# **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: 53

Average Utilization: 80.6% 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	Status
Distribution Chicago, IL Center A	90.2%	2,526	3,107	96.6%	72.6%	Improvemen t Needed
Distribution Dallas, TX Center B	50.4%	2,467	3,055	95.8%	72.9%	Improvemen t Needed
Distribution Atlanta, GA	83.0%	2,869	3,157	97.8%	93.8%	Optimized
Center C Distribution Los	59.4%	2,944	2,324	96.2%	92.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 105.4%	2,059	1,613	96.7%	71.2%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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