# **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: 55

Average Utilization: 77.5% 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 Status Level	
Distribution Chicago, IL Center A	38.4%	2,561	1,576	99.0%	69.6%	Improvemen t Needed
Distribution Dallas, TX	36.4%	1,307	2,203	98.4%	93.6%	Optimized
Center B Distribution Atlanta, GA Center C	49.8%	1,362	3,733	98.1%	69.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	48.6% A	2,174	3,325	96.2%	65.9%	Improvemen t Needed
Distribution Newark, NJ Center E	86.1%	2,934	3,237	96.5%	88.8%	Optimized

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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