# **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: 59

Average Utilization: 82.2% 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	68.8%	1,214	2,261	96.1%	68.1%	Improvemen t Needed
Distribution Dallas, TX	64.1%	1,792	2,582	99.4%	86.5%	Optimized
Center B Distribution Atlanta, GA Center C	63.7%	2,400	2,970	96.3%	68.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	58.1%	2,681	3,736	99.3%	93.4%	Optimized
	<sup>4</sup> 39.3%	1,048	2,861	96.9%	94.6%	Optimized

# 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