# **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: 78.3% 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	85.2%	1,784	3,934	95.9%	69.5%	Improvemen t Needed
Distribution Dallas, TX Center B	74.2%	2,432	2,040	96.8%	66.1%	Improvemen t Needed
Distribution Atlanta, GA	51.5%	2,623	1,937	98.2%	86.8%	Optimized
Center C Distribution Los	91.6%	1,091	3,834	99.3%	91.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 48.3%	2,231	2,342	97.9%	77.4%	Improvemen t Needed

# 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