# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:50 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 48

Average Utilization: 74.6% 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	77.0%	2,473	2,627	95.1%	62.6%	Improvemen t Needed
	Distribution	•	48.3%	2,528	2,650	97.0%	85.0%	Optimized
	Center B Distribution	Atlanta, GA	41.2%	2,372	3,207	95.5%	91.3%	Optimized
		Los Angeles, CA	97.6% \	2,571	3,345	97.9%	68.5%	Improvemen t Needed
	Distribution Center E	Newark, NJ	42.6%	1,201	2,629	97.8%	65.7%	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