# **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: 27

Average Utilization: 78.6% 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 73.5%	2,332	1,917	97.8%	90.7%	Optimized
	Center A Distribution Dallas, TX Center B	48.8%	2,462	2,959	96.2%	72.0%	Improvemen t Needed
	Distribution Atlanta, G	6A 68.1%	2,753	2,518	97.9%	89.7%	Optimized
	Center C Distribution Los Center D Angeles,	65.4% CA	1,212	2,269	97.9%	78.4%	Improvemen t Needed
	Distribution Newark, N	NJ 93.0%	1,349	2,817	95.4%	62.1%	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