# **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: 34

Average Utilization: 80.4% 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	83.0%	2,381	3,408	95.9%	75.9%	Improvemen t Needed
Distribution Dallas, TX	56.5%	1,517	2,774	96.0%	90.4%	Optimized
Center B Distribution Atlanta, GA	70.3%	2,004	1,937	97.6%	81.3%	Optimized
Center C Distribution Los Center D Angeles, CA	49.7% \	1,490	1,979	99.2%	64.6%	Improvemen t Needed
Distribution Newark, NJ Center E	66.6%	1,853	2,444	98.0%	89.7%	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