

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:08:27 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 18
Average Utilization: 76.8%
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	95.1%	2,653	1,949	96.5%	86.3%	Optimized
	Dallas, TX	68.5%	1,783	1,995	98.7%	73.9%	Improvement Needed
Distribution Center B	Atlanta, GA	59.6%	2,898	3,716	96.2%	75.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	79.8%	1,200	3,553	96.8%	72.4%	Improvement Needed
Distribution Center E	Newark, NJ	42.0%	2,457	2,299	96.9%	75.5%	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