

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:10 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 81.7%
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	57.3%	2,382	3,194	96.0%	87.6%	Optimized
	Dallas, TX	43.1%	1,497	2,787	99.3%	84.8%	Optimized
	Atlanta, GA	40.5%	2,624	3,633	96.6%	65.0%	Improvement Needed
Distribution Center B	Los Angeles, CA	54.2%	1,931	2,470	97.8%	90.6%	Optimized
	Newark, NJ	53.1%	2,209	3,343	99.3%	80.5%	Optimized

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