# **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: 75.0% 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	56.1%	1,317	2,350	95.8%	63.6%	Improvemen t Needed
Distribution Dallas, TX Center B	96.5%	2,701	1,715	96.4%	65.1%	Improvemen t Needed
Distribution Atlanta, GA	76.8%	1,532	3,525	97.0%	87.4%	Optimized
Center C Distribution Los	48.3%	1,859	3,462	97.0%	81.6%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>1</sup> 103.0%	2,574	2,066	97.7%	77.2%	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