# **Warehouse Automation Analytics**

## Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:12 AM Use Case: warehouse-automation

#### **Automation Overview**

Total Warehouses: 5 Total Robots: 39

Average Utilization: 73.3% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Warehouse Location		Capacity Inbound/ Used Day		Outbound/ Picking Day Accuracy		Automation Status Level	
	Distribution Chicago, IL	95.7%	1,877	1,709	98.9%	88.2%	Optimized
	Center A Distribution Dallas, TX Center B	83.0%	1,572	2,752	96.7%	65.3%	Improvemen t Needed
	Distribution Atlanta, GA Center C	66.3%	1,285	2,220	95.5%	74.6%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	44.1% \	1,328	2,753	99.1%	70.8%	Improvemen t Needed
	Distribution Newark, NJ Center E	63.6%	1,138	3,149	97.3%	67.5%	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