# **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: 40

Average Utilization: 73.3% 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, I Center A	L 55.6%	1,421	3,638	99.3%	66.1%	Improvemen t Needed
	Distribution Dallas, TX	60.6%	2,294	2,392	95.8%	83.3%	Optimized
	Center B Distribution Atlanta, G Center C	A 108.5%	1,289	1,604	99.5%	69.5%	Improvemen t Needed
	Distribution Los Center D Angeles, C	74.0% CA	2,856	2,616	97.7%	74.0%	Improvemen t Needed
	Distribution Newark, N Center E	J 58.2%	2,764	2,490	99.0%	73.6%	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