# **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: 75

Average Utilization: 77.7% 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	68.9%	1,441	3,272	98.2%	77.7%	Improvemen t Needed
Distribution Dallas, TX Center B	60.0%	1,692	3,097	95.2%	61.8%	Improvemen t Needed
Distribution Atlanta, GA	81.7%	2,563	3,954	97.7%	80.0%	Optimized
Center C Distribution Los	53.3%	2,565	3,340	99.1%	89.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 93.6%	1,647	2,217	96.0%	80.3%	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