# **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: 51

Average Utilization: 83.4% 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	52.3%	2,871	3,540	95.4%	90.7%	Optimized
Center A Distribution Dallas, TX Center B	43.6%	1,561	1,891	97.4%	72.5%	Improvemen t Needed
Distribution Atlanta, GA	129.1%	1,921	3,525	95.3%	93.2%	Optimized
Center C Distribution Los	49.5%	1,946	3,145	99.2%	81.2%	Optimized
Center D Angeles, CA Center E	56.0%	1,359	2,849	96.8%	79.3%	Improvemen t Needed

# Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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