# **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: 48

Average Utilization: 83.3% 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	68.1%	1,684	1,975	98.3%	74.9%	Improvemen t Needed
Distribution Dallas, TX	56.1%	2,331	1,773	97.9%	92.3%	Optimized
Center B Distribution Atlanta, GA	58.1%	2,552	1,680	95.5%	92.2%	Optimized
Center C Distribution Los	107.1%	2,409	3,335	99.3%	90.4%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>1</sup> 58.3%	1,285	3,537	97.4%	66.9%	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