## **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: 50

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 Level	Status
Distribution Chicago, IL Center A	118.3%	1,040	2,006	95.7%	66.7%	Improvemen t Needed
Distribution Dallas, TX Center B	42.5%	2,909	1,764	95.6%	73.3%	Improvemen t Needed
Distribution Atlanta, GA	58.0%	1,285	3,152	98.4%	83.7%	Optimized
Center C Distribution Los Center D Angeles, CA	80.6% \	1,528	3,730	96.4%	78.9%	Improvemen t Needed
Distribution Newark, NJ Center E	66.7%	1,928	3,067	99.1%	82.6%	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