

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:31 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 80.5%
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	52.1%	2,832	2,343	95.7%	90.3%	Optimized
	Dallas, TX	48.7%	2,113	2,901	97.5%	88.2%	Optimized
Distribution Center B	Atlanta, GA	88.1%	1,287	3,364	95.6%	76.1%	Improvement Needed
Distribution Center C	Los Angeles, CA	57.5%	1,260	2,695	95.4%	82.6%	Optimized
Distribution Center D	Newark, NJ	70.7%	1,403	2,005	95.2%	65.5%	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