# **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: 44

Average Utilization: 79.1% 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	67.6%	2,639	3,173	98.2%	82.5%	Optimized
Center A Distribution Dallas, TX Center B	69.0%	1,836	2,179	98.1%	71.8%	Improvemen t Needed
Distribution Atlanta, GA	45.1%	1,532	1,997	97.4%	89.8%	Optimized
Center C Distribution Los	62.6%	2,317	1,683	95.7%	88.4%	Optimized
Genter D Distribution Newark, NJ Center E	<sup>A</sup> 73.8%	2,251	2,568	95.5%	62.9%	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