# **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: 51

Average Utilization: 77.1% 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	45.6%	1,268	1,504	95.2%	68.3%	Improvemen t Needed
	Distribution	•	50.4%	2,047	1,945	95.6%	83.4%	Optimized
	Center B Distribution		47.7%	1,875	2,982	99.4%	82.3%	Optimized
	Center C Distribution Center D	Los Angeles, CA	119.6% \	1,831	2,443	97.3%	75.2%	Improvemen t Needed
	Distribution Center E	Newark, NJ	94.5%	1,859	2,101	98.2%	76.3%	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