# **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: 54

Average Utilization: 77.9% 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 Level	Status
Distribution Chicago, IL		1,038	1,507	97.7%	92.8%	Optimized
Center A Distribution Dallas, TX Center B	76.6%	2,782	2,351	98.0%	67.7%	Improvemen t Needed
Distribution Atlanta, GA	54.9%	2,362	3,405	95.9%	89.6%	Optimized
Center C Distribution Los Center D Angeles, CA	87.4% A	1,427	2,560	96.5%	66.6%	Improvemen t Needed
Distribution Newark, NJ Center E	95.1%	1,256	2,104	96.2%	72.9%	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