# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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#### **Automation Overview**

Total Warehouses: 5 Total Robots: 54

Average Utilization: 73.8% 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 Status Level	
	Distribution Center A	Chicago, IL	78.7%	1,546	2,035	98.2%	71.1%	Improvemen t Needed
	Distribution	•	72.0%	1,147	2,963	98.6%	88.8%	Optimized
	Center B Distribution	Atlanta, GA	57.3%	2,980	3,628	95.1%	85.0%	Optimized
		Los Angeles, CA	109.3% \	1,782	1,829	99.1%	62.8%	Improvemen t Needed
	Distribution Center E	Newark, NJ	109.6%	1,481	3,313	96.1%	61.4%	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