# **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: 32

Average Utilization: 77.0% 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	79.2%	2,779	3,367	97.2%	69.6%	Improvemen t Needed
Distribution Dallas, TX Center B	55.7%	1,465	3,666	95.7%	68.5%	Improvemen t Needed
Distribution Atlanta, GA	111.6%	2,212	3,728	97.5%	83.7%	Optimized
Center C Distribution Los Center D Angeles, CA	98.5% \	2,456	2,287	95.8%	79.8%	Improvemen t Needed
Distribution Newark, NJ Center E	50.1%	2,265	1,535	95.0%	83.2%	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