# **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: 73

Average Utilization: 83.5% 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	61.8%	1,368	3,819	98.1%	79.7%	Improvemen t Needed
Distribution Dallas, TX Center B	69.2%	1,257	1,687	95.6%	66.9%	Improvemen t Needed
Distribution Atlanta, GA	94.0%	1,531	1,777	95.9%	88.4%	Optimized
Center C Distribution Los	42.8%	1,113	2,870	98.2%	91.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 48.0%	2,556	3,643	95.7%	91.2%	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