

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:03:01 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 61
Average Utilization: 82.3%
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	82.9%	2,299	1,844	98.1%	89.5%	Optimized
	Dallas, TX	75.7%	1,754	2,370	98.9%	81.5%	Optimized
Distribution Center B	Atlanta, GA	117.8%	1,410	1,544	95.2%	88.8%	Optimized
Distribution Center C	Los Angeles, CA	83.3%	1,787	1,803	97.3%	72.3%	Improvement Needed
Distribution Center D	Newark, NJ	98.0%	2,974	2,042	97.3%	79.2%	Improvement Needed
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