## **Warehouse Automation Analytics**

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:21 AM Use Case: warehouse-automation

## **Automation Overview**

Total Warehouses: 5
Total Robots: 50

Average Utilization: 74.5% 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 Status Level	
Distribution Center A	Chicago, IL	75.7%	2,507	3,017	98.0%	71.2%	Improvemen t Needed
Distribution	Dallas, TX	67.4%	1,154	2,149	96.1%	86.8%	Optimized
	Atlanta, GA	41.6%	1,577	3,061	97.9%	81.7%	Optimized
	Los Angeles, CA	45.7% \	1,553	3,672	95.2%	61.5%	Improvemen t Needed
Distribution Center E	Newark, NJ	47.6%	2,561	1,536	97.1%	71.3%	Improvemen t Needed

## Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking system to improve accuracy to 99.8%

- Upgra de WMS integration for real-time inventory visibility
- Add au tomated sortation system for small package handling
- Imple ment predictive analytics for demand-based staffing
- Consid er AS/RS system for highvelocity SKUs