

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:04:24 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 82.1%
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	61.1%	1,475	3,988	95.9%	82.7%	Optimized
	Dallas, TX	78.0%	1,974	1,822	95.7%	70.9%	Improvement Needed
Distribution Center B	Atlanta, GA	63.1%	2,404	2,205	96.1%	74.7%	Improvement Needed
Distribution Center C	Los Angeles, CA	69.3%	2,483	3,504	96.0%	91.1%	Optimized
Distribution Center D	Newark, NJ	91.6%	1,563	2,768	96.5%	90.9%	Optimized
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