

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:03:41 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 22
Average Utilization: 76.7%
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	68.6%	2,860	2,924	99.5%	72.4%	Improvement Needed
Distribution Center B	Dallas, TX	77.4%	1,365	3,477	97.2%	70.1%	Improvement Needed
Distribution Center C	Atlanta, GA	52.6%	1,135	2,094	98.1%	82.9%	Optimized
Distribution Center D	Los Angeles, CA	55.0%	2,894	2,108	99.0%	79.5%	Improvement Needed
Distribution Center E	Newark, NJ	70.7%	1,673	2,288	95.3%	78.8%	Improvement Needed

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