# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:13 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5
Total Robots: 73

Average Utilization: 67.8% 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	90.5%	2,563	3,933	99.4%	81.2%	Optimized
	Center A Distribution Dallas, TX Center B	49.7%	1,889	3,169	96.8%	63.5%	Improvemen t Needed
	Distribution Atlanta, GA Center C	80.2%	2,919	3,485	99.3%	70.6%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	64.0% A	1,306	3,943	98.3%	63.4%	Improvemen t Needed
	Distribution Newark, NJ Center E	56.5%	1,521	2,871	96.1%	60.4%	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