# **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: 47

Average Utilization: 79.6% 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	60.3%	2,555	1,958	98.8%	62.7%	Improvemen t Needed
	Distribution	•	86.6%	2,630	2,309	95.7%	81.8%	Optimized
		Atlanta, GA	79.2%	2,455	1,948	96.4%	90.9%	Optimized
	Senter C Distribution Center D	Los Angeles, CA	90.0% A	1,491	2,266	95.4%	76.6%	Improvemen t Needed
	Distribution Center E	Newark, NJ	31.2%	2,296	2,090	96.8%	86.1%	Optimized

# Optimiz ation O pportun ities

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

picking 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