

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:09:04 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 84.4%
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	35.9%	1,521	3,019	97.9%	94.1%	Optimized
	Dallas, TX	68.5%	1,813	2,622	98.5%	72.9%	Improvement Needed
Distribution Center B	Atlanta, GA	67.8%	2,496	1,804	97.6%	94.7%	Optimized
Distribution Center C	Los Angeles, CA	63.1%	1,652	1,709	98.6%	74.2%	Improvement Needed
	Newark, NJ	49.4%	1,260	3,411	99.0%	85.9%	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