# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:34 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 68

Average Utilization: 73.5% 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 42.9%	1,646	1,807	97.9%	74.2%	Improvemen t Needed
	Distribution Dallas, TX	81.6%	2,421	2,433	96.1%	85.8%	Optimized
	Center B Distribution Atlanta, G Center C	A 60.3%	1,109	2,167	99.2%	76.6%	Improvemen t Needed
	Distribution Los Center D Angeles, 0	74.9% CA	1,377	1,944	96.1%	64.2%	Improvemen t Needed
	Distribution Newark, N Center E	IJ 87.7%	1,870	3,079	96.5%	66.5%	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