## **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: 38

Average Utilization: 79.5% 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	50.5%	1,401	1,792	97.1%	79.5%	Improvemen t Needed
Distribution Dallas, TX Center B	64.9%	2,027	3,412	95.0%	76.6%	Improvemen t Needed
Distribution Atlanta, GA	85.0%	2,392	2,687	98.7%	81.5%	Optimized
Center C Distribution Los Center D Angeles, CA	85.1% \	2,894	1,581	96.8%	70.7%	Improvemen t Needed
Distribution Newark, NJ Center E	88.2%	1,343	2,388	96.2%	89.0%	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