

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:07:26 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 82.3%
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	89.9%	2,131	2,595	95.3%	80.4%	Optimized
	Dallas, TX	58.9%	2,700	3,265	96.4%	90.7%	Optimized
Distribution Center B	Atlanta, GA	54.4%	1,207	3,406	97.3%	90.7%	Optimized
Distribution Center C	Los Angeles, CA	64.9%	2,429	3,855	96.1%	78.7%	Improvement Needed
Distribution Center D	Newark, NJ	63.6%	2,976	1,786	98.9%	71.0%	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