

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:08:26 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 67.4%
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	46.9%	1,581	3,607	99.2%	78.8%	Improvement Needed
Distribution Center B	Dallas, TX	70.4%	2,649	3,774	96.2%	63.1%	Improvement Needed
Distribution Center C	Atlanta, GA	46.1%	2,489	3,424	97.2%	63.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	77.2%	1,791	1,557	95.6%	64.0%	Improvement Needed
Distribution Center E	Newark, NJ	80.6%	1,927	3,850	97.8%	67.5%	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