

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:07:22 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 84.6%
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	58.4%	2,052	2,584	96.1%	89.2%	Optimized
	Dallas, TX	50.4%	2,376	1,565	99.2%	92.0%	Optimized
	Atlanta, GA	48.2%	1,878	2,738	96.0%	73.3%	Improvement Needed
Distribution Center B	Los Angeles, CA	77.6%	1,505	3,318	95.2%	93.7%	Optimized
	Newark, NJ	59.2%	1,616	2,422	96.9%	74.5%	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