

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:02:18 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 23
Average Utilization: 79.4%
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	45.2%	2,018	1,668	99.0%	87.5%	Optimized
	Dallas, TX	49.5%	2,290	2,390	95.9%	85.4%	Optimized
Distribution Center B	Atlanta, GA	96.4%	1,329	3,497	99.0%	85.7%	Optimized
Distribution Center C	Los Angeles, CA	45.4%	2,502	3,323	96.3%	66.7%	Improvement Needed
Distribution Center D	Newark, NJ	51.9%	2,668	3,757	96.3%	72.0%	Improvement Needed

Optimization Opportunities

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

picking
system to
improve
accuracy to
99.8%

- Upgrade WMS integration for real-time inventory visibility

- Add automated sortation system for small package handling

- Implement predictive analytics for demand-based staffing

- Consider AS/RS system for high-velocity SKUs