# **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: 31

Average Utilization: 76.3% 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	61.5%	2,124	2,153	96.9%	62.0%	Improvemen t Needed
Distribution Dallas, TX	47.3%	1,347	2,885	95.2%	89.1%	Optimized
Center B Distribution Atlanta, GA	86.4%	2,949	2,274	98.4%	81.5%	Optimized
Center C Distribution Los Center D Angeles, CA	48.5% \	1,129	2,952	95.6%	69.4%	Improvemen t Needed
Distribution Newark, NJ Center E	110.8%	1,568	3,009	95.0%	79.5%	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