# **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: 45

Average Utilization: 77.3% 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	56.7%	2,852	1,826	95.7%	66.0%	Improvemen t Needed
Distribution Dallas, TX Center B	104.1%	1,634	1,557	96.6%	78.9%	Improvemen t Needed
Distribution Atlanta, GA	48.9%	2,425	2,141	96.9%	82.2%	Optimized
Center C Distribution Los	71.6%	1,974	1,826	98.2%	91.6%	Optimized
Center E  Angeles, CA Newark, NJ Center E	<sup>4</sup> 91.2%	2,675	2,853	96.9%	68.0%	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