

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:01:08 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 77.1%
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	89.7%	1,125	2,963	98.6%	80.7%	Optimized
	Dallas, TX	70.3%	2,171	2,539	95.8%	80.6%	Optimized
	Atlanta, GA	66.3%	1,311	3,559	95.8%	69.2%	Improvement Needed
Distribution Center B	Los Angeles, CA	94.7%	1,938	1,795	99.4%	66.8%	Improvement Needed
Distribution Center C	Newark, NJ	59.4%	2,789	2,813	97.3%	88.4%	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