# **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: 73.5% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location		Capacity Used	. ,		Picking Accuracy	Automation Status Level	
	Distribution Chicago, IL Center A	67.1%	2,367	1,955	95.3%	69.7%	Improvemen t Needed
	Distribution Dallas, TX Center B	49.9%	2,288	3,110	95.8%	68.6%	Improvemen t Needed
	Distribution Atlanta, GA	75.2%	2,350	2,605	98.8%	92.1%	Optimized
	Center C Distribution Los Center D Angeles, CA	83.8% \	1,400	2,854	96.2%	63.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	72.9%	2,733	2,971	98.7%	73.5%	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