

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:04:32 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 78.4%
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	59.9%	2,032	2,498	98.6%	83.8%	Optimized
	Dallas, TX	57.8%	1,356	1,560	95.1%	67.9%	Improvement Needed
Distribution Center B	Atlanta, GA	58.8%	1,574	3,321	99.2%	86.8%	Optimized
Distribution Center C	Los Angeles, CA	72.1%	2,185	1,846	96.1%	91.0%	Optimized
Distribution Center D	Newark, NJ	72.7%	1,325	2,224	97.7%	62.5%	Improvement Needed
Distribution Center E							

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