

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:49 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 81.5%
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	66.5%	2,450	3,792	95.7%	91.9%	Optimized
	Dallas, TX	72.2%	1,830	3,310	96.4%	73.5%	Improvement Needed
Distribution Center B	Atlanta, GA	37.2%	2,810	3,408	98.8%	93.0%	Optimized
Distribution Center C	Los Angeles, CA	69.8%	1,609	3,879	97.0%	81.4%	Optimized
Distribution Center D	Newark, NJ	51.2%	2,221	3,919	99.3%	67.6%	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