

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:44 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 24
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	50.8%	1,697	2,077	95.3%	66.1%	Improvement Needed
Distribution Center B	Dallas, TX	94.1%	1,319	2,805	96.9%	61.1%	Improvement Needed
Distribution Center C	Atlanta, GA	64.7%	1,145	2,102	98.7%	90.1%	Optimized
Distribution Center D	Los Angeles, CA	70.8%	2,389	3,450	95.4%	84.5%	Optimized
Distribution Center E	Newark, NJ	74.1%	2,067	2,615	97.9%	90.0%	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