# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:46 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 38

Average Utilization: 71.0% 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	48.4%	1,681	2,947	96.6%	86.6%	Optimized
	Center A Distribution Dallas, TX Center B	100.4%	2,100	2,171	99.3%	72.0%	Improvemen t Needed
	Distribution Atlanta, GA Center C	88.7%	2,793	2,306	96.4%	63.8%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	57.7% A	1,073	1,711	98.2%	67.0%	Improvemen t Needed
	Distribution Newark, NJ Center E	95.0%	2,719	2,931	95.4%	65.8%	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