

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:05:04 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 74.9%
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	64.0%	1,187	1,621	97.5%	65.8%	Improvement Needed
Distribution Center B	Dallas, TX	111.4%	2,478	1,991	99.4%	62.5%	Improvement Needed
Distribution Center C	Atlanta, GA	38.2%	2,684	1,900	98.2%	86.4%	Optimized
Distribution Center D	Los Angeles, CA	60.9%	2,899	2,838	97.8%	92.3%	Optimized
Distribution Center E	Newark, NJ	40.7%	1,792	2,275	95.2%	67.8%	Improvement Needed

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