# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:44 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 60

Average Utilization: 69.1% 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	
Distributi Center A	on Chicago, IL	57.7%	1,880	1,720	97.4%	79.2%	Improvemen t Needed
Distributi Center B	on Dallas, TX	62.8%	1,534	2,871	95.6%	71.7%	Improvemen t Needed
Distributi Center C	on Atlanta, GA	67.8%	1,355	2,471	96.9%	65.7%	Improvemen t Needed
Distributi Center D		74.0% A	1,475	1,851	98.2%	62.0%	Improvemen t Needed
Distributi Center E	,	36.9%	1,925	2,663	95.1%	66.8%	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