

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:06:22 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 66
Average Utilization: 74.4%
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	83.8%	1,012	2,978	98.3%	83.5%	Optimized
	Dallas, TX	86.3%	1,533	1,575	99.3%	85.7%	Optimized
Distribution Center B	Atlanta, GA	63.6%	1,291	2,470	97.7%	82.4%	Optimized
Distribution Center C	Los Angeles, CA	54.6%	2,168	3,466	95.0%	60.0%	Improvement Needed
Distribution Center D	Newark, NJ	51.1%	2,709	2,357	96.8%	60.4%	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