# **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: 35

Average Utilization: 74.8% 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 Center A	49.9%	1,486	3,786	95.7%	64.5%	Improvemen t Needed
Distribution Dallas, TX Center B	67.3%	2,223	1,669	95.4%	76.0%	Improvemen t Needed
Distribution Atlanta, GA	71.9%	1,389	2,100	95.9%	84.7%	Optimized
Center C Distribution Los	78.4%	1,757	2,032	96.0%	87.9%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 45.7%	1,072	2,805	99.0%	60.7%	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