

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:02:59 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 80.1%
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	69.7%	1,885	3,583	99.1%	80.2%	Optimized
	Dallas, TX	47.0%	2,422	3,077	96.6%	90.6%	Optimized
Distribution Center B	Atlanta, GA	106.4%	1,181	3,745	98.9%	62.4%	Improvement Needed
Distribution Center C	Los Angeles, CA	37.0%	1,360	3,865	98.6%	92.3%	Optimized
Distribution Center D	Newark, NJ	48.5%	1,924	1,958	98.6%	75.2%	Improvement Needed
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