## **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: 24

Average Utilization: 78.2% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location		•		Outbound/ Day	•		Automation Status Level	
	Distribution Chicago, IL	49.6%	2,029	3,002	97.2%	87.2%	Optimized	
	Center A Distribution Dallas, TX Center B	63.9%	1,232	2,395	98.1%	73.8%	Improvemen t Needed	
	Distribution Atlanta, GA Center C	70.9%	1,493	1,696	99.3%	70.4%	Improvemen t Needed	
	Distribution Los Center D Angeles, CA	76.3% \	2,875	2,047	96.9%	68.2%	Improvemen t Needed	
	Distribution Newark, NJ Center E	47.3%	2,828	3,431	99.1%	91.2%	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