# **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: 49

Average Utilization: 76.9% 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 Status Level	
Distribution Chicago, IL	83.6%	1,881	1,703	99.2%	92.6%	Optimized
Center A Distribution Dallas, TX Center B	119.2%	1,726	3,420	99.4%	66.0%	Improvemen t Needed
Distribution Atlanta, GA	A 57.3%	1,275	1,742	95.2%	63.1%	Improvemen t Needed
Distribution Los	56.1%	1,701	1,707	98.1%	84.9%	Optimized
Center D Angeles, Distribution Newark, Center E	Å83.8%	2,109	2,095	97.3%	77.7%	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