## **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: 42

Average Utilization: 71.7% 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 Center A	84.9%	2,093	3,979	96.2%	63.5%	Improvemen t Needed
	Distribution Dallas, TX Center B	36.9%	2,985	1,951	97.3%	68.1%	Improvemen t Needed
	Distribution Atlanta, GA	87.3%	1,014	1,935	97.9%	81.1%	Optimized
	Center C Distribution Los Center D Angeles, CA	58.7% A	1,516	2,165	95.9%	62.2%	Improvemen t Needed
	Distribution Newark, NJ Center E	95.6%	2,709	3,956	96.0%	83.5%	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