# **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: 50

Average Utilization: 80.9% 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	43.2%	2,599	3,174	98.8%	79.0%	Improvemen t Needed
Distribution Dallas, TX Center B	39.8%	2,598	2,971	95.1%	64.3%	Improvemen t Needed
Distribution Atlanta, GA	58.1%	1,765	3,414	95.8%	91.5%	Optimized
Center C Distribution Los	81.7%	1,136	3,952	98.0%	89.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 108.7%	2,413	1,841	96.8%	80.2%	Optimized

# 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