# **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: 45

Average Utilization: 72.7% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

### **Warehouse Performance**

Warehouse Location		Capacity Used	. ,		Automation Status Level		
	Distribution Chicago, IL Center A	61.0%	2,731	1,612	96.1%	60.4%	Improvemen t Needed
	Distribution Dallas, TX	64.3%	2,567	3,980	96.2%	83.6%	Optimized
	Center B Distribution Atlanta, GA	92.3%	2,912	3,245	98.7%	81.6%	Optimized
	Center C Distribution Los Center D Angeles, CA	97.6% \	1,518	1,726	96.7%	71.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	113.5%	1,832	2,522	95.4%	66.7%	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