# **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: 47

Average Utilization: 79.8% 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, I Center A	L 84.7%	1,348	2,771	97.3%	71.4%	Improvemen t Needed
Distribution Dallas, TX	70.3%	1,007	3,386	97.0%	93.9%	Optimized
Center B Distribution Atlanta, G Center C	A 37.2%	1,779	2,510	98.2%	76.3%	Improvemen t Needed
Distribution Los Center D Angeles, C	79.7% CA	1,795	3,871	99.1%	79.0%	Improvemen t Needed
Distribution Newark, N Center E	J 66.0%	2,092	2,780	97.5%	78.6%	Improvemen t Needed

# 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