# **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: 60

Average Utilization: 69.8% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Location		on Capacit Used	ty Inbound Day	/ Outboun Day	d/ Picking Accuracy	Automation Status Level	
	Distribution Chicago Center A	o, IL 59.5%	2,304	3,115	97.4%	62.9%	Improvemen t Needed
	Distribution Dallas,	TX 68.1%	1,843	2,282	98.3%	81.2%	Optimized
	Center B Distribution Atlanta, Center C	GA 62.8%	1,232	2,615	97.2%	64.2%	Improvemen t Needed
	Distribution Los Center D Angeles	109.2% s, CA	1,343	2,491	97.3%	73.8%	Improvemen t Needed
	Distribution Newark Center E	, NJ 52.1%	2,892	2,953	97.8%	67.0%	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