for real-time
inventory
visibility

- Add au
tomated
sortation
system for
small
package
handling

- Imple
ment
predictive
analytics for
demand-
based
staffing

- Consid
er AS/RS
system for
high-
velocity
SKUs