

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:08:31 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 83.8%
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	77.5%	1,663	3,405	98.7%	82.3%	Optimized
	Dallas, TX	44.4%	1,781	1,905	96.3%	86.5%	Optimized
	Atlanta, GA	96.1%	1,843	2,654	97.8%	86.7%	Optimized
	Los Angeles, CA	79.9%	2,155	3,086	95.8%	83.5%	Optimized
	Newark, NJ	109.5%	1,321	2,559	99.1%	80.1%	Optimized
Center E							

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