# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:52 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 44

Average Utilization: 73.3% 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, IL	62.8%	2,062	3,022	99.3%	82.7%	Optimized
	Center A Distribution Dallas, TX Center B	95.5%	2,974	1,530	97.4%	76.3%	Improvemen t Needed
	Distribution Atlanta, GA Center C	47.3%	2,196	1,880	99.2%	60.7%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	83.3% N	1,611	3,996	95.6%	79.4%	Improvemen t Needed
	Distribution Newark, NJ Center E	47.7%	2,991	1,549	95.4%	67.4%	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