

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:39 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 84.7%
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	85.0%	1,640	1,843	95.1%	77.4%	Improvement Needed
Distribution Center B	Dallas, TX	57.6%	1,262	1,688	97.0%	91.1%	Optimized
Distribution Center C	Atlanta, GA	71.2%	2,687	2,633	99.2%	90.1%	Optimized
Distribution Center D	Los Angeles, CA	68.3%	1,538	3,512	98.2%	71.6%	Improvement Needed
Distribution Center E	Newark, NJ	93.3%	2,625	3,676	95.8%	93.4%	Optimized

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