# **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: 76.4% 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	53.4%	2,295	1,515	98.8%	62.6%	Improvemen t Needed
Distribution Dallas, TX Center B	80.7%	2,988	1,981	99.2%	67.2%	Improvemen t Needed
Distribution Atlanta, GA	65.6%	2,168	2,315	96.7%	80.6%	Optimized
Center C Distribution Los	32.0%	2,732	3,606	97.8%	81.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 79.4%	2,747	2,079	97.1%	89.7%	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