# **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: 59

Average Utilization: 70.4% 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	
	stribution enter A	Chicago, IL	66.1%	2,172	3,717	96.7%	64.8%	Improvemen t Needed
_		Dallas, TX	51.8%	2,833	1,566	97.0%	80.1%	Optimized
	Center B Distribution Center C	Atlanta, GA	45.5%	2,680	1,726	98.4%	62.0%	Improvemen t Needed
	stribution enter D	Los Angeles, CA	72.6% A	1,018	2,023	99.4%	75.8%	Improvemen t Needed
	stribution enter E	Newark, NJ	114.5%	1,135	2,716	99.0%	69.4%	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