

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:06:28 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 67
Average Utilization: 83.2%
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	40.5%	2,525	3,215	97.7%	81.3%	Optimized
	Dallas, TX	64.6%	1,879	2,076	98.3%	84.6%	Optimized
	Atlanta, GA	56.6%	1,396	3,021	97.1%	70.7%	Improvement Needed
Distribution Center B							
Distribution Center D	Los Angeles, CA	67.5%	1,057	2,619	95.4%	90.7%	Optimized
	Newark, NJ	85.3%	1,115	1,648	97.5%	88.9%	Optimized
Distribution 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