# **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: 77.8% 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	Status
Distribution Chicago, IL	47.6%	2,525	3,819	97.2%	84.0%	Optimized
Center A Distribution Dallas, TX Center B	33.3%	1,722	2,130	95.4%	75.8%	Improvemen t Needed
Distribution Atlanta, GA Center C	73.5%	2,904	3,401	97.5%	73.5%	Improvemen t Needed
Distribution Los	78.1%	2,865	2,769	99.1%	81.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 101.3%	1,240	1,921	97.6%	73.8%	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