# **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: 55

Average Utilization: 72.5% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Locat	ion Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Status Level	
Distribution Chica Center A	go, IL 59.0%	2,433	2,882	99.0%	62.8%	Improvemen t Needed
Distribution Dallas Center B	s, TX 45.3%	2,702	2,155	98.7%	62.4%	Improvemen t Needed
Distribution Atlant	a, GA 101.8%	1,029	2,958	96.7%	93.1%	Optimized
Center C Distribution Los Center D Angel	64.8% es, CA	2,296	2,052	96.1%	65.8%	Improvemen t Needed
Distribution Newa Center E	rk, NJ 64.8%	2,166	3,559	99.3%	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