# **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: 75.2% 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 46.4%	2,324	3,101	97.5%	70.1%	Improvemen t Needed
Distribution Dallas, TX	38.4%	1,365	3,087	99.3%	94.7%	Optimized
Center B Distribution Atlanta, G Center C	A 92.5%	2,689	2,055	97.5%	68.9%	Improvemen t Needed
Distribution Los Center D Angeles, 0	48.6% CA	2,493	2,219	99.0%	65.8%	Improvemen t Needed
Distribution Newark, N Center E	IJ 65.6%	2,213	2,966	96.6%	76.7%	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