# **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: 65

Average Utilization: 77.2% 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 Center A	69.7%	2,588	3,060	99.1%	71.7%	Improvemen t Needed
	Distribution Dallas, TX	81.4%	2,029	1,828	99.4%	82.5%	Optimized
	Center B Distribution Atlanta, GA Center C	35.3%	2,573	3,039	96.7%	77.9%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	77.1% A	1,229	1,792	97.7%	72.5%	Improvemen t Needed
	Distribution Newark, NJ Center E	104.8%	1,856	2,432	97.8%	81.4%	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