# **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: 37

Average Utilization: 77.4% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Loc	ation Capa Used	•	nd/ Outbo	ound/ Picking Accura	•	Automation Status Level	
Distribution Chic	ago, IL 79.9%	2,128	2,544	96.6%	82.3%	Optimized	
Center A Distribution Dalla Center B	as, TX 90.1%	1,326	3,386	95.4%	73.2%	Improvemen t Needed	
Distribution Atlan	nta, GA 49.4%	1,907	2,943	98.9%	84.2%	Optimized	
Center C Distribution Los	93.7%	2,568	2,973	97.7%	85.3%	Optimized	
Center D Ang Distribution New Center E	ark, NA 52.4%	2,325	3,050	97.9%	61.8%	Improvemen t Needed	

# 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