# **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: 75.9% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Locati		Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
	Distribution Chicago, I	L 102.1%	1,302	3,724	99.0%	87.3%	Optimized
	Center A Distribution Dallas, TX Center B	78.6%	2,599	2,791	96.0%	64.9%	Improvemen t Needed
	Distribution Atlanta, G	A 65.0%	1,924	1,732	98.3%	88.8%	Optimized
	Center C Distribution Los Center D Angeles, C	94.4% CA	2,498	1,584	95.3%	78.1%	Improvemen t Needed
	Distribution Newark, N Center E	IJ 36.7%	2,758	3,214	98.9%	60.6%	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