

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:04:27 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 74.9%
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 Status	
Distribution Center A	Chicago, IL	71.3%	1,143	3,142	99.1%	83.9%	Optimized
	Dallas, TX	84.0%	2,166	1,750	97.5%	74.1%	Improvement Needed
Distribution Center B		Atlanta, GA	45.5%	1,142	3,572	97.8%	Improvement Needed
Distribution Center D		Los Angeles, CA	76.8%	1,032	3,779	98.2%	Improvement Needed
Distribution Center E		Newark, NJ	97.0%	1,343	3,399	96.2%	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