# **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: 58

Average Utilization: 77.7% 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	81.7%	2,220	2,890	96.1%	60.1%	Improvemen t Needed
Distribution Dallas, TX	118.1%	1,685	1,766	97.7%	82.0%	Optimized
Center B Distribution Atlanta, GA	36.7%	1,762	2,692	99.3%	91.8%	Optimized
Center C Distribution Los	66.0%	1,768	2,353	97.6%	87.3%	Optimized
Center E  Angeles, CA  Center E	A65.3%	1,767	2,548	96.4%	67.1%	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