# **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: 38

Average Utilization: 74.9% 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 Chi	icago, IL	62.9%	1,405	3,804	98.8%	93.0%	Optimized
Center A Distribution Dal Center B	llas, TX	63.6%	2,349	2,333	99.4%	71.4%	Improvemen t Needed
Distribution Atla Center C	anta, GA	38.7%	2,747	2,345	97.8%	63.3%	Improvemen t Needed
Distribution Los Center D Ang	s geles, C <i>P</i>	65.7% A	2,669	3,927	95.2%	73.7%	Improvemen t Needed
Distribution New Center E	wark, NJ	70.2%	2,937	1,928	98.8%	72.9%	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