

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:02:32 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 72
Average Utilization: 74.3%
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	69.1%	2,915	3,488	99.4%	79.3%	Improvement Needed
Distribution Center B	Dallas, TX	70.2%	1,545	1,713	95.8%	69.6%	Improvement Needed
Distribution Center C	Atlanta, GA	65.2%	2,888	2,273	95.4%	73.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	88.4%	1,970	1,508	97.2%	83.6%	Optimized
Distribution Center E	Newark, NJ	81.2%	2,636	3,504	95.8%	65.8%	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