# **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: 35

Average Utilization: 76.6% 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 Chicago, IL	58.2%	2,845	2,911	99.2%	86.7%	Optimized
	Center A Distribution Dallas, TX		1,397	3,708	98.7%	92.0%	Optimized
	Center B Distribution Atlanta, GA Center C	70.3%	1,251	3,868	98.7%	71.0%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	84.4% \	2,149	3,680	99.1%	62.1%	Improvemen t Needed
	Distribution Newark, NJ Center E	50.1%	2,318	3,763	96.5%	71.4%	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