

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:54 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 86.4%
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	50.1%	1,388	1,959	98.5%	87.0%	Optimized
	Dallas, TX	67.0%	1,177	2,675	99.5%	90.4%	Optimized
Distribution Center B	Atlanta, GA	52.7%	2,733	1,713	97.8%	84.8%	Optimized
Distribution Center C	Los Angeles, CA	68.8%	1,351	2,782	96.1%	76.7%	Improvement Needed
Distribution Center D	Newark, NJ	81.5%	2,678	1,530	98.0%	93.2%	Optimized
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