# **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: 50

Average Utilization: 76.8% 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	86.0%	1,332	3,235	97.5%	84.4%	Optimized
	Center A Distribution Dallas, TX	66.0%	2,587	2,287	97.5%	80.4%	Optimized
	Center B Distribution Atlanta, GA Center C	46.5%	2,012	1,576	99.1%	71.3%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	82.5% \	1,928	2,156	98.7%	75.5%	Improvemen t Needed
	Distribution Newark, NJ Center E	51.3%	1,572	2,784	97.8%	72.4%	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