

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:03:05 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 25
Average Utilization: 83.5%
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	81.3%	2,270	3,195	95.6%	85.3%	Optimized
	Dallas, TX	76.2%	1,564	2,919	97.5%	86.4%	Optimized
Distribution Center B	Atlanta, GA	56.3%	1,274	2,262	96.7%	93.3%	Optimized
Distribution Center C	Los Angeles, CA	63.4%	2,184	2,656	96.7%	75.7%	Improvement Needed
Distribution Center D	Newark, NJ	46.4%	2,122	2,160	98.3%	76.9%	Improvement Needed
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