## **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: 43

Average Utilization: 79.2% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location		Capacity Used			Outbound/ Picking Day Accuracy		Automation Status Level	
	Distribution Chicago, I Center A	L 77.0%	2,891	3,759	97.1%	62.0%	Improvemen t Needed	
	Distribution Dallas, TX Center B	71.3%	2,457	1,898	99.0%	77.4%	Improvemen t Needed	
	Distribution Atlanta, G	A 65.9%	2,880	3,211	96.1%	91.5%	Optimized	
	Center C Distribution Los Center D Angeles, (	73.5% CA	2,633	3,598	97.0%	79.4%	Improvemen t Needed	
	Distribution Newark, N Center E	JJ 112.8%	2,051	3,124	99.2%	85.7%	Optimized	

# 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