

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:06:45 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 84.8%
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	76.9%	1,404	3,281	98.3%	86.3%	Optimized
	Dallas, TX	91.0%	2,968	3,240	99.0%	80.0%	Optimized
	Atlanta, GA	57.6%	1,759	3,961	95.9%	82.3%	Optimized
	Los Angeles, CA	87.8%	1,511	3,646	96.6%	82.9%	Optimized
	Newark, NJ	41.4%	2,221	3,689	96.2%	92.5%	Optimized
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