# **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: 13

Average Utilization: 72.2% 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 71.1%	2,937	3,717	98.7%	87.0%	Optimized
	Center A Distribution Dallas, T Center B	X 89.9%	2,743	2,237	98.2%	78.2%	Improvemen t Needed
	Distribution Atlanta, Center C	GA 59.0%	1,777	2,521	95.5%	66.3%	Improvemen t Needed
	Distribution Los Center D Angeles,	56.1% CA	1,623	3,852	97.9%	66.6%	Improvemen t Needed
	Distribution Newark, Center E	NJ 102.2%	1,599	2,161	98.7%	62.9%	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