

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:02:30 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 81.3%
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	94.8%	1,835	3,138	97.2%	70.7%	Improvement Needed
Distribution Center B	Dallas, TX	54.5%	2,101	3,207	98.5%	85.9%	Optimized
Distribution Center C	Atlanta, GA	90.8%	1,589	3,201	97.5%	63.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	78.2%	1,283	1,749	96.3%	93.7%	Optimized
Distribution Center E	Newark, NJ	36.8%	2,219	3,530	98.5%	92.9%	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