# **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: 47

Average Utilization: 85.6% 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		1,712	3,322	97.2%	88.8%	Optimized
Center A Distribution Dallas, TX Center B	50.2%	2,994	2,377	99.1%	76.5%	Improvemen t Needed
Distribution Atlanta, GA	104.8%	1,187	2,004	95.3%	87.3%	Optimized
Center C Distribution Los	89.7%	1,006	1,551	96.2%	88.1%	Optimized
Center D Angeles, CA Center E	<sup>A</sup> 61.5%	2,699	2,651	96.3%	87.2%	Optimized

# 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