

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:40 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 75.2%
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	105.5%	1,930	3,637	97.4%	84.4%	Optimized
	Dallas, TX	66.9%	2,034	2,766	98.8%	62.5%	Improvement Needed
Distribution Center B	Atlanta, GA	47.3%	2,968	3,133	98.3%	82.2%	Optimized
Distribution Center C	Los Angeles, CA	81.0%	2,393	2,795	95.1%	61.5%	Improvement Needed
	Newark, NJ	97.6%	2,211	1,578	99.4%	85.6%	Optimized
Distribution Center D							
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