# **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: 46

Average Utilization: 78.1% 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 Level	n Status
Distribution Chicago, IL Center A	47.9%	2,124	2,592	95.0%	63.5%	Improvemen t Needed
Distribution Dallas, TX	76.0%	1,566	1,606	98.5%	83.7%	Optimized
Center B Distribution Atlanta, GA	34.4%	2,489	3,561	97.1%	91.6%	Optimized
Center C Distribution Los	89.8%	1,822	2,019	95.1%	89.3%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>1</sup> 113.9%	2,366	3,063	97.1%	62.5%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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