# **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: 27

Average Utilization: 84.3% 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	63.6%	2,051	3,098	97.8%	79.9%	Improvemen t Needed
Distribution Dallas, TX	44.1%	1,497	3,350	98.3%	87.7%	Optimized
Center B Distribution Atlanta, GA	47.6%	2,695	3,921	97.1%	89.2%	Optimized
Center C Distribution Los Center D Angeles, CA	52.0% \	1,451	2,324	97.7%	74.4%	Improvemen t Needed
Distribution Newark, NJ Center E	46.1%	2,814	2,169	96.7%	90.5%	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