# **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: 40

Average Utilization: 82.4% 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	Status
Distribution Chicago, IL	67.7%	2,324	1,695	98.4%	91.2%	Optimized
Center A Distribution Dallas, TX		2,159	2,737	96.4%	90.4%	Optimized
Center B Distribution Atlanta, GA	80.3%	1,180	3,805	95.8%	88.5%	Optimized
Center C Distribution Los Center D Angeles, CA	61.0% \	1,442	2,881	98.1%	65.9%	Improvemen t Needed
Distribution Newark, NJ Center E	99.5%	1,053	2,508	98.9%	76.3%	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