# **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: 48

Average Utilization: 78.3% 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	
Distributi Center A	on Chicago, IL	68.1%	2,088	1,937	99.4%	70.1%	Improvemen t Needed
	on Dallas, TX	91.3%	2,486	3,886	96.1%	88.0%	Optimized
	on Atlanta, GA	97.0%	2,720	3,556	97.9%	82.7%	Optimized
Center C Distributi Center D		56.2% \	1,158	3,581	95.4%	64.7%	Improvemen t Needed
Distributi Center E	on Newark, NJ	65.9%	2,486	3,230	98.7%	86.2%	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