

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:12 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 79.7%
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	64.5%	1,813	3,340	97.6%	89.8%	Optimized
	Dallas, TX	66.8%	1,831	3,610	98.3%	66.0%	Improvement Needed
Distribution Center B	Atlanta, GA	75.9%	1,064	2,619	96.6%	88.7%	Optimized
Distribution Center C	Los Angeles, CA	69.4%	1,324	2,784	95.8%	63.8%	Improvement Needed
Distribution Center D	Newark, NJ	51.7%	1,426	3,530	95.6%	90.4%	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