# **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: 38

Average Utilization: 79.0% 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	72.9%	1,489	1,627	96.3%	67.8%	Improvemen t Needed
Distribution Dallas, TX	41.6%	1,697	2,751	97.9%	85.5%	Optimized
Center B Distribution Atlanta, GA	57.3%	1,704	2,931	98.2%	88.7%	Optimized
Center C Distribution Los	55.7%	1,019	3,183	99.4%	82.7%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>1</sup> 39.6%	1,059	2,456	97.8%	70.4%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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