# **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: 63

Average Utilization: 79.6% 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	n Status
Distribution Chicago, IL	96.3%	2,052	2,350	97.8%	80.6%	Optimized
Center A Distribution Dallas, TX	89.4%	2,741	2,702	96.5%	80.8%	Optimized
Center B Distribution Atlanta, GA	46.3%	1,247	2,255	97.1%	81.9%	Optimized
Center C Distribution Los	52.9%	1,430	2,819	97.7%	85.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>A</sup> 42.5%	2,750	1,600	97.7%	69.1%	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