# **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: 78.8% 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	52.4%	2,530	2,436	98.1%	64.4%	Improvemen t Needed
Distribution Dallas, TX Center B	96.1%	1,108	2,936	98.4%	76.4%	Improvemen t Needed
Distribution Atlanta, GA	66.5%	2,820	3,859	95.6%	80.3%	Optimized
Center C Distribution Los	80.0%	1,565	2,164	99.3%	91.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	45.2%	2,002	3,397	97.4%	81.3%	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