# **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: 56

Average Utilization: 75.5% 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	50.1%	2,566	2,858	97.1%	88.1%	Optimized
	Center A Distribution Dallas, TX Center B	76.6%	2,386	2,465	96.2%	70.9%	Improvemen t Needed
	Distribution Atlanta, GA Center C	94.8%	1,212	3,963	98.9%	72.8%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	106.1% \	2,948	3,500	95.4%	64.4%	Improvemen t Needed
	Distribution Newark, NJ Center E	46.9%	2,475	3,790	98.1%	81.3%	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