# **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: 36

Average Utilization: 79.6% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Location		n Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
	•	IL 32.1%	1,132	2,743	96.0%	82.2%	Optimized
	Center A Distribution Dallas, T Center B	X 42.1%	1,643	3,519	99.1%	77.3%	Improvemen t Needed
	Distribution Atlanta,	GA 67.5%	1,229	3,790	98.4%	94.4%	Optimized
	Center C Distribution Los Center D Angeles,	58.2% CA	2,010	1,572	96.2%	78.7%	Improvemen t Needed
	Distribution Newark, Center E	NJ 51.7%	2,283	3,065	99.0%	65.4%	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