

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:44 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 78.7%
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 Status	
Distribution Center A	Chicago, IL	62.4%	1,967	3,894	98.6%	80.1%	Optimized
	Dallas, TX	71.6%	1,419	1,986	97.7%	66.1%	Improvement Needed
Distribution Center B	Atlanta, GA	74.6%	1,327	2,262	97.0%	61.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	74.9%	2,903	3,958	99.2%	94.1%	Optimized
Distribution Center E	Newark, NJ	94.9%	1,139	3,403	97.9%	91.4%	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