## **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: 46

Average Utilization: 74.5% 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	66.1%	1,627	2,298	95.9%	75.5%	Improvemen t Needed
Distribution Dallas, TX	51.4%	2,375	3,808	95.6%	88.2%	Optimized
Center B Distribution Atlanta, GA Center C	94.3%	1,307	3,865	99.0%	63.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA	100.9% A	1,807	3,431	97.4%	63.9%	Improvemen t Needed
Distribution Newark, NJ Center E	49.6%	1,389	3,990	96.4%	81.3%	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