

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:09:01 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 45
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	60.0%	1,327	3,024	95.5%	91.9%	Optimized
	Dallas, TX	101.0%	2,925	2,333	97.9%	82.2%	Optimized
Distribution Center B	Atlanta, GA	65.0%	1,363	2,714	95.3%	66.1%	Improvement Needed
	Los Angeles, CA	66.6%	1,609	3,923	99.1%	94.2%	Optimized
Distribution Center D	Newark, NJ	56.3%	2,507	2,681	96.6%	89.4%	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