## **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: 50

Average Utilization: 77.0% 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	36.1%	1,902	3,455	96.3%	91.6%	Optimized
	Center A Distribution Dallas, TX Center B	59.8%	1,622	3,885	96.2%	63.1%	Improvemen t Needed
	Distribution Atlanta, GA Center C	40.0%	1,239	2,347	95.6%	67.1%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	74.7% A	2,712	3,307	96.1%	68.5%	Improvemen t Needed
	Distribution Newark, NJ Center E	33.1%	1,426	2,218	95.1%	94.8%	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