## **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: 37

Average Utilization: 74.9% 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	34.0%	1,988	1,630	95.5%	70.0%	Improvemen t Needed
Distribution Dallas, TX Center B	61.0%	1,791	3,748	95.6%	60.3%	Improvemen t Needed
Distribution Atlanta, GA	56.4%	2,370	3,124	95.9%	84.4%	Optimized
Center C Distribution Los Center D Angeles, CA	31.7% A	1,523	3,600	97.7%	74.1%	Improvemen t Needed
Distribution Newark, NJ Center E	63.2%	1,038	3,809	95.8%	85.5%	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